SPECIAL STUDY REPORT
FOR
U.S. SCRAP
CHICAGO, ILLINOIS
U.S. EPA ID: ILD980679484
SS ID: ILZ8
TDD: F05-8611-193
PAN: FIL0102VA

VOLUME 6 OF 6

US EPA RECORDS CENTER REGION 5
407262

OCTOBER 10, 1990

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415
International Specialists in the Environment

recycled paper

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Appendix

I ANALYTICAL RESULTS OF FIT-COLLECTED SAMPLES 1987-1988 (Cont.)

# APPENDIX I

## ANALYTICAL RESULTS OF FIT-COLLECTED SAMPLES
## 1987-1988 (Cont.)

ecology and environment, inc.

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International Specialists in the Environment

# MEMORANDUM

DATE: 12/23/87

TO: File

FROM: Brenda Robbins Jones BRJ

SUBJECT: U.S. Scrap

PAN #: ILO102 CASE #: 8404

The reviewer of this inorganic/~~organic~~ data package correctly notes that spike recoveries for the ~~compounds/~~elements listed below are all biased low and should be considered estimated (i.e. qualified with a J). However, the data, at worst, underestimates the actual concentrations found in the sample.

It is my opinion that this data is usable for HRS purposes.

99N:5X

Mercury %R = 65

recycled paper

ecology and environment, inc.
CHICAGO, ILLINOIS

# CHEMICAL EVALUATION FORM

SITE NAME: U.S. Scrap PAN# _____ DATE: 12/23/87

CASE # 8407 UNITS: ug/l REVIEWER: BKJ

| TOX/ PERS | COMPOUND | CRDL | 3-5xCRDL | MEQ 028 | 029 | 031 ~~030~~ | 032 | 035 | 038 | 039 |
|---|---|---|---|---|---|---|---|---|---|---|
| | ALUMINUM | | | | | | | | | |
| | ANTIMONY | | | 33 | | | | | | 329 |
| | ARSENIC | | | | | | | | | |
| | BARIUM | | | | | | | | | |
| | BERYLLIUM | | | | | | | | | |
| | CADMIUM | | | | | | 7.5 | | | |
| | CHROMIUM | | | | | | | 14.9 | | 102 |
| | COBALT | | | | | 37 | 34 | | 75 | 141 |
| | COPPER | | | | 16.4 | 5.2 | 7.7 | 15 | | |
| | LEAD | | | | | | | 15 | | 9.6 |
| | MERCURY | | | | | | | | | .36 |
| | NICKEL | | | | | 188 | 179 | | 822 | 1090 |
| | SELENIUM | | | | | | | | | |
| | SILVER | | | | | | | 17 | | 11 |
| | THALLIUM | | | | | | | | | |
| | TIN | | | | | | | | | |
| | VANADIUM | | | | 10 | | | 12 | | |
| | ZINC | | | | | | | | | |
| | CYANIDE | | | | | | | | | |

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CHICAGO, ILLINOIS

# CHEMICAL EVALUATION FORM

SITE NAME: U.S. Scrap PAN#: DATE: 12/23/87

CASE #: 8704 UNITS: mg/l REVIEWER: BLJ

| TOX/ PERS | COMPOUND | CRDL | 3-5xCRDL | MEQ 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALUMINUM | | | | | | | | | | |
| | ANTIMONY | | | 79 | | | | | | | |
| | ARSENIC | | | | | | | | | | |
| | BARIUM | | | | | | | | | | |
| | BERYLLIUM | | | | | | | | | | |
| | CADMIUM | | | | 7.1 | | 6.4 | | | 5.1 | 53 |
| | CHROMIUM | | | 4.7 | | | | 8.9 | | 15 | 4.4 |
| | COBALT | | | 60 | | 29 | | | | 8.6 | |
| | COPPER | | | 70 | 114 | 56 | 16 | 19 | | 8.3 | 16.4 |
| | LEAD | | | | | 3.8 | | 12 | | 12 | |
| | MERCURY | | | | | .53 | | | | | |
| | NICKEL | | | 130 | 124 | 603 | | | 153 | 122 | 23 |
| | SELENIUM | | | | | | | | | | |
| | SILVER | | | | | | 9.2 | | | | |
| | THALLIUM | | | | | | | | | | |
| | TIN | | | | | | | | | | |
| | VANADIUM | | | | 14.4 | | 49 | 16 | | | 6.7 |
| | ZINC | | | | | | | | | | |
| | CYANIDE | | | | | | | | | 12 | |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

Rec'd 12/22/87
35 pages

DATE: 12-21-87

SUBJECT: Review of Region V CLP Data
Received for Review on 12-11-87

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory
Jay Thacker

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: U. S. SCRAP SMO case No. 8404

EPA Data Set No. SF4603 No. of Samples: 19 D.U./Activity Numbers Y905/C721ZZ

CRL No. 88FC05S89 - S99, R04, D91, R05; 88FC06S01 - S06

SMO Traffic No. MEQ028 - 035, 037-039, 041-048

CLP Laboratory: VERSAR Hrs. Required for Review: 7 Hrs

Following are our findings:

This review covers nineteen water samples analyzed for metals and cyanide.

The matrix spike recovery for Hg(65%), Se(67%) and Tl(52%) indicate a low bias and the data are estimated(J).

The method of standard additions was used twice to quantify lead in sample MEQ 039. Both times the correlation coefficient was less than 0.995 and the result should be estimated(J).

Analytical spike recovery for Tl for samples MEQ 031 and MEQ 038 was less than 40% even after repeating twice. This indicates interference and the data for these samples should be estimated(J).

All QC data for cyanide are acceptable.

Winston Vijeswarapu
Dec 21, 1987

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas



EPA FORM 1320-6 (Rev. 5/87)

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA 22313
703/557-2490 FTS:8-557-2490

DATE:12/ 5/87

# COVER PAGE
## INORGANIC ANALYSES DATA PACKAGE

LAB NAME: VERSAR, INC.
SOW NO.: 785

QC REPORT: 111 - 112
CASE NO.: 8404
PROJECT NO.:5027

SAMPLE NUMBERS

| EPA NO. | LAB ID NO. | EPA NO. | LAB ID NO. |
|---|---|---|---|
| MEQ 028 | 41368, 41380 | MEQ 029 | 41369, 41381 |
| MEQ 030 | 41370, 41382 | MEQ 031 | 41371, 41383 |
| MEQ 032 | 41372, 41384 | MEQ 033 | 41373, 41385 |
| MEQ 035 | 41374, 41386 | MEQ 037 | 41375, 41387 |
| MEQ 038 | 41376, 41338 | MEQ 041 | 41377, 41389 |
| MEQ 042 | 41378, 41390 | MEQ 043 | 41379, 41391 |
| MEQ 034 | 41418, 41425 | MEQ 039 | 41419, 41426 |
| MEQ 044 | 41420, 41427 | MEQ 045 | 41421, 41428 |
| MEQ 046 | 41422, 41429 | MEQ 047 | 41423, 41430 |
| MEQ 048 | 41424, 41431 | | |

COMMENTS:

RECEIVED
DEC 11 1987
U.S. EPA CONTRACT REGIONAL LAB.
536 S CLARK STREET
CHICAGO, ILLINOIS 60605

ICP INTERELEMENT AND BACKGROUND CORRECTION APPLIED? YES.
CORRECTIONS APPLIED BEFORE GENERATION OF RAW DATA.

FOOTNOTES:
NR - NOT REQUIRED BY CONTRACT AT THIS TIME

FORM I:
VALUE - IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT BUT LESS THAN THE CONTRACT REQUIRED DETECTION LIMIT, REPORT THE VALUE IN BRACKETS ( I.E., [10] ). INDICATE THE ANALYTICAL METHOD USED WITH P ( FOR ICP),A (FLAME AA), OR F ( FOR FURNACE ).
U - INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORT WITH THE DETECTION LIMIT VALUE ( E.G., 10U ).
- INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE. EXPLANATORY NOTE INCLUDED ON COVER PAGE.
S - INDICATES VALUE DETERMINED BY METHOD OF STANDARD ADDITION
- INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.
* - INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS.
+ - INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995
DF - DILUTION FACTOR
SD - SAMPLE USED FOR ICP SERIAL DILUTION
M - INDICATES DUPLICATE INJECTION RESULTS EXCEED CONTROL LIMITS

INDICATE METHOD USED: P FOR ICP; A FOR FLAME AA AND F FOR FURNACE.

[redacted] CENTRAL REGIONAL LABORATORY [redacted] DATA FORM [redacted]

LOG IN DATE: [redacted]

DUE DATE: 1/14/88

# ORGANICS/INORGANICS

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

SUPERFUND 4603

CASE NUMBER/SAS No. 8404 SITE NAME U.S. Scrap 28 LABORATORY CAL (ERCO/GNSCCO) / Versar DATE SHIPPED 11/4/87

SUPERFUND DU NUMBER U905 EPA RPM or OSC (S M S )/(CES) _____ CERCLIS NUMBER ILD980679484 PAGE 1 OF 1

ACTIVITY NUMBER C72100

| CRL LOG NUMBER | ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No | INORGANIC TRAFFIC REPORT NUMBER | WATER OR LIQUIDS: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564 | WATER POLYCHLORINATED BIPHENYLS UG L PES 17144 | WATER CHLORINATED PESTICIDES UG L PES17134 | TOTAL METALS IN WATER UG L MET111 | WATER CYANIDE UG/L MIN74919 | NITRATE NITRITE MG L MIN7284 | AMMONIA MG/L MIN7294 | RESIDUE FILTERABLE TDS MG L MIN7362 | RESIDUE NON FILT TSS MG L MIN7372 | | | SEDIMENTS or SOILS: ACID BASE NEUTRAL CPDS ORGANIC SCAN MG KG TOX215722 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX215622 | SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422 | SEDIMENT CHLORINATED PESTICIDES MG/KG 211322 | TOTAL METALS MG/KG MET413 | CYANIDE MG KG MIN44930 | EP TOXICITY METALS MG KG | AMMONIA MG/KG MIN42925 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88FC05S89 | EQ394 | MEQ028 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S90 | EQ395 | MEQ029 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05R04 | EQ396 | MEQ030 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S91 | EQ397 | MEQ031 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05D91 | EQ398 | MEQ032 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S92 | EQ399 | MEQ033 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S93 | EQ401 | MEQ035 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S94 | EQ403 | MEQ037 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S95 | EQ404 | MEQ038 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S96 | EQ407 | MEQ041 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S97 | EQ408 | MEQ042 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S98 | EQ409 | MEQ043 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC05S99 | EQ402 | — | | ✓ | | | | | | | | | | | | | | | | | | | | | | |
| 88FC05R05 | EQ400 | MEQ034 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC06S01 | EQ405 | MEQ039 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC06S02 | EQ410 | MEQ044 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC06S03 | EQ411 | MEQ045 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC06S04 | EQ412 | MEQ046 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC06S05 | EQ413 | MEQ047 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| 88FC06S06 | EQ414 | MEQ048 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 028

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41368, 41380

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 533. | P | 13. | MAGNESIUM | 113000. | P |
| 2. | ANTIMONY | [ 33.] | P | 14. | MANGANESE | [ 14.] | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 21.] | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 8680. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 25. UN | F |
| 7. | CALCIUM | 253000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 64700. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 502. | P | 23. | ZINC | 4.0 U | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

disregard 3rd 12/23/87

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 5 FOR MG, CA, SE;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
.O. BOX 818 - ALEXANDRIA, VA. 22313
03/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 029

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

OW NO. 785

LAB RECEIPT DATE 11/05/87

AB SAMPLE ID. NO. 41369, 41381

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

ONCENTRATION: LOW X MEDIUM HIGH

ATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 407. | P | 13. | MAGNESIUM | 112000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 17. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 20.] | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 5.0 U | P | 17. | POTASSIUM | 9260. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 250000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 59200. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 6.4] | P | 22. | VANADIUM | [ 10.] | P |
| 11. | IRON | 502. | P | 23. | ZINC | [ 7.5] | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 5 FOR MG, CA; DF OF 10 FOR SE;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 030

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41370, 41382

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 26. U | P | 13. | MAGNESIUM | [ 47.] | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 1.0 U | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | 2.0 U | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 1720. U | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | [ 124.] | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 93. U | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 5.0 U | P | 23. | ZINC | 4.0 U | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MER 031

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41371, 41383

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 26. U | P | 13. | MAGNESIUM | 207000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 1260. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 199.] | P | 16. | NICKEL | 188. | P |
| 5. | BERYLLIUM | 10. U | P | 17. | POTASSIUM | 25800. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 25. UN | F |
| 7. | CALCIUM | 259000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 124000. | P |
| 9. | COBALT | [ 37.] | P | 21. | THALLIUM | 20. UNE | F |
| 10. | COPPER | [ 5.2] | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 252. | P | 23. | ZINC | 45. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 5 FOR CA, SE; DF OF 10 FOR MG, TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 032

DATE 12/ 5/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41372, 41384

QC REPORT NO. I11 - 112

PROJECT-TASK 5027.0000

BATCH 111

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 26. U | P | 13. | MAGNESIUM | 198000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 1200. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 189.] | P | 16. | NICKEL | 179. | P |
| 5. | BERYLLIUM | 10. U | P | 17. | POTASSIUM | 25100. | P |
| 6. | CADMIUM | 7.5 | P | 18. | SELENIUM | 25. UN | F |
| 7. | CALCIUM | 243000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 118000. | P |
| 9. | COBALT | [ 34.] | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 7.7] | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 197. | P | 23. | ZINC | 43. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 2 FOR MG; DF OF 10 FOR MG; DF OF 5 FOR SE;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 033

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41373, 41385

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 352. | P | 13. | MAGNESIUM | 114000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | [ 13.] | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 17.] | P | 16. | NICKEL | 55. U | P |
| 5. | BERYLLIUM | 5.0 U | P | 17. | POTASSIUM | 8850. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 255000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 20. U | P | 20. | SODIUM | 60400. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 312. | P | 23. | ZINC | 4.0 U | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 5 FOR MG, CA; DF OF 10 FOR SE; SD;

LAB MANAGER PNW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 034

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41418, 41425

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 112

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 26. U | P | 13. | MAGNESIUM | 2.0 U | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 1.0 U | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | 2.0 U | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 1720. U | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | [ 84.] | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | [ 158.] | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 5.0 U | P | 23. | ZINC | 4.0 U | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM III E
BLANKS

Q.C.REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE: 12/ 5/87

CASE NO.: 8404
UNITS: UG/L

MATRIX HOH

| COMPOUND | INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | | | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | | | | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 2.0U | 2.0U | | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III F
BLANKS

Q.C.REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE: 12/ 5/87

CASE NO.: 8404
UNITS: UG/L

| COMPOUND | MATRIX HOH INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | | | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | | | | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 2.0U | 2.0U | | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 035

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41374, 41386

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 5180. | P | 13. | MAGNESIUM | 116000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 148. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 46.] | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 5.0 U | P | 17. | POTASSIUM | 10100. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 260000. | P | 19. | SILVER | 17. | P |
| 8. | CHROMIUM | [ 4.9] | P | 20. | SODIUM | 57700. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 15.] | P | 22. | VANADIUM | [ 12.] | P |
| 11. | IRON | 7420. | P | 23. | ZINC | 33. | P |
| 12. | LEAD | 15. | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - TAN; CLARITY - CLOUDY; DF OF 5 FOR MG, CA; DF OF 10 FOR SE;

LAB MANAGER PKD for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 037

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41375, 41387

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 1210. | P | 13. | MAGNESIUM | 6790. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 19. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 7.2] | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 6270. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 12900. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 70400. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 951. | P | 23. | ZINC | [ 15.] | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 10 FOR TL ;

LAB MANAGER PNW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 038

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41376, 41388

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 199.] | P | 13. | MAGNESIUM | 238000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 1300. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 73.] | P | 16. | NICKEL | 822. | P |
| 5. | BERYLLIUM | 20. U | P | 17. | POTASSIUM | 40100. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 621000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 243000. | P |
| 9. | COBALT | 75. | P | 21. | THALLIUM | 20. UNE | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 4800. | P | 23. | ZINC | 43. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 5 FOR NA, CA;
DF OF 20 FOR MG; DF OF 10 FOR SE, TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 039

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41419, 41426

QC REPORT NO. I11 - 112

PROJECT-TASK 5027.0000

BATCH 112

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 88.] | P | 13. | MAGNESIUM | 495000. | P |
| 2. | ANTIMONY | 329. | P | 14. | MANGANESE | 7100. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.36 | N |
| 4. | BARIUM | [ 191.] | P | 16. | NICKEL | 1090. | P |
| 5. | BERYLLIUM | 25. U | P | 17. | POTASSIUM | 121000. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 856000. | P | 19. | SILVER | 11. | P |
| 8. | CHROMIUM | 102. | P | 20. | SODIUM | 357000. | P |
| 9. | COBALT | [ 41.] | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 100. U | P |
| 11. | IRON | 292000. | P | 23. | ZINC | 580. | P |
| 12. | LEAD | 9.6 | F S+ | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - BROWN; CLARITY - OPAQUE; DF OF 5 FOR CA, FE, NA; DF OF 25 FOR MG; DF OF 10 FOR SE, TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 041

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41377, 41389

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 26. U | P | 13. | MAGNESIUM | 704000. | P |
| 2. | ANTIMONY | 79. | P | 14. | MANGANESE | 1010. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 19.] | P | 16. | NICKEL | 120. | P |
| 5. | BERYLLIUM | 25. U | P | 17. | POTASSIUM | 39900. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 533000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | [ 4.7] | P | 20. | SODIUM | 225000. | P |
| 9. | COBALT | 60. | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | 70. | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | [ 84.] | P | 23. | ZINC | 61. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 5 FOR CA, NA;
DF OF 25 FOR MG; DF OF 10 FOR SE, TL;

LAB MANAGER PKW for
WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 042

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41378, 41390

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 27.] | P | 13. | MAGNESIUM | 140000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 99. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 14.] | P | 16. | NICKEL | 124. | P |
| 5. | BERYLLIUM | 5.0 U | P | 17. | POTASSIUM | 27200. | P |
| 6. | CADMIUM | 7.1 | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 193000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 441000. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | [ 14.] | P | 22. | VANADIUM | [ 4.4] | P |
| 11. | IRON | [ 49.] | P | 23. | ZINC | 30. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 5 FOR MG, NA;
DF OF 10 FOR SE, TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 043

DATE 12/ 5/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/05/87

LAB SAMPLE ID. NO. 41379, 41391

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 111

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 26. U | P | 13. | MAGNESIUM | 295000. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 1570. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.53 | N |
| 4. | BARIUM | [ 41.] | P | 16. | NICKEL | 603. | P |
| 5. | BERYLLIUM | 25. U | P | 17. | POTASSIUM | 20200. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 531000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 233000. | P |
| 9. | COBALT | [ 29.] | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | 56. | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 268. | P | 23. | ZINC | 73. | P |
| 12. | LEAD | 3.8 | F S | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 5 FOR CA, NA;
DF OF 25 FOR MG; DF OF 10 FOR SE, TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 044

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41420, 41427

QC REPORT NO. I11 - 112

PROJECT-TASK 5027.0000

BATCH 112

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 115.] | P | 13. | MAGNESIUM | [ 4570.] | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | [ 15.] | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 2.5] | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | [ 3850.] | P |
| 6. | CADMIUM | 6.4 | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 10500. | P | 19. | SILVER | [ 9.2] | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 109000. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | [ 16.] | P | 22. | VANADIUM | [ 4.9] | P |
| 11. | IRON | 310. | P | 23. | ZINC | 30. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 10 FOR TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
.O. BOX 818 - ALEXANDRIA, VA. 22313
03/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 045

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41421, 41428

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 112

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 8280. | P | 13. | MAGNESIUM | 11100. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 89. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 25.] | P | 16. | NICKEL | 11. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 6930. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 18500. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | [ 8.9] | P | 20. | SODIUM | 98300. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 19.] | P | 22. | VANADIUM | [ 16.] | P |
| 11. | IRON | 7230. | P | 23. | ZINC | 126. | P |
| 12. | LEAD | 12. | F S | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - TAN; CLARITY - OPAQUE; DF OF 2 FOR PB;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 046

DATE 12/ 5/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41422, 41429

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 112

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 82.] | P | 13. | MAGNESIUM | 62800. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 82. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | [ 33.] | P | 16. | NICKEL | 153. | P |
| 5. | BERYLLIUM | 5.0 U | P | 17. | POTASSIUM | 5780. | P |
| 6. | CADMIUM | 5.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 145000. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 4.0 U | P | 20. | SODIUM | 149000. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | 5.0 U | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 378. | P | 23. | ZINC | 171. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 5 FOR MG;
DF OF 10 FOR TL;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO. MEQ 047

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SOW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41423, 41430

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 112

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 50.] | P | 13. | MAGNESIUM | 64700. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 155. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 UN | |
| 4. | BARIUM | 393. | P | 16. | NICKEL | 122. | P |
| 5. | BERYLLIUM | 5.0 U | P | 17. | POTASSIUM | 131000. | P |
| 6. | CADMIUM | 5.1 | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 64500. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | 15. | P | 20. | SODIUM | 581000. | P |
| 9. | COBALT | [ 8.6] | P | 21. | THALLIUM | 100. UN | F |
| 10. | COPPER | [ 8.3] | P | 22. | VANADIUM | 4.0 U | P |
| 11. | IRON | 607. | P | 23. | ZINC | 141. | P |
| 12. | LEAD | 12. | F S | | | | |
| | CYANIDE | 12. | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 5 FOR MG, NA;
DF OF 2 FOR PB ; DF OF 10 FOR TL;

LAB MANAGER PKW For

WILLIAM T. NIVENS

FORM I

.S. EPA CONTRACT LABORATORY PROGRAM
AMPLE MANAGEMENT OFFICE
.O. BOX 818 - ALEXANDRIA, VA. 22313
3/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEQ 048

DATE 12/ 5/87

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 8404

SDW NO. 785

LAB RECEIPT DATE 11/06/87

LAB SAMPLE ID. NO. 41424, 41431

QC REPORT NO. 111 - 112

PROJECT-TASK 5027.0000

BATCH 112

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 140.] | P | 13. | MAGNESIUM | 46500. | P |
| 2. | ANTIMONY | 33. U | P | 14. | MANGANESE | 161. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.20 UN | |
| 4. | BARIUM | [ 35.] | P | 16. | NICKEL | [ 23.] | P |
| 5. | BERYLLIUM | 2.0 U | P | 17. | POTASSIUM | 9820. | P |
| 6. | CADMIUM | 5.3 | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 91900. | P | 19. | SILVER | 7.0 U | P |
| 8. | CHROMIUM | [ 4.4] | P | 20. | SODIUM | 18400. | P |
| 9. | COBALT | 8.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 6.4] | P | 22. | VANADIUM | [ 6.7] | P |
| 11. | IRON | 217. | P | 23. | ZINC | 23. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 5 FOR MG;

LAB MANAGER PKW for

WILLIAM T. NIVENS

FORM 11I A
BLANKS

Q.C.REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE:12/ 5/87

CASE NO.: 8404
UNITS: UG/L

MATRIX HOH

| COMPOUND | INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: HOH | MATRIX 2: HOH |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | 26.U | 26.U | 26.U | 26.U | 26.U | 26.U | [ 67.] |
| 2. ANTIMONY | 33.U | 33.U | 33.U | 33.U | 33.U | 33.U | 33.U |
| 3. ARSENIC | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | --- |
| 4. BARIUM | [ 3.6] | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U |
| 5. BERYLLIUM | [ 4.1] | 1.0U | 1.0U | 1.0U | 1.0U | 1.0U | 1.0U |
| 6. CADMIUM | 5.0U | 5.0U | 5.0U | 5.0U | 5.0U | 5.0U | 5.0U |
| 7. CALCIUM | 8.0U | [ 22.] | [ 53.] | [ 103.] | [ 79.] | 8.0U | 8.0U |
| 8. CHROMIUM | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U |
| 9. COBALT | 8.0U | 8.0U | 8.0U | 8.0U | 8.0U | 8.0U | 8.0U |
| 10. COPPER | 5.0U | 5.0U | 5.0U | [ 5.1] | 5.0U | 5.0U | 5.0U |
| 11. IRON | [ 5.4] | 5.0U | [ 9.3] | 5.0U | 5.0U | 5.0U | 5.0U |
| 12. LEAD | 1.0U | 1.0U | 1.0U | [ 1.2] | 1.0U | 1.0U | --- |
| 13. MAGNESIUM | 2.0U | [ 15.] | [ 33.] | [ 87.] | [ 29.] | [ 2.3] | [ 2.2] |
| 14. MANGANESE | 1.0U | 1.0U | 1.0U | [ 1.5] | 1.0U | 1.0U | 1.0U |
| 15. MERCURY | 0.2U | 0.2U | 0.2U | 0.2U | --- | 0.2U | --- |
| 16. NICKEL | 11.U | 11.U | 11.U | 11.U | 11.U | 11.U | 11.U |
| 17. POTASSIUM | 1720.U | 1720.U | 1720.U | 1720.U | 1720.U | 1720.U | 1720.U |
| 18. SELENIUM | 2.0U | 2.0U | --- | --- | --- | 2.0U | --- |
| 19. SILVER | 7.0U | 7.0U | 7.0U | 7.0U | 7.0U | 7.0U | 7.0U |
| 20. SODIUM | 93.U | 93.U | 93.U | 93.U | 93.U | 93.U | [ 161.] |
| 21. THALLIUM | 2.0U | 2.0U | 2.0U | --- | --- | 2.0U | --- |
| 22. VANADIUM | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U |
| 23. ZINC | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U |
| 24. CYANIDE | 10.U | 10.U | 10.U | --- | --- | 10.U | 10.U |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III B
BLANKS

Q.C.REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE:12/ 5/87

CASE NO.: 8404
UNITS: UG/L

MATRIX HOH

| COMPOUND | INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: HOH | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | 26.U | 26.U | [ 45.] | | | |
| 2. ANTIMONY | | 33.U | 33.U | 33.U | | | |
| 3. ARSENIC | | 4.0U | 4.0U | --- | | | |
| 4. BARIUM | | 2.0U | 2.0U | 2.0U | | | |
| 5. BERYLLIUM | | 1.0U | 1.0U | 1.0U | | | |
| 6. CADMIUM | | 5.0U | 5.0U | 5.0U | | | |
| 7. CALCIUM | | 8.0U | [ 93.] | [ 33.] | | | |
| 8. CHROMIUM | | 4.0U | 4.0U | 4.0U | | | |
| 9. COBALT | | 8.0U | 8.0U | 8.0U | | | |
| 10. COPPER | | 5.0U | 5.0U | 5.0U | | | |
| 11. IRON | | 5.0U | 5.0U | [ 15.] | | | |
| 12. LEAD | 1.0U | 1.0U | [ 1.0] | --- | | | |
| 13. MAGNESIUM | | 2.0U | [ 44.] | [ 39.] | | | |
| 14. MANGANESE | | [ 1.3] | [ 1.8] | 1.0U | | | |
| 15. MERCURY | 0.2U | 0.2U | --- | --- | | | |
| 16. NICKEL | | 11.U | 11.U | 11.U | | | |
| 17. POTASSIUM | | 1720.U | 1720.U | 1720.U | | | |
| 18. SELENIUM | 2.0U | 2.0U | --- | --- | | | |
| 19. SILVER | | 7.0U | 7.0U | 7.0U | | | |
| 20. SODIUM | | 93.U | [ 150.] | 93.U | | | |
| 21. THALLIUM | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | | |
| 22. VANADIUM | | 4.0U | 4.0U | 4.0U | | | |
| 23. ZINC | | 4.0U | 4.0U | 4.0U | | | |
| 24. CYANIDE | 10.U | 10.U | --- | --- | | 10.U | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III C
BLANKS

Q.C.REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE: 12/ 5/87

CASE NO.: 8404
UNITS: UG/L

| COMPOUND | MATRIX HOH INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | 4.0U | 4.0U | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | 1.0U | 1.0U | 1.0U | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 2.0U | 2.0U | | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | 2.0U | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III D
BLANKS

Q.C.REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE: 12/ 5/87

CASE NO.: 8404
UNITS: UG/L

| COMPOUND | MATRIX HOH INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | | | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | | | | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 2.0U | 2.0U | 2.0U | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM V A
SPIKE SAMPLE RECOVERY

Q.C. REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE:12/ 5/87

MATRIX: L. HOH

CASE NO.: 8404
EPA SAMPLE NO.: MEQ 032
LAB SAMPLE ID NO.: 41372
UNITS: UG/L

| COMPOUND | CONTROL LIMIT %R | SPIKED SAMPLE RESULT (SSR) | SAMPLE RESULT (SR) | SPIKED ADDED (SA) | %R (1) | |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 75-125 | 2140. | 26.U | 2000. | 107. | |
| 2. ANTIMONY | 75-125 | 520. | 33.U | 500. | 104. | |
| 3. ARSENIC (3) | 75-125 | 23. | 10.U | 20. | 115. | |
| 4. BARIUM | 75-125 | 2250. | [ 189.] | 2000. | 103. | |
| 5. BERYLLIUM | 75-125 | 44. | 10.U | 50. | 88. | |
| 6. CADMIUM | 75-125 | 54. | 7.5 | 50. | 93. | |
| 7. CALCIUM | 75-125 | NR | --- | --- | --- | |
| 8. CHROMIUM | 75-125 | 202. | 4.0U | 200. | 101. | |
| 9. COBALT | 75-125 | 526. | [ 34.] | 500. | 98. | |
| 10. COPPER | 75-125 | 266. | [ 7.7] | 250. | 103. | |
| 11. IRON | 75-125 | 1180. | 197. | 1000. | 98. | |
| 12. LEAD (3) | 75-125 | 20. | 5.0U | 20. | 100. | |
| 13. MAGNESIUM | 75-125 | NR | --- | --- | --- | |
| 14. MANGANESE | 75-125 | 1440. | 1200. | 200. | 120. | |
| 15. MERCURY (4) | 75-125 | 0.65 | 0.2U | 1.0 | 65. | N |
| 16. NICKEL | 75-125 | 572. | 179. | 400. | 98. | |
| 17. POTASSIUM | 75-125 | NR | --- | --- | --- | |
| 18. SELENIUM | 75-125 | [ 6.7] | 25.U | 10. | 67. | N |
| 19. SILVER | 75-125 | 51. | 7.0U | 50. | 102. | |
| 20. SODIUM | 75-125 | NR | --- | --- | --- | |
| 21. THALLIUM | 75-125 | 26. | 10.U | 50. | 52. | N |
| 22. VANADIUM | 75-125 | 526. | 4.0U | 500. | 105. | |
| 23. ZINC | 75-125 | 253. | 43. | 200. | 105. | |
| 24. CYANIDE (2) | 75-125 | 89. | 10.U | 100. | 89. | |

(1) %R = [(SSR-SR)/SA] X 100 "N"- OUT OF CONTROL "NR" - NOT REQUIRED
(2) EPA # MEQ 032 - LAB # 41372, 41384 (3) EPA # MEQ 029 - LAB # 41369

FORM VI A
DUPLICATES

Q.C. REPORT: 111 - 112

LAB NAME: VERSAR, INC.
DATE:12/ 5/87

MATRIX: L. HOH

CASE NO.: 8404
EPA SAMPLE NO.: MEQ 028
LAB SAMPLE ID NO.: 41368
UNITS: UG/L

| COMPOUND | CONTROL LIMITS (1) | SAMPLE(S) | DUPLICATE(D) | RPD(2) |
|---|---|---|---|---|
| 1. ALUMINUM | | 533. | 517. | 3.0 |
| 2. ANTIMONY | | [ 33.] | 33.U | NC |
| 3. ARSENIC (4) | | 10.U | 10.U | NC |
| 4. BARIUM | | [ 21.] | [ 20.] | NC |
| 5. BERYLLIUM | | 1.0U | 1.0U | NC |
| 6. CADMIUM | | 5.0U | 5.0U | NC |
| 7. CALCIUM | | 253000. | 247000. | 2.4 |
| 8. CHROMIUM | | 4.0U | 4.0U | NC |
| 9. COBALT | | 8.0U | 8.0U | NC |
| 10. COPPER | | 5.0U | 5.0U | NC |
| 11. IRON | | 502. | 508. | 1.2 |
| 12. LEAD (4) | | 5.0U | 5.0U | NC |
| 13. MAGNESIUM | | 113000. | 111000. | 2.7 |
| 14. MANGANESE | | [ 14.] | [ 14.] | NC |
| 15. MERCURY (3) | | 0.2U | 0.2U | NC |
| 16. NICKEL | | 11.U | 11.U | NC |
| 17. POTASSIUM | | 8680. | 8250. | 5.1 |
| 18. SELENIUM (4) | | 50.U | 50.U | NC |
| 19. SILVER | | 7.0U | 7.0U | NC |
| 20. SODIUM | | 64700. | 64900. | 0.31 |
| 21. THALLIUM (4) | | 10.U | 20.U E | NC |
| 22. VANADIUM | | 4.0U | 4.0U | NC |
| 23. ZINC | | 4.0U | 4.0U | NC |
| 24. CYANIDE (3) | | 10.U | 10.U | NC |

(1) TO BE ADDED AT A LATER DATE (2) RPD = [(S-D)/((S+D)/2)]X100
(3) EPA # MEQ 032 - LAB # 41372, 41384 (4) EPA # MEQ 029 - LAB # 41369
NC - NON CALCULABLE RPD DUE TO VALUE(S) LESS THAN CRDL * - OUT OF CONTROL

FORM VII A Q.C. REPORT: 111 - 112

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 8404 DATE:12/ 5/87

LCS NO.:LCSA OR LCSFA (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# 4 | IDL (UG/L) Furnace ID# 6 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | 26. | | 1980. | 2110. | 107. |
| 2. ANTIMONY (1) | 60. | 33. | | 1010. | 1050. | 104. |
| 3. ARSENIC | 10. | | 3. | 49.4 | 43. | 87. |
| 4. BARIUM | 200. | 2. | | 1980. | 2060. | 104. |
| 5. BERYLLIUM | 5. | 1. | | 481. | 492. | 102. |
| 6. CADMIUM | 5. | 5. | | 489. | 487. | 100. |
| 7. CALCIUM | 5000. | 8. | | 49800. | 49700. | 100. |
| 8. CHROMIUM | 10. | 4. | | 506. | 501. | 99. |
| 9. COBALT | 50. | 8. | | 474. | 487. | 103. |
| 10. COPPER | 25. | 5. | | 542. | 536. | 99. |
| 11. IRON | 100. | 5. | | 1990. | 2000. | 101. |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | 2. | | 25000. | 23400. | 94. |
| 14. MANGANESE | 15. | 1. | | 513. | 513. | 100. |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | 11. | | 496. | 479. | 97. |
| 17. POTASSIUM | 5000. | 1720. | | 50200. | 50700. | 101. |
| 18. SELENIUM | 5. | | 2. | 98.2 | 82. | 84. |
| 19. SILVER | 10. | 7. | | 509. | 484. | 95. |
| 20. SODIUM | 5000. | 93. | | 50700. | 50900. | 100. |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | 4. | | 511. | 526. | 103. |
| 23. ZINC | 20. | 4. | | 3100. | 2950. | 95. |
| 24. CYANIDE | 10. | NR | NR | 224. | 216. | 96. |

NR - NOT REQUIRED ID# 4- JARRELL ASH 1150 ID# 6- PERKIN ELMER 5000

(1) LCS NO. IS LCSB OR LCSF B

FORM VII B Q.C. REPORT: 111 - 112

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 8404 DATE:12/ 5/87

LCS NO.: LCSF A (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# 4 | IDL (UG/L) Furnace ID# 8 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY (1) | 60. | | | | | |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | 1. | 97.9 | 96. | 98. |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | NR | NR | 224. | 200. | 89. |

NR - NOT REQUIRED ID# 4- JARRELL ASH 1150 ID# 8- PERKIN ELMER 3030

FORM VII C

Q.C. REPORT: 111 - 112

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 8404 DATE:12/ 5/87

LCS NO.: LCSF A (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# 4 | IDL (UG/L) Furnace ID# 10 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY (1) | 60. | | | | | |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | 2. | 97.3 | 104. | 107. |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | NR | NR | 224. | 216. | 96. |

NR - NOT REQUIRED ID# 4- JARRELL ASH 1150 ID# 10- PERKIN ELMER 3030

FORM VII D Q.C. REPORT: 111 - 112

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 8404 DATE:12/ 5/87

LCS NO.:ICV #5 (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# 4 | IDL (UG/L) Furnace ID# 7 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY (1) | 60. | | | | | |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | 0.2 | 5.2 | 4.9 | 94. |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | | | | | |

NR - NOT REQUIRED ID# 4- JARRELL ASH 1150 ID# 7- PERKIN ELMER MAS 50A

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415
International Specialists in the Environment

CRL Receipt Date 6/3/88 FIT Receipt Date 6/24/88 Review Completed 6/27/88

TO: J. CARMAN
FROM: Mary Gzyra
SUBJECT: U.S SCRAP
PAN: IL0102VA (1 hour charged for review) Case # 9614/3871

Sample Description

| Organics (VOA, ABN, Pest/PCB) | | Inorganics (Metals, Cyanide) | |
|---|---|---|---|
| # _____ | Low Soil | # _____ | Low Soil |
| 16 | Low Water | _____ | Low Water |
| _____ | Drinking Water | _____ | Drinking Water |
| _____ | Other | _____ | Other |

Project Data Status _____ Completed!!

