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EPA Region 5 Records Ctr.
205328

# TECHNICAL MEMORANDUM
## SEPTEMBER 1997 GROUNDWATER SAMPLING RESULTS REPORT AND GROUNDWATER MONITORING PLAN

(Revised July 21, 1998)

AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Montgomery Watson File No. 1252042

Prepared For:

ACS RD/RA Executive Committee

Prepared By:

Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

July 1998

MONTGOMERY WATSON

# APPENDIX D

## UPPER AQUIFER AND FIELD AND TRIP BLANK LABORATORY DATA

*One copy of Appendix D has been provided to U.S. EPA, IDEM, and B&VWS. Additional copies of the appendix are available upon request to Montgomery Watson.*

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWM1S-03

WM1S

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

al ode: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/23/97

atrix (soil/water): WATER Lab Sample ID: 970936703

evel (low/med): LOW__ VALIDATED Date Received: 09/24/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 891 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.1 | B | | P_ |
| 7440-39-3 | Barium___ | 908 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 251000 | | | P_ |
| 7440-47-3 | Chromium_ | 22.8 | | | P_ |
| 7440-48-4 | Cobalt___ | 5.1 | B | | P_ |
| 7440-50-8 | Copper___ | J U 8.3 | B | | P_ |
| 7439-89-6 | Iron____ | 13300 | | | P_ |
| 7439-92-1 | Lead____ | 2.5 | B | | P_ |
| 7439-95-4 | Magnesium | J 91100 | | | P_ |
| 7439-96-5 | Manganese | 347 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 22.1 | B | | P_ |
| 7440-09-7 | Potassium | J 38100 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 125000 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.4 | B | | P_ |
| 7440-66-6 | Zinc____ | U 21.3 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]

Lab Name: IEA-NC Method: SOW 1/91

9/23/97

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0925V12.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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 | 2 | J |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 18 | |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 2 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM1S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007615.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 34 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 60 | |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | UJ | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM1S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007615.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | uJ | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 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 | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | 8 | JB |
| 117-84-0 | Di-N-Octylphthalate | | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

WM1S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_232.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
AGS-GWM-3S-03

WM3S

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/23/97

atrix (soil/water): WATER Lab Sample ID: 970936704

evel (low/med): LOW__ Date Received: 09/24/97

Solids: __0.0

VALIDATED

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 257 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 15.5 | | | P_ |
| 7440-39-3 | Barium___ | 213 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 134000 | | | P_ |
| 7440-47-3 | Chromium_ | 12.7 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.1 | B | | P_ |
| 7440-50-8 | Copper___ | U 5.0 | B | | P_ |
| 7439-89-6 | Iron____ | 4750 | | | P_ |
| 7439-92-1 | Lead____ | 1.6 | B | | P_ |
| 7439-95-4 | Magnesium | J 39000 | | | P_ |
| 7439-96-5 | Manganese | 488 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 13.2 | B | | P_ |
| 7440-09-7 | Potassium | J 13400 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 42500 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.3 | B | | P_ |
| 7440-66-6 | Zinc____ | U 18.9 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