✓ Incomplete, awaiting balance of low water & soil organics; balance of low water & soil inorganics

FIT Data Review Findings:
- Halogenated hydrocarbons, aromatics & ketones detected in EX 169, 172, & 178.
- Several elevated HH, A, & K detected in EX 180
- See TIC data sheets for EX 167, 169, 171, 172, 178 & 180
- Semi-VOA's J'd due to unmeasurable surrogate standards of the dilution.

***Check Data Sheets for Transcription Errors***

✓ Compounds were detected in sample(s); see enclosed sheet.

Book No. 8 Page No. 84 Date Sampled 5/17 & 5/18/88

0759:2

recycled paper

6/24/88



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/20/88

SUBJECT: Review of Region V CLP Data
Received for Review on 6-3-88

FROM. Curtis Ross, Director (5SCRL) for
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: U.S. Scrap (IL) SMO Case No. 9614-SAS3871E

EPA Data Set No. SF5194 (1) No. of Samples: 16 D.U./Activity Numbers Y905/C72178

CRL No. 88FC22509 - S21, R03, R04, D12

SMO Traffic No. EX166 - 180, 127

CLP Laboratory: DATACHEM Hrs. Required for Review: 12hrs

Following are our findings:

This review covers 16 samples (15 full, 1 VOA only) for RAS+ SAS organics (fast turnaround).

See data qualifier/calibration outlier sheets for details of qualification for this case.

Kevin B Bolger USEPA Region 5
6-20-88

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications referenced above. See Data Qualifier sheets and Calibration Outlier forms for flags and additional comments.
( ) Data are preliminary - pending verification by Contractor Laboratory. See Case Summary above.
( ) Data are unacceptable.

cc: Carla Dempsey, CLP Quality Assurance Officer, Analytical Operations Branch
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

Table 4- Cont.

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≥ 1 | ≥ 2 | ≥ 3 | ≥ 4 | ≥ 5 | ≥ 6 | ≥ 7 | ≥ 8 | ≥ 9 | ≥ 10 | ≥ 11 | ≥ 12 |
| Semivolatile Organics, Cont. | Ex 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 |
| 4-nitroaniline | | | | | | | | | | | | |
| 4,6-dinitro-2-methylphenol | | | | | | | | | | | | |
| n-nitrosodiphenylamine | | | | | | | | | | | | |
| 4-bromophenyl-phenylether | | | | | | | | | | | | |
| hexachlorobenzene | | | | | | | | | | | | |
| pentachlorophenol | | | | | | | | | | | | |
| phenanthrene | | | | | | | | | | | | |
| anthracene | | | | | | | | | | | | |
| di-n-butylphthalate | | | 96 J | 1 J | | | 99 J | | | | | |
| fluoranthene | | | | | | | | | | | | |
| pyrene | | | | | | | | | | | | |
| butylbenzylphthalate | | | | | | | | | | | | |
| 3,3'-dichlorobenzidine | | | | | | | | | | | | |
| benzo(a)anthracene | | | | | | | | | | | | |
| chrysene | | | | | | | | | | | | |
| bis(2-ethylhexyl)phthalate | | | | 12 J | | | 2 J | | | | | |
| di-n-octylphthalate | | | | | | | | | | | | |
| benzo(b)fluoranthene | | | | | | | | | | | | |
| benzo(k)fluoranthene | | | | | | | | | | | | |
| benzo(a)pyrene | | | | | | | | | | | | |
| indeno(1,2,3-cd)pyrene | | | | | | | | | | | | |
| dibenzo(a,h)anthracene | | | | | | | | | | | | |
| benzo(g,h,i)perylene | | | | | | | | | | | | |
| Pesticides/PCBs | | | | | | | | | | | | |
| alpha BHC | | | | | | | | | | | | |
| beta BHC | | | | | | | | | | | | |
| delta BHC | | | | | | | | | | | | |
| gamma BHC (Lindane) | | | | | | | | | | | | |
| Heptachlor | | | | | | | | | | | | |
| Aldrin | | | | | | | | | | | | |
| Heptachlor epoxide | | | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | | | |
| Dieldrin | | | | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | | | | |
| Endrin | | | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | | | | |
| Endosulfan sulfate | | | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | | | |
| Methoxychlor (Marlate) | | | | | | | | | | | | |
| Endrin ketone | | | | | | | | | | | | |
| alpha Chlordane | | | | | | | | | | | | |
| gamma Chlordane | | | | | | | | | | | | |
| Toxaphene | | | | | | | | | | | | |
| Aroclor 1016 | | | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | | | |

Table [illegible]

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | EX166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 |
| **Volatile Organics, Cont.** | | | | | | | | | | | | |
| ethylbenzene | | | | 830 | | | 950 | | | | | |
| styrene | | | | | | | | | | | | |
| xylenes (total) | | | | 440 | | | 520 | | | | | |
| | | | | | | | | | | | | |
| **Semivolatile Organics** | | | | | | | | | | | | |
| phenol | | | | 4 J | | | 3 J | | | | | |
| bis(2-chloroethyl)ether | | | | | | | | | | | | |
| 2-chlorophenol | | | | | | | | | | | | |
| 1,3-dichlorobenzene | | | | | | | | | | | | |
| 1,4-dichlorobenzene | | | | | | | | | | | | |
| benzylalcohol | | | | | | | | | | | | |
| 1,2-dichlorobenzene | | | | | | | 2 J | | | | | |
| 2-methylphenol | | | | | | | | | | | | |
| bis(2-chloroisopropyl)ether | | | | | | | | | | | | |
| 4-methylphenol | | | | | | | | | | | | |
| n-nitroso-di-n-dipropylamine | | | | | | | | | | | | |
| hexachloroethane | | | | | | | | | | | | |
| nitrobenzene | | | | | | | | | | | | |
| isophorone | | | | | | | | | | | | |
| 2-nitrophenol | | | | | | | | | | | | |
| 2,4-dimethylphenol | | | | 14 J | | | 21 J | | | | | |
| benzoic acid | | | | | | | | | | | | |
| bis(2-chloroethoxy)methane | | | | | | | | | | | | |
| 2,4-dichlorophenol | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | | | | | | | | | | | | |
| naphthalene | | | | 27 J | | | 25 J | | | | | |
| 4-chloroaniline | | | | | | | | | | | | |
| hexachlorobutadiene | | | | | | | | | | | | |
| 4-chloro-3-methylphenol | | | | | | | | | | | | |
| 2-methylnaphthalene | | | | 7 J | | | 3 J | | | | | |
| hexachlorocyclopentadiene | | | | | | | | | | | | |
| 2,4,6-trichlorophenol | | | | | | | | | | | | |
| 2,4,5-trichlorophenol | | | | | | | | | | | | |
| 2-chloronaphthalene | | | | | | | | | | | | |
| 2-nitroaniline | | | | | | | | | | | | |
| dimethylphthalate | | | | | | | | | | | | |
| acenaphthylene | | | | | | | | | | | | |
| 2,6-dinitrotoluene | | | | | | | | | | | | |
| 3-nitroaniline | | | | | | | | | | | | |
| acenaphthene | | | | | | | | | | | | |
| 2,4-dinitrophenol | | | | | | | | | | | | |
| 4-nitrophenol | | | | | | | | | | | | |
| dibenzofuran | | | | | | | | | | | | |
| 2,4-dinitrotoluene | | | | | | | | | | | | |
| diethylphthalate | | | | | | | 0.7 J | | | | | |
| 4-chlorophenyl-phenylether | | | | | | | | | | | | |
| fluorene | | | | | | | | | | | | |

Table 4- Cont.

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≥ 1 | ≥ 2 BLANK | ≥ 3 | ≥ 4 BLANK | ≥ 5 | ≥ 6 | ≥ 7 | ≥ 8 | ≥ 9 | ≥ 10 | ≥ 11 | ≥ 12 |
| Semivolatile Organics, Cont. | EX 178 | 179 | 180 | 127 | | | | | | | | |
| 4-nitroaniline | | | | | | | | | | | | |
| 4,6-dinitro-2-methylphenol | | | | | | | | | | | | |
| n-nitrosodiphenylamine | | | | | | | | | | | | |
| 4-bromophenyl-phenylether | | | | | | | | | | | | |
| hexachlorobenzene | | | | | | | | | | | | |
| pentachlorophenol | | | | | | | | | | | | |
| phenanthrene | | | | | | | | | | | | |
| anthracene | | | | | | | | | | | | |
| di-n-butylphthalate | | | | | | | | | | | | |
| fluoranthene | | | | | | | | | | | | |
| pyrene | | | | | | | | | | | | |
| butylbenzylphthalate | | | | | | | | | | | | |
| 3,3'-dichlorobenzidine | | | | | | | | | | | | |
| benzo[a]anthracene | | | | | | | | | | | | |
| chrysene | | | | | | | | | | | | |
| bis(2-ethylhexyl)phthalate | | | | | | | | | | | | |
| di-n-octylphthalate | | | | | | | | | | | | |
| benzo[b]fluoranthene | | | | | | | | | | | | |
| benzo[k]fluoranthene | | | | | | | | | | | | |
| benzo[a]pyrene | | | | | | | | | | | | |
| indeno[1,2,3-cd]pyrene | | | | | | | | | | | | |
| dibenzo[a,h]anthracene | | | | | | | | | | | | |
| benzo[g,h,i]perylene | | | | | | | | | | | | |
| Pesticides/PCBs | | | | | | | | | | | | |
| alpha BHC | | | | | | | | | | | | |
| beta BHC | | | | | | | | | | | | |
| delta BHC | | | | | | | | | | | | |
| gamma BHC (Lindane) | | | | | | | | | | | | |
| Heptachlor | | | | | | | | | | | | |
| Aldrin | | | | | | | | | | | | |
| Heptachlor epoxide | | | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | | | |
| Dieldrin | | | | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | | | | |
| Endrin | | | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | | | | |
| Endosulfan sulfate | | | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | | | |
| Methoxychlor (Marlate) | | | | | | | | | | | | |
| Endrin ketone | | | | | | | | | | | | |
| alpha Chlordane | | | | | | | | | | | | |
| gamma Chlordane | | | | | | | | | | | | |
| Toxaphene | | | | | | | | | | | | |
| Aroclor 1016 | | | | | | | | | | | | |
| Aroclor 1221 | | | | | | | | | | | | |

Table [illegible] Cont.

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | >_1 | >_2 | >_3 | >_4 | >_5 | >_6 | >_7 | >_8 | >_9 | >_10 | >_11 | >_12 |
| **Pesticides/PCBs Cont.** | | | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | | | |
| **Analyte Detected (values in mg/ [ppm])** | | | | | | | | | | | | |
| aluminum | | | | | | | | | | | | |
| antimony | | | | | | | | | | | | |
| arsenic | | | | | | | | | | | | |
| barium | | | | | | | | | | | | |
| beryllium | | | | | | | | | | | | |
| cadmium | | | | | | | | | | | | |
| calcium | | | | | | | | | | | | |
| chromium | | | | | | | | | | | | |
| cobalt | | | | | | | | | | | | |
| copper | | | | | | | | | | | | |
| iron | | | | | | | | | | | | |
| lead | | | | | | | | | | | | |
| magnesium | | | | | | | | | | | | |
| manganese | | | | | | | | | | | | |
| mercury | | | | | | | | | | | | |
| nickel | | | | | | | | | | | | |
| potassium | | | | | | | | | | | | |
| selenium | | | | | | | | | | | | |
| silver | | | | | | | | | | | | |
| sodium | | | | | | | | | | | | |
| thallium | | | | | | | | | | | | |
| vanadium | | | | | | | | | | | | |
| zinc | | | | | | | | | | | | |
| cyanide | | | | | | | | | | | | |

-- Not detected.

DATA QUALIFIERS

Contractor: DataCHEM

Case 9614 SAS 3871E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

1. HOLDING TIME.
Both contractual and technical holding times were met for all sample fractions. No qualification required.

2. GC/MS TUNING & GC INSTRUMENT PERFORMANCE.
No outliers of tuning criteria for volatiles / semivolatiles were noted or were problems with GC instrument performance for the pesticide/PCB analyses.

3. CALIBRATION.
Volatile / semivolatile calibration outliers are noted on the following sheets. No pesticide / PCB outliers were observed.

4. METHOD BLANKS.
Method blanks were surprisingly free of laboratory contaminants. No additional qualification required.

5. SURROGATE RECOVERIES.
Volatile and pesticide / PCB surrogate recoveries were all found to be acceptable. Semivolatile fraction EX180 surrogates were "diluted out" due to large amounts of phenols in the sample. All positive results are flagged J (estimated) while all negative results are R (unusable) for this sample fraction.

6. MATRIX SPIKE/MSD.
Matrix spike/MSD [illegible] matrix semivolatiles (EX167) and

Reviewed by: [illegible]

DATA QUALIFIERS

Contractor: DATACHEM

Case 9614 SAS 3871E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

pesticides/PCBs (EX 169) were acceptable for recovery and RPD. No qualification required.

7. FIELD DUPLICATES.
Sample pairs EX 169 + 172 were identified by field samplers as field duplicates. Results (both positive and non-detects) were in agreement (low %RPD) between both samples' fractions

8. INTERNAL STANDARDS PERFORMANCE.
No problems were observed with internal standards areas for volatiles/semivolatiles. All internal standards were well within the -50 to +100% criteria. No qualification required

9. COMPOUND IDENTIFICATION.
All positive hits met all qualitative criteria for identification including mass/abundance and/or retention time.

10. COMPOUND QUANTITATION/REPORTED DETECTION LIMITS.
All samples' fractions were properly quantitated with exception of volatile sample fraction EX178. Sample should have been diluted since total xylenes results was outside linear range of the calibration. The xylenes result is therefore flagged as J (ESTIMATED).

Reviewed by: [illegible] USEPA Rgn 3

Phone: [illegible]

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 96.4 SAS[illegible]E CONTRACTOR Data Chem

| Instrument # MS-E | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-16-88 | | | 5-18-88 [illegible] | | | 5-19-88 10:12 | | | 5-20-88 10:57 | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Chloromethane | | | | | | | | | | | | | | | |
| Bromomethane | | | | | | | | | | | | | | | |
| Vinyl Chloride | | | | | | | | | | | | | | | |
| Chloroethane | | | | | | | | | | | | | | | |
| Methylene Chloride | | | | | | | | | | | | | | | |
| Acetone | .60 | | | .41 | 32 | J | .39 | 35 | J | .41 | 32 | J | | | |
| Carbon Disulfide | 2.0 | | | 2.6 | 35 | J | | | | 2.5 | 26 | J | | | |
| 1,1-Dichloroethane | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | | | | | | | | | | | | | | | |
| Trans-1,2-Dichloroethene | | | | | | | | | | | | | | | |
| Chloroform | | | | | | | | | | | | | | | |
| 2-Butanone | .033 | 23 | J/R | .027 | | J/R | .024 | | J/R | .023 | | J/R | | | |
| 1,2-Dichloroethane | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | | | | | | | | | | | | | | | |
| Vinyl Acetate | .044 | | J/R | .042 | | J/R | .039 | | J/R | .017 | | J/R | | | |
| Bromodichloromethane | | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | | | | | | | | | | | | | | | |
| Trans-1,3-Dichloropropene | | | | | | | | | | | | | | | |
| Trichloroethene | | | | | | | | | | | | | | | |
| Dibromochloromethane | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | | | | | | | | | |
| Benzene | | | | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | | | | | | | | | |
| 2-Chloroethylvinylether | | | | | | | | | | | | | | | |
| Bromoform | .46 | | | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | .51 | | | | | | | | | .32 | 29 | J | | | |
| 2-Hexanone | | | | | | | | | | .35 | 30 | J | | | |
| Tetrachloroethene | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | | | | | | | | | |
| Toluene | | | | | | | | | | | | | | | |
| Chlorobenzene | | | | | | | | | | | | | | | |
| Ethylbenzene | | | | | | | | | | | | | | | |
| Styrene | | | | | | | | | | | | | | | |
| m-Xylene | | | | | | | | | | | | | | | |
| o/p-Xylene | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | |
|---|---|---|
| VBLK01 | VBLK02 | VBLK03 |
| EX167 | EX178 | EX127 |
| 168 | EX169 | 166 |
| 171 | | 170 |
| 173 | | 172 |
| 174 | | 180 |
| 175 | | 166MS |
| 176 | | 166MSD |
| 177 | | |
| 179 | | |

Reviewer's Initials/Date: KBB 6-16-88

* These flags should be applied to the analytes on the sample data sheets.

J = Estimated if positive

J/R = Estimated (J) if positive, [illegible] (R) if negative

E.3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 9614 SAS 339 E CONTRACTOR [illegible]

| Instrument # MS-C | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-23-88 | | | 5-23-88 | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | | | | | | | | | | | | | | | |
| bis(-2-Chloroethyl)Ether | | | | | | | | | | | | | | | |
| 2-Chlorophenol | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | | | | | | | | | |
| Benzyl Alcohol | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | | | |
| bis(2-chloroisopropyl)Ether | | | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitroso-Di-n-Propylamine | | | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | | |
| Benzoic Acid | .157 | | | .247 | 57 | J | | | | | | | | | |
| bis(2-Chloroethoxy)Methane | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | | | | | | | | | |
| Naphthalene | | | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | | | | | | | | | | | | | | | |
| 4-Chloro-3-Methylphenol | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | | |
| 2-Nitroaniline | | | | | | | | | | | | | | | |
| Dimethyl Phthalate | | | | | | | | | | | | | | | |
| Acenaphthylene | | | | | | | | | | | | | | | |
| 3-Nitroaniline | | | | | | | | | | | | | | | |
| Acenaphthene | | | | | | | | | | | | | | | |
| 2,4-Dinitrophenol | | | | | | | | | | | | | | | |
| 4-Nitrophenol | | | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | | |
|---|---|---|---|
| SBLK | | | |
| Ex127 | | | |
| 166 | | | |
| 166MS | | | |
| 166MSD | | | |
| 167 | | | |
| 168 | | | |
| 171 | | | |
| 172 | | | |

Reviewer Initials/Date: KBB 6-20-88

* These flags should be applied to the analytes on the sample data sheets.

J= estimated if positive

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 9614 SAS 38915 CONTRACTOR Datalien

| Instrument # MS-C | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-23-88 | | | | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | | |
| Diethylphthalate | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | | | | | | | | | | | | | | | |
| Fluorene | | | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitrosodiphenylamine | | | | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | | | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | | | |
| Pentachlorophenol | | | | | | | | | | | | | | | |
| Phenanthrene | | | | | | | | | | | | | | | |
| Anthracene | | | | | | | | | | | | | | | |
| Di-n-Butylphthalate | | | | | | | | | | | | | | | |
| Fluoranthene | | | | | | | | | | | | | | | |
| Pyrene | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | | | | | | | | | | | | | | | |
| Benzo(a)Anthracene | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)Phthalate | | | | | | | | | | | | | | | |
| Chrysene | | | | | | | | | | | | | | | |
| Di-n-Octyl Phthalate | | | | | | | | | | | | | | | |
| Benzo(b)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(k)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(a)Pyrene | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)Pyrene | | | | | | | | | | | | | | | |
| Dibenz(a,h)Anthracene | | | | | | | | | | | | | | | |
| Benzo(g,h,i) Perylene | | | | | | | | | | | | | | | |

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: KBB 6-20-88

8/87

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 9614,SAS 387-E CONTRACTOR Data Chem

| Instrument # MS-C | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-24-88 | | | 5-2[illegible]-88 | | | 5-25-88 | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | | | | | | | | | | | | | | | |
| bis(-2-Chloroethyl)Ether | | | | | | | | | | | | | | | |
| 2-Chlorophenol | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | | | | | | | | | |
| Benzyl Alcohol | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | | | |
| bis(2-chloroisopropyl)Ether | | | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitroso-Di-n-Propylamine | | | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | | |
| Benzoic Acid | | | | | | | | | | | | | | | |
| bis(2-Chloroethoxy)Methane | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | | | | | | | | | |
| Naphthalene | | | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | | | | | | | | | | | | | | | |
| 4-Chloro-3-Methylphenol | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | | |
| 2-Nitroaniline | | | | | | | | | | | | | | | |
| Dimethyl Phthalate | | | | | | | | | | | | | | | |
| Acenaphthylene | | | | | | | | | | | | | | | |
| 3-Nitroaniline | | | | | | | | | | | | | | | |
| Acenaphthene | | | | | | | | | | | | | | | |
| 2,4-Dinitrophenol | | | | | | | | | | | | | | | |
| 4-Nitrophenol | | | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | | | |
|---|---|---|---|---|
| | EX169 | EX178 | | |
| | 173 | 179 | | |
| | 174 | 180D | | |
| | 176 | | | |
| | 175 | | | |
| | 177 | | | |

Reviewer Initials/Date: KBB 6-20-88

* These flags should be applied to the analytes on the sample data sheets.

8/8

J= estimated if positive

[illegible]

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 4014 SAS 38716 CONTRACTOR DataChem

| Instrument # MS-C | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-24-88 | | | 5-24-88 | | | 5-25-88 | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | | |
| Diethylphthalate | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | | | | | | | | | | | | | | | |
| Fluorene | | | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitrosodiphenylamine | | | | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | | | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | | | |
| Pentachlorophenol | | | | | | | | | | | | | | | |
| Phenanthrene | | | | | | | | | | | | | | | |
| Anthracene | | | | | | | | | | | | | | | |
| Di-n-Butylphthalate | | | | | | | | | | | | | | | |
| Fluoranthene | | | | | | | | | | | | | | | |
| Pyrene | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | | | | | | | | | | | | | | | |
| Benzo(a)Anthracene | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)Phthalate | | | | | | | | | | | | | | | |
| Chrysene | | | | | | | | | | | | | | | |
| Di-n-Octyl Phthalate | | | | | | | | | | | | | | | |
| Benzo(b)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(k)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(a)Pyrene | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)Pyrene | | | | | | | | | | | | | | | |
| Dibenz(a,h)Anthracene | | | | | | | | | | | | | | | |
| Benzo(g,h,i) Perylene | | | | | | | | | | | | | | | |

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: KBB 6-20-88

CASE NARRATIVE

US EPA CENTRAL REGIONAL LAB

CASE NO. 9614 SAS No. 3871-E
SDG NO. EX167
SAMPLE NO.(s) for SDG: EX127, EX166, EX166MS, EX166MSD, EX167, EX168, EX169, EX169MS, EX169MSD, EX170, EX171, EX172, EX173, EX174, EX175, EX176, EX177, EX178, EX179, AND EX180.

EPA-CLP CONTRACT NO. 68-01-7466 bid lot #1
DATACHEM, INC.

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, and verified by the following signature.

Richard Thode date 6-1-88

I. 1. CASE 9614 DataChem Inc. received a total of twenty three water samples and two soil samples for case 9614. The SDG designation for the sixteen water samples indicated above is SDG No. EX167. This report includes only the data for SDG NO. EX167. All remaining data for this case will be submitted at another time. DataChem expects to be paid for all analyses listed above.

I. 3. Matrix Spike and Matrix Spike Duplicate Analyses Matrix spike and matrix spike duplicate analyses for VOA and BNA fractions were performed on sample EX166. The matrix spike and matrix spike duplicate for the pesticide fraction was performed on sample EX169.

I. 4. BNA analysis Sample EX180 contained a large amount of phenol and had to be analyzed at a dilution. The surrogate standards for this sample were not measurable at the diluted concentration.

I. 5. Pesticide Analysis For the pesticide analysis injections indicated with ZZZZ are not required for the deliverables. Quantitation of DBC for sample EX180 was accomplished using the second column analysis. The time of injection for two standards was exactly 00:00. Finnigan Formaster software would not accept a time of 00:00, consequently the time of 00:01 was entered and will appear on the forms, however, the time of 00:00 will appear on the raw data.

I. 6. Pesticide Abbreviations used by Computer. The abbreviations used by the computer for the pesticide analysis are summarized below:

Ald= Aldrin
Endr= Endrin
Toxaph= Toxaphene
Hepox= Heptachlor Epoxide
Endo1= Endosulfan I
Endo2= Endosulfan II
EndAld= Endrin Aldehyde
G-Chl= Gamma Chlordane
A-Chl= Alpha Chlordane
En.Su.= Endosulfan Sulfate
En.Ke.= Endrin Ketone
DBC= Dibutylchlorendate
Methx= Methoxychlor
Hept=Heptachlor
Lind=Lindane
Dield=Dieldrin
Al-BHC=Alpha BHC
Be-BHC=Beta BHC
de-BHC=delta BHC

Case Narrative Authorized by: Richard Wade date 6-1-88

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX166

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH49EX166

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX166

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1323

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP10EX166

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX166

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1323

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP10EX166

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX172

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1287

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP17EX172

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 3 | J |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2 | J |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 21 | |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 25 | |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 3 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX172

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1287

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP17EX172

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 0.7 | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 0.9 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 2 | J |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX172

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1187

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX173

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1288

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH07EX173

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX173

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1288

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS4EX173

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX173

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1288

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS4EX173

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX173

Lab Name: [illegible] Contract: 68-01-7466

Lab Code: [illegible] Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX174

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1289

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH08EX174

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX174

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1289

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS5EX174

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX174

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1289

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS5EX174

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

II

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX174

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3371E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1189

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX175

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1290

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH09EX175

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 3 | J |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX175

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1290

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS7EX175

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX175

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1290

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS7EX175

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX175

Lab Name: [illegible]CHEM INC. Contract: [illegible]

Lab Code: [illegible] Case No.: 961[illegible] SAS No.: [illegible] SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1390

Sample wt vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



COPY 1 BEST

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX176

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1291

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH10EX176

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX176

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1291

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS5EX176

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX176

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1291

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS5EX176

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EM176

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EM167

Matrix: (soil/water) WATER Lab Sample ID: CLP1291

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX177

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1292

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH11EX177

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX177

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1292

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS8EX177

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

IC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX177

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1292

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS8EX177

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl) Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX177

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1292

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX178

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1293

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH20EX178

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 3.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 30 | U |
| 74-83-9 | Bromomethane | 30 | U |
| 75-01-4 | Vinyl Chloride | 30 | U |
| 75-00-3 | Chloroethane | 30 | U |
| 75-09-2 | Methylene Chloride | 15 | U |
| 67-64-1 | Acetone | 30 | U |
| 75-15-0 | Carbon Disulfide | 15 | U |
| 75-35-4 | 1,1-Dichloroethene | 15 | U |
| 75-35-3 | 1,1-Dichloroethane | 15 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | U |
| 67-66-3 | Chloroform | 15 | U |
| 107-06-2 | 1,2-Dichloroethane | 15 | U |
| 78-93-3 | 2-Butanone | 30 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | U |
| 56-23-5 | Carbon Tetrachloride | 15 | U |
| 108-05-4 | Vinyl Acetate | 30 | U |
| 75-27-4 | Bromodichloromethane | 15 | U |
| 78-87-5 | 1,2-Dichloropropane | 15 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | U |
| 79-01-6 | Trichloroethene | 15 | U |
| 124-48-1 | Dibromochloromethane | 15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | U |
| 71-43-2 | Benzene | 440 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 15 | U |
| 75-25-2 | Bromoform | 15 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 30 | U |
| 591-78-6 | 2-Hexanone | 30 | U |
| 127-18-4 | Tetrachloroethene | 15 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | U |
| 108-88-3 | Toluene | 15 | U |
| 108-90-7 | Chlorobenzene | 15 | U |
| 100-41-4 | Ethylbenzene | 350 | |
| 100-42-5 | Styrene | 15 | U |
| ---------- | Total Xylenes | 870 | EX J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX178

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1293

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT3EX178

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 44 | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 4 | J |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 27 | |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX178

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1293

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT3EX178

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: 1000 (g/ml) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1294

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH12EX179

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 13 | |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 1 | J |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1294

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT4EX179

Level: (low/med) LOW Date Received: 05/18/66

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 13 | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1294

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT4EX179

Level: (low/med) LOW Date Received: 05/18/66

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7446

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1284

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX180

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1329

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH53EX180

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 150

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 3000 | |
| 74-83-9 | Bromomethane | 1500 | U |
| 75-01-4 | Vinyl Chloride | 1500 | U |
| 75-00-3 | Chloroethane | 1500 | U |
| 75-09-2 | Methylene Chloride | 150 | J |
| 67-64-1 | Acetone | 5300 | |
| 75-15-0 | Carbon Disulfide | 750 | U |
| 75-35-4 | 1,1-Dichloroethene | 750 | U |
| 75-35-3 | 1,1-Dichloroethane | 2700 | |
| 540-59-0 | 1,2-Dichloroethene (total) | 4300 | |
| 67-66-3 | Chloroform | 750 | U |
| 107-06-2 | 1,2-Dichloroethane | 750 | U |
| 78-93-3 | 2-Butanone | 8700 | |
| 71-55-6 | 1,1,1-Trichloroethane | 750 | U |
| 56-23-5 | Carbon Tetrachloride | 750 | U |
| 108-05-4 | Vinyl Acetate | 1500 | U |
| 75-27-4 | Bromodichloromethane | 750 | U |
| 78-87-5 | 1,2-Dichloropropane | 750 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 750 | U |
| 79-01-6 | Trichloroethene | 300 | J |
| 124-48-1 | Dibromochloromethane | 750 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 750 | U |
| 71-43-2 | Benzene | 710 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 750 | U |
| 75-25-2 | Bromoform | 750 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 25000 | |
| 591-78-6 | 2-Hexanone | 1500 | U |
| 127-18-4 | Tetrachloroethene | 750 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 750 | U |
| 108-88-3 | Toluene | 17000 | |
| 108-90-7 | Chlorobenzene | 750 | U |
| 100-41-4 | Ethylbenzene | 6100 | |
| 100-42-5 | Styrene | 750 | U |
| | Total Xylenes | 29000 | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX180D

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1329D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT11EX180D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 80.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 14000 | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 800 | U |
| 95-57-8 | 2-Chlorophenol | 800 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 800 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 800 | U |
| 100-51-6 | Benzyl Alcohol | 800 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 800 | U |
| 95-48-7 | 2-Methylphenol | 270 | J |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 800 | U |
| 106-44-5 | 4-Methylphenol | 1100 | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 800 | U |
| 67-72-1 | Hexachloroethane | 800 | U |
| 98-95-3 | Nitrobenzene | 800 | U |
| 78-59-1 | Isophorone | 800 | U |
| 88-75-5 | 2-Nitrophenol | 800 | U |
| 105-67-9 | 2,4-Dimethylphenol | 800 | U |
| 65-85-0 | Benzoic Acid | 4000 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 800 | U |
| 120-83-2 | 2,4-Dichlorophenol | 800 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 800 | U |
| 91-20-3 | Naphthalene | 50 | J |
| 106-47-8 | 4-Chloroaniline | 800 | U |
| 87-68-3 | Hexachlorobutadiene | 800 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 800 | U |
| 91-57-6 | 2-Methylnaphthalene | 800 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 800 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 800 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 4000 | U |
| 91-58-7 | 2-Chloronaphthalene | 800 | U |
| 88-74-4 | 2-Nitroaniline | 4000 | U |
| 131-11-3 | Dimethyl Phthalate | 800 | U |
| 208-96-8 | Acenaphthylene | 800 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 800 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX180D

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1329D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT11EX180D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 80.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 4000 | U |
| 83-32-9 | Acenaphthene | 800 | U |
| 51-28-5 | 2,4-Dinitrophenol | 4000 | U |
| 100-02-7 | 4-Nitrophenol | 4000 | U |
| 132-64-9 | Dibenzofuran | 800 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 800 | U |
| 84-66-2 | Diethylphthalate | 800 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 800 | U |
| 86-73-7 | Fluorene | 800 | U |
| 100-10-6 | 4-Nitroaniline | 4000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 4000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 800 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 800 | U |
| 118-74-1 | Hexachlorobenzene | 800 | U |
| 87-86-5 | Pentachlorophenol | 4000 | U |
| 85-01-8 | Phenanthrene | 800 | U |
| 120-12-7 | Anthracene | 800 | U |
| 84-74-2 | Di-n-Butylphthalate | 800 | U |
| 206-44-0 | Fluoranthene | 800 | U |
| 129-00-0 | Pyrene | 800 | U |
| 85-68-7 | Butylbenzylphthalate | 800 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1600 | U |
| 56-55-3 | Benzo(a)Anthracene | 800 | U |
| 218-01-9 | Chrysene | 800 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 800 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 800 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 800 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 800 | U |
| 50-32-8 | Benzo(a)Pyrene | 800 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 800 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 800 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 800 | U |

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX180

Lab Name: DATACHEM INC. Contract: 68-01-7468

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1339

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX127

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH48EX127

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 4 | J |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX127

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1322

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP9EX127

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX127

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1322

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP9EX127

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX137

Lab Name: DATACHEM INC. Contract: 68-01-7456

Lab Code: DATAC Case No.: 9614 SAS No.: 2371E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1322

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 05/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

II

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

EX166

ab Name: DATACHEM INC. Contract: 68-01-7466

ab Code: DATAC Case No.: 9614 SAS No.: 3971E SDG No.: EX167

atrix: (soil water) WATER Lab Sample ID: CLP1323

ample wt/vol: 1000 (g/mL) ML Lab File ID:

evel: (low/med) LOW Date Received: 05/13/88

Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

xtraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

PC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX167

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1283

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH04EX167

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX167

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1324

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP13EX167

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX167

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1324

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP13EX167

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX167

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1334

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



FORM I PEST

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX168

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1284

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH05EX168

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX168

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1325

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP14EX168

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX168

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1325

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP14EX168

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 0.6 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX168

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1335

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX169

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1285

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH23EX169

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 5.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 50 | U |
| 74-83-9 | Bromomethane | 50 | U |
| 75-01-4 | Vinyl Chloride | 90 | |
| 75-00-3 | Chloroethane | 50 | U |
| 75-09-2 | Methylene Chloride | 25 | U |
| 67-64-1 | Acetone | 50 | U |
| 75-15-0 | Carbon Disulfide | 25 | U |
| 75-35-4 | 1,1-Dichloroethene | 25 | U |
| 75-35-3 | 1,1-Dichloroethane | 25 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 130 | |
| 67-66-3 | Chloroform | 25 | U |
| 107-06-2 | 1,2-Dichloroethane | 25 | U |
| 78-93-3 | 2-Butanone | 50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 25 | U |
| 56-23-5 | Carbon Tetrachloride | 25 | U |
| 108-05-4 | Vinyl Acetate | 50 | U |
| 75-27-4 | Bromodichloromethane | 25 | U |
| 78-87-5 | 1,2-Dichloropropane | 25 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | U |
| 79-01-6 | Trichloroethene | 25 | U |
| 124-48-1 | Dibromochloromethane | 25 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 25 | U |
| 71-43-2 | Benzene | 86 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 25 | U |
| 75-25-2 | Bromoform | 25 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 50 | U |
| 591-78-6 | 2-Hexanone | 50 | U |
| 127-18-4 | Tetrachloroethene | 25 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | U |
| 108-88-3 | Toluene | 25 | U |
| 108-90-7 | Chlorobenzene | 25 | U |
| 100-41-4 | Ethylbenzene | 830 | |
| 100-42-5 | Styrene | 25 | U |
| | Total Xylenes | 440 | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX169

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1285

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS3EX169

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 4 | J |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 14 | |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 27 | |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 7 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX169

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1285

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS3EX169

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 1 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 12 | |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

ID

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX169

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 2871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1285

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX170

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH50EX170

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 1 | J |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

KBB 6-16-88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX171

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1286

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH06EX171

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX171

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1327

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP16EX171

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX171

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1327

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP16EX171

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX171

Lab Name: DATACHEM INC. Contract: 68-01-7455

Lab Code: DATAC Case No.: 9614 SAS No.: 2871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1317

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX172

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1287

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH51EX172

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 5.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 50 | U |
| 74-83-9 | Bromomethane | 50 | U |
| 75-01-4 | Vinyl Chloride | 82 | |
| 75-00-3 | Chloroethane | 50 | U |
| 75-09-2 | Methylene Chloride | 25 | U |
| 67-64-1 | Acetone | 50 | U |
| 75-15-0 | Carbon Disulfide | 25 | U |
| 75-35-4 | 1,1-Dichloroethene | 25 | U |
| 75-35-3 | 1,1-Dichloroethane | 25 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 120 | |
| 67-66-3 | Chloroform | 25 | U |
| 107-06-2 | 1,2-Dichloroethane | 25 | U |
| 78-93-3 | 2-Butanone | 50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 25 | U |
| 56-23-5 | Carbon Tetrachloride | 25 | U |
| 108-05-4 | Vinyl Acetate | 50 | U |
| 75-27-4 | Bromodichloromethane | 25 | U |
| 78-87-5 | 1,2-Dichloropropane | 25 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | U |
| 79-01-6 | Trichloroethene | 25 | U |
| 124-48-1 | Dibromochloromethane | 25 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 25 | U |
| 71-43-2 | Benzene | 89 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 25 | U |
| 75-25-2 | Bromoform | 25 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 50 | U |
| 591-78-6 | 2-Hexanone | 50 | U |
| 127-18-4 | Tetrachloroethene | 25 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | U |
| 108-88-3 | Toluene | 25 | U |
| 108-90-7 | Chlorobenzene | 25 | U |
| 100-41-4 | Ethylbenzene | 950 | |
| 100-42-5 | Styrene | 25 | U |
| ---------- | Total Xylenes | 520 | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX166

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH49EX166

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX166

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1323

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP10EX166

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | POLYCYCLOHYDROCARBON | 30.76 | 13 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX167

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1283

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH04EX167

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX167

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1324

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP13EX167

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 60-32-2 | AMINO HEXANOIC ACID | 15.67 | 1200 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX168

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1284

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH05EX168

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX168

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1325

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP14EX168

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 60-32-2 | AMINO HEXANOIC ACID | 15.62 | 830 | J |
| 2. UNKNOWN | CYCLOHYDROCARBON | 16.07 | 8.4 | J |
| 3. UNKNOWN | HYDROCARBON | 29.79 | 17 | J |
| 4. UNKNOWN | CYCLOHYDROCARBON | 30.32 | 11 | J |
| 5. UNKNOWN | CYCLOHYDROCARBON | 30.74 | 19 | J |
| 6. UNKNOWN | CYCLOHYDROCARBON | 31.59 | 12 | J |
| 7. UNKNOWN | POLYCYCLOHYDROCARBON | 31.67 | 25 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX169

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1285

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH23EX169

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 5.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 109-99-9 | TETRAHYDRO-FURAN | 9.10 | 65 | J |
| 2. 60-29-7 | ETHYL ETHER | 10.20 | 150 | J |
| 3. 4359-46-0 | 2ETHYL-4METHYL-1,3DIOXOLANE | 19.50 | 42 | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX169

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1285

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS3EX169

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | TRIMETHYL CYCLOHEXANONE | 11.90 | 1600 | J |
| 2. UNKNOWN | TRIMETHYL CYCLOHEXANOL | 12.07 | 190 | J |
| 3. 2426-08-6 | BUTOXYMETHYL OXIRANE | 12.90 | 450 | J |
| 4. UNKNOWN | ETHYL PHENOL | 13.52 | 52 | J |
| 5. UNKNOWN | CYCLOHYDROCARBON | 14.10 | 58 | J |
| 6. UNKNOWN | POLYCYCLOHYDROCARBON | 15.20 | 150 | J |
| 7. UNKNOWN | UNSATURATED HYDROCARBON | 15.29 | 69 | J |
| 8. UNKNOWN | OXYGEN CONTAINING COMPOUND | 15.60 | 150 | J |
| 9. UNKNOWN | CYCLOHYDROCARBON | 16.05 | 82 | J |
| 10. UNKNOWN | CARBOXYLIC ACID | 16.30 | 80 | J |
| 11. UNKNOWN | OXYGEN CONTAINING COMPOUND | 16.85 | 250 | J |
| 12. UNKNOWN | CARBOXYLIC ACID | 17.19 | 92 | J |
| 13. UNKNOWN | POLYCYCLIC HYDROCARBON | 17.57 | 18 | J |
| 14. UNKNOWN | SUBST. BENZOIC ACID | 17.90 | 94 | J |
| 15. UNKNOWN | SUBST. PROPANEDIOC ACID | 18.87 | 100 | J |
| 16. UNKNOWN | CARBOXYLIC ACID | 19.52 | 35 | J |
| 17. UNKNOWN | POLYCYCLOHYDROCARBON | 28.61 | 47 | J |
| 18: UNKNOWN | UNSATURATED HYDROCARBON | 29.76 | 220 | J |
| 19. UNKNOWN | AROMATIC HYDROCARBON | 30.29 | 46 | J |
| 20. UNKNOWN | POLYCYCLO-UNSATURATED HYDROC | 31.66 | 240 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX170

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH50EX170

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX171

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1286

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH06EX171

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 60-29-7 | ETHYL ETHER | 10.00 | 12 | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX171

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1327

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP16EX171

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 2426-08-6 | BUTOXYMETHYL OXIRANE | 13.20 | 52 | J |
| 2. 60-32-2 | AMINO HEXANOIC ACID | 15.65 | 1500 | J |
| 3. UNKNOWN | CYCLOHYDROCARBON | 30.72 | 10 | J |
| 4. UNKNOWN | PNA | 31.64 | 8.7 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX172

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1287

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH51EX172

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 5.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 109-99-9 | TETRAHYDRO-FURAN | 8.95 | 70 | J |
| 2. 60-29-7 | ETHYL ETHER | 10.10 | 150 | J |
| 3. 4359-46-0 | 2ETHYL-4METHYL-1,3DIOXOLANE | 19.55 | 50 | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX172

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1287

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP17EX172

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | TRIMETHYL CYCLOHEXANONE | 11.85 | 1300 | J |
| 2. UNKNOWN | TRIMETHYL CYCLOHEXANOL | 12.04 | 190 | J |
| 3. 2426-08-6 | BUTOXYMETHYL OXIRANE | 12.87 | 430 | J |
| 4. UNKNOWN | SUBST. HEXANOIC ACID | 13.59 | 60 | J |
| 5. UNKNOWN | HYDROCARBON | 15.20 | 100 | J |
| 6. UNKNOWN | OXYHYDROCARBON | 15.59 | 170 | J |
| 7. 60-32-2 | AMINO HEXANOIC ACID | 15.70 | 140 | J |
| 8. UNKNOWN | HYDROCARBON | 16.05 | 77 | J |
| 9. UNKNOWN | CARBOXYLIC ACID | 16.29 | 69 | J |
| 10. UNKNOWN | SUBST. BENZOIC ACID | 16.79 | 170 | J |
| 11. UNKNOWN | CYCLOHYDROCARBON | 16.92 | 37 | J |
| 12. 55724-73-7 | 4-BUTOXY BUTANOIC ACID | 17.19 | 69 | J |
| 13. UNKNOWN | SUBST. BENZOIC ACID | 17.72 | 30 | J |
| 14. UNKNOWN | TRIMETHYL BENZOIC ACID | 17.90 | 140 | J |
| 15. UNKNOWN | CARBOXYLIC ACID | 18.87 | 90 | J |
| 16. UNKNOWN | CARBOXYLIC ACID | 19.50 | 31 | J |
| 17. UNKNOWN | CYCLOHYDROCARBON | 29.76 | 190 | J |
| 18. UNKNOWN | HYDROCARBON | 31.14 | 30 | J |
| 19. UNKNOWN | POLYCYCLOHYDROCARBON | 31.66 | 260 | J |
| 20. UNKNOWN | POLYCYCLOHYDROCARBON | 32.22 | 58 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX173

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1288

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH07EX173

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX173

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1288

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS4EX173

Level: (low/med) LOW Date Received: 05/18/88

Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | UNSATURATED HYDROCARBON | 11.54 | 18 | J |
| 2. UNKNOWN | TRIMETHYL CYCLOHEXANONE | 11.85 | 13 | J |
| 3. UNKNOWN | PNA | 31.66 | 42 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX174

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1289

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH08EX174

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX174

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1289

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS5EX174

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 60-32-2 | AMINO HEXANOIC ACID | 15.49 | 230 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX175

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1290

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH09EX175

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX175

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1290

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS7EX175

Level: (low/med) LOW Date Received: 05/18/88

Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | BICYCLOHYDROCARBON | 13.84 | 9.0 | J |
| 2. 60-32-2 | AMINO HEXANOIC ACID | 15.44 | 9.0 | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX176

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1291

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS5EX176

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 60-32-2 | AMINO HEXANOIC ACID | 15.49 | 120 | J |
| 2. UNKNOWN | PNA | 31.62 | 19 | J |
| 3. UNKNOWN | CYCLOHYDROCARBON | 39.14 | 34 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX177

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1292

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH11EX177

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX177

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1292

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WS8EX177

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 60-32-2 | AMINO HEXANOIC ACID | 15.44 | 24 | J |
| 2. UNKNOWN | PNA | 31.61 | 8.2 | J |
| 3. UNKNOWN | CARBOXYLIC ACID | 38.97 | 45 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX178

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1293

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH20EX178

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 3.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 109-99-9 | TETRAHYDRO-FURAN | 9.10 | 110 | J |
| 2. 96-47-9 | TETRAHYDRO-2-METHYL-FURAN | 13.10 | 16 | J |
| 3. 4359-46-0 | 2ETHYL-4METHYL-1,3DIOXOLANE | 19.50 | 48 | J |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX178

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1293

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT3EX178

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | TRIMETHYL CYCLOHEXANONE | 11.92 | 1600 | J |
| 2. UNKNOWN | TRIMETHYL CYCLOHEXANOL | 12.10 | 450 | J |
| 3. 2426-08-6 | BUTOXYMETHYL OXIRANE | 12.85 | 240 | J |
| 4. UNKNOWN | SUBSTITUTED ALCOHOL | 13.30 | 51 | J |
| 5. UNKNOWN | CYCLO-OXYHYDROCARBON | 13.54 | 53 | J |
| 6. UNKNOWN | CYCLOHYDROCARBON | 13.80 | 33 | J |
| 7. UNKNOWN | DIMETHYL PHENOL | 14.00 | 51 | J |
| 8. UNKNOWN | CARBOXYLIC ACID | 14.37 | 32 | J |
| 9. UNKNOWN | CYCLOHYDROCARBON | 15.22 | 520 | J |
| 10. UNKNOWN | CARBOXYLIC ACID | 15.59 | 100 | J |
| 11. UNKNOWN | CYCLO-ALCOHOL | 15.82 | 69 | J |
| 12. UNKNOWN | BICYCLOHYDROCARBON | 16.52 | 33 | J |
| 13. UNKNOWN | DIMETHYL BENZOIC ACID | 16.82 | 97 | J |
| 14. UNKNOWN | CYCLOHYDROCARBON | 16.90 | 96 | J |
| 15. UNKNOWN | CARBOXYLIC ACID | 17.17 | 56 | J |
| 16. UNKNOWN | TRIMETHYL BENZOIC ACID | 17.89 | 49 | J |
| 17. UNKNOWN | TRIMETHYL BENZOIC ACID | 18.17 | 45 | J |
| 18. UNKNOWN | POLYCYCLIC HYDROCARBON | 18.69 | 91 | J |
| 19. UNKNOWN | DIMETHYL-ETHYL BENZOIC ACID | 18.89 | 93 | J |
| 20. UNKNOWN | UNSATURATED HYDROCARBON | 29.76 | 110 | J |
| 21. UNKNOWN | PNA | 31.66 | 80 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1294

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH12EX179

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX179

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1294

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT4EX179

Level: (low/med) LOW Date Received: 05/18/66

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX180

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1329

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH53EX180

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 150

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX180D

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1329D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WT11EX180D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/25/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 80.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | TRIMETHYL CYCLOHEXANOL | 12.02 | 960 | J |
| 2. 149-57-5 | 2-METHYL HEXANOIC ACID | 13.07 | 620 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX127

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH48EX127

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX127

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLP1322

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP9EX127

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

JUN 2 1998

SUPERFUND 5194

# CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
## ORGANICS/INORGANICS
### THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 96141387IE SITE NAME U.S. Scrap LABORATORY [illegible] DATE SHIPPED [illegible]

SUPERFUND DU NUMBER 4905 EPA RPM or OSC (S.M.S.)/(CES) _____ CERCLIS NUMBER [illegible] PAGE 1 OF

ACTIVITY NUMBER C72103

| CRL LOG NUMBER | ORGANIC TRAFFIC REPORT NUMBER | INORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No. | WATER OR LIQUIDS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564 | WATER POLYCHLORINATED BIPHENYLS UG L PES 17144 | WATER CHLORINATED PESTICIDES UG L PES17134 | TOTAL METALS IN WATER UG L MET111 | WATER CYANIDE UG L MIN74919 | NITRATE NITRITE MG/L MIN7284 | AMMONIA MG/L MIN7294 | RESIDUE FILTERABLE TDS MG L MIN7362 | RESIDUE NON-FILT TSS MG L MIN7372 | SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG KG TOX215722 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG KG TOX215622 | SEDIMENTS POLYCHLORINATED BIPHENYLS MG KG PES211422 | SEDIMENT CHLORINATED PESTICIDES MG KG 211322 | TOTAL METALS MG KG MET413 | CYANIDE MG KG MIN44930 | [illegible] METALS MG KG | AMMONIA MG KG MIN42825 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88FC22S09 | EX166 | MEX723 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S10 | EX167 | MEX724 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S11 | EX168 | MEX725 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S12 | EX169 | MEX325 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22D12 | EX172 | MEX328 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S13 | EX170 | — | | ✓ | | | | | • | • | • | | | | | | | | | |
| 88FC22S14 | EX171 | MEX327 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S15 | EX173 | MEX329 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S16 | EX174 | MEX330 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S17 | EX175 | MEX331 | ✓ | ✓ | ✓ | ✓ | | ✓ | • | • | • | | | | | | | | | |
| 88FC22S18 | EX176 | MEX332 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S19 | EX177 | MEX333 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S20 | EX178 | MEX334 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22R03 | EX179 | MEX335 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S21 | EX180 | MEX336 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | |
| 88FC22S22 | EX181 | MEX337 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | • | | | | | | | | | |
| 88FC22S23 | EX182 | MEX338 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | • | | | | | | | | | |
| 88FC22S24 | EX183 | MEX339 | ✓ | ✓ | ✓ | ✓ | | | | | • | | | | | | | | | |
| 88FC22D24 | EX185 | MEX682 | ✓ | ✓ | ✓ | ✓ | | | | | • | | | | | | | | | |
| 88FC22S25 | EX184 | MEX340 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | • | | | | | | | | | |

JUN 5 1988

# CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
## ORGANICS/INORGANICS

SUPERFUND 5194

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 96141 3871E SITE NAME U.S. Scrap LABORATORY Wisconsin/Versar DATE SHIPPED

SUPERFUND DCN NUMBER 49005 EPA RPM or OSC (S.M.S.)/(CES) CERCLIS NUMBER LLD 980679181 PAGE

ACTIVITY NUMBER 02 2025

| CRL LOG NUMBER | ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No. | INORGANIC TRAFFIC REPORT NUMBER | WATER OR LIQUIDS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN UG/L TOX17574 | VOLATILE ORGANIC SCAN UG/L TOX17564 | WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144 | WATER CHLORINATED PESTICIDES UG/L PES17134 | TOTAL METALS IN WATER MET111 | CYANIDE MIN74919 | NITRITE MIN7284 | MIN7294 | FILTERABLE MG/L MIN7362 TDS | RESIDUE, NON-FLT MIN7372 MG/L TSS | | | SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722 | VOLATILE ORGANIC SCAN MG/KG TOX215622 | SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422 | SEDIMENT CHLORINATED PESTICIDES MG/KG 211322 | TOTAL METALS MET413 MG/KG | CYANIDE MIN44930 MG/KG | EP TOXICITY METALS MG/KG | AMMONIA MIN2355 MG/KG | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88FC22R04 | EX127 | MEX683 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | • | • | • | | | | | | | | | | | | | |
| 88FC22526 | EX128 | MEX684 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| 88FC22R05 | EX028 | MEX360 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| 88FC22527 | EX129 | MEX232 | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 88FC22528 | EX130 | MEX685 | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | | | | | | | | | data | cor | TR | | | | | | | | | | | | | |

Case: 9614 SAS 3E71E

Contractor: DataChem

TENTATIVELY IDENTIFIED COMPOUNDS
MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Reviewer's Initials/Date: KBB 6-20-88

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

| | EPA SAMPLE NO. | S1 (TOL) # | S2 (BFB) # | S3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | EX127 | 99 | 98 | 93 | | 0 |
| 02 | EX166 | 100 | 96 | 89 | | 0 |
| 03 | EX167 | 100 | 102 | 95 | | 0 |
| 04 | EX168 | 100 | 98 | 89 | | 0 |
| 05 | EX169 | 89 | 89 | 96 | | 0 |
| 06 | EX170 | 100 | 96 | 88 | | 0 |
| 07 | EX171 | 100 | 101 | 93 | | 0 |
| 08 | EX172 | 101 | 98 | 85 | | 0 |
| 09 | EX173 | 100 | 98 | 90 | | 0 |
| 10 | EX174 | 100 | 99 | 90 | | 0 |
| 11 | EX175 | 99 | 98 | 89 | | 0 |
| 12 | EX176 | 101 | 97 | 90 | | 0 |
| 13 | EX177 | 99 | 97 | 89 | | 0 |
| 14 | EX178 | 100 | 100 | 89 | | 0 |
| 15 | EX179 | 99 | 98 | 91 | | 0 |
| 16 | EX180 | 99 | 101 | 93 | | 0 |
| 17 | EX166MS | 102 | 103 | 92 | | 0 |
| 18 | EX166MSD | 99 | 101 | 88 | | 0 |
| 19 | VBLK01 | 101 | 98 | 98 | | 0 |
| 20 | VBLK02 | 99 | 101 | 93 | | 0 |
| 21 | VBLK03 | 99 | 100 | 98 | | 0 |

| | | QC LIMITS |
|---|---|---|
| S1 (TOL) | = Toluene-d8 | ( 88-110) |
| S2 (BFB) | = Bromofluorobenzene | ( 86-115) |
| S3 (DCE) | = 1,2-Dichloroethane-d4 | ( 76-114) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

| | EPA SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | EX127 | 81 | 88 | 73 | 28 | 63 | 66 | | 0 |
| 02 | EX166 | 76 | 90 | 67 | 28 | 59 | 81 | | 0 |
| 03 | EX166MS | 99 | 116 | 94 | 32 | 63 | 97 | | 0 |
| 04 | EX166MSD | 98 | 115 | 76 | 31 | 62 | 86 | | 0 |
| 05 | EX167 | 76 | 87 | 78 | 44 | 70 | 80 | | 0 |
| 06 | EX168 | 78 | 91 | 82 | 33 | 62 | 77 | | 0 |
| 07 | EX169 | 96 | 110 | 103 | 31 | 69 | 89 | | 0 |
| 08 | EX171 | 90 | 107 | 92 | 45 | 71 | 80 | | 0 |
| 09 | EX172 | 98 | 114 | 94 | 45 | 75 | 83 | | 0 |
| 10 | EX173 | 115 * | 100 | 54 | 37 | 75 | 57 | | 1 |
| 11 | EX174 | 104 | 99 | 77 | 31 | 61 | 45 | | 0 |
| 12 | EX175 | 103 | 102 | 69 | 28 | 53 | 50 | | 0 |
| 13 | EX176 | 102 | 103 | 79 | 37 | 68 | 54 | | 0 |
| 14 | EX177 | 96 | 90 | 69 | 34 | 59 | 58 | | 0 |
| 15 | EX178 | 91 | 99 | 96 | 48 | 65 | 107 | | 0 |
| 16 | EX179 | 100 | 94 | 74 | 41 | 83 | 73 | | 0 |
| 17 | EX180D | D | D | D | D | D | D | | 0 |
| 18 | SBLK | 80 | 86 | 69 | 28 | 72 | 54 | | 0 |

| | | QC LIMITS |
|---|---|---|
| S1 (NBZ) | = Nitrobenzene-d5 | ( 35-114) |
| S2 (FBP) | = 2-Fluorobiphenyl | ( 43-116) |
| S3 (TPH) | = Terphenyl | ( 33-141) |
| S4 (PHL) | = Phenol-d5 | ( 10-94 ) |
| S5 (2FP) | = 2-Fluorophenol | ( 21-100) |
| S6 (TBP) | = 2,4,6-Tribromophenol | ( 10-123) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

1E

# WATER PESTICIDE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3371E SDG No.: EX167

| | EPA SAMPLE NO. | S1 (DBC) | # | OTHER |
|---|---|---|---|---|
| 01 | EX127 | 98 | | 0 |
| 02 | EX166 | 63 | | 0 |
| 03 | EX167 | 117 | | 0 |
| 04 | EX168 | 93 | | 0 |
| 05 | EX169 | 124 | | 0 |
| 06 | EX169MS | 143 | | 0 |
| 07 | EX169MSD | 142 | | 0 |
| 08 | EX171 | 88 | | 0 |
| 09 | EX172 | 122 | | 0 |
| 10 | EX173 | 83 | | 0 |
| 11 | EX174 | 92 | | 0 |
| 12 | EX175 | 109 | | 0 |
| 13 | EX176 | 29 | | 0 |
| 14 | EX177 | 84 | | 0 |
| 15 | EX178 | 81 | | 0 |
| 16 | EX179 | 81 | | 0 |
| 17 | EX180 | 105 | | 0 |
| 18 | PBLK | 101 | | 0 |
| 19 | ZZZZZ | 0 | D | 0 |
| 20 | ZZZZZ | 0 | D | 0 |
| 21 | ZZZZZ | 0 | D | 0 |
| 22 | ZZZZZ | 0 | D | 0 |
| 23 | ZZZZZ | 0 | D | 0 |
| 24 | ZZZZZ | 0 | D | 0 |
| 25 | ZZZZZ | 0 | D | 0 |
| 26 | ZZZZZ | 0 | D | 0 |
| 27 | ZZZZZ | 0 | D | 0 |
| 28 | ZZZZZ | 0 | D | 0 |
| 29 | ZZZZZ | 0 | D | 0 |
| 30 | ZZZZZ | 0 | D | 0 |

ADVISORY QC LIMITS

S1 (DBC) = Dibutlychlorendate ( 24-154)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix Spike - EPA Sample No.: EX166

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 0 | 51.4 | 103 | 61-145 |
| Trichloroethene | 50.0 | 0 | 50.9 | 102 | 71-120 |
| Benzene | 50.0 | 0 | 53.6 | 107 | 76-127 |
| Toluene | 50.0 | 0 | 52.9 | 106 | 76-125 |
| Chlorobenzene | 50.0 | 0 | 52.6 | 105 | 75-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 48.3 | 97 | 6 | 14 | 61-145 |
| Trichloroethene | 50.0 | 50.8 | 102 | 0 | 14 | 71-120 |
| Benzene | 50.0 | 52.8 | 106 | 1 | 11 | 76-127 |
| Toluene | 50.0 | 52.3 | 105 | 1 | 13 | 76-125 |
| Chlorobenzene | 50.0 | 53.0 | 106 | -1 | 13 | 75-130 |

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

MS-E CASE: 9614 SAS: 3871E SDG: EX167

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix Spike - EPA Sample No.: EX166

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| Phenol | 200 | 0 | 65.4 | 33 | 12- 86 |
| 2-Chlorophenol | 200 | 0 | 117 | 59 | 27-123 |
| 1,4-Dichlorobenzene | 100 | 0 | 74.2 | 74 | 36 97 |
| N-Nitroso-di-n-prop.(1) | 100 | 0 | 63.6 | 64 | 41 116 |
| 1,2,4-Trichlorobenzene | 100 | 0 | 84.2 | 84 | 39 98 |
| 4-Chloro-3-methylphenol | 200 | 0 | 139 | 70 | 23 97 |
| Acenaphthene | 100 | 0 | 82.4 | 82 | 46-118 |
| 4-Nitrophenol | 200 | 0 | 62.8 | 31 | 10- 80 |
| 2,4-Dinitrotoluene | 100 | 0 | 94.0 | 94 | 24- 96 |
| Pentachlorophenol | 200 | 0 | 129 | 65 | 9-103 |
| Pyrene | 100 | 0 | 99.8 | 100 | 26-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Phenol | 200 | 60.0 | 30 | 10 | 42 | 12- 86 |
| 2-Chlorophenol | 200 | 113 | 57 | 3 | 40 | 27-123 |
| 1,4-Dichlorobenzene | 100 | 72.6 | 73 | 1 | 28 | 36 97 |
| N-Nitroso-di-n-prop.(1) | 100 | 61.2 | 61 | 5 | 38 | 41 116 |
| 1,2,4-Trichlorobenzene | 100 | 81.6 | 82 | 2 | 28 | 39 98 |
| 4-Chloro-3-methylphenol | 200 | 133 | 67 | 4 | 42 | 23 97 |
| Acenaphthene | 100 | 78.4 | 78 | 5 | 31 | 46-118 |
| 4-Nitrophenol | 200 | 45.8 | 23 | 30 | 50 | 10- 80 |
| 2,4-Dinitrotoluene | 100 | 90.0 | 90 | 4 | 38 | 24- 96 |
| Pentachlorophenol | 200 | 112 | 56 | 15 | 50 | 9-103 |
| Pyrene | 100 | 80.8 | 81 | 21 | 31 | 26-127 |

(1) N-Nitroso-di-n-propylamine

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

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: EX166
INSTRUMENT: MS-C CASE: 9614 SDG: EX167

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7461

Lab Code: DATAC Case No.: 9614 SAS No.: 38715 SDG No.: EM167

Matrix Spike - EPA Sample No.: EM162

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.200 | 0 | 0.189 | 95 | 56-123 |
| Heptachlor | 0.200 | 0 | 0.211 | 106 | 40-131 |
| Aldrin | 0.200 | 0 | 0.176 | 88 | 40-120 |
| Dieldrin | 0.500 | 0 | 0.480 | 96 | 52-126 |
| Endrin | 0.500 | 0 | 0.467 | 93 | 56-121 |
| 4,4'-DDT | 0.500 | 0 | 0.468 | 94 | 38-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.200 | 0.190 | 95 | -1 | 15 | 56-123 |
| Heptachlor | 0.200 | 0.204 | 102 | 3 | 20 | 40-131 |
| Aldrin | 0.200 | 0.166 | 83 | 6 | 22 | 40-120 |
| Dieldrin | 0.500 | 0.467 | 93 | 3 | 18 | 52-126 |
| Endrin | 0.500 | 0.498 | 100 | -6 | 21 | 56-121 |
| 4,4'-DDT | 0.500 | 0.442 | 88 | 6 | 27 | 38-127 |

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Lab File ID: DH03BLANK Lab Sample ID: MB-1

Date Analyzed: 05/18/88 Time Analyzed: 2348

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX167 | CLP1283 | DH04EX167 | 0024 |
| 02 | EX168 | CLP1284 | DH05EX168 | 0059 |
| 03 | EX171 | CLP1286 | DH06EX171 | 0133 |
| 04 | EX173 | CLP1288 | DH07EX173 | 0208 |
| 05 | EX174 | CLP1289 | DH08EX174 | 0242 |
| 06 | EX175 | CLP1290 | DH09EX175 | 0317 |
| 07 | EX176 | CLP1291 | DH10EX176 | 0352 |
| 08 | EX177 | CLP1292 | DH11EX177 | 0426 |
| 09 | EX179 | CLP1294 | DH12EX179 | 0501 |

COMMENTS: VBLK01
MS-E CASE: 9614 SAS: 3871E SDG: EX167

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Lab File ID: DH17BLANK Lab Sample ID: MB-2

Date Analyzed: 05/19/88 Time Analyzed: 1215

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX169 | CLP1285 | DH23EX169 | 1719 |
| 02 | EX178 | CLP1293 | DH20EX178 | 1437 |

COMMENTS: VBLK02
MS-E CASE: 9614 SAS: 3871E SDG: EX167

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Lab File ID: DH47BLANK Lab Sample ID: MB-3

Date Analyzed: 05/20/88 Time Analyzed: 1201

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX127 | CLP1322 | DH48EX127 | 1242 |
| 02 | EX166 | CLP1323 | DH49EX166 | 1318 |
| 03 | EX170 | CLP1326 | DH50EX170 | 1353 |
| 04 | EX172 | CLP1287 | DH51EX172 | 1428 |
| 05 | EX180 | CLP1329 | DH53EX180 | 1555 |
| 06 | EX166MS | CLP1323MS | DH56EX166MS | 1756 |
| 07 | EX166MSD | CLP1323MSD | DH57EX166MD | 1831 |

COMMENTS:

MS-E CASE: 9614 SAS: 3871E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: MB-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH03BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/18/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: MB-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH03BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/18/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: MB-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH17BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: MB-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH17BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/19/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: MB-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH47BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: MB-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH47BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Lab File ID: WP8BK0523 Lab Sample ID: CLPBK0523

Date Extracted: 05/23/88 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 05/24/88 Time Analyzed: 0030

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-C

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EX127 | CLP1322 | WP9EX127 | 05/24/88 |
| 02 | EX166 | CLP1323 | WP10EX166 | 05/24/88 |
| 03 | EX167 | CLP1324 | WP13EX167 | 05/24/88 |
| 04 | EX168 | CLP1325 | WP14EX168 | 05/24/88 |
| 05 | EX169 | CLP1285 | WS3EX169 | 05/24/88 |
| 06 | EX171 | CLP1327 | WP16EX171 | 05/24/88 |
| 07 | EX172 | CLP1287 | WP17EX172 | 05/24/88 |
| 08 | EX173 | CLP1288 | WS4EX173 | 05/24/88 |
| 09 | EX174 | CLP1289 | WS5EX174 | 05/24/88 |
| 10 | EX175 | CLP1290 | WS7EX175 | 05/24/88 |
| 11 | EX176 | CLP1291 | WS5EX176 | 05/24/88 |
| 12 | EX177 | CLP1292 | WS8EX177 | 05/25/88 |
| 13 | EX178 | CLP1293 | WT3EX178 | 05/25/88 |
| 14 | EX179 | CLP1294 | WT4EX179 | 05/25/88 |
| 15 | EX180D | CLP1329D | WT11EX180D | 05/25/88 |
| 16 | EX166MS | CLP1323MS | WP11EX6MS | 05/24/88 |
| 17 | EX166MSD | CLP1323MSD | WP12EX6MSD | 05/24/88 |

COMMENTS: SBLK (CLPBK0523)
INSTRUMENT: MS-C CASE: 9614 SDG: EX167

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0523

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP8BK0523

Level: (low/med) LOW Date Received: 05/18/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

Table [illegible] Cont.