olor Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN

3/90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM1S-03

ɔ Name: IEA-NC Method: SOW 1/91

b Code: IEA Case No.: 2240-080 SDG No.: 09367

ıtrix: (soil/water) WATER Lab Sample ID: 970936703

ample wt/vol: 5 (g/mL) ml Lab File ID: 0925V12.D

ıevel: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.44 | 95 | JN |
| 000593-70-4 | METHANE, CHLOROFLUORO- | 2.82 | 36 | JN |
| 000060-29-7 | ETHER | 4.59 | 20 | JN |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM1S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007615.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.20 | 26 | J |
| | Unknown | 7.95 | 7 | J |
| | Propanol isomer | 9.42 | 23 | J |
| | Propanol isomer | 9.49 | 23 | J |
| | Unknown | 9.67 | 36 | J |
| | Unknown | 9.83 | 43 | J |
| | Unknown | 9.90 | 12 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETH | 10.13 | 35 | JN |
| | Unknown | 10.42 | 12 | J |
| | Unknown | 12.03 | 13 | J |
| | Unknown | 12.72 | 9 | J |
| | Unknown | 13.45 | 13 | J |
| | Unknown | 14.53 | 18 | J |
| | Unknown | 15.02 | 14 | J |
| | Unknown | 15.28 | 9 | J |
| | Unknown | 15.67 | 8 | J |
| | Unknown | 15.95 | 9 | J |
| | Unknown | 20.38 | 13 | J |
| 000076-73-3 | SECOBARBITAL | 20.51 | 46 | JN |
| | Unknown Acid | 21.82 | 7 | J |

1A VALIDATED CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-03

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0925V13.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM3S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007608.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | [redacted] |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | [redacted] | [redacted] |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | [redacted] | [redacted] |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007608.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 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 | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | 6 | JB |
| 117-84-0 | Di-N-Octylphthalate | | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM3S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

VALIDATED

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_233.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

CLIENT SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWM3S-03

.b Name: IEA-NC  Method: SOW 1/91

ab Code: IEA  Case No.: 2240-080  SDG No.: 09367

atrix: (soil/water) WATER  Lab Sample ID: 970936704

ample wt/vol: 5 (g/mL) ml  Lab File ID: 0925V13.D

Level: (low/med) LOW  Date Received: 09/24/97

% Moisture: not dec.  Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

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

CLIENT SAMPLE NO.

ACS-GWM3S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007608.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 15

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 8.21 | 3 | J |
| | Unknown | 9.85 | 2 | J |
| | Unknown | 9.90 | 3 | J |
| | Unknown | 11.53 | 2 | J |
| 001696-20-4 | MORPHOLINE, 4-ACETYL- | 12.61 | 4 | JN |
| | Unknown | 13.22 | 2 | J |
| | Unknown | 13.61 | 3 | J |
| | Unknown | 14.05 | 2 | J |
| | Unknown | 14.28 | 3 | J |
| | Unknown | 16.88 | 4 | J |
| 000076-73-3 | SECOBARBITAL | 20.40 | 12 | JN |
| 000050-06-6 | PHENOBARBITAL | 22.31 | 4 | JN |
| | Unknown | 24.49 | 2 | J |
| | Unknown | 24.86 | 2 | J |
| | Unknown | 25.86 | 8 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
AGS-(W)M3S-93

3S93

9/23/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

al ode: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

atrix (soil/water): WATER Lab Sample ID: 970936808

evel (low/med): LOW__ Date Received: 09/24/97

Solids: __0.0

VALIDATED

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 137 | B | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 13.8 | | | P_ |
| 7440-39-3 | Barium___ | 211 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 131000 | | | P_ |
| 7440-47-3 | Chromium_ | 4.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 3.9 | B | | P_ |
| 7439-89-6 | Iron____ | 4200 | | | P_ |
| 7439-92-1 | Lead____ | 1.1 | B | | P_ |
| 7439-95-4 | Magnesium | J 38100 | | | P_ |
| 7439-96-5 | Manganese | 482 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 7.2 | B | | P_ |
| 7440-09-7 | Potassium | J 13400 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 42500 | | E | P_ |
| 7440-28-0 | Thallium_ | U 2.0 | B | | P_ |
| 7440-62-2 | Vanadium_ | 2.8 | B | | P_ |
| 7440-66-6 | Zinc____ | U 15.3 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: [redacted] Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) [redacted] Lab Sample ID: 970936808

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926109.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: [redacted]

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

CONCENTRATION UNITS: [redacted]
(ug/L or ug/Kg) ug/l

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007612.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 4 | 24 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 2 | J |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 9 | J |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 4J | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | 4J | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | 4J | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | 4J | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007612.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10U ~~2~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