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≥ 1 | ≥ 2 BLANK | ≥ 3 | ≥ 4 BLANK | ≥ 5 | ≥ 6 | ≥ 7 | ≥ 8 | 9 | 10 | ≥ 11 | ≥ 12 |
| Volatile Organics, Cont. | EX 178 | 179 | 180 | 127 | | | | | | | | |
| ethylbenzene | 350 | | 6100 | | | | | | | | | |
| styrene | | | | | | | | | | | | |
| xylenes (total) | 870 J | | 29000 | | | | | | | | | |
| | | | | | | | | | | | | |
| Semivolatile Organics | | | | | | | | | | | | |
| phenol | 44 J | 13 J | 14000 J | | | | | | | | | |
| bis(2-chloroethyl)ether | | | | | | | | | | | | |
| 2-chlorophenol | | | | | | | | | | | | |
| 1,3-dichlorobenzene | | | | | | | | | | | | |
| 1,4-dichlorobenzene | | | | | | | | | | | | |
| benzylalcohol | | | | | | | | | | | | |
| 1,2-dichlorobenzene | | | | | | | | | | | | |
| 2-methylphenol | | | 270 J | | | | | | | | | |
| bis(2-chloroisopropyl)ether | | | | | | | | | | | | |
| 4-methylphenol | 4 J | | 1100 J | | | | | | | | | |
| n-nitroso-di-n-dipropylamine | | | | | | | | | | | | |
| hexachloroethane | | | | | | | | | | | | |
| nitrobenzene | | | | | | | | | | | | |
| isophorone | | | | | | | | | | | | |
| 2-nitrophenol | | | | | | | | | | | | |
| 2,4-dimethylphenol | 27 J | | | | | | | | | | | |
| benzoic acid | | | | | | | | | | | | |
| bis(2-chloroethoxy)methane | | | | | | | | | | | | |
| 2,4-dichlorophenol | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | | | | | | | | | | | | |
| naphthalene | | | 50 J | | | | | | | | | |
| 4-chloroaniline | | | | | | | | | | | | |
| hexachlorobutadiene | | | | | | | | | | | | |
| 4-chloro-3-methylphenol | | | | | | | | | | | | |
| 2-methylnaphthalene | | | | | | | | | | | | |
| hexachlorocyclopentadiene | | | | | | | | | | | | |
| 2,4,6-trichlorophenol | | | | | | | | | | | | |
| 2,4,5-trichlorophenol | | | | | | | | | | | | |
| 2-chloronaphthalene | | | | | | | | | | | | |
| 2-nitroaniline | | | | | | | | | | | | |
| dimethylphthalate | | | | | | | | | | | | |
| acenaphthylene | | | | | | | | | | | | |
| 2,6-dinitrotoluene | | | | | | | | | | | | |
| 3-nitroaniline | | | | | | | | | | | | |
| acenaphthene | | | | | | | | | | | | |
| 2,4-dinitrophenol | | | | | | | | | | | | |
| 4-nitrophenol | | | | | | | | | | | | |
| dibenzofuran | | | | | | | | | | | | |
| 2,4-dinitrotoluene | | | | | | | | | | | | |
| diethylphthalate | | | | | | | | | | | | |
| 4-chlorophenyl-phenylether | | | | | | | | | | | | |
| fluorene | | | | | | | | | | | | |

| COMPOUND FOOTNOTES | DEFINITION | INTERPRETATION |
|---|---|---|
| U | Indicates compound was analyzed for but not detected. | Compound was not detected. |
| J | Indicates an estimated value. | Compound value may be semi-quantitative. |
| UJ | Quantitation limit is estimated due to a Quality Control (QC) protocol. | Compound was not detected. |
| C | This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract shall be confirmed by GC/MS. | Compound was confirmed by mass spectroscopy |
| B | This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. | Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone). |
| E | This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. | Compound value may be semi-quantitative. |
| D | This flag identifies all compounds identified in an analysis at a secondary dilution factor. | Alerts data user to a possible change in the CRQL. |
| A | This flag indicates that a TIC is a suspected aldol-condensation product. | Alerts data user of a lab artifact. |
| R | Results are unusable due to a major violation of QC protocol. | Compound value is not usable. |

| ANALYTE FOOTNOTES | | DEFINITION | INTERPRETATION |
|---|---|---|---|
| OLD | NEW | | |
| E | E | Estimated or not reported due to inteference. See laboratory narrative. | Compound or element was not detected or value may be semi-quantitative. |
| S | S | Analysis by Method of Standard Additions. | Value may be quantitative. |
| R | N | Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative. | Value may be quantitative or semi-quantitative. |
| * | * | Duplicate value outside QC protocols which indicates a possible matrix problem. | Value may be semi-quantitative. |
| + | + | Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative. | Data value may be biased. |
| [ ] | B | Value is real, but is above instrument DL and below CRDL. | Value may be quantitative or semi-quantitative. |
| UJ | | DL is estimated because of a QC protocol. DL is possibly above or below CRDL. | Compound or element was not detected. |
| J | | Value is above CRDL and is an estimated value because of a QC Protocol. | Value may be semi-quantitative. |
| U | U | Compound was analyzed for but not detected. | Compound was not detected. |
| | M | Duplicate injection precision not met. | Value may be semi-quantitative. |
| | W | Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance. | Value may be semi-quantitative. |
| | NA | Value not available due to insufficient data. | |
| | NR | Value not recommended to be calculated, since chemical has proven to be a human carcinogen. | |
| | ( ) | Estimated value. | |

Source: Ecology and Environment, Inc. 1988.

Table 4-_
RESULTS OF CHEMICAL ANALYSIS OF
EIT-COLLECTED _____ SAMPLES

USEPA CASE # 9614/3871

| Sample Collection Information and Parameters | Sample Number _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _10 | _11 | _12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | | | | | | | | | | | | |
| Time | | | | | | | | | | | | |
| Organic Traffic Report Number | EX166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 |
| Inorganic Traffic Report Number | | | | | | | | | | | | |
| Temperature | | | | | | | | | | | | |
| Specific Conductivity | | | | | | | | | | | | |
| pH | | | | | | | | | | | | |
| Compound Detected (values in ug/ [ppb]) | | | | | | | | | | | | |
| Volatile Organics | | | | | | | | | | | | |
| chloromethane | | | | | | 11 | | | | | | |
| bromomethane | | | | | | | | | | | | |
| vinyl chloride | | | | 90 | | | 82 | | | | | |
| chloroethane | | | | | | | | | | | | |
| methylene chloride | | | | | | | | | | | | |
| acetone | | | | | | | | | | 3 J | | |
| carbon disulfide | | | | | | | | | | | | |
| 1,1-dichloroethene | | | | | | | | | | | | |
| 1,1-dichloroethane | | | | | | | | | | | | |
| 1,2-dichloroethene (total) | | | | 130 | | | 120 | | | | | |
| chloroform | | | | | 1 J | | | | | | | |
| 1,2-dichloroethane | | | | | | | | | | | | |
| 2-butanone (MEK) | | | | | | | | | | | | |
| 1,1,1-trichloroethane | | | | | | | | | | | | |
| carbon tetrachloride | | | | | | | | | | | | |
| vinyl acetate | | | | | | | | | | | | |
| bromodichloromethane | | | | | | | | | | | | |
| 1,2-dichloropropane | | | | | | | | | | | | |
| cis-1,3-dichloropropene | | | | | | | | | | | | |
| trichloroethene | | | | | | | | | | | | |
| dibromochloromethane | | | | | | | | | | | | |
| 1,1,2-trichloroethane | | | | | | | | | | | | |
| benzene | | | | 86 | | | 89 | | | | | |
| trans-1,3-dichloropropene | | | | | | | | | | | | |
| bromoform | | | | | | | | | | | | |
| 4-methyl-2-pentanone | | | | | | | | | | | | |
| 2-hexanone | | | | | | | | | | | | |
| tetrachloroethene | | | | | | | | | | | | |
| toluene | | | | | | | | | | | | |
| 1,1,2,2-tetrachloroethane | | | | | | | | | | | | |
| chlorobenzene | | | | | | | | | | | | |

Table 4- Cont.

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≥ 1 | ≥ 2 BLANK | ≥ 3 | ≥ 4 BLANK | ≥ 5 | ≥ 6 | ≥ 7 | ≥ 8 | ≥ 9 | ≥ 10 | ≥ 11 | ≥ 12 |
| Pesticides/PCBs Cont. | EX 178 | 179 | 180 | 127 | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | | | |
| Analyte Detected (values in ug/ [ppm]) | | | | | | | | | | | | |
| aluzinum | | | | | | | | | | | | |
| antimony | | | | | | | | | | | | |
| arsenic | | | | | | | | | | | | |
| barium | | | | | | | | | | | | |
| beryllium | | | | | | | | | | | | |
| cadmium | | | | | | | | | | | | |
| calcium | | | | | | | | | | | | |
| chromium | | | | | | | | | | | | |
| cobalt | | | | | | | | | | | | |
| copper | | | | | | | | | | | | |
| iron | | | | | | | | | | | | |
| lead | | | | | | | | | | | | |
| magnesium | | | | | | | | | | | | |
| manganese | | | | | | | | | | | | |
| mercury | | | | | | | | | | | | |
| nickel | | | | | | | | | | | | |
| potassium | | | | | | | | | | | | |
| selenium | | | | | | | | | | | | |
| silver | | | | | | | | | | | | |
| sodium | | | | | | | | | | | | |
| thallium | | | | | | | | | | | | |
| vanadium | | | | | | | | | | | | |
| zinc | | | | | | | | | | | | |
| cyanide | | | | | | | | | | | | |

-- Not detected.

Table 4-_
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED _____ SAMPLES

| Sample Collection Information and Parameters | Sample Number _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _10 | _11 | _12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | | BLANK | | BLANK | | | | | | | | |
| Time | | | | | | | | | | | | |
| Organic Traffic Report Number | EX 178 | 179 | 180 | 127 | | | | | | | | |
| Inorganic Traffic Report Number | | | | | | | | | | | | |
| Temperature | | | | | | | | | | | | |
| Specific Conductivity | | | | | | | | | | | | |
| pH | | | | | | | | | | | | |
| Compound Detected (values in ug/ [ppb]) | | | | | | | | | | | | |
| Volatile Organics | | | | | | | | | | | | |
| chloromethane | | | 3000 | | | | | | | | | |
| bromomethane | | | | | | | | | | | | |
| vinyl chloride | | | | | | | | | | | | |
| chloroethane | | | | | | | | | | | | |
| methylene chloride | | | 150 J | | | | | | | | | |
| acetone | | 13 J | 5300 J | | | | | | | | | |
| carbon disulfide | | | | | | | | | | | | |
| 1,1-dichloroethene | | | | | | | | | | | | |
| 1,1-dichloroethane | | | 2700 | | | | | | | | | |
| 1,2-dichloroethene (total) | | | 4300 | | | | | | | | | |
| chloroform | | | | | | | | | | | | |
| 1,2-dichloroethane | | | | | | | | | | | | |
| 2-butanone (MEK) | | | 8700 J | | | | | | | | | |
| 1,1,1-trichloroethane | | | | | | | | | | | | |
| carbon tetrachloride | | | | | | | | | | | | |
| vinyl acetate | | | | | | | | | | | | |
| bromodichloromethane | | | | | | | | | | | | |
| 1,2-dichloropropane | | | | | | | | | | | | |
| cis-1,3-dichloropropene | | | | | | | | | | | | |
| trichloroethene | | | 300 J | | | | | | | | | |
| dibromochloromethane | | | | | | | | | | | | |
| 1,1,2-trichloroethane | | | | | | | | | | | | |
| benzene | 440 | | 710 J | | | | | | | | | |
| trans-1,3-dichloropropene | | | | | | | | | | | | |
| bromoform | | | | | | | | | | | | |
| 4-methyl-2-pentanone | | | 25000 J | 4 J | | | | | | | | |
| 2-hexanone | | | | | | | | | | | | |
| tetrachloroethene | | | | | | | | | | | | |
| toluene | | 1 J | 17000 | | | | | | | | | |
| 1,1,2,2-tetrachloroethane | | | | | | | | | | | | |
| chlorobenzene | | | | | | | | | | | | |

Table 4- Cont. U. S. Scrap CASE # 9614/3871

| Sample Collection Information and Parameters | Sample Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≥ 1 07 | ≥ 2 06 | ≥ 3 04 Dup | ≥ 4 07 | ≥ 5 [illegible] | ≥ 6 [illegible] | ≥ 7 11 | ≥ 8 12 | ≥ 9 | ≥ 10 | ≥ 11 [illegible] | ≥ 12 [illegible] |
| Pesticides/PCBs Cont. | | | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | | | |
| Analyte Detected µg/l (ppb) (values in µg/ [ppm]) | HEX 325 | 327 | 328 | 329 | 330 | 332 | 333 | 334 | BLANK 335 | BLANK 683 | 723 | 724 |
| aluminum | [17] | | | 437 | [22] | 574 | | [94] | [35] | [53] | | |
| antimony | [36] | | | | [27] | | 1100 | | | | | [26] |
| arsenic | | | | | | | | | | | | |
| barium | [43] | [34] | [38] | [5.7] | [38] | [7.9] | [36] | [122] | | [22] | [9.1] | [20] |
| beryllium | | | | | | | | | | | | |
| cadmium | | | | | | | | | | | | |
| calcium | 560000 | 484000 | 544000 | 8450 J | 267000 | 8230 J | 200000 | 179000 | [247] | 35200 | 8820 J | 475000 |
| chromium | 21 | 13 | 20 | | | | | | | | | |
| cobalt | 69 | [31] | 55 | | [11] | | | [23] | | | | 52 |
| copper | | [16] | | [11] | | [4] | [49] | [10] | [8.9] | | | [12] |
| iron | 13200 | [82] | 10200 | 453 | | 710 | [96] | 9900 | [28] | | [12] | [22] |
| lead | | | | | | | | | | | | 5.2 |
| magnesium | 202000 | 232000 | 215000 | [4230] J | 143000 | [3950] J | 98100 | 203000 | [81] | 10900 | [3800] J | 658000 |
| manganese | 1320 | 1450 | 1210 | 26 | 835 | 15 | 422 | 593 | [2.6] | [2.7] | [3.6] | 970 |
| mercury | | | | | | | | | | | | .33 |
| nickel | 753 | 558 | 704 | | [28] | | | 123 | | | | 138 |
| potassium | 26000 | 15500 | 25400 | 5680 | 13900 | [432] | 9920 | 29600 | | [2140] | [3350] | 35600 |
| selenium | | | | | | | | | | | | |
| silver | | | | | | | | | | | | |
| sodium | 254000 | 232000 | 247000 | 86400 | 154000 | 79910 | 118000 | 108000 | [295] | 7480 | 92600 | 234000 |
| thallium | | | | | | | | | | | | |
| vanadium | | [3.4] | | [4] | | | [4.8] | | | [3.4] | [3.6] | [3.7] |
| zinc | 121 | 113 | 64 | [15] | 77 | 27 | 95 | 175 | [12] | | | 117 |
| cyanide | | | | | | | | | | | | |

-- Not detected.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0523

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP8BK0523

Level: (low/med) LOW Date Received: 05/18/88

Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0523

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WP8BK0523

Level: (low/med) LOW Date Received: 05/18/88

Moisture: not dec. ____ dec. ____ Date Extracted: 05/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

# PESTICIDE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Lab Sample ID: BLANK Lab File ID: _____

Matrix:(soil/water) WATER Level:(low/med) LOW

Date Extracted: 05/22/88 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed (1): 05/24/88 Date Analyzed (2): 05/29/88

Time Analyzed (1): 1741 Time Analyzed (2): 0315

Instrument ID (1): EC-5 Instrument ID (2): EC-3

GC Column ID (1): MIX GC Column ID (2): OV-101

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EX127 | CLP1322 | 05/25/88 | |
| 02 | EX166 | CLP1323 | 05/24/88 | 05/29/88 |
| 03 | EX167 | CLP1324 | 05/25/88 | |
| 04 | EX168 | CLP1325 | 05/25/88 | |
| 05 | EX169 | CLP1285 | 05/25/88 | 05/29/88 |
| 06 | EX169MS | CLP1285MS | 05/25/88 | 05/29/88 |
| 07 | EX169MSD | CLP1285MSD | 05/25/88 | 05/29/88 |
| 08 | EX171 | CLP1327 | 05/24/88 | |
| 09 | EX172 | CLP1287 | 05/25/88 | |
| 10 | EX173 | CLP1288 | 05/25/88 | |
| 11 | EX174 | CLP1289 | 05/25/88 | |
| 12 | EX175 | CLP1290 | 05/25/88 | |
| 13 | EX176 | CLP1291 | 05/25/88 | |
| 14 | EX177 | CLP1292 | 05/25/88 | 05/29/88 |
| 15 | EX178 | CLP1293 | 05/25/88 | |
| 16 | EX179 | CLP1294 | 05/25/88 | 05/29/88 |
| 17 | EX180 | CLP1329 | 05/25/88 | 05/29/88 |
| 18 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 19 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 20 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 21 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 22 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 23 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 24 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 25 | ZZZZZ | ZZZZZ | 05/24/88 | |
| 26 | ZZZZZ | ZZZZZ | 05/24/88 | |

COMMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) WATER Lab Sample ID: BLANK

Sample wt/vol: 1000 g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

ecology and environment, inc.
111 WEST JACKSON BLVD, CHICAGO, ILLINOIS 60604, TEL 312-663-9415
International Specialists in the Environment

CRL Receipt Date 6/3/88 FIT Receipt Date 6/17/88 Review Completed 6/20/88

TO: J. CARLIAN
FROM: Mary Gzyra
SUBJECT: U.S. SCRAP
PAN: IL0102VA (1 hour charged for review) Case # 9614/3871

Sample Description

| Organics (VOA, ABN, Pest/PCB) | | Inorganics (Metals, Cyanide) | |
|---|---|---|---|
| # | Low Soil | # | Low Soil |
| | Low Water | 13 | Low Water |
| | Drinking Water | | Drinking Water |
| | Other | | Other |

Project Data Status _____ Completed!!

✓ Incomplete, awaiting Receipt of low water inorganics, low soil inorganics, low water & soil organics.

FIT Data Review Findings:
As detected in MEX 725
Hg detected in MEX 724
Ni detected in MEX 325, 327, 328, 330, 334, 724, 725
- other heavy metals detected.

***Check Data Sheets for Transcription Errors***

_____ Compounds were detected in sample(s); see enclosed sheet.

Book No. 8 Page No. 84/86 Date Sampled 5/17 & 5/18

0759:2

recycled paper

6/17/88

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6-14-88

SUBJECT: Review of Region V CLP Data
Received for Review on 6-3-88

FROM: Curtis Ross ,Director (5SCRL)
Central Regional Laboratory Jay Thakker

TO: Data User : FIT

We have reviewed the data for the following case(s).

SITE NAME: U.S.SCRAP SMO case No. 9614SAS3871

EPA Data Set No. SF5194 No.of Samples: 13 D.U/Activity Numbers Y905/C721Z8

CRL No. 88FC22S09-S12,S14-S16,S18-S20,D12,R03,R05

SMO Traffic No. MEX723-725,325,327-330,332-335,683

CLP Laboratory: VERSAR Hrs.required for Review 3

Following are our findings:

This review covers 13 low water samples analyzed for metals and cyanide.

Field blanks (MEX683,MEX335) showed contaminations for Ca(35200ug/l), Mg(10900ug/l) and Na(7480ug/l). Ca and Mg data for samples MEX329,MEX332 and MEX723 are estimated(J).All other Ca,Mg and all Na data are acceptable.

Field duplicates(MEX325&328) gave high RPD for Zn(62%).

Spike recoveries for Se(0%) and Tl(48%) are shown above. All Se data are unusable(R). Detection limit for Tl could be elevated and all Tl data are estimated(UJ).

All other QC audits are acceptable.

Ida Levin
6 14.88.

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary-pending verification by Contract Laboratory.
( ) Data are unacceptable.

cc: Carla Dempsey, Quality Assurance Officer, EPA Support Services
James Petty,Chief Quality Assurance Research,EMSL,Las Vegas

FORM 1

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 325

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49609, 49617

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 17.] | P | 13. | MAGNESIUM | 202000. | P |
| 2. | ANTIMONY | [ 36.] | P | 14. | MANGANESE | 1320. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 43.] | P | 16. | NICKEL | 753. | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 26000. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 560000. | P | 19. | SILVER | 10. U | P |
| 8. | CHROMIUM | 21. | P | 20. | SODIUM | 254000. | P |
| 9. | COBALT | 69. | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 4.0 U | P | 22. | VANADIUM | 3.0 U | P |
| 11. | IRON | 13200. | P | 23. | ZINC | 121. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 10 FOR SE; DF OF 5 FOR CA;

00002

LAB SUPERVISOR Janet Beckman
JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 327

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/19/88

LAB SAMPLE ID. NO. 49683, 49692

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 215

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 10. U | P | 13. | MAGNESIUM | 282000. | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | 1450. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 34.] | P | 16. | NICKEL | 558. | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 15500. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 484000. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 13. | P | 20. | SODIUM | 232000. | P |
| 9. | COBALT | [ 31.] | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 16.] | P | 22. | VANADIUM | [ 3.4] | P |
| 11. | IRON | [ 82.] | P | 23. | ZINC | 113. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

00010

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 328

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49610, 49618

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 10. U | P | 13. | MAGNESIUM | 210000. | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | 1210. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 38.] | P | 16. | NICKEL | 704. | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 25400. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 544000. | P | 19. | SILVER | 10. U | P |
| 8. | CHROMIUM | 20. | P | 20. | SODIUM | 247000. | P |
| 9. | COBALT | 55. | P | 21. | THALLIUM | 50. UN | F |
| 10. | COPPER | 4.0 U | P | 22. | VANADIUM | 3.0 U | P |
| 11. | IRON | 10200. | P | 23. | ZINC | 64. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 10 FOR SE; DF OF 5 FOR TL, CA;



LAB SUPERVISOR Janet Beckman
JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 329

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49611, 49619

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 437. | P | 13. | MAGNESIUM | [ 4230.] | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | 26. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 5.7] | P | 16. | NICKEL | 18. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 5680. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 8450. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 86400. | P |
| 9. | COBALT | 6.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 11.] | P | 22. | VANADIUM | [ 4.0] | P |
| 11. | IRON | 453. | P | 23. | ZINC | [ 15.] | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLOUDY; SD;

00004

LAB SUPERVISOR Janet Beckman
JANET BECKMAN

FORM 1

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 330

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49612, 49693

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 22.] | P | 13. | MAGNESIUM | 143000. | P |
| 2. | ANTIMONY | [ 27.] | P | 14. | MANGANESE | 835. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 38.] | P | 16. | NICKEL | [ 28.] | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 13900. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 267000. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 154000. | P |
| 9. | COBALT | [ 11.] | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 4.0 U | P | 22. | VANADIUM | 3.0 U | P |
| 11. | IRON | 8.0 U | P | 23. | ZINC | 77. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLOUDY; DF OF 10 FOR SE;

THE CYANIDE ALIQUOT WAS RECEIVED ON 5/19/88;

00005

LAB SUPERVISOR PKW for

JANET BECKMAN

FORM 1

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 332

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49613, 49620

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 574. | P | 13. | MAGNESIUM | [ 3950.] | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | 15. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 7.8] | P | 16. | NICKEL | 18. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | [ 4320.] | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 8230. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 79900. | P |
| 9. | COBALT | 6.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 11.] | P | 22. | VANADIUM | 3.0 U | P |
| 11. | IRON | 710. | P | 23. | ZINC | 27. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLOUDY;

00006

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MLX 333

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49614, 49694

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 10. U | P | 13. | MAGNESIUM | 98100. | P |
| 2. | ANTIMONY | 1100. | P | 14. | MANGANESE | 422. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 36.] | P | 16. | NICKEL | 18. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 9920. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 10. UN | F |
| 7. | CALCIUM | 200000. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 118000. | P |
| 9. | COBALT | 6.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 4.9] | P | 22. | VANADIUM | [ 4.8] | P |
| 11. | IRON | [ 96.] | P | 23. | ZINC | 95. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR; DF OF 2 FOR SE;

THE CYANIDE ALIQUOT WAS RECEIVED ON 5/19/88;

00007

LAB SUPERVISOR PKW for

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 334

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49615, 49621

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 94.] | P | 13. | MAGNESIUM | 203000. | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | 593. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 122.] | P | 16. | NICKEL | 123. | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 29600. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 179000. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 108000. | P |
| 9. | COBALT | [ 23.] | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 10.] | P | 22. | VANADIUM | 3.0 U | P |
| 11. | IRON | 9900. | P | 23. | ZINC | 175. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

00008

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 335

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/18/88

LAB SAMPLE ID. NO. 49616, 49622

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 214

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 35.] | P | 13. | MAGNESIUM | [ 81.] | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | [ 2.6] | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | 2.0 U | P | 16. | NICKEL | 18. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 1200. U | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | [ 247.] | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | [ 295.] | P |
| 9. | COBALT | 6.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 8.9] | P | 22. | VANADIUM | 3.0 U | P |
| 11. | IRON | [ 28.] | P | 23. | ZINC | [ 12.] | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;



LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 683

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/19/88

LAB SAMPLE ID. NO. 49684, 49688

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 215

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | [ 53.] | P | 13. | MAGNESIUM | 10900. | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | [ 2.7] | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 22.] | P | 16. | NICKEL | 18. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | [ 2140.] | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 35200. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 7480. | P |
| 9. | COBALT | 6.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 4.0 U | P | 22. | VANADIUM | [ 3.4] | P |
| 11. | IRON | 8.0 U | P | 23. | ZINC | 9.0 U | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

00011

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 723

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/19/88

LAB SAMPLE ID. NO. 49685, 49689

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 215

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 10. U | P | 13. | MAGNESIUM | [ 3800.] | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | [ 3.6] | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 9.1] | P | 16. | NICKEL | 18. U | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | [ 3350.] | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 8820. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 92600. | P |
| 9. | COBALT | 6.0 U | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | 4.0 U | P | 22. | VANADIUM | [ 3.6] | P |
| 11. | IRON | [ 12.] | P | 23. | ZINC | 9.0 U | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

00012

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 724

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/19/88

LAB SAMPLE ID. NO. 49686, 49690

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 215

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 10. U | P | 13. | MAGNESIUM | 658000. | P |
| 2. | ANTIMONY | [ 26.] | P | 14. | MANGANESE | 970. | P |
| 3. | ARSENIC | 10. U | F | 15. | MERCURY | 0.33 | |
| 4. | BARIUM | [ 20.] | P | 16. | NICKEL | 138. | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 35600. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 50. UN | F |
| 7. | CALCIUM | 475000. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | 6.0 U | P | 20. | SODIUM | 234000. | P |
| 9. | COBALT | 52. | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 12.] | P | 22. | VANADIUM | [ 3.7] | P |
| 11. | IRON | [ 22.] | P | 23. | ZINC | 117. | P |
| 12. | LEAD | 5.2 | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - YELLOW; CLARITY - CLEAR; DF OF 10 FOR SE;

00013

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

FORM I

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA. 22313
703/557-2490 FTS: 8-557-2490

SAMPLE NO.
MEX 725

DATE 5/26/88

# INORGANIC ANALYSIS DATA SHEET

LAB NAME VERSAR INC.

CASE NO. 9614/3871E

SOW NO. 785

LAB RECEIPT DATE 5/19/88

LAB SAMPLE ID. NO. 49687, 49691

QC REPORT NO. 214 - 215

PROJECT-TASK 5027.0000

BATCH 215

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM HIGH

MATRIX: WATER X SOIL WIPE

UG/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | ALUMINUM | 10. U | P | 13. | MAGNESIUM | 152000. | P |
| 2. | ANTIMONY | 21. U | P | 14. | MANGANESE | 233. | P |
| 3. | ARSENIC | 14. | F | 15. | MERCURY | 0.2 U | |
| 4. | BARIUM | [ 14.] | P | 16. | NICKEL | 112. | P |
| 5. | BERYLLIUM | 1.0 U | P | 17. | POTASSIUM | 19100. | P |
| 6. | CADMIUM | 4.0 U | P | 18. | SELENIUM | 5.0 UN | F |
| 7. | CALCIUM | 176000. | P | 19. | SILVER | 2.0 U | P |
| 8. | CHROMIUM | [ 7.1] | P | 20. | SODIUM | 459000. | P |
| 9. | COBALT | [ 11.] | P | 21. | THALLIUM | 10. UN | F |
| 10. | COPPER | [ 4.5] | P | 22. | VANADIUM | [ 9.2] | P |
| 11. | IRON | [ 31.] | P | 23. | ZINC | 20. | P |
| 12. | LEAD | 5.0 U | F | | | | |
| | CYANIDE | 10. U | | | | | |

FOOTNOTES: SEE COVER PAGE.

COMMENTS: COLOR - COLORLESS; CLARITY - CLEAR;

00014

LAB SUPERVISOR Janet Beckman

JANET BECKMAN

# QC EXCEPTION SUMMARY REPORT

CASE # 9614
DATA SET # 5194
LAB Q.C. #
DATE: 6.14.88

SITE U.S. Scio-p
LAB Versar
REVIEWED BY Ida Lenn

MATRIX: 13 w
CONC. : 13 L

WATER SAMPLE SPK.
WATER SAMPLE DUP.
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

| | OVERALL CASE QC | | | | | | | | | MATRIX SPECIFIC QC | | | | | | SAMPLE SPECIFIC QC | | FIELD QC | | | REGIONAL QC | | | OTHER/ COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Holding Time | Cal Blanks | Init Calver | Contin Calver | Prep Blk AQ | Prep Blk SOL | ICS %R | LCS % AQ | LCS % SOL | Sol Dup RPD | Sol Spk. %R | AQ Dup RPD | AQ Spk. %R | Ser Dilu AQ | Ser Dilu SOL | GFAA Dup | GFAA Spike | Blank | Dup RPD | Spike %R | Blind Blank | Blind Spike %R | Split Sample RPD | |
| Aluminum | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | | | | | | | | | | | | | | | | | | | | | | | | |
| Beryllium | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | | | | | | | | | | | | | | | | | | | | | | | | |
| Calcium | | | | | | | | | | | | | | | | | | 35200 | | | | | | |
| Chromium | | | | | | | | | | | | | | | | | | | | | | | | |
| Cobalt | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | | | | | | | | | | | | | | | | | | | | | | | | |
| Magnesium | | | | | | | | | | | | | | | | | | 10900 | | | | | | |
| Manganese | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel | | | | | | | | | | | | | | | | | | | | | | | | |
| Potassium | | | | | | | | | | | | | | | | | | | | | | | | |
| Selenium | | | | | | | | | | | | | 0 | | | | | | | | | | | |
| Silver | | | | | | | | | | | | | | | | | | | | | | | | |
| Sodium | | | | | | | | | | | | | | | | | | 7480 | | | | | | |
| Thallium | | | | | | | | | | | | | 48 | | | | | | | | | | | |
| Tin | | | | | | | | | | | | | | | | | | | | | | | | |
| Vanadium | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc | | | | | | | | | | | | | | | | | | | 61 | | | | | |
| Cyanide | | | | | | | | | | | | | | | | | | | | | | | | |

US ENVIRONMENTAL PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 - ALEXANDRIA, VA 22313
703/557-2490 FTS:8-557-2490

DATE: 5/26/88

# COVER PAGE
# INORGANIC ANALYSES DATA PACKAGE

Q.C. REPORT: 214 - 215
LAB NAME: VERSAR, INC.
CASE NO.: 9614/3871E
SOW NO.: 785
PROJECT NO.: 5027.0000

SAMPLE NUMBERS

| EPA NO. | LAB ID NO. | EPA NO. | LAB ID NO. |
|---|---|---|---|
| MEX 325 | 49609, 49617 | MEX 328 | 49610, 49618 |
| MEX 329 | 49611, 49619 | MEX 330 | 49612, 49693 |
| MEX 332 | 49613, 49620 | MEX 333 | 49614, 49694 |
| MEX 334 | 49615, 49621 | MEX 335 | 49616, 49622 |
| MEX 327 | 49683, 49692 | MEX 683 | 49684, 49688 |
| MEX 723 | 49685, 49689 | MEX 724 | 49686, 49690 |
| MEX 725 | 49687, 49691 | | |

COMMENTS: THIS IS A FOURTEEN DAY QUICK TURNAROUND SAS CASE;

ICP INTERELEMENT AND BACKGROUND CORRECTION APPLIED: YES.
CORRECTIONS APPLIED BEFORE GENERATION OF RAW DATA.

RECEIVED
MAY 02 1988
U.S. EPA CENTRAL
REGIONAL LAB

FOOTNOTES:

NR - NOT REQUIRED BY CONTRACT AT THIS TIME
FORM I:

VALUE - IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT BUT LESS THAN THE CONTRACT REQUIRED DETECTION LIMIT, REPORT THE VALUE IN BRACKETS ( I.E., [10] ). INDICATE THE ANALYTICAL METHOD USED WITH P ( FOR ICP/FLAME AA ) OR F ( FOR FURNACE ).
U - INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORT WITH THE DETECTION LIMIT VALUE ( E.G., 10U ).
E - INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE. EXPLANATORY NOTE INCLUDED ON COVER PAGE.
S - INDICATES VALUE DETERMINED BY METHOD OF STANDARD ADDITION
N - INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.
* - INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS.
+ - INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995
DF - DILUTION FACTOR
SD - SAMPLE USED FOR ICP SERIAL DILUTION
M - INDICATES DUPLICATE INJECTION RESULTS EXCEED CONTROL LIMITS

INDICATE METHOD USED: P FOR ICP; A FOR FLAME AA; AND F FOR FURNACE.

FORM III B
BLANKS

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/3871E
UNITS: UG/L

| COMPOUND | MATRIX HOH INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: HOH | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | 10.U | 10.U | 10.U | 10.U | | 10.U | |
| 2. ANTIMONY | 21.U | 21.U | 21.U | 21.U | | 21.U | |
| 3. ARSENIC | 3.0U | 3.0U | 3.0U | 3.0U | 3.0U | 3.0U | |
| 4. BARIUM | 2.0U | 2.0U | 2.0U | 2.0U | | 2.0U | |
| 5. BERYLLIUM | 1.0U | 1.0U | 1.0U | 1.0U | | 1.0U | |
| 6. CADMIUM | 4.0U | 4.0U | 4.0U | 4.0U | | 4.0U | |
| 7. CALCIUM | 9.0U | 9.0U | [ 63.] | 9.0U | | 9.0U | |
| 8. CHROMIUM | 6.0U | 6.0U | 6.0U | 6.0U | | 6.0U | |
| 9. COBALT | 6.0U | 6.0U | 6.0U | 6.0U | | 6.0U | |
| 10. COPPER | 4.0U | 4.0U | 4.0U | 4.0U | | 4.0U | |
| 11. IRON | 8.0U | 8.0U | 8.0U | 8.0U | | 8.0U | |
| 12. LEAD | 1.0U | 1.0U | 1.0U | --- | | 1.0U | |
| 13. MAGNESIUM | 2.0U | [ 3.6] | 2.0U | [ 4.6] | | 2.0U | |
| 14. MANGANESE | 2.0U | 2.0U | 2.0U | 2.0U | | 2.0U | |
| 15. MERCURY | 0.2U | 0.2U | --- | --- | | 0.2U | |
| 16. NICKEL | 18.U | 18.U | 18.U | 18.U | | 18.U | |
| 17. POTASSIUM | 1200.U | 1200.U | 1200.U | 1200.U | | 1200.U | |
| 18. SELENIUM | 3.0U | 3.0U | 3.0U | --- | | 3.0U | |
| 19. SILVER | 2.0U | 2.0U | 2.0U | 2.0U | | 2.0U | |
| 20. SODIUM | 82.U | 82.U | 82.U | 82.U | | 82.U | |
| 21. THALLIUM | --- | 2.0U | ---- | ---- | | 2.0U | |
| 22. VANADIUM | [ 3.4] | 3.0U | 3.0U | 3.0U | | [ 4.2] | |
| 23. ZINC | 9.0U | 9.0U | 9.0U | 9.0U | | 9.0U | |
| 24. CYANIDE | 10.U | 10.U | 10.U | --- | | 10.U | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III A
BLANKS

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/3871E
UNITS: UG/L

MATRIX HOH

| COMPOUND | INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: HOH | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | 10.U | 10.U | 10.U | 10.U | 10.U | [ 15.] | |
| 2. ANTIMONY | 21.U | 21.U | 21.U | 21.U | 21.U | [ 24.] | |
| 3. ARSENIC | 3.0U | 3.0U | 3.0U | 3.0U | --- | 3.0U | |
| 4. BARIUM | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | |
| 5. BERYLLIUM | 1.0U | 1.0U | 1.0U | 1.0U | 1.0U | 1.0U | |
| 6. CADMIUM | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | 4.0U | |
| 7. CALCIUM | 9.0U | 9.0U | [ 69.] | [ 61.] | 9.0U | 9.0U | |
| 8. CHROMIUM | 6.0U | 6.0U | 6.0U | 6.0U | 6.0U | 6.0U | |
| 9. COBALT | 6.0U | 6.0U | 6.0U | 6.0U | 6.0U | 6.0U | |
| 10. COPPER | [ 5.6] | [ 4.7] | [ 9.8] | 4.0U | 4.0U | [ 11.] | |
| 11. IRON | 8.0U | 8.0U | 8.0U | 8.0U | 8.0U | [ 94.] | |
| 12. LEAD | 1.0U | 1.0U | 1.0U | 1.0U | 1.0U | 1.0U | |
| 13. MAGNESIUM | 2.0U | [ 4.7] | [ 7.2] | [ 7.2] | 2.0U | [ 7.6] | |
| 14. MANGANESE | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | |
| 15. MERCURY | 0.2U | 0.2U | --- | --- | --- | 0.2U | |
| 16. NICKEL | 18.U | 18.U | 18.U | 18.U | 18.U | 18.U | |
| 17. POTASSIUM | 1200.U | 1200.U | [ 1510.] | 1200.U | 1200.U | 1200.U | |
| 18. SELENIUM | 3.0U | 3.0U | 3.0U | --- | --- | 3.0U | |
| 19. SILVER | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | |
| 20. SODIUM | [ 97.] | [ 395.] | [ 136.] | 82.U | [ 127.] | [ 93.] | |
| 21. THALLIUM | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | 2.0U | |
| 22. VANADIUM | 3.0U | 3.0U | 3.0U | 3.0U | 3.0U | 3.0U | |
| 23. ZINC | 9.0U | 9.0U | 9.0U | 9.0U | 9.0U | 9.0U | |
| 24. CYANIDE | 10.U | 10.U | --- | --- | --- | 10.U | |

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III C
BLANKS

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/3871E
UNITS: UG/L

MATRIX HOH

| COMPOUND | INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | 3.0U | 3.0U | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | | | | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 3.0U | 3.0U | | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

00025

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III D
BLANKS

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/38/1E
UNITS: UG/L

| COMPOUND | MATRIX HOH INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | 3.0U | 3.0U | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | | | | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 3.0U | 3.0U | | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

00026

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM III E
BLANKS

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/3871E
UNITS: UG/L

| COMPOUND | MATRIX HOH INITIAL CALIB BLANK VALUE | CONTINUING CALIB BLANK VALUE 1 | 2 | 3 | 4 | PREP BLANK (1) MATRIX 1: | MATRIX 2: |
|---|---|---|---|---|---|---|---|
| 1. ALUMINUM | | | | | | | |
| 2. ANTIMONY | | | | | | | |
| 3. ARSENIC | | | | | | | |
| 4. BARIUM | | | | | | | |
| 5. BERYLLIUM | | | | | | | |
| 6. CADMIUM | | | | | | | |
| 7. CALCIUM | | | | | | | |
| 8. CHROMIUM | | | | | | | |
| 9. COBALT | | | | | | | |
| 10. COPPER | | | | | | | |
| 11. IRON | | | | | | | |
| 12. LEAD | | | | | | | |
| 13. MAGNESIUM | | | | | | | |
| 14. MANGANESE | | | | | | | |
| 15. MERCURY | | | | | | | |
| 16. NICKEL | | | | | | | |
| 17. POTASSIUM | | | | | | | |
| 18. SELENIUM | 3.0U | 3.0U | | | | | |
| 19. SILVER | | | | | | | |
| 20. SODIUM | | | | | | | |
| 21. THALLIUM | | | | | | | |
| 22. VANADIUM | | | | | | | |
| 23. ZINC | | | | | | | |
| 24. CYANIDE | | | | | | | |

00027

(1) REPORTING UNITS: AQUEOUS, UG/L; SOLID, MG/KG

FORM V A
SPIKE SAMPLE RECOVERY

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/38/1E
EPA SAMPLE NO.: MEX 329
LAB SAMPLE ID NO.: 49611
UNITS: UG/L

MATRIX: L. HOH

| COMPOUND | CONTROL LIMIT %R | SPIKED SAMPLE RESULT (SSR) | SAMPLE RESULT (SR) | SPIKED ADDED (SA) | %R (1) | |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 75-125 | 2240. | 437. | 2000. | 90. | |
| 2. ANTIMONY | 75-125 | 485. | 21.U | 500. | 97. | |
| 3. ARSENIC (2) | 75-125 | 25. | 10.U | 20. | 125. | |
| 4. BARIUM | 75-125 | 1830. | [ 5.7] | 2000. | 91. | |
| 5. BERYLLIUM | 75-125 | 42. | 1.0U | 50. | 84. | |
| 6. CADMIUM | 75-125 | 43. | 4.0U | 50. | 86. | |
| 7. CALCIUM | 75-125 | NR | ---- | ---- | ---- | |
| 8. CHROMIUM | 75-125 | 186. | 6.0U | 200. | 93. | |
| 9. COBALT | 75-125 | 461. | 6.0U | 500. | 92. | |
| 10. COPPER | 75-125 | 222. | [ 11.] | 250. | 84. | |
| 11. IRON | 75-125 | 1320. | 453. | 1000. | 87. | |
| 12. LEAD (2) | 75-125 | 18. | 5.0U | 20. | 90. | |
| 13. MAGNESIUM | 75-125 | NR | ---- | ---- | ---- | |
| 14. MANGANESE | 75-125 | 204. | 26. | 200. | 89. | |
| 15. MERCURY (2) | 75-125 | 0.78 | 0.2U | 1.0 | 78. | |
| 16. NICKEL | 75-125 | 370. | 18.U | 400. | 92. | |
| 17. POTASSIUM | 75-125 | NR | ---- | ---- | ---- | |
| 18. SELENIUM (2) | 75-125 | 10.U | 50.U | 10. | 0.0 | N |
| 19. SILVER | 75-125 | 43. | 2.0U | 50. | 86. | |
| 20. SODIUM | 75-125 | NR | ---- | ---- | ---- | |
| 21. THALLIUM (2) | 75-125 | 24. | 10.U | 50. | 48. | N |
| 22. VANADIUM | 75-125 | 453. | [ 4.0] | 500. | 90. | |
| 23. ZINC | 75-125 | 208. | [ 15.] | 200. | 96. | |
| 24. CYANIDE (3) | 75-125 | 93.4 | 10.U | 100. | 93. | |

(1) %R = [(SSR-SR)/SA] X 100 "N"- OUT OF CONTROL "NR" - NOT REQUIRED
(2) EPA # MEX 325 - LAB # 49609 (3) EPA # MEX 334 - LAB # 49621

00030

FORM VI A
DUPLICATES

Q.C. REPORT: 214 - 215

LAB NAME: VERSAR, INC.
DATE: 5/26/88

CASE NO.: 9614/3871E
EPA SAMPLE NO.: MEX 329
LAB SAMPLE ID NO.: 49611
UNITS: UG/L

MATRIX: L. HOH

| COMPOUND | CONTROL LIMITS (1) | SAMPLE(S) | DUPLICATE(D) | RPD(2) |
|---|---|---|---|---|
| 1. ALUMINUM | +/- 200. | 437. | 491. | 12. |
| 2. ANTIMONY | | 21.U | 21.U | NC |
| 3. ARSENIC (3) | | 10.U | 3.0U | NC |
| 4. BARIUM | | [ 5.7] | [ 5.3] | NC |
| 5. BERYLLIUM | | 1.0U | 1.0U | NC |
| 6. CADMIUM | | 4.0U | 4.0U | NC |
| 7. CALCIUM | +/- 5000. | 8450. | 8510. | 0.71 |
| 8. CHROMIUM | | 6.0U | 6.0U | NC |
| 9. COBALT | | 6.0U | 6.0U | NC |
| 10. COPPER | | [ 11.] | [ 11.] | NC |
| 11. IRON | +/- 100. | 453. | 462. | 2.0 |
| 12. LEAD (3) | | 5.0U | 5.0U | NC |
| 13. MAGNESIUM | | [ 4230.] | [ 4290.] | NC |
| 14. MANGANESE | +/- 15. | 26. | 24. | 8.0 |
| 15. MERCURY (3) | | 0.2U | 0.2U | NC |
| 16. NICKEL | | 18.U | 18.U | NC |
| 17. POTASSIUM | +/- 5000. | 5680. | 6090. | 7.0 |
| 18. SELENIUM (3) | | 50.U | 50.U | NC |
| 19. SILVER | | 2.0U | 2.0U | NC |
| 20. SODIUM | | 86400. | 87000. | 0.69 |
| 21. THALLIUM (3) | | 10.U | 50.U | NC |
| 22. VANADIUM | | [ 4.0] | 3.0U | NC |
| 23. ZINC | | [ 15.] | [ 17.] | NC |
| 24. CYANIDE (4) | | 10.U | 10.U | NC |

00031

(1) TO BE ADDED AT A LATER DATE (2) RPD = [(S-D)/((S+D)/2)]X100
(3) EPA # MEX 325 - LAB # 49609 (4) EPA # MEX 334 - LAB # 49621
NC - NON CALCULABLE RPD DUE TO VALUE(S) LESS THAN CRDL * - OUT OF CONTROL

FORM VII A Q.C. REPORT: 214 - 215

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/3871E DATE: 5/26/88

LCS NO.:LCSA OR LCSF (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# 9 | IDL (UG/L) Furnace ID# 8 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | 10. | | 1980. | 1960. | 99. |
| 2. ANTIMONY (1) | 60. | 21. | | 1010. | 1020. | 101. |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | 2. | | 1980. | 1920. | 97. |
| 5. BERYLLIUM | 5. | 1. | | 481. | 442. | 92. |
| 6. CADMIUM | 5. | 4. | | 489. | 484. | 99. |
| 7. CALCIUM | 5000. | 9. | | 49800. | 44900. | 90. |
| 8. CHROMIUM | 10. | 6. | | 506. | 462. | 91. |
| 9. COBALT | 50. | 6. | | 474. | 485. | 102. |
| 10. COPPER | 25. | 4. | | 542. | 498. | 92. |
| 11. IRON | 100. | 8. | | 1990. | 1880. | 94. |
| 12. LEAD | 5. | | 1. | 97.9 | 87. | 89. |
| 13. MAGNESIUM | 5000. | 2. | | 25000. | 22600. | 90. |
| 14. MANGANESE | 15. | 2. | | 513. | 489. | 95. |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | 18. | | 496. | 466. | 94. |
| 17. POTASSIUM | 5000. | 1200. | | 50200. | 47900. | 95. |
| 18. SELENIUM | 5. | | 3. | | | |
| 19. SILVER | 10. | 2. | | 509. | 454. | 89. |
| 20. SODIUM | 5000. | 82. | | 50700. | 49200. | 97. |
| 21. THALLIUM | 10. | | 2. | 97.3 | 96. | 99. |
| 22. VANADIUM | 50. | 3. | | 511. | 488. | 95. |
| 23. ZINC | 20. | 9. | | 3100. | 2870. | 92. |
| 24. CYANIDE | 10. | NR | NR | 1000. | 886. | 89. |

NR - NOT REQUIRED ID# 9- JARRELL ASH ICAP 61 ID# 8- PERKIN ELMER 3030

(1) LCS NO. IS LCS B

FORM VII B Q.C. REPORT: 214 - 215

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/5871E DATE: 5/26/88

LCS NO.:LCSA OR LCSF (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# 9 | IDL (UG/L) Furnace ID# 8 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | 10. | | 1980. | 1970. | 99. |
| 2. ANTIMONY (1) | 60. | 21. | | 1010. | 1020. | 101. |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | 2. | | 1980. | 1970. | 99. |
| 5. BERYLLIUM | 5. | 1. | | 481. | 464. | 96. |
| 6. CADMIUM | 5. | 4. | | 489. | 498. | 102. |
| 7. CALCIUM | 5000. | 9. | | 49800. | 46200. | 93. |
| 8. CHROMIUM | 10. | 6. | | 506. | 482. | 95. |
| 9. COBALT | 50. | 6. | | 474. | 504. | 106. |
| 10. COPPER | 25. | 4. | | 542. | 522. | 96. |
| 11. IRON | 100. | 8. | | 1990. | 1880. | 94. |
| 12. LEAD | 5. | | 1. | 97.9 | 112. | 114. |
| 13. MAGNESIUM | 5000. | 2. | | 25000. | 23200. | 93. |
| 14. MANGANESE | 15. | 2. | | 513. | 499. | 97. |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | 18. | | 496. | 482. | 97. |
| 17. POTASSIUM | 5000. | 1200. | | 50200. | 48500. | 97. |
| 18. SELENIUM | 5. | | 3. | 104. | 92. | 88. |
| 19. SILVER | 10. | 2. | | 509. | 453. | 89. |
| 20. SODIUM | 5000. | 82. | | 50700. | 49500. | 98. |
| 21. THALLIUM | 10. | | 2. | 97.3 | 102. | 105. |
| 22. VANADIUM | 50. | 3. | | 511. | 495. | 97. |
| 23. ZINC | 20. | 9. | | 3100. | 2970. | 96. |
| 24. CYANIDE | 10. | NR | NR | 1000. | 886. | 89. |

NR - NOT REQUIRED ID# 9- JARRELL ASH ICAP 61 ID# 8- PERKIN ELMER 3030

(1) LCS NO. IS LCS B

FORM VII C Q.C. REPORT: 214 - 215

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/5871E DATE: 5/26/88

LCS NO.: LCSF (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# | IDL (UG/L) Furnace ID# 6 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY | 60. | | | | | |
| 3. ARSENIC | 10. | | 3. | 47.0 | 49. | 104. |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | | | | | |

NR - NOT REQUIRED ID# 6- PERKIN ELMER 5000

FORM VII D

Q.C. REPORT: 214 - 215

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/3871E DATE: 5/26/88

LCS NO.: LCSF (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# | IDL (UG/L) Furnace ID# 6 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY | 60. | | | | | |
| 3. ARSENIC | 10. | | 3. | 47.0 | 50. | 106. |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | | | | | |



NR - NOT REQUIRED ID# 6- PERKIN ELMER 5000

FORM VII E Q.C. REPORT: 214 - 215

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/3871E DATE: 5/26/88

LCS NO.: LCSF (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# | IDL (UG/L) Furnace ID# 5 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY | 60. | | | | | |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | | | | |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | 2. | 104. | 94. | 90. |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | | | | | |

00036

NR - NOT REQUIRED ID# 5- PERKIN ELMER 5000

FORM VII I



INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/3871E DATE: 5/26/88

LCS NO.: ICV #5 (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# | IDL (UG/L) Furnace ID# 7 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY | 60. | | | | | |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | 0.2 | 5.2 | 4.3 | 83. |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | | | | | |



NR - NOT REQUIRED ID# 7- MAS 50

FORM VII G

Q.C. REPORT: 214 - 215

INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

LAB NAME: VERSAR, INC. CASE NO.: 9614/3871E DATE: 5/26/88

LCS NO.: ICV #5 (HOH)

| COMPOUND | CRDL | IDL (UG/L) ICP/AA ID# | IDL (UG/L) Furnace ID# 7 | LABORATORY CONTROL SAMPLE UNITS: UG/L TRUE | FOUND | %R |
|---|---|---|---|---|---|---|
| 1. ALUMINUM | 200. | | | | | |
| 2. ANTIMONY | 60. | | | | | |
| 3. ARSENIC | 10. | | | | | |
| 4. BARIUM | 200. | | | | | |
| 5. BERYLLIUM | 5. | | | | | |
| 6. CADMIUM | 5. | | | | | |
| 7. CALCIUM | 5000. | | | | | |
| 8. CHROMIUM | 10. | | | | | |
| 9. COBALT | 50. | | | | | |
| 10. COPPER | 25. | | | | | |
| 11. IRON | 100. | | | | | |
| 12. LEAD | 5. | | | | | |
| 13. MAGNESIUM | 5000. | | | | | |
| 14. MANGANESE | 15. | | | | | |
| 15. MERCURY | 0.2 | | 0.2 | 5.2 | 4.8 | 92. |
| 16. NICKEL | 40. | | | | | |
| 17. POTASSIUM | 5000. | | | | | |
| 18. SELENIUM | 5. | | | | | |
| 19. SILVER | 10. | | | | | |
| 20. SODIUM | 5000. | | | | | |
| 21. THALLIUM | 10. | | | | | |
| 22. VANADIUM | 50. | | | | | |
| 23. ZINC | 20. | | | | | |
| 24. CYANIDE | 10. | | | | | |

NR - NOT REQUIRED ID# 7- MAS 50

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415
International Specialists in the Environment

CRL Receipt Date 6/6 FIT Receipt Date 6/28 Review Completed 7/5/88

TO: Jeff Carman
FROM: Zena Gold-Kaufman
SUBJECT: US Scrap
PAN: IL0102VA (1 hour charged for review) Case # 9614/3871E

Sample Description

| Organics (VOA, ABN, Pest/PCB) | | Inorganics (Metals, Cyanide) | |
|---|---|---|---|
| # ~~8~~ 2 | Low Soil | # | Low Soil |
| 7 | Low Water | | Low Water |
| | Drinking Water | | Drinking Water |
| | Other | | Other |

Project Data Status _____ Completed!! for this case #

_____ Incomplete, awaiting _____

FIT Data Review Findings:
High hits!
See reviewers comments #7 regarding pesticides

***Check Data Sheets for Transcription Errors***

✓ Compounds were detected in sample(s); see enclosed sheet.

Book No. 8 Page No. 84 Date Sampled 5/19/88

0759:2

recycled paper

DATA QUALIFIERS

Contractor: DATACHEM

Case 9614 SAS 3871E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

1. HOLDING TIMES WERE ACCEPTABLE FOR ALL FRACTIONS.
2. ALL METHOD BLANKS WERE CLEAN.
3. A. VOLATILE SURROGATE RECOVERIES WERE GOOD.
B. SEMI-VOLATILE SURROGATES WERE ACCEPTABLE EXCEPT FOR EX181DL AND EX182DL WHICH HAD AT LEAST 2 ACID SURROGATES DILUTED OUT. ACID RESULTS ARE ESTIMATED FOR THESE SAMPLES.
C. PESTICIDE SURROGATE RECOVERIES ARE ALL VERY HIGH. THIS IS PROBABLY DUE TO INTERFERENCE FROM PCB'S IN THE SAMPLES.
4. ALL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS WERE GOOD.
5. A. VOLATILE AND SEMI-VOLATILE TUNING WERE GOOD.
B. PESTICIDE LINEARITY WAS ACCEPTABLE BUT ENDRIN DEGRADATION WAS VERY HIGH.
6. A. VOLATILE CALIBRATIONS WERE GENERALLY ACCEPTABLE BUT 2-BUTANONE AND VINYL ACETATE HAD LOW RESPONSE FACTORS. SEE THE CALIBRATION OUTLIER FORMS FOR THE SAMPLES THAT ARE AFFECTED.
B. SEMI-VOLATILE CALIBRATIONS WERE GOOD THOUGH PENTACHLOROPHENOL HAD A LOW RESPONSE FACTOR IN THE INITIAL CALIBRATION RUN ON 5-28-88. SEE THE CALIBRATION OUTLIER FORMS FOR THE SAMPLES THAT ARE AFFECTED.
7. COMPOUND IDENTIFICATION FOR THE VOLATILE AND SEMI-VOLATILE FRACTIONS APPEARS TO BE ACCURATE. THE PESTICIDE/PCB FRACTION DID CONTAIN MANY PCB PEAKS WHICH MAKES IDENTIFICATION OF SINGLE PESTICIDES DIFFICULT. NONE OF THE IDENTIFIED PESTICIDE COMPOUNDS SHOULD BE USED UNTIL FURTHER ANALYSIS IS DONE TO CONFIRM THEIR PRESENCE. ALSO, THE AROCLOR 1242 IS VERY WEATHERED. THIS IDENTIFICATION MAY BE INCORRECT. AROCLOR 1260 MAY ALSO BE PRESENT AT A LOW LEVEL. AROCLOR 1254 IS THE ONLY AROCLOR WHICH I FEEL IS DEFINITELY IDENTIFIED. THE TOXAPHENE IN SAMPLE EX185 IS ALSO ACCURATELY IDENTIFIED.

Reviewed by: Patrick J. Ulmillo U.S.EPA CLP S

Phone: 303-293-3 6/22/88

Date:

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

| FOOTNOTE | DEFINITION | INTERPRETATION |
|---|---|---|
| U | Indicates compound was analyzed for but not detected. | Compound was not detected. |
| J | Indicates an estimated value. | Compound value may be semi-quantitative. |
| UJ | Quantitation limit is estimated due to a Quality Control (QC) protocol. | Compound was not detected. |
| C | This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract shall be confirmed by GC/MS. | Compound was confirmed by mass spectroscop |
| B | This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. | Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride acetone, toluene, 2-butanone). |
| E | This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. | Compound value may be semi-quantitative. |
| D | This flag identifies all compounds identified in an analysis at a secondary dilution factor. | Alerts data user to a possible change in the CRQL. |
| A | This flag indicates that a TIC is a suspected aldol-condensation product. | Alerts data user of a lab artifact. |
| R | Results are unusable due to a major violation of QC protocol. | Compound value is not usable. |

B. Metals

| FOOTNOTE | DEFINITION | INTERPRETATION |
|---|---|---|
| NEW | | |
| E | Estimated or not reported due to inteference. See laboratory narrative. | Compound or element was not detected or value may be semi-quantitative. |
| S | Analysis by Method of Standard Additions. | Value may be quantitative. |
| N | Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative. | Value may be quantitative or semi-quantitative. |
| * | Duplicate value outside QC protocols which indicates a possible matrix problem. | Value may be semi-quantitative. |
| + | Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative. | Data value may be biased. |
| B | Value is real, but is above instrument DL and below CRDL. | Value may be quantitative or semi-quantitative. |
| | DL is estimated because of a QC protocol. DL is possibly above or below CRDL. | Compound or element was not detected. |
| | Value is above CRDL and is an estimated value because of a QC Protocol. | Value may be semi-quantitative. |
| U | Compound was analyzed for but not detected. | Compound was not detected. |
| M | Duplicate injection precision not met. | Value may be semi-quantitative. |
| W | Post digestion spike for furnance AA analysis is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance. | Value may be semi-quantitative. |

C. Other Symbols Used

NA Value not available due to insufficient data.
Value not calculated since chemical is not a carcinogen.
Estimated value.

4/29/88



103 pages

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/22/88

SUBJECT: Review of Region V CLP Data
Received for Review on 6-6-88

FROM. Curtis Ross, Director (5SCRL) Patrick J. Chunilla for
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: U.S. SCRAP, IL SMO Case No. 9614SAS3871E

EPA Data Set No. SF 5194 (2) No. of Samples: 9 D.U./Activity Numbers Y905/C72178

CRL No. 88FC22S22 - S28, D24, R05

SMO Traffic No. EX028, 128-130, 181-185

CLP Laboratory: DATACHEM Hrs. Required for Review: 9.5

Following are our findings:

This case consisted of 7 water and 2 soil samples analyzed for full organics with 14 day turnaround. The samples contained many PAH's and PCB's.

Patrick J. Chunilla
6-22-88

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications referenced above.
See Data Qualifier sheets and Calibration Outlier forms for flags and additional comments.
( ) Data are preliminary - pending verification by Contractor Laboratory.
See Case Summary above.
( ) Data are unacceptable.

cc: Carla Dempsey, CLP Quality Assurance Officer, Analytical Operations Branch
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE# 9614 SAS 3871E CONTRACTOR DATA CHEM

| SOIL | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 4-22-88 | | | 5-26-88/21:02 | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Chloromethane | | | | | | | | | | | | | | | |
| Bromomethane | | 33.1 | J | | 26.7 | J | | | | | | | | | |
| Vinyl Chloride | | | | | | | | | | | | | | | |
| Chloroethane | | | | | | | | | | | | | | | |
| Methylene Chloride | | | | | 91.8 | J | | | | | | | | | |
| Acetone | | | | | 25.5 | J | | | | | | | | | |
| Carbon Disulfide | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | | | | | | | | | | | | | | | |
| Trans-1,2-Dichloroethene | | | | | | | | | | | | | | | |
| Chloroform | | | | | | | | | | | | | | | |
| 2-Butanone | | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | | | | | | | | | | | | | | | |
| Vinyl Acetate | | | | | 27.5 | J | | | | | | | | | |
| Bromodichloromethane | | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | | | | | | | | | | | | | | | |
| Trans-1,3-Dichloropropene | | | | | | | | | | | | | | | |
| Trichloroethene | | | | | | | | | | | | | | | |
| Dibromochloromethane | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | | | | | | | | | |
| Benzene | | | | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | | | | | | | | | |
| 2-Chloroethylvinylether | | | | | | | | | | | | | | | |
| Bromoform | | | | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | | | | | | | | | | | | | | | |
| 2-Hexanone | | | | | | | | | | | | | | | |
| Tetrachloroethene | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | | | | | | | | | |
| Toluene | | | | | | | | | | | | | | | |
| Chlorobenzene | | | | | | | | | | | | | | | |
| Ethylbenzene | | | | | | | | | | | | | | | |
| Styrene | | | | | | | | | | | | | | | |
| m-Xylene | | | | | | | | | | | | | | | |
| o/p-Xylene | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | | | |
|---|---|---|---|---|
| EX129 | EX129 | | | |
| EX129 MS | EX129 MS | | | |
| EX129 MSD | EX129 MSD | | | |
| EX130 | EX130 | | | |

* These flags should be applied to the analytes on the sample data sheets.