3S93

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_229.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926109.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

b Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007612.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.84 | 5 | J |
| | Unknown | 9.89 | 3 | J |
| | Unknown | 13.67 | 41 | J |
| | Unknown | 16.88 | 3 | J |
| | Unknown | 19.95 | 3 | J |
| 000076-73-3 | SECOBARBITAL | 20.41 | 12 | JN |
| 000050-06-6 | PHENOBARBITAL | 22.31 | 31 | JN |
| 000080-05-7 | PHENOL, 4,4'-(1-METHYLETHYLI | 24.06 | 2 | JN |
| | Unknown | 24.87 | 8 | J |
| | Unknown | 25.88 | 9 | J |

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWM4S-03

WM4S

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/23/97

atrix (soil/water): WATER Lab Sample ID: 970936705

evel (low/med): LOW__ Date Received: 09/24/97

Solids: __0.0

VALIDATED

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1120 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 6.8 | B | | P_ |
| 7440-39-3 | Barium___ | 446 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 281000 | | | P_ |
| 7440-47-3 | Chromium_ | 28.9 | | | P_ |
| 7440-48-4 | Cobalt___ | 5.4 | B | | P_ |
| 7440-50-8 | Copper___ | ~~U~~ 10.8 | B | | P_ |
| 7439-89-6 | Iron_____ | 22000 | | | P_ |
| 7439-92-1 | Lead_____ | 3.5 | | | P_ |
| 7439-95-4 | Magnesium | J 47800 | | | P_ |
| 7439-96-5 | Manganese | 557 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 28.4 | B | | P_ |
| 7440-09-7 | Potassium | J 22800 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 72800 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.9 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 29.8 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

olor Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]

9/29/97

ɔ . .e: IEA-NC Method: SOW 1/91

ɔ Code: IEA[redacted] Case No.: 2240-080 SDG No.: 09367

trix: (soil/water) WATER Lab Sample ID: 970936705

mple wt/vol: 5 (g/mL) ml Lab File ID: 0926J09.D

:vel: (low/med) LOW Date Received: 09/24/97

Moisture: not dec. Date Analyzed: 09/27/97

ɔ Column: DB-624 ID: 0.53(mm) Dilution Factor: [redacted]

ɔil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

CONCENTRATION UNITS: (ug/L or ug/Kg) [redacted]

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 80 | U |
| 74-83-9 | Bromomethane | | 80 | U |
| 75-01-4 | Vinyl Chloride | | 80 | U |
| -00-3 | Chloroethane | | [redacted] | |
| 75-09-2 | Methylene Chloride | UJ | 80 | U |
| 67-64-1 | Acetone | | 80 | U |
| 75-15-0 | Carbon Disulfide | | 80 | U |
| 75-35-4 | 1,1-Dichloroethene | | 80 | U |
| 75-34-3 | 1,1-Dichloroethane | | 80 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 80 | U |
| 67-66-3 | Chloroform | | 80 | U |
| 107-06-2 | 1,2-Dichloroethane | | 80 | U |
| 78-93-3 | 2-Butanone | | 80 | U |
| -55-6 | 1,1,1-Trichloroethane | | 80 | U |
| 56-23-5 | Carbon Tetrachloride | | 80 | U |
| 75-27-4 | Bromodichloromethane | | 80 | U |
| 78-87-5 | 1,2-Dichloropropane | | 80 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 80 | U |
| 79-01-6 | Trichloroethene | | 80 | U |
| 124-48-1 | Dibromochloromethane | | 80 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 80 | U |
| 71-43-2 | Benzene | | 73 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 80 | U |
| 75-25-2 | Bromoform | UJ | 80 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 80 | U |
| 591-78-6 | 2-Hexanone | | 80 | U |
| 127-18-4 | Tetrachloroethene | | 80 | U |
| 108-88-3 | Toluene | | 80 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 80 | U |
| 108-90-7 | Chlorobenzene | | 80 | U |
| 100-41-4 | Ethylbenzene | | 80 | U |
| 100-42-5 | Styrene | | 80 | U |
| 1330-20-7 | Xylene (total) | | 80 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009607.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 25 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009607.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 ~~54~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM4S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_234.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926J09.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/27/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000109-99-9 | FURAN, TETRAHYDRO- | 8.89 | 45 | JN |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009607.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Substituted Benzene Isomer | 9.76 | 8 | J |
| | Unknown | 11.00 | 4 | J |
| | Unknown | 11.35 | 18 | J |
| | Unknown | 12.62 | 9 | J |
| | Unknown | 13.66 | 5 | J |
| | Unknown | 14.03 | 7 | J |
| 000000-00-0 | 1,4-DIMETHYL-1,2,3,4-TETRAHY | 14.82 | 7 | JN |
| | Unknown | 15.37 | 7 | J |
| | Unknown | 16.12 | 5 | J |
| | Unknown | 16.26 | 6 | J |
| | Unknown Acid | 17.45 | 4 | J |
| | Unknown | 17.64 | 5 | J |
| | Unknown | 18.76 | 4 | J |
| 007085-19-0 | PROPANOIC ACID, 2-(4-CHLORO- | 18.91 | 4 | JN |
| | Unknown | 19.34 | 6 | J |
| | Unknown | 19.71 | 16 | J |
| | Unknown | 19.79 | 8 | J |
| | Unknown | 21.67 | 5 | J |
| | Unknown | 25.89 | 5 | J |
| | Unknown | 26.33 | 10 | J |