7 of 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE# 9614 SAS 387-E CONTRACTOR Data Chem

| | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-16-88 | | | 5-20-88/10.37 | | | 5-21-88/10.29 | | | 5-23-88/10:01 | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Chloromethane | | | | | | | | | | | | | | | |
| Bromomethane | | | | | | | | | | | | | | | |
| Vinyl Chloride | | | | | | | | | | | | | | | |
| Chloroethane | | | | | | | | | | | | | | | |
| Methylene Chloride | | | | | | | | | | | | | | | |
| Acetone | | | | | | | | 32.2 | J | | 25.8 | J | | | |
| Carbon Disulfide | | | | | 25.5 | J | | | | | | | | | |
| 1,1-Dichloroethane | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | | | | | - | | | | | | | | | | |
| Trans-1,2-Dichloroethene | | | | | | | | | | | | | | | |
| Chloroform | | | | | | | | | | | | | | | |
| 2-Butanone | .033 | | R/J | .023 | 30.3 | R/J | .022 | 33.3 | R/J | .027 | | R/J | | | |
| 1,2-Dichloroethane | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | | | | | | | | | | | | | | | |
| Vinyl Acetate | .044 | | R/J | .017 | 61.4 | R/J | .040 | | R/J | .043 | | R/J | | | |
| Bromodichloromethane | | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | | | | | | | | | | | | | | | |
| Trans-1,3-Dichloropropene | | | | | | | | | | | | | | | |
| Trichloroethene | | | | | | | | | | | | | | | |
| Dibromochloromethane | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | | | | | | | | | |
| Benzene | | | | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | | | | | | | | | |
| 2-Chloroethylvinylether | | | | | | | | | | | | | | | |
| Bromoform | | | | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | | | | | 29.3 | J | | 31.1 | J | | | | | | |
| 2-Hexanone | | | | | 30.1 | J | | 29.9 | J | | | | | | |
| Tetrachloroethene | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | | | | | | | | | |
| Toluene | | | | | | | | | | | | | | | |
| Chlorobenzene | | | | | | | | | | | | | | | |
| Ethylbenzene | | | | | | | | | | | | | | | |
| Styrene | | | | | | | | | | | | | | | |
| m-Xylene | | | | | | | | | | | | | | | |
| o/p-Xylene | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | | |
|---|---|---|---|
| EX182 - EX185 | EX182 | EX128MS | EX183 |
| EX028 | EX028 | EX128MSD | |
| EX128 | EX128 | EX181 | |
| EX128MS | | EX184 | |
| EX128MSD | | EX185 | |

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE# 9614 SAS 38718 CONTRACTOR DATA CHEM

| | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-24-88 | | | 5-26-88/10:41 | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | | | | | | | | | | | | | | | |
| bis(-2-Chloroethyl)Ether | | | | | | | | | | | | | | | |
| 2-Chlorophenol | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | | | | | | | | | |
| Benzyl Alcohol | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | | | |
| bis(2-chloroisopropyl)Ether | | | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitroso-Di-n-Propylamine | | | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | | |
| Benzoic Acid | | | | | 58.3 | J | | | | | | | | | |
| bis(2-Chloroethoxy)Methane | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | | | | | | | | | |
| Naphthalene | | | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | | | | | | | | | | | | | | | |
| 4-Chloro-3-Methylphenol | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | | |
| 2-Nitroaniline | | | | | | | | | | | | | | | |
| Dimethyl Phthalate | | | | | | | | | | | | | | | |
| Acenaphthylene | | | | | | | | | | | | | | | |
| 3-Nitroaniline | | | | | | | | | | | | | | | |
| Acenaphthene | | | | | | | | | | | | | | | |
| 2,4-Dinitrophenol | | | | | | | | | | | | | | | |
| 4-Nitrophenol | | | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | |
|---|---|
| EX128 | EX128 |
| EX028 | EX028 |
| EX184 | EX184 |
| EX128MS | EX128MS |
| EX128MSD | EX128MSD |

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE# 9614 SAS 3871E CONTRACTOR DATA CHEM

| | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-24-88 | | | 5-26-88 /10:41 | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | | |
| Diethylphthalate | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | | | | | | | | | | | | | | | |
| Fluorene | | | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitrosodiphenylamine | | | | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | | | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | | | |
| Pentachlorophenol | | | | | | | | | | | | | | | |
| Phenanthrene | | | | | | | | | | | | | | | |
| Anthracene | | | | | | | | | | | | | | | |
| Di-n-Butylphthalate | | | | | | | | | | | | | | | |
| Fluoranthene | | | | | | | | | | | | | | | |
| Pyrene | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | | | | | | | | | | | | | | | |
| Benzo(a)Anthracene | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)Phthalate | | | | | | | | | | | | | | | |
| Chrysene | | | | | | | | | | | | | | | |
| Di-n-Octyl Phthalate | | | | | | | | | | | | | | | |
| Benzo(b)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(k)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(a)Pyrene | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)Pyrene | | | | | | | | | | | | | | | |
| Dibenz(a,h)Anthracene | | | | | | | | | | | | | | | |
| Benzo(g,h,i) Perylene | | | | | | | | | | | | | | | |

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE# 9614SAS3871E CONTRACTOR DATA CHEM

| | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-28-88 | | | 5-30-88 / 7.53 | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | | | | | | | | | | | | | | | |
| bis(-2-Chloroethyl)Ether | | | | | | | | | | | | | | | |
| 2-Chlorophenol | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | | | | | | | | | |
| Benzyl Alconol | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | | | |
| bis(2-chloroisopropyl)Ether | | | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitroso-Di-n-?ropylamine | | | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | | |
| Benzoic Acid | | | | | | | | | | | | | | | |
| bis(2-Chloroethoxy)Methane | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | | | | | | | | | |
| Naphthalene | | | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | | | | | | | | | | | | | | | |
| 4-Chloro-3-Methylphenol | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | | | | | 31.7 | J | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | | |
| 2-Nitroaniline | | | | | | | | | | | | | | | |
| Dimethyl Phthalate | | | | | | | | | | | | | | | |
| Acenaphthylene | | | | | | | | | | | | | | | |
| 3-Nitroaniline | | | | | | | | | | | | | | | |
| Acenaphthene | | | | | | | | | | | | | | | |
| 2,4-Dinitrophenol | | | | | | | | | | | | | | | |
| 4-Nitrophenol | | | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | | | |
|---|---|---|---|---|
| EX129 | EX129 | | | |
| EX129MS | EX129MS | | | |
| EX129MSD | EX.29MSD | | | |
| EX.30 | EX130 | | | |
| EX183DL | EX183DL | | | |
| EX182DL | EX182DL | | | |
| EX 2.DL | EX.2.DL | | | |
| EX 2.DL | EX 2DL | | | |
| | | | | |
| | | | | |
| | | | | |

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE# 9614 SAS 3871E CONTRACTOR DATA CHEM

| | Init. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | 5-28-88 | | | 5-30-88/753 | | | | | | | | | | | |
| | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | | |
| ~~Diethyl~~phthalate | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | | | | | | | | | | | | | | | |
| Fluorene | | | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | | | | | | | | | | | | | | | |
| N-Nitrosodiphenylamine | | | | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | | | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | | | |
| Pentachlorophenol * | .048 | | R/J | | | | | | | | | | | | |
| Phenanthrene | | | | | | | | | | | | | | | |
| Anthracene | | | | | | | | | | | | | | | |
| Di-n-Butylphthalate | | | | | | | | | | | | | | | |
| Fluoranthene | | | | | | | | | | | | | | | |
| Pyrene | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | | | | | | | | | | | | | | | |
| Benzo(a)Anthracene | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)Phthalate | | | | | | | | | | | | | | | |
| Chrysene | | | | | | | | | | | | | | | |
| Di-n-Octyl Phthalate | | | | | | | | | | | | | | | |
| Benzo(b)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(k)Fluoranthene | | | | | | | | | | | | | | | |
| Benzo(a)Pyrene | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)Pyrene | | | | | | | | | | | | | | | |
| Dibenz(a,h)Anthracene | | | | | | | | | | | | | | | |
| Benzo(g,h,i) Perylene | | | | | | | | | | | | | | | |

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

* UNDETECTED RESULTS ARE FLAGGED 'R' (UNUSABLE) AND POSITIVE RESULTS ARE FLAGGED 'J' (ESTIMATED)

Case: 9614 SAS 3871E

Contractor: DATACHEM

# TENTATIVELY IDENTIFIED COMPOUNDS MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

[redacted] [redacted] [redacted] [redacted] C[redacted]TRA[redacted]RE[redacted]NA[redacted]LAB[redacted]ATO[redacted]Y S[redacted]MPLE DATA REPORT LOG IN DATE 6/3/88

# ORGANICS/INORGANICS

DUE DATE: 7/27/88

SUPERFUND 5194

## THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 9614/3871E SITE NAME U.S. Scrap LABORATORY DataChem/Versar DATE SHIPPED 5/11-19/88

SUPERFUND DU NUMBER Y905 EPA RPM or OSC (S M S )/(CES) ______ CERCLIS NUMBER ILD980679484 PAGE 1 OF 2

ACTIVITY NUMBER C72100 28 elm

| CRL LOG NUMBER | ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No. | INORGANIC TRAFFIC REPORT NUMBER | WATER: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564 | WATER POLYCHLORINATED BIPHENYLS UG L PES 17144 | WATER CHLORINATED PESTICIDES UG·L PES17134 | TOTAL METALS IN WATER UG L MET111 | WATER CYANIDE UG·L MIN74919 | NITRATE NITRITE MG·L MIN7284 | AMMONIA MG/L MIN7294 | RESIDUE FILTERABLE TDS MG·L MIN7362 | RESIDUE NON-FILT TSS MG L MIN7372 | | | SEDIMENTS: ACID BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX215622 | SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422 | SEDIMENT CHLORINATED PESTICIDES MG/KG 211322 | TOTAL METALS MG·KG MET413 | CYANIDE MG/KG MIN44930 | EP TOXICITY METALS MG/KG | AMMONIA MG/KG MIN42925 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88FC22509 | EX166 ✓ | MEX723 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22510 | EX167 ✓ | MEX724 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22511 | EX168 ✓ | MEX725 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22512 | EX169 ✓ | MEX325 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22D12 | EX172 ✓ | MEX328 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22513 | EX170 ✓ | — | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| 88FC22514 | EX171 ✓ | MEX327 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22515 | EX173 ✓ | MEX329 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22516 | EX174 ✓ | MEX330 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22517 | EX175 ✓ | MEX331 ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22518 | EX176 ✓ | MEX332 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22519 | EX177 ✓ | MEX333 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22520 | EX178 ✓ | MEX334 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22R03 | EX179 ✓ | MEX335 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22521 | EX180 ✓ | MEX336 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22522 | EX181 ✓ | MEX337 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22523 | EX182 ✓ | MEX338 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| [illegible]22524 | EX183 ✓ | MEX339 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| [illegible] | EX185 ✓ | MEX682 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| [illegible] | [illegible]84 ✓ | MEX340 ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |

Inorganic Batch 1 (88FC22509 – 88FC22D12)

Organic Batch 1 (88FC22509 – 88FC22521)

Inorg. Batch 1 (88FC22514 – 88FC22516)

Inorg Batch 1 (88FC22518 – 88FC22R03)

SUPERFUND 5194

# CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
## ORGANICS/INORGANICS
THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

SAMPLE DATES: 5/7
LOG-IN DATE: 6/3
DUE DATE: 7/27/88

CASE NUMBER/SAS No 9614/3871E SITE NAME US Scrap LABORATORY DataChem/Versar DATE SHIPPED 11

SUPERFUND DU NUMBER 4905 EPA RPM or OSC (S M S )/(CES) CERCLIS NUMBER ID980679484 PAGE 2 OF

ACTIVITY NUMBER C72100 Z8 [illegible]

| CRL LOG NUMBER | ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No. | INORGANIC TRAFFIC REPORT NUMBER | WATER OR LIQUIDS: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564 | WATER POLYCHLORINATED BIPHENYLS UG L PES 17144 | WATER CHLORINATED PESTICIDES UG L PES17134 | TOTAL METALS IN WATER UG L MET1111 | WATER CYANIDE UG L MIN74919 | NITRATE NITRITE MG L MIN7284 | AMMONIA MG L MIN7294 | RESIDUE FILTERABLE TDS MG L MIN7362 | RESIDUE NON FILT TSS MG L MIN7372 | | | SEDIMENTS or SOILS: ACID BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722 | VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG KG TOX215622 | SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422 | SEDIMENT CHLORINATED PESTICIDES MG/KG 211322 | TOTAL METALS MG/KG MET413 | CYANIDE MG/KG MIN44930 | EP TOXICITY METALS MG/KG | AMMONIA MG KG MIN42925 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88FC22R04 | EX127 | MEX683 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | > Inorg Batch 1 | | | | | | | | | | | | | | | | |
| 88FC22S26 | EX128 | MEX684 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22R05 | EX028 | MEX860 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 88FC22S27 | EX129 | MEX232 | | | | | | | | | | | | | | | | | | | | | | | |
| 88FC22S28 | EX130 | MEX685 | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| etc | COC TR | | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

CASE NARRATIVE

CASE NO. 9614 SAS No. 3871-E
SDG NO. EX181
SAMPLE NO.(s) for SDG: EX028, EX128, EX128MS, EX128MSD, EX129, EX129MS, EX129MSD, EX130, EX181, EX182, EX183, EX184, EX184MS, EX184MSD, AND EX185.

EPA-CLP CONTRACT NO. 68-01-7466 bid lot #1
DATACHEM, INC.

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, and verified by the following signature.

Richard Wade date 6-3-88

I. 1. CASE 9614 DataChem Inc. received a total of twenty three water samples and two soil samples for case 9614. The SDG designation for the seven water samples and two soil samples indicated above is SDG No. EX181. This report includes only the data for SDG NO. EX181. All remaining data for this case has already been submitted. DataChem expects to be paid for all analyses listed above.

I. 2. BNA Analysis Due to high concentrations it was necessary to dilute four samples prior to analysis. Samples EX181, EX182, EX183 and EX185 were diluted by a factor of 100. Even though the target compounds present do not fall in the upper range of the standard curve in all cases, the samples could not be analyzed at higher concentration.

I. 3. Matrix Spike and Matrix Spike Duplicate Analyses Matrix spike and matrix spike duplicate analyses were performed on sample EX128 for water samples and EX129 for soil samples for VOA and BNA fractions. Samples EX184 for water, and EX129 for soil were used for the pesticide matrix spike analyses.

I. 4. Pesticide Analysis Heptachlor reported for sample EX184MSD was flagged with an X because confirmation was not possible due to matrix interferences. Aroclor 1242, aroclor 1254, aroclor 1260 and toxaphene, were quantitated from the second column analysis. Single peak analytes which confirmed in samples containing aroclors may actually be part of the aroclor pattern. Quantitation of the aroclors in the MS/MSD may not be accurate due to interference from the spiked compounds. It was necessary to dilute a number of samples before analysis because of high concentrations. No obvious explanation was found for high surrogate recovery obtained.

I. 5. Pesticide Abbreviations used by Computer. The abbreviations used by the computer for the pesticide analysis are summarized below:

Ald= Aldrin
Endr= Endrin
Toxaph= Toxaphene
Hepox= Heptachlor Epoxide
Endo1= Endosulfan I
Endo2= Endosulfan II
EndAld= Endrin Aldehyde
G-Chl= Gamma Chlordane
A-Chl= Alpha Chlordane
En.Su.= Endosulfan Sulfate
En.Ke.= Endrin Ketone
DBC= Dibutylchlorendate
Methx= Methoxychlor
Hept=Heptachlor
Lind=Lindane
Dield=Dieldrin
Al-BHC=Alpha BHC
Be-BHC=Beta BHC
de-BHC=delta BHC

Case Narrative Authorized by: Richard Wade date 6-3-88

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

| | EPA SAMPLE NO. | S1 (TOL) # | S2 (BFB) # | S3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | EX028 | 99 | 97 | 89 | | 0 |
| 02 | EX128 | 100 | 96 | 85 | | 0 |
| 03 | EX181 | 100 | 96 | 84 | | 0 |
| 04 | EX182 | 100 | 99 | 93 | | 0 |
| 05 | EX183 | 100 | 107 | 101 | | 0 |
| 06 | EX184 | 97 | 94 | 85 | | 0 |
| 07 | EX185 | 101 | 95 | 86 | | 0 |
| 08 | EX128MS | 99 | 96 | 87 | | 0 |
| 09 | EX128MSD | 102 | 95 | 80 | | 0 |
| 10 | VBLK01 | 99 | 100 | 98 | | 0 |
| 11 | VBLK02 | 100 | 99 | 98 | | 0 |
| 12 | VBLK03 | 102 | 105 | 98 | | 0 |

| | | QC LIMITS |
|---|---|---|
| S1 (TOL) | = Toluene-d8 | ( 88-110) |
| S2 (BFB) | = Bromofluorobenzene | ( 86-115) |
| S3 (DCE) | = 1,2-Dichloroethane-d4 | ( 76-114) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Level:(low/med) LOW

| | EPA SAMPLE NO. | S1 (TOL) # | S2 (BFB) # | S3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | EX129 | 104 | 88 | 90 | | 0 |
| 02 | EX130 | 99 | 92 | 92 | | 0 |
| 03 | EX129MS | 106 | 87 | 89 | | 0 |
| 04 | EX129MSD | 107 | 83 | 89 | | 0 |
| 05 | VBLK04 | 99 | 98 | 93 | | 0 |

| | QC LIMITS |
|---|---|
| S1 (TOL) = Toluene-d8 | ( 81-117) |
| S2 (BFB) = Bromofluorobenzene | ( 74-121) |
| S3 (DCE) = 1,2-Dichloroethane-d4 | ( 70-121) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix Spike - EPA Sample No.: EX128

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 0 | 44.9 | 90 | 61-145 |
| Trichloroethene | 50.0 | 0 | 48.3 | 97 | 71-120 |
| Benzene | 50.0 | 0 | 50.1 | 100 | 76-127 |
| Toluene | 50.0 | 0 | 48.2 | 96 | 76-125 |
| Chlorobenzene | 50.0 | 0 | 49.0 | 98 | 75-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 48.9 | 98 | -9 | 14 | 61-145 |
| Trichloroethene | 50.0 | 50.9 | 102 | -5 | 14 | 71-120 |
| Benzene | 50.0 | 51.7 | 103 | -3 | 11 | 76-127 |
| Toluene | 50.0 | 52.0 | 104 | -8 | 13 | 76-125 |
| Chlorobenzene | 50.0 | 51.5 | 103 | -5 | 13 | 75-130 |

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

MS-E CASE: 9614 SAS: 3871E SDG: EX181

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix Spike - EPA Sample No.: EX129 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 116 | 0 | 116 | 100 | 59-172 |
| Trichloroethene | 116 | 0 | 107 | 92 | 62-137 |
| Benzene | 116 | 0 | 122 | 105 | 66-142 |
| Toluene | 116 | 0 | 125 | 108 | 59-139 |
| Chlorobenzene | 116 | 0 | 120 | 103 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 116 | 118 | 102 | -2 | 22 | 59-172 |
| Trichloroethene | 116 | 108 | 93 | -1 | 24 | 62-137 |
| Benzene | 116 | 124 | 107 | -2 | 21 | 66-142 |
| Toluene | 116 | 127 | 110 | -2 | 21 | 59-139 |
| Chlorobenzene | 116 | 121 | 104 | -1 | 21 | 60-133 |

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: EX129
MS-E CASE: 9614 SAS: 3871E SDG: EX181

4A

# VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Lab File ID: DH47BLANK Lab Sample ID: MB-1

Date Analyzed: 05/20/88 Time Analyzed: 1201

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX028 | CLP1344 | DH59EX028 | 1940 |
| 02 | EX128 | CLP1345 | DH60EX128 | 2015 |
| 03 | EX182 | CLP1331 | DH55EX182 | 1719 |

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: MB-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH47BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: MB-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH47BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Lab File ID: DH77BLANK Lab Sample ID: MB-2

Date Analyzed: 05/21/88 Time Analyzed: 1144

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX181 | CLP1330 | DH81EX181 | 1417 |
| 02 | EX184 | CLP1333 | DH83EX184 | 1527 |
| 03 | EX185 | CLP1334 | DH85EX185 | 1636 |
| 04 | EX128MS | CLP1345MS | DH79EX128MS | 1255 |
| 05 | EX128MSD | CLP1345MSD | DH80EX128MD | 1338 |

COMMENTS: VBLK02
MS-E CASE: 9614 SAS: 3871E SDG: EX181

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: MB-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH77BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: MB-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH77BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Lab File ID: DI06BLANK Lab Sample ID: MB-3

Date Analyzed: 05/23/88 Time Analyzed: 1134

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX183 | CLP1332 | DI10EX183 | 1655 |

COMMENTS: VBLK03
MS-E CASE: 9614 SAS: 3871E SDG: EX181

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: MB-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DI06BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/23/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| | Total Xylenes | 5 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: MB-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DI06BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/23/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Lab File ID: DJ21BLANK Lab Sample ID: MB-4

Date Analyzed: 05/26/88 Time Analyzed: 2301

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: MS-E

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EX129 | CLP1346 | DJ25EX129 | 0127 |
| 02 | EX130 | CLP1347 | DJ28EX130 | 0316 |
| 03 | EX129MS | CLP1346MS | DJ26EX129MS | 0204 |
| 04 | EX129MSD | CLP1346MSD | DJ27EX129MD | 0241 |

COMMENTS:

MS-E CASE: 9614

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: MB-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: DJ21BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/26/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: MB-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: DJ21BLANK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 05/26/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX028

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1344

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH59EX028

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 2 | J |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| ---------- | Total Xylenes | 5 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX128

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1345

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH60EX128

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-35-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-05-4 | Vinyl Acetate | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 108-90-7 | Chlorobenzene | ~~5~~ | ~~U~~ |
| 100-41-4 | Ethylbenzene | 0.5 | J |
| 100-42-5 | Styrene | ~~5~~ | ~~U~~ |
| ---------- | Total Xylenes | 5 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX129

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1346

Sample wt/vol: 5.0 (g/mL) G Lab File ID: DJ25EX129

Level: (low/med) LOW Date Received: 05/26/88

% Moisture: not dec. 57 Date Analyzed: 05/27/88

Column: (pack/cap) PACK Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 23 | U |
| 74-83-9 | Bromomethane | 23 | U |
| 75-01-4 | Vinyl Chloride | 23 | U |
| 75-00-3 | Chloroethane | 23 | U |
| 75-09-2 | Methylene Chloride | 12 | U |
| 67-64-1 | Acetone | 23 | U |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 12 | U |
| 75-35-3 | 1,1-Dichloroethane | 12 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U |
| 67-66-3 | Chloroform | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |
| 78-93-3 | 2-Butanone | 23 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5 | Carbon Tetrachloride | 12 | U |
| 108-05-4 | Vinyl Acetate | 23 | U |
| 75-27-4 | Bromodichloromethane | 12 | U |
| 78-87-5 | 1,2-Dichloropropane | 12 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U |
| 79-01-6 | Trichloroethene | 12 | U |
| 124-48-1 | Dibromochloromethane | 12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U |
| 71-43-2 | Benzene | 12 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 12 | U |
| 75-25-2 | Bromoform | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 23 | U |
| 591-78-6 | 2-Hexanone | 23 | U |
| 127-18-4 | Tetrachloroethene | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U |
| 108-88-3 | Toluene | 12 | U |
| 108-90-7 | Chlorobenzene | 12 | U |
| 100-41-4 | Ethylbenzene | 12 | U |
| 100-42-5 | Styrene | 12 | U |
| | Total Xylenes | 12 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX130

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1347

Sample wt/vol: 5.0 (g/mL) G Lab File ID: DJ28EX130

Level: (low/med) LOW Date Received: 05/26/88

% Moisture: not dec. 24 Date Analyzed: 05/27/88

Column: (pack/cap) PACK Dilution Factor: 5.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 66 | U |
| 74-83-9 | Bromomethane | 66 | U |
| 75-01-4 | Vinyl Chloride | 66 | U |
| 75-00-3 | Chloroethane | 66 | U |
| 75-09-2 | Methylene Chloride | 33 | U |
| 67-64-1 | Acetone | 430 | |
| 75-15-0 | Carbon Disulfide | 33 | U |
| 75-35-4 | 1,1-Dichloroethene | 33 | U |
| 75-35-3 | 1,1-Dichloroethane | 27 | J |
| 540-59-0 | 1,2-Dichloroethene (total) | 270 | |
| 67-66-3 | Chloroform | 33 | U |
| 107-06-2 | 1,2-Dichloroethane | 33 | U |
| 78-93-3 | 2-Butanone | 550 | |
| 71-55-6 | 1,1,1-Trichloroethane | 33 | U |
| 56-23-5 | Carbon Tetrachloride | 33 | U |
| 108-05-4 | Vinyl Acetate | 66 | U |
| 75-27-4 | Bromodichloromethane | 33 | U |
| 78-87-5 | 1,2-Dichloropropane | 33 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 33 | U |
| 79-01-6 | Trichloroethene | 33 | U |
| 124-48-1 | Dibromochloromethane | 33 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 33 | U |
| 71-43-2 | Benzene | 88 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 33 | U |
| 75-25-2 | Bromoform | 33 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1200 | |
| 591-78-6 | 2-Hexanone | 66 | U |
| 127-18-4 | Tetrachloroethene | 33 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 33 | U |
| 108-88-3 | Toluene | 930 | |
| 108-90-7 | Chlorobenzene | 33 | U |
| 100-41-4 | Ethylbenzene | 34 | |
| 100-42-5 | Styrene | 33 | U |
| | Total Xylenes | 480 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX181

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1330

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH81EX181

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column: (pack/cap) PACK Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000 | U |
| 74-83-9 | Bromomethane | 1000 | U |
| 75-01-4 | Vinyl Chloride | 1000 | U |
| 75-00-3 | Chloroethane | 1000 | U |
| 75-09-2 | Methylene Chloride | 500 | U |
| 67-64-1 | Acetone | 1000 | U |
| 75-15-0 | Carbon Disulfide | 500 | U |
| 75-35-4 | 1,1-Dichloroethene | 500 | U |
| 75-35-3 | 1,1-Dichloroethane | 500 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 500 | U |
| 67-66-3 | Chloroform | 500 | U |
| 107-06-2 | 1,2-Dichloroethane | 500 | U |
| 78-93-3 | 2-Butanone | 1000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500 | U |
| 56-23-5 | Carbon Tetrachloride | 500 | U |
| 108-05-4 | Vinyl Acetate | 1000 | U |
| 75-27-4 | Bromodichloromethane | 500 | U |
| 78-87-5 | 1,2-Dichloropropane | 500 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500 | U |
| 79-01-6 | Trichloroethene | 500 | U |
| 124-48-1 | Dibromochloromethane | 500 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500 | U |
| 71-43-2 | Benzene | 1200 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 500 | U |
| 75-25-2 | Bromoform | 500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1000 | U |
| 591-78-6 | 2-Hexanone | 1000 | U |
| 127-18-4 | Tetrachloroethene | 500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500 | U |
| 108-88-3 | Toluene | 500 | U |
| 108-90-7 | Chlorobenzene | 500 | U |
| 100-41-4 | Ethylbenzene | 7400 | |
| 100-42-5 | Styrene | 500 | U |
| | Total Xylenes | 30000 | EX |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX182

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1331

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH55EX182

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column: (pack/cap) PACK Dilution Factor: 2000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 20000 | U |
| 74-83-9 | Bromomethane | 20000 | U |
| 75-01-4 | Vinyl Chloride | 20000 | U |
| 75-00-3 | Chloroethane | 20000 | U |
| 75-09-2 | Methylene Chloride | 130000 | |
| 67-64-1 | Acetone | 190000 | |
| 75-15-0 | Carbon Disulfide | 10000 | U |
| 75-35-4 | 1,1-Dichloroethene | 10000 | U |
| 75-35-3 | 1,1-Dichloroethane | 10000 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10000 | U |
| 67-66-3 | Chloroform | 10000 | U |
| 107-06-2 | 1,2-Dichloroethane | 10000 | U |
| 78-93-3 | 2-Butanone | 210000 | |
| 71-55-6 | 1,1,1-Trichloroethane | 3200 | J |
| 56-23-5 | Carbon Tetrachloride | 10000 | U |
| 108-05-4 | Vinyl Acetate | 20000 | U |
| 75-27-4 | Bromodichloromethane | 10000 | U |
| 78-87-5 | 1,2-Dichloropropane | 10000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10000 | U |
| 79-01-6 | Trichloroethene | 4600 | J |
| 124-48-1 | Dibromochloromethane | 10000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10000 | U |
| 71-43-2 | Benzene | 10000 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10000 | U |
| 75-25-2 | Bromoform | 10000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 140000 | |
| 591-78-6 | 2-Hexanone | 20000 | U |
| 127-18-4 | Tetrachloroethene | 10000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10000 | U |
| 108-88-3 | Toluene | 50000 | |
| 108-90-7 | Chlorobenzene | 10000 | U |
| 100-41-4 | Ethylbenzene | 27000 | |
| 100-42-5 | Styrene | 10000 | U |
| ---------- | Total Xylenes | 140000 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX183

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1332

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DI10EX183

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/23/88

Column: (pack/cap) PACK Dilution Factor: 600

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 6000 | U |
| 74-83-9 | Bromomethane | 6000 | U |
| 75-01-4 | Vinyl Chloride | 6000 | U |
| 75-00-3 | Chloroethane | 6000 | U |
| 75-09-2 | Methylene Chloride | 52000 | |
| 67-64-1 | Acetone | 27000 | |
| 75-15-0 | Carbon Disulfide | 3000 | U |
| 75-35-4 | 1,1-Dichloroethene | 3000 | U |
| 75-35-3 | 1,1-Dichloroethane | 3000 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 14000 | |
| 67-66-3 | Chloroform | 3000 | U |
| 107-06-2 | 1,2-Dichloroethane | 3000 | U |
| 78-93-3 | 2-Butanone | 66000 | |
| 71-55-6 | 1,1,1-Trichloroethane | 3000 | U |
| 56-23-5 | Carbon Tetrachloride | 3000 | U |
| 108-05-4 | Vinyl Acetate | 6000 | U |
| 75-27-4 | Bromodichloromethane | 3000 | U |
| 78-87-5 | 1,2-Dichloropropane | 3000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3000 | U |
| 79-01-6 | Trichloroethene | 1100 | J |
| 124-48-1 | Dibromochloromethane | 3000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3000 | U |
| 71-43-2 | Benzene | 9900 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 3000 | U |
| 75-25-2 | Bromoform | 3000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 77000 | |
| 591-78-6 | 2-Hexanone | 6000 | U |
| 127-18-4 | Tetrachloroethene | 3000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3000 | U |
| 108-88-3 | Toluene | 43000 | |
| 108-90-7 | Chlorobenzene | 3000 | U |
| 100-41-4 | Ethylbenzene | 7500 | |
| 100-42-5 | Styrene | 3000 | U |
| | Total Xylenes | 34000 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX184

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1333

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH83EX184

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column: (pack/cap) PACK Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000 | U |
| 74-83-9 | Bromomethane | 1000 | U |
| 75-01-4 | Vinyl Chloride | 1000 | U |
| 75-00-3 | Chloroethane | 1000 | U |
| 75-09-2 | Methylene Chloride | 500 | U |
| 67-64-1 | Acetone | 1000 | U |
| 75-15-0 | Carbon Disulfide | 500 | U |
| 75-35-4 | 1,1-Dichloroethene | 500 | U |
| 75-35-3 | 1,1-Dichloroethane | 500 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 500 | U |
| 67-66-3 | Chloroform | 500 | U |
| 107-06-2 | 1,2-Dichloroethane | 500 | U |
| 78-93-3 | 2-Butanone | 1000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500 | U |
| 56-23-5 | Carbon Tetrachloride | 500 | U |
| 108-05-4 | Vinyl Acetate | 1000 | U |
| 75-27-4 | Bromodichloromethane | 500 | U |
| 78-87-5 | 1,2-Dichloropropane | 500 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500 | U |
| 79-01-6 | Trichloroethene | 500 | U |
| 124-48-1 | Dibromochloromethane | 500 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500 | U |
| 71-43-2 | Benzene | 190 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 500 | U |
| 75-25-2 | Bromoform | 500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1000 | U |
| 591-78-6 | 2-Hexanone | 1000 | U |
| 127-18-4 | Tetrachloroethene | 500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500 | U |
| 108-88-3 | Toluene | 16000 | |
| 108-90-7 | Chlorobenzene | ~~500~~ | U |
| 100-41-4 | Ethylbenzene | 6100 | |
| 100-42-5 | Styrene | ~~500~~ | U |
| ---------- | Total Xylenes | 24000 | EX |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX185

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1334

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH85EX185

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column: (pack/cap) PACK Dilution Factor: 600

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 6000 | U |
| 74-83-9 | Bromomethane | 6000 | U |
| 75-01-4 | Vinyl Chloride | 6000 | U |
| 75-00-3 | Chloroethane | 6000 | U |
| 75-09-2 | Methylene Chloride | 64000 | |
| 67-64-1 | Acetone | 43000 | |
| 75-15-0 | Carbon Disulfide | 3000 | U |
| 75-35-4 | 1,1-Dichloroethene | 3000 | U |
| 75-35-3 | 1,1-Dichloroethane | 930 | J |
| 540-59-0 | 1,2-Dichloroethene (total) | 16000 | |
| 67-66-3 | Chloroform | 3000 | U |
| 107-06-2 | 1,2-Dichloroethane | 3000 | U |
| 78-93-3 | 2-Butanone | 98000 | |
| 71-55-6 | 1,1,1-Trichloroethane | 3000 | U |
| 56-23-5 | Carbon Tetrachloride | 3000 | U |
| 108-05-4 | Vinyl Acetate | 6000 | U |
| 75-27-4 | Bromodichloromethane | 3000 | U |
| 78-87-5 | 1,2-Dichloropropane | 3000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3000 | U |
| 79-01-6 | Trichloroethene | 1400 | J |
| 124-48-1 | Dibromochloromethane | 3000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3000 | U |
| 71-43-2 | Benzene | 12000 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 3000 | U |
| 75-25-2 | Bromoform | 3000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 110000 | |
| 591-78-6 | 2-Hexanone | 6000 | U |
| 127-18-4 | Tetrachloroethene | 3000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3000 | U |
| 108-88-3 | Toluene | 52000 | |
| 108-90-7 | Chlorobenzene | 3000 | U |
| 100-41-4 | Ethylbenzene | 8300 | |
| 100-42-5 | Styrene | 3000 | U |
| | Total Xylenes | 32000 | |

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

| | EPA SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | EX028 | 98 | 90 | 71 | 38 | 79 | 57 | | 0 |
| 02 | EX128 | 107 | 107 | 76 | 32 | 66 | 73 | | 0 |
| 03 | EX128MS | 92 | 94 | 80 | 33 | 61 | 75 | | 0 |
| 04 | EX128MSD | 97 | 98 | 72 | 25 | 47 | 77 | | 0 |
| 05 | EX181DL | D | 103 | 86 | 59 | D | D | | 0 |
| 06 | EX182DL | D | 100 | 78 | D | D | D | | 0 |
| 07 | EX183DL | D | 85 | 61 | 40 | 57 | D | | 0 |
| 08 | EX184 | 86 | 93 | 83 | 36 | 54 | 80 | | 0 |
| 09 | EX185DL | D | 89 | 49 | 40 | 47 | D | | 0 |
| 10 | SBLK01 | 110 | 102 | 80 | 39 | 83 | 58 | | 0 |

| | | QC LIMITS |
|---|---|---|
| S1 (NBZ) | = Nitrobenzene-d5 | ( 35-114) |
| S2 (FBP) | = 2-Fluorobiphenyl | ( 43-116) |
| S3 (TPH) | = Terphenyl | ( 33-141) |
| S4 (PHL) | = Phenol-d5 | ( 10-94 ) |
| S5 (2FP) | = 2-Fluorophenol | ( 21-100) |
| S6 (TBP) | = 2,4,6-Tribromophenol | ( 10-123) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Level:(low/med) LOW

| | EPA SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | EX129 | 51 | 48 | 38 | 41 | 54 | 44 | | 0 |
| 02 | EX129MS | 52 | 50 | 41 | 42 | 55 | 44 | | 0 |
| 03 | EX129MSD | 54 | 50 | 40 | 41 | 56 | 44 | | 0 |
| 04 | EX130 | 52 | 49 | 41 | 43 | 57 | 45 | | 0 |
| 05 | SBLK02 | 50 | 54 | 38 | 40 | 55 | 31 | | 0 |

| | | QC LIMITS |
|---|---|---|
| S1 (NBZ) | = Nitrobenzene-d5 | ( 23-120) |
| S2 (FBP) | = 2-Fluorobiphenyl | ( 30-115) |
| S3 (TPH) | = Terphenyl | ( 18-137) |
| S4 (PHL) | = Phenol-d5 | ( 24-113) |
| S5 (2FP) | = 2-Fluorophenol | ( 25-121) |
| S6 (TBP) | = 2,4,6-Tribromophenol | ( 19-122) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

3C

# WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix Spike - EPA Sample No.: EX128

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| Phenol | 200 | 0 | 64.8 | 32 | 12- 86 |
| 2-Chlorophenol | 200 | 0 | 115 | 58 | 27-123 |
| 1,4-Dichlorobenzene | 100 | 0 | 60.6 | 61 | 36 97 |
| N-Nitroso-di-n-prop.(1) | 100 | 0 | 47.8 | 48 | 41 116 |
| 1,2,4-Trichlorobenzene | 100 | 0 | 67.6 | 68 | 39 98 |
| 4-Chloro-3-methylphenol | 200 | 0 | 128 | 64 | 23 97 |
| Acenaphthene | 100 | 0 | 68.4 | 68 | 46-118 |
| 4-Nitrophenol | 200 | 0 | 63.2 | 32 | 10- 80 |
| 2,4-Dinitrotoluene | 100 | 0 | 75.6 | 76 | 24- 96 |
| Pentachlorophenol | 200 | 0 | 122 | 61 | 9-103 |
| Pyrene | 100 | 0 | 92.2 | 92 | 26-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Phenol | 200 | 45.8 | 23 | 33 | 42 | 12- 86 |
| 2-Chlorophenol | 200 | 93.6 | 47 | 21 | 40 | 27-123 |
| 1,4-Dichlorobenzene | 100 | 60.0 | 60 | 2 | 28 | 36 97 |
| N-Nitroso-di-n-prop.(1) | 100 | 49.8 | 50 | -4 | 38 | 41 116 |
| 1,2,4-Trichlorobenzene | 100 | 69.8 | 70 | -3 | 28 | 39 98 |
| 4-Chloro-3-methylphenol | 200 | 102 | 51 | 23 | 42 | 23 97 |
| Acenaphthene | 100 | 70.0 | 70 | -3 | 31 | 46-118 |
| 4-Nitrophenol | 200 | 30.8 | 15 | 72 * | 50 | 10- 80 |
| 2,4-Dinitrotoluene | 100 | 79.0 | 79 | -4 | 38 | 24- 96 |
| Pentachlorophenol | 200 | 95.8 | 48 | 24 | 50 | 9-103 |
| Pyrene | 100 | 93.0 | 93 | -1 | 31 | 26-127 |

(1) N-Nitroso-di-n-propylamine

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

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: CLP1345
INSTRUMENT: MS-C CASE: 9614 SDG#: EX181 SAS#: 3871E

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix Spike - EPA Sample No.: EX129 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| Phenol | 31000 | 0 | 22000 | 71 | 26- 90 |
| 2-Chlorophenol | 31000 | 0 | 20800 | 67 | 25-102 |
| 1,4-Dichlorobenzene | 15500 | 0 | 10300 | 66 | 28 104 |
| N-Nitroso-di-n-prop.(1) | 15500 | 0 | 11100 | 72 | 41 126 |
| 1,2,4-Trichlorobenzene | 15500 | 0 | 11700 | 75 | 38 107 |
| 4-Chloro-3-methylphenol | 31000 | 0 | 23600 | 76 | 26 103 |
| Acenaphthene | 15500 | 168 | 11000 | 70 | 31-137 |
| 4-Nitrophenol | 31000 | 0 | 26800 | 86 | 11-114 |
| 2,4-Dinitrotoluene | 15500 | 0 | 13700 | 88 | 28- 89 |
| Pentachlorophenol | 31000 | 0 | 14100 | 45 | 17-109 |
| Pyrene | 15500 | 2570 | 16100 | 87 | 35-142 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Phenol | 31000 | 22500 | 73 | -3 | 35 | 26- 90 |
| 2-Chlorophenol | 31000 | 21100 | 68 | -1 | 50 | 25-102 |
| 1,4-Dichlorobenzene | 15500 | 10300 | 66 | 0 | 27 | 28 104 |
| N-Nitroso-di-n-prop.(1) | 15500 | 10900 | 70 | 3 | 38 | 41 126 |
| 1,2,4-Trichlorobenzene | 15500 | 12200 | 79 | -5 | 23 | 38 107 |
| 4-Chloro-3-methylphenol | 31000 | 25000 | 81 | -6 | 33 | 26 103 |
| Acenaphthene | 15500 | 10900 | 69 | 1 | 19 | 31-137 |
| 4-Nitrophenol | 31000 | 27100 | 87 | -1 | 50 | 11-114 |
| 2,4-Dinitrotoluene | 15500 | 13500 | 87 | 1 | 47 | 28- 89 |
| Pentachlorophenol | 31000 | 12200 | 39 | 14 | 47 | 17-109 |
| Pyrene | 15500 | 14600 | 78 | 11 | 36 | 35-142 |

(1) N-Nitroso-di-n-propylamine

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

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: EX129
INSTRUMENT: MS-C CASE: 9614 SDG#: EX181 SAS#: 3871E

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Lab File ID: WX3BK0525 Lab Sample ID: CLPBK0525

Date Extracted: 05/25/88 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 05/26/88 Time Analyzed: 1156

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS-C

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EX028 | CLP1344 | WX7EX028 | 05/26/88 |
| 02 | EX128 | CLP1345 | WX4EX128 | 05/26/88 |
| 03 | EX128MS | CLP1345MS | WX5EX8MS | 05/26/88 |
| 04 | EX128MSD | CLP1345MSD | WX8EX8MSD | 05/26/88 |
| 05 | EX181DL | CLP1330 | XA15EX181D | 05/30/88 |
| 06 | EX182DL | CLP1331 | XA16EX182D | 05/30/88 |
| 07 | EX183DL | CLP1332 | XA13EX183D | 05/30/88 |
| 08 | EX184 | CLP1333 | WX11EX184 | 05/26/88 |
| 09 | EX185DL | CLP1134 | XA17EX185D | 05/30/88 |

COMMENTS: SBLK01
INSTRUMENT: MS-C CASE: 9614 SDG#: EX181 SAS#: 3871E

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX3BK0525

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX3BK0525

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLPBK0525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX3BK0525

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Lab File ID: XA5BK0526 Lab Sample ID: CLPBK0526

Date Extracted: 05/26/88 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 05/30/88 Time Analyzed: 0846

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: MS-C

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EX129 | CLP1346 | XA7EX129 | 05/30/88 |
| 02 | EX129MS | CLP1346MS | XA8EX29MS | 05/30/88 |
| 03 | EX129MSD | CLP1346MSD | XA9EX29MSD | 05/30/88 |
| 04 | EX130 | CLP1347 | XA10EX130 | 05/30/88 |

COMMENTS: SBLK02
INSTRUMENT: MS-C CASE: 9614 SDG#: EX181 SAS#: 3871E

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLPBK0526

Sample wt/vol: 30.0 (g/mL) G Lab File ID: XA5BK0526

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 660 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 660 | U |
| 95-57-8 | 2-Chlorophenol | 660 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 660 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 660 | U |
| 100-51-6 | Benzyl Alcohol | 660 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 660 | U |
| 95-48-7 | 2-Methylphenol | 660 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 660 | U |
| 106-44-5 | 4-Methylphenol | 660 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 660 | U |
| 67-72-1 | Hexachloroethane | 660 | U |
| 98-95-3 | Nitrobenzene | 660 | U |
| 78-59-1 | Isophorone | 660 | U |
| 88-75-5 | 2-Nitrophenol | 660 | U |
| 105-67-9 | 2,4-Dimethylphenol | 660 | U |
| 65-85-0 | Benzoic Acid | 3200 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 660 | U |
| 120-83-2 | 2,4-Dichlorophenol | 660 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660 | U |
| 91-20-3 | Naphthalene | 660 | U |
| 106-47-8 | 4-Chloroaniline | 660 | U |
| 87-68-3 | Hexachlorobutadiene | 660 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 660 | U |
| 91-57-6 | 2-Methylnaphthalene | 660 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 660 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 660 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 3200 | U |
| 91-58-7 | 2-Chloronaphthalene | 660 | U |
| 88-74-4 | 2-Nitroaniline | 3200 | U |
| 131-11-3 | Dimethyl Phthalate | 660 | U |
| 208-96-8 | Acenaphthylene | 660 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 660 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLPBK0526

Sample wt/vol: 30.0 (g/mL) G Lab File ID: XA5BK0526

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3200 | U |
| 83-32-9 | Acenaphthene | 660 | U |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | U |
| 100-02-7 | 4-Nitrophenol | 3200 | U |
| 132-64-9 | Dibenzofuran | 660 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 660 | U |
| 84-66-2 | Diethylphthalate | 660 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660 | U |
| 86-73-7 | Fluorene | 660 | U |
| 100-10-6 | 4-Nitroaniline | 3200 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 3200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 660 | U |
| 118-74-1 | Hexachlorobenzene | 660 | U |
| 87-86-5 | Pentachlorophenol | 3200 | U |
| 85-01-8 | Phenanthrene | 660 | U |
| 120-12-7 | Anthracene | 660 | U |
| 84-74-2 | Di-n-Butylphthalate | 50 | J |
| 206-44-0 | Fluoranthene | 660 | U |
| 129-00-0 | Pyrene | 660 | U |
| 85-68-7 | Butylbenzylphthalate | 660 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1300 | U |
| 56-55-3 | Benzo(a)Anthracene | 660 | U |
| 218-01-9 | Chrysene | 660 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 660 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 660 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 660 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 660 | U |
| 50-32-8 | Benzo(a)Pyrene | 660 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 660 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 660 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 660 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK02

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLPBK0526

Sample wt/vol: 30.0 (g/mL) G Lab File ID: XA5BK0526

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 2.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX028

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1344

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX7EX028

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX028

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1344

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX7EX028

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX128

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1345

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX4EX128

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX128

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1345

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX4EX128

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX129

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1346

Sample wt/vol: 30.4 (g/mL) G Lab File ID: XA7EX129

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. 57 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 2.03

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 1500 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 1500 | U |
| 95-57-8 | 2-Chlorophenol | 1500 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1500 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1500 | U |
| 100-51-6 | Benzyl Alcohol | 1500 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1500 | U |
| 95-48-7 | 2-Methylphenol | 1500 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 1500 | U |
| 106-44-5 | 4-Methylphenol | 1500 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 1500 | U |
| 67-72-1 | Hexachloroethane | 1500 | U |
| 98-95-3 | Nitrobenzene | 1500 | U |
| 78-59-1 | Isophorone | 300 | J |
| 88-75-5 | 2-Nitrophenol | 1500 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1500 | U |
| 65-85-0 | Benzoic Acid | 7400 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 1500 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1500 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1500 | U |
| 91-20-3 | Naphthalene | 490 | J |
| 106-47-8 | 4-Chloroaniline | 1500 | U |
| 87-68-3 | Hexachlorobutadiene | 1500 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 1500 | U |
| 91-57-6 | 2-Methylnaphthalene | 540 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 1500 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1500 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 7400 | U |
| 91-58-7 | 2-Chloronaphthalene | 1500 | U |
| 88-74-4 | 2-Nitroaniline | 7400 | U |
| 131-11-3 | Dimethyl Phthalate | 1500 | U |
| 208-96-8 | Acenaphthylene | 1500 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1500 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX129

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1346

Sample wt/vol: 30.4 (g/mL) G Lab File ID: XA7EX129

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. 57 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 2.03

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 7400 | U |
| 83-32-9 | Acenaphthene | 170 | J |
| 51-28-5 | 2,4-Dinitrophenol | 7400 | U |
| 100-02-7 | 4-Nitrophenol | 7400 | U |
| 132-64-9 | Dibenzofuran | 270 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 1500 | U |
| 84-66-2 | Diethylphthalate | 1500 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1500 | U |
| 86-73-7 | Fluorene | 200 | J |
| 100-10-6 | 4-Nitroaniline | 7400 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 7400 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1500 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1500 | U |
| 118-74-1 | Hexachlorobenzene | 1500 | U |
| 87-86-5 | Pentachlorophenol | 7400 | U |
| 85-01-8 | Phenanthrene | 2100 | |
| 120-12-7 | Anthracene | 370 | J |
| 84-74-2 | Di-n-Butylphthalate | 190 | BJ |
| 206-44-0 | Fluoranthene | 3000 | |
| 129-00-0 | Pyrene | 2600 | |
| 85-68-7 | Butylbenzylphthalate | 1500 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 3100 | U |
| 56-55-3 | Benzo(a)Anthracene | 1500 | J |
| 218-01-9 | Chrysene | 1400 | J |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 1600 | |
| 117-84-0 | Di-n-Octyl Phthalate | 1500 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1700 | |
| 207-08-9 | Benzo(k)Fluoranthene | 1600 | |
| 50-32-8 | Benzo(a)Pyrene | 1300 | J |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 1200 | J |
| 53-70-3 | Dibenz(a,h)Anthracene | 640 | J |
| 191-24-2 | Benzo(g,h,i)Perylene | 1200 | J |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX130

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) SOIL Lab Sample ID: CLP1347

Sample wt/vol: 30.3 (g/mL) G Lab File ID: XA10EX130

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. 24 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 2.02

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 950 | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 870 | U |
| 95-57-8 | 2-Chlorophenol | 66 | J |
| 541-73-1 | 1,3-Dichlorobenzene | 870 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 870 | U |
| 100-51-6 | Benzyl Alcohol | 870 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 870 | U |
| 95-48-7 | 2-Methylphenol | 1400 | |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 870 | U |
| 106-44-5 | 4-Methylphenol | 2000 | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 870 | U |
| 67-72-1 | Hexachloroethane | 870 | U |
| 98-95-3 | Nitrobenzene | 870 | U |
| 78-59-1 | Isophorone | 110 | J |
| 88-75-5 | 2-Nitrophenol | 870 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | |
| 65-85-0 | Benzoic Acid | 4200 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 870 | U |
| 120-83-2 | 2,4-Dichlorophenol | 870 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 870 | U |
| 91-20-3 | Naphthalene | 650 | J |
| 106-47-8 | 4-Chloroaniline | 870 | U |
| 87-68-3 | Hexachlorobutadiene | 870 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 870 | U |
| 91-57-6 | 2-Methylnaphthalene | 450 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 870 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 870 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 4200 | U |
| 91-58-7 | 2-Chloronaphthalene | 870 | U |
| 88-74-4 | 2-Nitroaniline | 4200 | U |
| 131-11-3 | Dimethyl Phthalate | 870 | U |
| 208-96-8 | Acenaphthylene | 160 | J |
| 606-20-2 | 2,6-Dinitrotoluene | 870 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX130

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) SOIL Lab Sample ID: CLP1347

Sample wt/vol: 30.3 (g/mL) G Lab File ID: XA10EX130

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. 24 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 2.02

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 4200 | U |
| 83-32-9 | Acenaphthene | 680 | J |
| 51-28-5 | 2,4-Dinitrophenol | 4200 | U |
| 100-02-7 | 4-Nitrophenol | 4200 | U |
| 132-64-9 | Dibenzofuran | 480 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 870 | U |
| 84-66-2 | Diethylphthalate | 870 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 870 | U |
| 86-73-7 | Fluorene | 790 | J |
| 100-10-6 | 4-Nitroaniline | 4200 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 4200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 870 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 870 | U |
| 118-74-1 | Hexachlorobenzene | 870 | U |
| 87-86-5 | Pentachlorophenol | 4200 | U |
| 85-01-8 | Phenanthrene | 7300 | |
| 120-12-7 | Anthracene | 1400 | |
| 84-74-2 | Di-n-Butylphthalate | 350 | BJ |
| 206-44-0 | Fluoranthene | 10000 | |
| 129-00-0 | Pyrene | 9300 | |
| 85-68-7 | Butylbenzylphthalate | 870 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1700 | U |
| 56-55-3 | Benzo(a)Anthracene | 5000 | |
| 218-01-9 | Chrysene | 4500 | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 4500 | |
| 117-84-0 | Di-n-Octyl Phthalate | 870 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 6500 | |
| 207-08-9 | Benzo(k)Fluoranthene | 3800 | |
| 50-32-8 | Benzo(a)Pyrene | 4900 | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 3600 | |
| 53-70-3 | Dibenz(a,h)Anthracene | 1200 | |
| 191-24-2 | Benzo(g,h,i)Perylene | 3700 | |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX181DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1330

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA15EX181D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 1000 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 1000 | U |
| 95-57-8 | 2-Chlorophenol | 1000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | U |
| 100-51-6 | Benzyl Alcohol | 1000 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | U |
| 95-48-7 | 2-Methylphenol | 1000 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 1000 | U |
| 106-44-5 | 4-Methylphenol | 1000 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 1000 | U |
| 67-72-1 | Hexachloroethane | 1000 | U |
| 98-95-3 | Nitrobenzene | 1000 | U |
| 78-59-1 | Isophorone | 1000 | U |
| 88-75-5 | 2-Nitrophenol | 1000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1000 | U |
| 65-85-0 | Benzoic Acid | 5000 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 1000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1000 | U |
| 91-20-3 | Naphthalene | 4300 | D |
| 106-47-8 | 4-Chloroaniline | 1000 | U |
| 87-68-3 | Hexachlorobutadiene | 1000 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 1000 | U |
| 91-57-6 | 2-Methylnaphthalene | 2400 | D |
| 77-47-4 | Hexachlorocyclopentadiene | 1000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000 | U |
| 91-58-7 | 2-Chloronaphthalene | 1000 | U |
| 88-74-4 | 2-Nitroaniline | 5000 | U |
| 131-11-3 | Dimethyl Phthalate | 1000 | U |
| 208-96-8 | Acenaphthylene | 1000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX181DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1330

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA15EX181D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000 | U |
| 83-32-9 | Acenaphthene | 63 | DJ |
| 51-28-5 | 2,4-Dinitrophenol | 5000 | U |
| 100-02-7 | 4-Nitrophenol | 5000 | U |
| 132-64-9 | Dibenzofuran | 1000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | U |
| 84-66-2 | Diethylphthalate | 1000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1000 | U |
| 86-73-7 | Fluorene | 84 | DJ |
| 100-10-6 | 4-Nitroaniline | 5000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 5000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | U |
| 118-74-1 | Hexachlorobenzene | 1000 | U |
| 87-86-5 | Pentachlorophenol | 5000 | U |
| 85-01-8 | Phenanthrene | 200 | DJ |
| 120-12-7 | Anthracene | 1000 | U |
| 84-74-2 | Di-n-Butylphthalate | 460 | DJ |
| 206-44-0 | Fluoranthene | 79 | DJ |
| 129-00-0 | Pyrene | 76 | DJ |
| 85-68-7 | Butylbenzylphthalate | 1000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U |
| 56-55-3 | Benzo(a)Anthracene | 1000 | U |
| 218-01-9 | Chrysene | 1000 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 4300 | D |
| 117-84-0 | Di-n-Octyl Phthalate | 1000 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1000 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 1000 | U |
| 50-32-8 | Benzo(a)Pyrene | 1000 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 1000 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 1000 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 1000 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX182DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1331

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA16EX182D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 31000 | D |
| 111-44-4 | bis(2-Chloroethyl)Ether | 380 | DJ |
| 95-57-8 | 2-Chlorophenol | 1000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | U |
| 100-51-6 | Benzyl Alcohol | 2300 | D |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | U |
| 95-48-7 | 2-Methylphenol | 6100 | D |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 1000 | U |
| 106-44-5 | 4-Methylphenol | 13000 | D |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 1000 | U |
| 67-72-1 | Hexachloroethane | 1000 | U |
| 98-95-3 | Nitrobenzene | 1000 | U |
| 78-59-1 | Isophorone | 28000 | D |
| 88-75-5 | 2-Nitrophenol | 1000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 3400 | D |
| 65-85-0 | Benzoic Acid | 5000 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 1000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1000 | U |
| 91-20-3 | Naphthalene | 1800 | D |
| 106-47-8 | 4-Chloroaniline | 1000 | U |
| 87-68-3 | Hexachlorobutadiene | 1000 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 1000 | U |
| 91-57-6 | 2-Methylnaphthalene | 440 | DJ |
| 77-47-4 | Hexachlorocyclopentadiene | 1000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000 | U |
| 91-58-7 | 2-Chloronaphthalene | 1000 | U |
| 88-74-4 | 2-Nitroaniline | 5000 | U |
| 131-11-3 | Dimethyl Phthalate | 840 | DJ |
| 208-96-8 | Acenaphthylene | 1000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX182DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1331

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA16EX182D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000 | U |
| 83-32-9 | Acenaphthene | 1000 | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000 | U |
| 100-02-7 | 4-Nitrophenol | 5000 | U |
| 132-64-9 | Dibenzofuran | 1000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | U |
| 84-66-2 | Diethylphthalate | 150 | DJ |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1000 | U |
| 86-73-7 | Fluorene | 1000 | U |
| 100-10-6 | 4-Nitroaniline | 5000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 5000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | U |
| 118-74-1 | Hexachlorobenzene | 1000 | U |
| 87-86-5 | Pentachlorophenol | 5000 | U |
| 85-01-8 | Phenanthrene | 1000 | U |
| 120-12-7 | Anthracene | 1000 | U |
| 84-74-2 | Di-n-Butylphthalate | 320 | DJ |
| 206-44-0 | Fluoranthene | 1000 | U |
| 129-00-0 | Pyrene | 1000 | U |
| 85-68-7 | Butylbenzylphthalate | 1000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U |
| 56-55-3 | Benzo(a)Anthracene | 1000 | U |
| 218-01-9 | Chrysene | 1000 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 1000 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 1000 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1000 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 1000 | U |
| 50-32-8 | Benzo(a)Pyrene | 1000 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 1000 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 1000 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 1000 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX183DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1332

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA13EX183D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 13000 | D |
| 111-44-4 | bis(2-Chloroethyl)Ether | 220 | DJ |
| 95-57-8 | 2-Chlorophenol | 1000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | U |
| 100-51-6 | Benzyl Alcohol | 220 | DJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | U |
| 95-48-7 | 2-Methylphenol | 2200 | D |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 1000 | U |
| 106-44-5 | 4-Methylphenol | 4800 | D |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 1000 | U |
| 67-72-1 | Hexachloroethane | 1000 | U |
| 98-95-3 | Nitrobenzene | 1000 | U |
| 78-59-1 | Isophorone | 1000 | U |
| 88-75-5 | 2-Nitrophenol | 1000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1400 | D |
| 65-85-0 | Benzoic Acid | 5000 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 1000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1000 | U |
| 91-20-3 | Naphthalene | 330 | DJ |
| 106-47-8 | 4-Chloroaniline | 1000 | U |
| 87-68-3 | Hexachlorobutadiene | 1000 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 1000 | U |
| 91-57-6 | 2-Methylnaphthalene | 26 | DJ |
| 77-47-4 | Hexachlorocyclopentadiene | 1000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000 | U |
| 91-58-7 | 2-Chloronaphthalene | 1000 | U |
| 88-74-4 | 2-Nitroaniline | 5000 | U |
| 131-11-3 | Dimethyl Phthalate | 1000 | U |
| 208-96-8 | Acenaphthylene | 1000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX183DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1332

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA13EX183D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000 | U |
| 83-32-9 | Acenaphthene | 1000 | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000 | U |
| 100-02-7 | 4-Nitrophenol | 5000 | U |
| 132-64-9 | Dibenzofuran | 1000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | U |
| 84-66-2 | Diethylphthalate | 1000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1000 | U |
| 86-73-7 | Fluorene | 1000 | U |
| 100-10-6 | 4-Nitroaniline | 5000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 5000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | U |
| 118-74-1 | Hexachlorobenzene | 1000 | U |
| 87-86-5 | Pentachlorophenol | 5000 | U |
| 85-01-8 | Phenanthrene | 1000 | U |
| 120-12-7 | Anthracene | 1000 | U |
| 84-74-2 | Di-n-Butylphthalate | 1000 | U |
| 206-44-0 | Fluoranthene | 1000 | U |
| 129-00-0 | Pyrene | 1000 | U |
| 85-68-7 | Butylbenzylphthalate | 1000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U |
| 56-55-3 | Benzo(a)Anthracene | 1000 | U |
| 218-01-9 | Chrysene | 1000 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 1000 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 1000 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1000 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 1000 | U |
| 50-32-8 | Benzo(a)Pyrene | 1000 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 1000 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 1000 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 1000 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX184

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1333

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX11EX184

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 36 | |
| 65-85-0 | Benzoic Acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 180 | |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 28 | |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX184

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1333

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX11EX184

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 0.8 | J |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 2 | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 0.6 | J |
| 100-10-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 0.9 | J |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 8 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 11 | |
| 117-84-0 | Di-n-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX185DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1134

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA17EX185D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 12000 | D |
| 111-44-4 | bis(2-Chloroethyl)Ether | 220 | DJ |
| 95-57-8 | 2-Chlorophenol | 86 | DJ |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | U |
| 100-51-6 | Benzyl Alcohol | 210 | DJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | U |
| 95-48-7 | 2-Methylphenol | 2100 | D |
| 39638-32-9 | bis(2-Chloroisopropyl)Ether | 1000 | U |
| 106-44-5 | 4-Methylphenol | 4600 | D |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 1000 | U |
| 67-72-1 | Hexachloroethane | 1000 | U |
| 98-95-3 | Nitrobenzene | 1000 | U |
| 78-59-1 | Isophorone | 230 | DJ |
| 88-75-5 | 2-Nitrophenol | 1000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1400 | D |
| 65-85-0 | Benzoic Acid | 5000 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 1000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1000 | U |
| 91-20-3 | Naphthalene | 350 | DJ |
| 106-47-8 | 4-Chloroaniline | 1000 | U |
| 87-68-3 | Hexachlorobutadiene | 1000 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 1000 | U |
| 91-57-6 | 2-Methylnaphthalene | 20 | DJ |
| 77-47-4 | Hexachlorocyclopentadiene | 1000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000 | U |
| 91-58-7 | 2-Chloronaphthalene | 1000 | U |
| 88-74-4 | 2-Nitroaniline | 5000 | U |
| 131-11-3 | Dimethyl Phthalate | 1000 | U |
| 208-96-8 | Acenaphthylene | 1000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX185DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1134

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA17EX185D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000 | U |
| 83-32-9 | Acenaphthene | 1000 | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000 | U |
| 100-02-7 | 4-Nitrophenol | 5000 | U |
| 132-64-9 | Dibenzofuran | 1000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | U |
| 84-66-2 | Diethylphthalate | 1000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1000 | U |
| 86-73-7 | Fluorene | 1000 | U |
| 100-10-6 | 4-Nitroaniline | 5000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 5000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | U |
| 118-74-1 | Hexachlorobenzene | 1000 | U |
| 87-86-5 | Pentachlorophenol | 5000 | U |
| 85-01-8 | Phenanthrene | 1000 | U |
| 120-12-7 | Anthracene | 1000 | U |
| 84-74-2 | Di-n-Butylphthalate | 1000 | U |
| 206-44-0 | Fluoranthene | 1000 | U |
| 129-00-0 | Pyrene | 1000 | U |
| 85-68-7 | Butylbenzylphthalate | 1000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U |
| 56-55-3 | Benzo(a)Anthracene | 1000 | U |
| 218-01-9 | Chrysene | 1000 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 1000 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 1000 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1000 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 1000 | U |
| 50-32-8 | Benzo(a)Pyrene | 1000 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 1000 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 1000 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 1000 | U |

(1) - Cannot be separated from Diphenylamine

DE
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

| | EPA SAMPLE NO. | S1 (DBC)# | OTHER |
|---|---|---|---|
| 01 | EX028 | 135 * | 0 |
| 02 | EX129 | 364 * | 0 |
| 03 | EX181 | 999 * | 0 |
| 04 | EX182 | 999 * | 0 |
| 05 | EX183 | 149 | 0 |
| 06 | EX184 | 313 * | 0 |
| 07 | EX185 | 761 * | 0 |
| 08 | EX184MS | 187 * | 0 |
| 09 | EX184MSD | 292 * | 0 |
| 10 | PBLK | 244 * | 0 |

ADVISORY
QC LIMITS
S1 (DBC) = Dibutlychlorendate ( 24-154)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

DF

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Level: (low/med) LOW

| | EPA SAMPLE NO. | S1 (DBC) # | OTHER |
|---|---|---|---|
| 01 | EX129 | 88 | 0 |
| 02 | EX130 | 109 | 0 |
| 03 | EX129MS | 199 * | 0 |
| 04 | EX129MSD | 306 * | 0 |
| 05 | PBLK | 244 * | 0 |

ADVISORY QC LIMITS

S1 (DBC) = Dibutlychlorendate ( 20-150)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

WATER PESTICIDE MATRIX SPIKE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ORTACHEM INC. Contract: [illegible]

Lab Code: ORTAC Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix Spike - EPA Sample No.: [illegible]

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.200 | 0 | 0.141 | 71 | 56-123 |
| Heptachlor | 0.200 | 0 | 0.172 | 86 | 40-131 |
| Aldrin | 0.200 | 0 | 0.162 | 81 | 40-120 |
| Dieldrin | 0.500 | 0 | 0.402 | 80 | 52-126 |
| Endrin | 0.500 | 0 | 0.571 | 114 | 56-121 |
| 4,4'-DDT | 0.500 | 0 | 1.31 | 262 * | 38-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.200 | 0.143 | 72 | -1 | 15 | 56-123 |
| Heptachlor | 0.200 | 0.193 | 97 | -12 | 20 | 40-131 |
| Aldrin | 0.200 | 0.250 | 125 * | -43 * | 22 | 40-120 |
| Dieldrin | 0.500 | 0.481 | 96 | -18 | 18 | 52-126 |
| Endrin | 0.500 | 0.518 | 104 | 10 | 21 | 56-121 |
| 4,4'-DDT | 0.500 | 0.711 | 142 * | 59 * | 27 | 38-127 |

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

* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 3 out of 12 outside limits

COMMENTS:

IV

SOIL PESTICIDE MATRIX SPIKE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix Spike - EPA Sample No.: [illegible] Level: (low/med) [illegible]