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW06-03

MW06

9/23/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

atrix (soil/water): WATER Lab Sample ID: 970936702

evel (low/med): LOW__ Date Received: 09/24/97

Solids: __0.0

VALIDATED

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 180 | B | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 41.9 | | | P_ |
| 7440-39-3 | Barium__ | 369 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 174000 | | | P_ |
| 7440-47-3 | Chromium_ | 33.1 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.5 | B | | P_ |
| 7440-50-8 | Copper___ | U 7.5 | B | | P_ |
| 7439-89-6 | Iron____ | 14300 | | | P_ |
| 7439-92-1 | Lead____ | 9.0 | | | P_ |
| 7439-95-4 | Magnesium | J 34200 | | | P_ |
| 7439-96-5 | Manganese | 2170 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 25.2 | B | | P_ |
| 7440-09-7 | Potassium | J 16900 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 79300 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 20.4 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AGSRGMW06-03

9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926105.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 14 | J |
| 75-00-3 | Chloroethane | J | 140 | |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 2 | J |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 3 | J |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 140 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 1 | J |
| 100-41-4 | Ethylbenzene | | 13 | |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 29 | |

FORM I VOA

1B VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008604.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 60 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 31 | |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 2 | J |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 3 | J |
| 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 | UJ 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008604.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 ~~3~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

MW06

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_231.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926105.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000115-07-1 | PROPENE | 2.17 | 9 | JN |
| 000060-29-7 | ETHER | 4.19 | 29 | JN |
| | UNKNOWN HYDROCARBON | 23.42 | 6 | J |
| | UNKNOWN HYDROCARBON | 24.37 | 60 | J |

1F

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008604.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.87 | 6 | J |
| | Unknown | 8.79 | 9 | J |
| | Unknown | 9.78 | 6 | J |
| | Unknown | 9.87 | 46 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETH | 10.12 | 270 | JN |
| | Unknown | 10.28 | 5 | J |
| 000100-61-8 | ANILINE, N-METHYL- | 10.57 | 6 | JN |
| | Unknown | 13.61 | 7 | J |
| | Unknown | 15.87 | 8 | J |
| | Unknown | 16.10 | 5 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.80 | 6 | JN |
| | Unknown | 18.83 | 32 | J |
| 000934-34-9 | 2(3H)-BENZOTHIAZOLONE | 19.03 | 24 | JN |
| | Unknown | 19.50 | 28 | J |
| 000076-73-3 | SECOBARBITAL | 20.44 | 46 | JN |
| 000057-10-3 | HEXADECANOIC ACID | 21.75 | 6 | JNX |
| 000050-06-6 | PHENOBARBITAL | 22.35 | 31 | JN |
| | Unknown | 25.22 | 5 | J |
| | Unknown | 25.82 | 8 | J |
| | Unknown | 26.53 | 5 | J |

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW11-03
MW11
9-29-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970947318

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 421 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 27.4 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 35700 | _ | | P_ |
| 7440-47-3 | Chromium_ | 2.9 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.3 | B | | P_ |
| 7440-50-8 | Copper___ | u 3.9 | B | | P_ |
| 7439-89-6 | Iron____ | 1600 | _ | | P_ |
| 7439-92-1 | Lead____ | u 4.6 | _ | | P_ |
| 7439-95-4 | Magnesium | 11400 | _ | | P_ |
| 7439-96-5 | Manganese | 525 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 4.5 | B | | P_ |
| 7440-09-7 | Potassium | J 1150 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | u 4890 | B | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.4 | B | | P_ |
| 7440-66-6 | Zinc____ | u 14.1 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW11-03 9-29-97

La Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V09.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW11-03

) Name: IEA-NC Method: SOW 1/91

) Code: IEA Case No.: 2240-082 SDG No.: 09403

trix: (soil/water) WATER Lab Sample ID: 970947318

mple wt/vol: 1000 (g/mL) ml Lab File ID: 1015613.D

vel: (low/med) LOW Date Received: 09/30/97

Moisture: decanted: (Y/N) Date Extracted: 10/02/97

ncentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

jection Volume: 2.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | U 23 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| [illegible]-46-7 | 1,4-Dichlorobenzene | 10 | U |
| [illegible]50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 8[illegible]-75-5 | 2-Nitrophenol | 10 | U |
| [illegible]-67-9 | 2,4-Dimethylphenol | 10 | 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| [illegible]3-32-9 | Acenaphthene | 10 | U |

VALIDATED

FORM I SV-1

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW11-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015613.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW11

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_163.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW11-03

Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-082  SDG No.: 09403

Matrix: (soil/water) WATER  Lab Sample ID: 970947318

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1001V09.D

Level: (low/med) LOW  Date Received: 09/30/97

% Moisture: not dec.  Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

Number TICs Found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

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

VALIDATED

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW11-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015613.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.34 | 2 | J |
| | Unknown | 9.71 | 4 | J |
| | Unknown | 13.51 | 2 | J |
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.60~~ | ~~5~~ | ~~UNXB~~ R |

VALIDATED

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW12-03

MW12

Lab Name: AMERICAN ENVIRONMENTAL NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ DATE SAMPLED: 10/01/97 SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971004515

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1690 | | | P |
| 7440-36-0 | Antimony | U 1.2 | B | | P |
| 7440-38-2 | Arsenic | J 7.8 | B | | P |
| 7440-39-3 | Barium | 72.5 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 47400 | | | P |
| 7440-47-3 | Chromium | J 8.9 | B | | P |
| 7440-48-4 | Cobalt | J 2.4 | B | | P |
| 7440-50-8 | Copper | J 15.0 | B | | P |
| 7439-89-6 | Iron | 24400 | | | P |
| 7439-92-1 | Lead | 12.0 | | | P |
| 7439-95-4 | Magnesium | 17300 | | | P |
| 7439-96-5 | Manganese | 1210 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 7.4 | B | | P |
| 7440-09-7 | Potassium | J 2930 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | UJ 10600 | | E | P |
| 7440-28-0 | Thallium | U 2.3 | B | | P |
| 7440-62-2 | Vanadium | 20.2 | B | | P |
| 7440-66-6 | Zinc | U 27.1 | | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V13.D

Level: (low/med) LOW Date Received: 10/02/97 (1)

% Moisture: not dec. Date Analyzed: 10/04/97 (3)

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | J | 5 | J |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC

Method: SOW 1/91

Lab Code: IEA

Case No.: 2240-088

SDG No.: 09475

Matrix: (soil/water) WATER

Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ml

Lab File ID: 1021809.D

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N

pH:

CRQL MULTIPLIER = 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 24 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 20 | U |
| 95-57-8 | 2-Chlorophenol | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 20 | U |
| 95-48-7 | 2-Methylphenol | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 87 | |
| 106-44-5 | 4-Methylphenol | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 20 | U |
| 67-72-1 | Hexachloroethane | 20 | U |
| 98-95-3 | Nitrobenzene | 20 | U |
| 78-59-1 | Isophorone | 20 | U |
| 88-75-5 | 2-Nitrophenol | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20 | U |
| 91-20-3 | Naphthalene | 20 | U |
| 106-47-8 | 4-Chloroaniline | 20 | U |
| 87-68-3 | Hexachlorobutadiene | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 20 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | J 3 | J |
| 208-96-8 | Acenaphthylene | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 20 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 20 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1021809.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

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

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW12-03

MW12

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ML Lab File ID: P4092597_262.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97 1

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 2

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/97 10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW12-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 24.78 | JN 33 | J |

FORM I VOA-TIC

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1021809.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 10.70 | JN 4 | JN |
| | SUBSTITUTED ETHANOL ISOMER | 13.52 | ↓ 6 | J |
| | ~~UNKNOWN~~ | ~~15.25~~ | ~~B 8~~ | ~~J~~ |

FORM I SV-TIC

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1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW13-03

MW13

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ DATE SAMPLED: 12/01/97 SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971004516

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 172 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 68.5 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 130000 | | | P_ |
| 7440-47-3 | Chromium_ | 1.0 | U | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 2.3 | B | | P_ |
| 7439-89-6 | Iron____ | 4420 | | | P_ |
| 7439-92-1 | Lead____ | 1.0 | U | | P_ |
| 7439-95-4 | Magnesium | 37000 | | | P_ |
| 7439-96-5 | Manganese | 604 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | U 1.9 | B | | P_ |
| 7440-09-7 | Potassium | J 2020 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 24600 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 12.1 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971004516

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1007K03.D

Level: (low/med) LOW  Date Received: 10/02/97 ①

% Moisture: not dec.  Date Analyzed: 10/07/97 ⑥

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | 160 | |
| 75-09-2 | Methylene Chloride | J 1 | J |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 33 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017613.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | J 7 | 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017613.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | J 2 | J |
| 117-84-0 | Di-N-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW13-03

MW13

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_268.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (2)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW13-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1007K03.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/07/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER | 4.58 | JN 82 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017613.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 8

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.64 | JN 2 | J |
| 000112-36-7 | ETHANE, 1,1'-OXYBIS[2-ETHOXY- | 10.53 | 2 | JN |
| | UNKNOWN | 10.90 | 6 | J |
| | UNKNOWN | 13.41 | 3 | J |
| | UNKNOWN | 15.57 | 3 | J |
| | UNKNOWN | 17.58 | 4 | J |
| | UNKNOWN | 18.09 | 3 | J |
| | UNKNOWN | 18.75 | 3 | J |

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW14-03

MW14

DATE SAMPLED: 9/29/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 970947503

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 7180 | | | P_ |
| 7440-36-0 | Antimony_ | U 1.3 | B | | P_ |
| 7440-38-2 | Arsenic__ | 9.2 | B | | P_ |
| 7440-39-3 | Barium___ | 87.8 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 96400 | | | P_ |
| 7440-47-3 | Chromium_ | 26.2 | | | P_ |
| 7440-48-4 | Cobalt___ | 8.3 | B | | P_ |
| 7440-50-8 | Copper___ | 31.7 | | | P_ |
| 7439-89-6 | Iron____ | 25900 | | | P_ |
| 7439-92-1 | Lead____ | 20.3 | | | P_ |
| 7439-95-4 | Magnesium | 22000 | | | P_ |
| 7439-96-5 | Manganese | 290 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 21.9 | B | | P_ |
| 7440-09-7 | Potassium | J 6440 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | UJ 11600 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 21.3 | B | | P_ |
| 7440-66-6 | Zinc____ | 59.2 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

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VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/29/97

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V10.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | J 1 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW14-03

DATE SAMPLED: 9/29/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 18 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

OTHER SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 3 | J |
| 117-84-0 | Di-N-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW14-03

MW14

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

DATE SAMPLED: 9/21/97

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_259.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V10.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.86 | JN 28 | JN |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

OPTIONAL SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.66 | JN 2 | J |
| | UNKNOWN | 12.14 | 2 | J |
| | UNKNOWN | 13.46 | 5 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.69 | 2 | JN |
| | UNKNOWN | 21.09 | 3 | J |
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.57~~ | ~~B 8~~ | ~~JNXB~~ |
| | UNKNOWN | 24.64 | JN 2 | J |
| | UNKNOWN | 24.87 | 5 | J |
| | UNKNOWN | 25.61 | 2 | J |
| | ~~UNKNOWN~~ | ~~26.03~~ | ~~B 3~~ | ~~J~~ |

→ 000101-10-0 PROPANOIC ACID, 2-(3-CHLOROPHENOXY) 17.69 JN 2 JN

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW15-03

MW15

9/23/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970936707

Level (low/med): LOW__ VALIDATED Date Received: 09/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 487 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 57.6 | | | P_ |
| 7440-39-3 | Barium___ | 1360 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 73000 | | | P_ |
| 7440-47-3 | Chromium_ | 12.8 | | | P_ |
| 7440-48-4 | Cobalt___ | 4.6 | B | | P_ |
| 7440-50-8 | Copper___ | J 13.2 | B | | P_ |
| 7439-89-6 | Iron____ | 7010 | | | P_ |
| 7439-92-1 | Lead____ | 1.3 | B | | P_ |
| 7439-95-4 | Magnesium | J 74300 | | | P_ |
| 7439-96-5 | Manganese | 141 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 24.3 | B | | P_ |
| 7440-09-7 | Potassium | J 118000 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 415000 | | E | P_ |
| 7440-28-0 | Thallium_ | U 2.8 | B | | P_ |
| 7440-62-2 | Vanadium_ | 1.1 | B | | P_ |
| 7440-66-6 | Zinc____ | U 17.9 | B | | P_ |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Name: IEA-NC Method: SOW 1/91 [redacted]

Co : IEA Case No.: 2240-080 [redacted] SDG No.: 09367

ix: (soil/water) WATER Lab Sample ID: 970936707

le wt/vol: 5 (g/mL) ml Lab File ID: 0926108.D

el: (low/med) LOW Date Received: 09/24/97

oisture: not dec. Date Analyzed: 09/26/97

Column: DB-624 ID: .53 (mm) Dilution Factor: 1.0

l Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|---|---|---|---|
| 4-87-3 | Chloromethane | 10 | U |
| 4-83-9 | Bromomethane | UJ 10 | U |
| 5-01-4 | Vinyl Chloride | 10 | U |
| 5-00-3 | Chloroethane | UJ 10 | U |
| 5-09-2 | Methylene Chloride | 10 | U |
| 7 -1 | Acetone | 10 | U |
| 5- -0 | Carbon Disulfide | 10 | U |
| 5-35-4 | 1,1-Dichloroethene | 10 | U |
| 5-34-3 | 1,1-Dichloroethane | 10 | U |
| 40-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 7-66-3 | Chloroform | 10 | U |
| 07-06-2 | 1,2-Dichloroethane | 10 | U |
| 8-93-3 | 2-Butanone | 10 | U |
| 1-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 6- -5 | Carbon Tetrachloride | 10 | U |
| 75 -4 | Bromodichloromethane | 10 | U |
| 8-87-5 | 1,2-Dichloropropane | 10 | U |
| 0061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 9-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 9-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 1-43-2 | Benzene | 4 | J |
| 0061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 5-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1 -20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007613.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 