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 125 | 0 | 98.0 | 78 | 46-127 |
| Heptachlor | 125 | 0 | 123 | 98 | 35-130 |
| Aldrin | 125 | 0 | 127 | 102 | 34-132 |
| Dieldrin | 312 | 134 | 353 | 70 | 31-134 |
| Endrin | 312 | 0 | 431 | 138 | 42-139 |
| 4,4'-DDT | 312 | 0 | 556 | 178 * | 23-134 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 125 | 110 | 88 | -12 | 50 | 46-127 |
| Heptachlor | 125 | 131 | 105 | -6 | 31 | 35-130 |
| Aldrin | 125 | 145 | 116 | -13 | 43 | 34-132 |
| Dieldrin | 312 | 371 | 76 | -8 | 38 | 31-134 |
| Endrin | 312 | 440 | 141 * | -2 | 45 | 42-139 |
| 4,4'-DDT | 312 | 559 | 179 * | -1 | 50 | 23-134 |

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 3 out of 12 outside limits

COMMENTS:

# VOLATILE METHOD BLANK SUMMARY

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: EX101

Lab Sample ID: BLANK Lab File ID: _____

Matrix: (soil/water) WATER Level: (low/med) LOW

Date Extracted: [illegible] Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 05/31/88 Date Analyzed (2): 06/02/88

Time Analyzed (1): 1722 Time Analyzed (2): 0057

Instrument ID (1): EC-3 Instrument ID (2): EC-3

GC Column ID (1): MIX GC Column ID (2): OV-101

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EX028 | CLP1344 | 05/31/88 | 06/02/88 |
| 02 | EX128 | CLP1345 | 05/31/88 | |
| 03 | EX181 | CLP1330 | 06/01/88 | 06/02/88 |
| 04 | EX182 | CLP1331 | 06/01/88 | 06/02/88 |
| 05 | EX183 | CLP1332 | 06/01/88 | |
| 06 | EX184 | CLP1333 | 06/01/88 | 06/02/88 |
| 07 | EX184MS | CLP1333MS | 06/01/88 | 06/02/88 |
| 08 | EX184MSD | CLP1333MSD | 06/01/88 | 06/02/88 |
| 09 | EX185 | CLP1334 | 06/01/88 | 06/02/88 |

COMMENTS:

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX028

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1344

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX7EX028

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

[illegible]

Lab Name: DATACHEM INC. Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Lab Sample ID: [illegible] Lab File ID: _____

Matrix: soil/water: SOIL Level: (low/med): LOW

Date Extracted: [illegible] Extraction: (SepF/Cont Sonc): [illegible]

Date Analyzed (1): 05/31/88 Date Analyzed (2): 06/02/88

Time Analyzed (1): 1654 Time Analyzed (2): 0038

Instrument ID (1): EC-3 Instrument ID (2): EC-3

GC Column ID (1): MIX GC Column ID (2): OV-101

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EX129 | CLP1346 | 05/31/88 | 06/02/88 |
| 02 | EX129MS | CLP1346MS | 05/31/88 | 06/02/88 |
| 03 | EX129MSD | CLP1346MSD | 05/31/88 | 06/02/88 |
| 04 | EX130 | CLP1347 | 05/31/88 | 06/02/88 |

COMMENTS:

II

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: (soil/water) SOIL Lab Sample ID: PLANT1

Sample wt/vol: [illegible] (g/mL) G Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. [illegible] dec. [illegible] Date Extracted: 05/24/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/31/88

GPC Cleanup: (Y/N) Y pH: 5.0 Dilution Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 16 | U |
| 319-85-7 | beta-BHC | 16 | U |
| 319-86-8 | delta-BHC | 16 | U |
| 58-89-9 | gamma-BHC (Lindane) | 16 | U |
| 76-44-8 | Heptachlor | 16 | U |
| 309-00-2 | Aldrin | 16 | U |
| 1024-57-3 | Heptachlor epoxide | 16 | U |
| 959-98-8 | Endosulfan I | 16 | U |
| 60-57-1 | Dieldrin | 32 | U |
| 72-55-9 | 4,4'-DDE | 32 | U |
| 72-20-8 | Endrin | 32 | U |
| 33213-65-9 | Endosulfan II | 32 | U |
| 72-54-8 | 4,4'-DDD | 32 | U |
| 1031-07-8 | Endosulfan sulfate | 32 | U |
| 50-29-3 | 4,4'-DDT | 32 | U |
| 72-43-5 | Methoxychlor | 160 | U |
| 53494-70-5 | Endrin ketone | 32 | U |
| 5103-71-9 | alpha-Chlordane | 160 | U |
| 5103-74-2 | gamma-Chlordane | 160 | U |
| 8001-35-2 | Toxaphene | 320 | U |
| 12674-11-2 | Aroclor-1016 | 160 | U |
| 11104-28-2 | Aroclor-1221 | 160 | U |
| 11141-16-5 | Aroclor-1232 | 160 | U |
| 53469-21-9 | Aroclor-1242 | 160 | U |
| 12672-29-6 | Aroclor-1248 | 160 | U |
| 11097-69-1 | Aroclor-1254 | 320 | U |
| 11096-82-5 | Aroclor-1260 | 320 | U |

[illegible] ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX028

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: (Soil/Sediment) WATER Lab Sample ID: [illegible]

Sample wt/vol: [illegible] (g/mL) ML Lab File ID: [illegible]

Level: (Low/Med) LOW Date Received: [illegible]

% Moisture: not dec. [illegible] dec. [illegible] Date Extracted: [illegible]

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: [illegible]

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

EPA SAMPLE

EX128

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: [illegible] (g/ml) ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/15/[illegible]

Extraction: (Sep/Cont/Sonc) SEPF Date Analyzed: 05/31/[illegible]

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EX 129

Lab Name: DATACHEM INC. Contract: [illegible]

Lab Code: DATAC Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: Soil/water SOIL Lab Sample ID: [illegible]

Sample wt/vol [illegible] (g/mL) [illegible] Lab File ID: [illegible]

Level: (low med) LOW Date Received: 05/30/[illegible]

% Moisture: not dec. 57 dec. ____ Date Extracted: 05/[illegible]

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/31/[illegible]

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 37 | U |
| 319-85-7 | beta-BHC | 37 | U |
| 319-86-8 | delta-BHC | 37 | U |
| 58-89-9 | gamma-BHC (Lindane) | 37 | U |
| 76-44-8 | Heptachlor | 37 | U |
| 309-00-2 | Aldrin | 37 | U |
| 1024-57-3 | Heptachlor epoxide | 37 | U |
| 959-98-8 | Endosulfan I | 37 | U |
| 60-57-1 | Dieldrin | 130 | |
| 72-55-9 | 4,4'-DDE | 74 | U |
| 72-20-8 | Endrin | 74 | U |
| 33213-65-9 | Endosulfan II | 74 | U |
| 72-54-8 | 4,4'-DDD | 74 | U |
| 1031-07-8 | Endosulfan sulfate | 74 | U |
| 50-29-3 | 4,4'-DDT | 74 | U |
| 72-43-5 | Methoxychlor | 370 | U |
| 53494-70-5 | Endrin ketone | 31 | J |
| 5103-71-9 | alpha-Chlordane | 370 | U |
| 5103-74-2 | gamma-Chlordane | 180 | J |
| 8001-35-2 | Toxaphene | 740 | U |
| 12674-11-2 | Aroclor-1016 | 370 | U |
| 11104-28-2 | Aroclor-1221 | 370 | U |
| 11141-16-5 | Aroclor-1232 | 370 | U |
| 53469-21-9 | Aroclor-1242 | 4000 | |
| 12672-29-6 | Aroclor-1248 | 370 | U |
| 11097-69-1 | Aroclor-1254 | 33000 | |
| 11096-82-5 | Aroclor-1260 | 740 | U |

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX130

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: 961[illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: (soil water) SOIL Lab Sample ID: [illegible]

Sample wt vol. [illegible] g/mL [illegible] Lab File ID: _____

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. [illegible] dec. ____ Date Extracted: [illegible]

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/31/88

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 21 | U |
| 319-85-7 | beta-BHC | 21 | U |
| 319-86-8 | delta-BHC | 21 | U |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U |
| 76-44-8 | Heptachlor | 21 | U |
| 309-00-2 | Aldrin | 21 | U |
| 1024-57-3 | Heptachlor epoxide | 21 | U |
| 959-98-8 | Endosulfan I | 21 | U |
| 60-57-1 | Dieldrin | 67 | |
| 72-55-9 | 4,4'-DDE | 42 | U |
| 72-20-8 | Endrin | 42 | U |
| 33213-65-9 | Endosulfan II | 42 | U |
| 72-54-8 | 4,4'-DDD | 42 | U |
| 1031-07-8 | Endosulfan sulfate | 42 | U |
| 50-29-3 | 4,4'-DDT | 300 | |
| 72-43-5 | Methoxychlor | 210 | U |
| 53494-70-5 | Endrin ketone | 42 | U |
| 5103-71-9 | alpha-Chlordane | 210 | U |
| 5103-74-2 | gamma-Chlordane | 110 | J |
| 8001-35-2 | Toxaphene | 420 | U |
| 12674-11-2 | Aroclor-1016 | 210 | U |
| 11104-28-2 | Aroclor-1221 | 210 | U |
| 11141-16-5 | Aroclor-1232 | 210 | U |
| 53469-21-9 | Aroclor-1242 | 2700 | |
| 12672-29-6 | Aroclor-1248 | 210 | U |
| 11097-69-1 | Aroclor-1254 | 2500 | |
| 11096-82-5 | Aroclor-1260 | 420 | U |

[illegible]

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EX181

Lab Name: [illegible]

Lab Code: [illegible]

Matrix: [illegible] WATER

Lab Sample ID: [illegible]

Sample wt/vol: [illegible] ML

Lab File ID: [illegible]

Level: (low/med) LOW

Date Received: 05/19/[illegible]

% Moisture: not dec. ____ dec. ____

Date Extracted: 05/25/[illegible]

Extraction: (Sep/Cont/Sonc) SEPF

Date Analyzed: 06/01/[illegible]

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 200

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 10 | U |
| 319-85-7 | beta-BHC | 10 | U |
| 319-86-8 | delta-BHC | 10 | U |
| 58-89-9 | gamma-BHC (Lindane) | 10 | U |
| 76-44-8 | Heptachlor | 10 | U |
| 309-00-2 | Aldrin | 10 | U |
| 1024-57-3 | Heptachlor epoxide | 120 | |
| 959-98-8 | Endosulfan I | 10 | U |
| 60-57-1 | Dieldrin | 20 | U |
| 72-55-9 | 4,4'-DDE | 20 | U |
| 72-20-8 | Endrin | 20 | U |
| 33213-65-9 | Endosulfan II | 20 | U |
| 72-54-8 | 4,4'-DDD | 20 | U |
| 1031-07-8 | Endosulfan sulfate | 20 | U |
| 50-29-3 | 4,4'-DDT | 20 | U |
| 72-43-5 | Methoxychlor | 100 | U |
| 53494-70-5 | Endrin ketone | 20 | U |
| 5103-71-9 | alpha-Chlordane | 100 | U |
| 5103-74-2 | gamma-Chlordane | 100 | U |
| 8001-35-2 | Toxaphene | 200 | U |
| 12674-11-2 | Aroclor-1016 | 100 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 100 | U |
| 53469-21-9 | Aroclor-1242 | 13 | J |
| 12672-29-6 | Aroclor-1248 | 100 | U |
| 11097-69-1 | Aroclor-1254 | 8.8 | J |
| 11096-82-5 | Aroclor-1260 | 200 | U |

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EX182 Ex 182

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] Analysis: 387[illegible]

Matrix: Soil Water WATER Lab Sample ID: [illegible]

Sample wt/vol: [illegible] g/mL ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 05/19/[illegible]

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/[illegible]

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/01/88

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 200

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 10 | U |
| 319-85-7 | beta-BHC | 10 | U |
| 319-86-8 | delta-BHC | 10 | U |
| 58-89-9 | gamma-BHC (Lindane) | 10 | U |
| 76-44-8 | Heptachlor | 10 | U |
| 309-00-2 | Aldrin | 10 | U |
| 1024-57-3 | Heptachlor epoxide | 10 | U |
| 959-98-8 | Endosulfan I | 10 | U |
| 60-57-1 | Dieldrin | 20 | U |
| 72-55-9 | 4,4'-DDE | 20 | U |
| 72-20-8 | Endrin | 20 | U |
| 33213-65-9 | Endosulfan II | 20 | U |
| 72-54-8 | 4,4'-DDD | 20 | U |
| 1031-07-8 | Endosulfan sulfate | 20 | U |
| 50-29-3 | 4,4'-DDT | 20 | U |
| 72-43-5 | Methoxychlor | 100 | U |
| 53494-70-5 | Endrin ketone | 20 | U |
| 5103-71-9 | alpha-Chlordane | 100 | U |
| 5103-74-2 | gamma-Chlordane | 100 | U |
| 8001-35-2 | Toxaphene | 200 | U |
| 12674-11-2 | Aroclor-1016 | 100 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 100 | U |
| 53469-21-9 | Aroclor-1242 | 100 | U |
| 12672-29-6 | Aroclor-1248 | 100 | U |
| 11097-69-1 | Aroclor-1254 | 200 | U |
| 11096-82-5 | Aroclor-1260 | 200 | U |

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX183

Lab Name: ECOCHEM INC. Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: [illegible] (g/ml) ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/[illegible]

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/01/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.50 | U |
| 319-85-7 | beta-BHC | 0.50 | U |
| 319-86-8 | delta-BHC | 0.50 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U |
| 76-44-8 | Heptachlor | 0.50 | U |
| 309-00-2 | Aldrin | 0.50 | U |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U |
| 959-98-8 | Endosulfan I | 0.50 | U |
| 60-57-1 | Dieldrin | 1.0 | U |
| 72-55-9 | 4,4'-DDE | 1.0 | U |
| 72-20-8 | Endrin | 1.0 | U |
| 33213-65-9 | Endosulfan II | 1.0 | U |
| 72-54-8 | 4,4'-DDD | 1.0 | U |
| 1031-07-8 | Endosulfan sulfate | 1.0 | U |
| 50-29-3 | 4,4'-DDT | 1.0 | U |
| 72-43-5 | Methoxychlor | 5.0 | U |
| 53494-70-5 | Endrin ketone | 1.0 | U |
| 5103-71-9 | alpha-Chlordane | 5.0 | U |
| 5103-74-2 | gamma-Chlordane | 5.0 | U |
| 8001-35-2 | Toxaphene | 10 | U |
| 12674-11-2 | Aroclor-1016 | 5.0 | U |
| 11104-28-2 | Aroclor-1221 | 5.0 | U |
| 11141-16-5 | Aroclor-1232 | 5.0 | U |
| 53469-21-9 | Aroclor-1242 | 5.0 | U |
| 12672-29-6 | Aroclor-1248 | 5.0 | U |
| 11097-69-1 | Aroclor-1254 | 10 | U |
| 11096-82-5 | Aroclor-1260 | 10 | U |

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Ex184

Lab Name: DATACHEM INC. Contract: [illegible]

Lab Code: DATAC Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: [illegible] (g/mL) ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. ____ dec. ____ Date Extracted: [illegible]

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: [illegible]

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.20 | |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 3.2 | |

[illegible] ANALYSIS [illegible]

[illegible] EX185

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: [illegible]

Matrix: [illegible] water [illegible] Lab Sample ID: [illegible]

Sample Wt/Vol: [illegible] g/mL ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. ____ dec. ____ Date Extracted: 05 15 [illegible]

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/01/88

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 10

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.50 | U |
| 319-85-7 | beta-BHC | 0.50 | U |
| 319-86-8 | delta-BHC | 0.50 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.50 | U |
| 76-44-8 | Heptachlor | 0.50 | U |
| 309-00-2 | Aldrin | 0.50 | U |
| 1024-57-3 | Heptachlor epoxide | 0.50 | U |
| 959-98-8 | Endosulfan I | 0.74 | |
| 60-57-1 | Dieldrin | 1.0 | U |
| 72-55-9 | 4,4'-DDE | 1.0 | U |
| 72-20-8 | Endrin | 1.0 | U |
| 33213-65-9 | Endosulfan II | 1.0 | U |
| 72-54-8 | 4,4'-DDD | 1.0 | U |
| 1031-07-8 | Endosulfan sulfate | 1.0 | U |
| 50-29-3 | 4,4'-DDT | 1.0 | U |
| 72-43-5 | Methoxychlor | 5.0 | U |
| 53494-70-5 | Endrin ketone | 1.0 | U |
| 5103-71-9 | alpha-Chlordane | 5.0 | U |
| 5103-74-2 | gamma-Chlordane | 5.0 | U |
| 8001-35-2 | Toxaphene | 14 | |
| 12674-11-2 | Aroclor-1016 | 5.0 | U |
| 11104-28-2 | Aroclor-1221 | 5.0 | U |
| 11141-16-5 | Aroclor-1232 | 5.0 | U |
| 53469-21-9 | Aroclor-1242 | 5.0 | U |
| 12672-29-6 | Aroclor-1248 | 5.0 | U |
| 11097-69-1 | Aroclor-1254 | 10 | U |
| 11096-82-5 | Aroclor-1260 | 10 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX028

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1344

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH59EX028

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX128

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1345

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH60EX128

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX129

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1346

Sample wt/vol: 5.0 (g/mL) G Lab File ID: DJ25EX129

Level: (low/med) LOW Date Received: 05/26/88

% Moisture: not dec. 57 Date Analyzed: 05/27/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX130

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1347

Sample wt/vol: 5.0 (g/mL) G Lab File ID: DJ28EX130

Level: (low/med) LOW Date Received: 05/26/88

% Moisture: not dec. 24 Date Analyzed: 05/27/88

Column (pack/cap) PACK Dilution Factor: 5.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | C7-ALCOHOL | 19.55 | 54 | J |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX181

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1330

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH81EX181

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column (pack/cap) PACK Dilution Factor: 100

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 109-99-9 | TETRAHYDROFURAN | 8.85 | 460 | J |
| 2. 60-29-7 | ETHYL-ETHER | 10.00 | 550 | J |
| 3. 4359-46-0 | 2ETHYL-4METHYL-1,3-DIOXOLANE | 19.50 | 170 | J |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX182

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1331

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH55EX182

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/20/88

Column (pack/cap) PACK Dilution Factor: 2000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX183

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1332

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DI10EX183

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ Date Analyzed: 05/23/88

Column (pack/cap) PACK Dilution Factor: 600

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | C3-ALCOHOL | 6.90 | 3700 | J |
| 2. 109-99-9 | TETRAHYDROFURAN | 8.90 | 1900 | J |
| 3. 60-29-7 | ETHYL-ETHER | 10.10 | 2800 | J |
| 4. | C4-OXYHYDROCARBON | 11.55 | 7200 | J |
| 5. | C7-ALCOHOL | 19.50 | 11000 | J |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX184

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1333

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH83EX184

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column (pack/cap) PACK Dilution Factor: 100

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX185

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1334

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: DH85EX185

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ Date Analyzed: 05/21/88

Column (pack/cap) PACK Dilution Factor: 600

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | C3-ALCOHOL | 6.80 | 6600 | J |
| 2. 109-99-9 | TETRAHYDROFURAN | 8.85 | 2200 | J |
| 3. 60-29-7 | ETHYL ETHER | 10.00 | 3000 | J |
| 4. | C4-OXYHYDROCARBON | 11.50 | 14000 | J |
| 5. | C7-ALCOHOL | 19.45 | 18000 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX185DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1134

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA17EX185D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 24070-77-7 | 2-METHYLCYCLOPENTANOL | 7.83 | 20000 | J |
| 2. 109-52-4 | PENTANOIC ACID | 8.28 | 18000 | J |
| 3. UNKNOWN | OXYHYDROCARBON | 8.39 | 1100 | J |
| 4. 107-41-5 | 2-METHYL-2,4-PENTANEDIOL | 8.72 | 2500 | J |
| 5. UNKNOWN | OXYHYDROCARBON | 9.07 | 980 | J |
| 6. UNKNOWN | OXYHYDROCARBON | 9.24 | 2100 | J |
| 7. UNKNOWN | C9 KETOHYDROCARBON | 9.90 | 890 | J |
| 8. 142-62-1 | HEXANOIC ACID | 10.52 | 22000 | J |
| 9. 113-18-8 | 1CHLORO3ETHYL1PENTEN4YN3OL | 10.60 | 2600 | J |
| 10. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.40 | 17000 | J |
| 11. UNKNOWN | CYCLOHYDROCARBON | 11.44 | 9300 | J |
| 12. 116-02-9 | 3,3,5-TRIMETHYLCYCLOHEXANOL | 11.62 | 24000 | J |
| 13. 111-14-8 | HEPTANOIC ACID | 11.97 | 8700 | J |
| 14. 617-94-7 | DIMETHYLBENZENEMETHANOL | 12.25 | 6300 | J |
| 15. 149-57-5 | 2-ETHYLHEXANOIC ACID | 12.87 | 7800 | J |
| 16. UNKNOWN | DIMETHYLPHENOL | 13.64 | 1600 | J |
| 17. 124-07-2 | OCTANOIC ACID | 13.74 | 12000 | J |
| 18. 98-55-5 | ALPHA TERPINEOL | 14.17 | 2000 | J |
| 19. UNKNOWN | OXYCYCLOHYDROCARBON | 15.62 | 1600 | J |
| 20. UNKNOWN | PNA | 31.07 | 1100 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX128

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1345

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX4EX128

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | CYCLOHYDROCARBON | 30.72 | 17 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX130

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX167

Matrix: (soil/water) SOIL Lab Sample ID: CLP1347

Sample wt/vol: 30.3 (g/mL) G Lab File ID: XA10EX130

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. 24 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 2.02

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.40 | 6500 | J |
| 2. 116-02-9 | 3,3,5-TRIMETHYLCYCLOHEXANOL | 11.62 | 5700 | J |
| 3. UNKNOWN | CYCLOKETOHYDROCARBON | 15.65 | 1600 | J |
| 4. 629-78-7 | HEPTADECANE | 21.17 | 1500 | J |
| 5. UNKNOWN | PNA | 27.32 | 2000 | J |
| 6. UNKNOWN | PNA | 28.81 | 1000 | J |
| 7. UNKNOWN | PNA | 30.04 | 1900 | J |
| 8. UNKNOWN | POLYCYCLOHYDROCARBON | 30.26 | 2300 | J |
| 9. UNKNOWN | PNA | 30.56 | 1500 | J |
| 10. UNKNOWN | POLYCYCLOHYDROCARBON | 30.71 | 1200 | J |
| 11. UNKNOWN | POLYCYCLOHYDROCARBON | 32.96 | 1500 | J |
| 12. UNKNOWN | POLYCYCLOHYDROCARBON | 33.54 | 780 | J |
| 13. UNKNOWN | PNA | 33.84 | 2400 | J |
| 14. UNKNOWN | PNA | 34.39 | 1300 | J |
| 15. UNKNOWN | HYDROCARBON | 34.47 | 800 | J |
| 16. UNKNOWN | POLYCYCLOHYDROCARBON | 35.61 | 880 | J |
| 17. UNKNOWN | POLYCYCLOHYDROCARBON | 35.94 | 1000 | J |
| 18. UNKNOWN | POLYCYCLOHYDROCARBON | 36.36 | 3000 | J |
| 19. UNKNOWN | HYDROCARBON | 38.77 | 7600 | J |
| 20. UNKNOWN | POLYCYCLOHYDROCARBON | 39.07 | 2000 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX129

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) SOIL Lab Sample ID: CLP1346

Sample wt/vol: 30.4 (g/mL) G Lab File ID: XA7EX129

Level: (low/med) LOW Date Received: 05/20/88

% Moisture: not dec. 57 dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 2.03

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.37 | 1900 | J |
| 2. UNKNOWN | HYDROCARBON | 18.07 | 1200 | J |
| 3. UNKNOWN | C17 BRANCHED ALKANE | 20.49 | 1200 | J |
| 4. UNKNOWN | C17 BRANCHED ALKANE | 21.09 | 1300 | J |
| 5. 629-78-7 | HEPTADECANE | 21.17 | 2500 | J |
| 6. 630-03-5 | NONADECANE | 23.35 | 1200 | J |
| 7. UNKNOWN | METHYLATED PNA | 24.12 | 1000 | J |
| 8. 629-94-7 | HENEICOSANE | 25.41 | 990 | J |
| 9. 638-67-5 | TRICOSANE | 27.31 | 1500 | J |
| 10. 646-31-1 | TETRACOSANE | 28.21 | 1100 | J |
| 11. 629-99-2 | PENTACOSANE | 29.09 | 1300 | J |
| 12. 630-01-3 | HEXACOSANE | 29.94 | 1000 | J |
| 13. UNKNOWN | PNA | 30.02 | 1100 | J |
| 14. UNKNOWN | POLYCYCLOHYDROCARBON | 30.24 | 1300 | J |
| 15. UNKNOWN | METHYLATED PNA | 30.54 | 880 | J |
| 16. 593-49-7 | HEPTACOSANE | 30.91 | 1400 | J |
| 17. UNKNOWN | PNA | 33.79 | 1000 | J |
| 18. UNKNOWN | POLYCYCLOHYDROCARBON | 37.21 | 1500 | J |
| 19. UNKNOWN | POLYCYCLOHYDROCARBON | 41.49 | 8900 | J |
| 20. UNKNOWN | POLYCYCLOHYDROCARBON | 42.23 | 1700 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX181DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1330

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA15EX181D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | ETHYLMETHYLBENZENE | 9.75 | 9400 | J |
| 2. UNKNOWN | C11 HYDROCARBON | 9.79 | 5600 | J |
| 3. UNKNOWN | TRIMETHYLBENZENE | 9.92 | 6200 | J |
| 4. UNKNOWN | TRIMETHYLBENZENE | 10.45 | 12000 | J |
| 5. UNKNOWN | C11 BRANCHED ALKANE | 11.02 | 6200 | J |
| 6. UNKNOWN | TRIMETHYLBENZENE | 11.09 | 8300 | J |
| 7. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.39 | 16000 | J |
| 8. 116-0209 | 3,3,5-TRIMETHYLCYCLOHEXANOL | 11.62 | 13000 | J |
| 9. UNKNOWN | C11 BRANCHED ALKANE | 11.69 | 8500 | J |
| 10. UNKNOWN | ALKYL BENZENE | 11.75 | 7900 | J |
| 11. UNKNOWN | C11 BRANCHED ALKANE | 11.82 | 6600 | J |
| 12. 54986-44-6 | 1,3,3-TRIMETHYLNONYLBENZENE | 11.95 | 5200 | J |
| 13. UNKNOWN | ETHYLDIMETHYLBENZENE | 12.12 | 7000 | J |
| 14. UNKNOWN | ETHYLDIMETHYLBENZENE | 12.29 | 9600 | J |
| 15. 1120-21-4 | UNDECANE | 12.47 | 5000 | J |
| 16. UNKNOWN | TETRAMETHYLBENZENE | 12.89 | 7000 | J |
| 17. UNKNOWN | TETRAMETHYLBENZENE | 12.94 | 9800 | J |
| 18. UNKNOWN | ALKYL BENZENE | 13.32 | 4900 | J |
| 19. UNKNOWN | TETRAMETHYLBENZENE | 13.54 | 13000 | J |
| 20. UNKNOWN | C12 BRANCHED ALKANE | 13.72 | 3400 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX182DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1331

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA16EX182D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 24070-77-7 | 2-METHYLCYCLOPENTANOL | 7.97 | 27000 | J |
| 2. UNKNOWN | CYCLOHYDROCARBON | 8.18 | 19000 | J |
| 3. UNKNOWN | HYDROCARBON MIXTURE | 8.69 | 310000 | J |
| 4. 107-41-5 | 2-METHYL-2,4-PENTANEDIOL | 8.92 | 11000 | J |
| 5. UNKNOWN | CYCLOHYDROCARBON | 9.95 | 2400 | J |
| 6. UNKNOWN | CYCLOHYDROCARBON | 10.65 | 5300 | J |
| 7. 142-62-1 | HEXANOIC ACID | 10.75 | 19000 | J |
| 8. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.44 | 42000 | J |
| 9. 116-02-9 | 3,3,5-TRIMETHYLCYCLOHEXANOL | 11.65 | 21000 | J |
| 10. UNKNOWN | CYCLOHYDROCARBON | 12.12 | 2600 | J |
| 11. 617-94-7 | DIMETHYLBENZENEMETHANOL | 12.27 | 7300 | J |
| 12. 1120-21-4 | UNDECANE | 12.27 | 4900 | J |
| 13. UNKNOWN | TETRAMETHYLBENZENE | 12.89 | 3200 | J |
| 14. 78-59-1 | 3,5,5TRIMETHYL2CYCLOHEN1ONE | 12.97 | 30000 | J |
| 15. 124-07-2 | OCTANOIC ACID | 13.85 | 17000 | J |
| 16. 54446-78-5 | 1-(2-BUTOXYETHOXY)ETHANOL | 14.05 | 51000 | J |
| 17. 98-55-5 | ALPHA TERPINEOL | 14.17 | 6300 | J |
| 18. UNKNOWN | OXYHYDROCARBON | 14.50 | 4500 | J |
| 19. UNKNOWN | ORGANIC ACID | 15.74 | 3400 | J |
| 20. UNKNOWN | ORGANIC ACID | 27.86 | 4200 | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX183DL

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1332

Sample wt/vol: 1000 (g/mL) ML Lab File ID: XA13EX183D

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/26/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 100

Number TICs found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 24070-77-7 | 2-METHYLCYCLOPENTANOL | 7.83 | 20000 | J |
| 2. 109-52-4 | PENTANOIC ACID | 8.28 | 19000 | J |
| 3. 107-41-5 | 2-METHYL-2,4-PENTANEDIOL | 8.72 | 2300 | J |
| 4. UNKNOWN | C9 KETOHYDROCARBON | 9.90 | 880 | J |
| 5. 142-62-1 | HEXANOIC ACID | 10.52 | 30000 | J |
| 6. 113-18-8 | 1CHLORO3ETHYL1PENTEN4YN3OL | 10.60 | 2800 | J |
| 7. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.39 | 18000 | J |
| 8. UNKNOWN | CYCLOHYDROCARBON | 11.44 | 8000 | J |
| 9. 116-02-9 | 3,3,5-TRIMETHYLCYCLOHEXANOL | 11.62 | 24000 | J |
| 10. 111-14-8 | HEPANOIC ACID | 11.97 | 14000 | J |
| 11. 617-94-7 | DIMETHYLBENZENEMETHANOL | 12.25 | 6200 | J |
| 12. 149-57-5 | 2-ETHYLHEXANOIC ACID | 12.89 | 11000 | J |
| 13. UNKNOWN | DIMETHYLPHENOL | 13.32 | 1000 | J |
| 14. 124-07-2 | OCTANOIC ACID | 13.74 | 15000 | J |
| 15. 98-55-5 | ALPHA TERPINEOL | 14.15 | 2100 | J |
| 16. UNKNOWN | ORGANIC ACID | 14.89 | 1000 | J |
| 17. UNKNOWN | OXYCYCLOHYDROCARBON | 15.62 | 1600 | J |
| 18. 501-52-0 | BENZENEPROPANOIC ACID | 16.25 | 990 | J |
| 19. UNKNOWN | PNA | 31.07 | 900 | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX184

Lab Name: DATACHEM INC. Contract: 68-01-7466

Lab Code: DATAC Case No.: 9614 SAS No.: 3871E SDG No.: EX181

Matrix: (soil/water) WATER Lab Sample ID: CLP1333

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WX11EX184

Level: (low/med) LOW Date Received: 05/19/88

% Moisture: not dec. 0 dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/26/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. UNKNOWN | ETHYLMETHYLBENZENE | 9.39 | 77 | J |
| 2. 103-65-1 | PROPYLBENZENE | 10.04 | 150 | J |
| 3. UNKNOWN | ETHYLMETHYLBENZENE | 10.22 | 590 | J |
| 4. UNKNOWN | TRIMETHYLBENZENE | 10.35 | 290 | J |
| 5. UNKNOWN | ETHYLMETHYLBENZENE | 10.62 | 230 | J |
| 6. UNKNOWN | TRIMETHYLBENZENE | 10.92 | 670 | J |
| 7. UNKNOWN | TRIMETHYLBENZENE | 11.50 | 360 | J |
| 8. 873-94-9 | 3,3,5-TRIMETHYLCYCLOHEXANONE | 11.85 | 1300 | J |
| 9. 116-02-9 | 3,3,5-TRIMETHYLCYCLOHEXANOL | 12.05 | 870 | J |
| 10. UNKNOWN | ETHYLDIMETHYLBENZENE | 12.17 | 260 | J |
| 11. UNKNOWN | PROPYLMETHYLBENZENE | 12.35 | 75 | J |
| 12. UNKNOWN | ETHYLDIMETHYLBENZENE | 12.70 | 320 | J |
| 13. 1120-21-4 | UNDECANE | 12.85 | 72 | J |
| 14. UNKNOWN | ETHYLDIMETHYLBENZENE | 13.10 | 71 | J |
| 15. UNKNOWN | TETRAMETHYLBENZENE | 13.27 | 130 | J |
| 16. UNKNOWN | TETRAMETHYLBENZENE | 13.35 | 180 | J |
| 17. UNKNOWN | SUBSTITUTED BENZENE | 13.70 | 100 | J |
| 18. 498-81-7 | TRIMETHYLCYCLOHEXENEMETHANOL | 13.77 | 37 | J |
| 19. UNKNOWN | SUBSTITUTED BENZENE | 13.94 | 200 | J |
| 20. UNKNOWN | DIMETHYLPHENOL | 14.00 | 92 | J |

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

[illegible]

Lab Name: [illegible] INC. Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] [illegible] [illegible]

Matrix: soil water WATER Lab Sample ID: [illegible]

Sample wt vol: [illegible] (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/25/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/31/88

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |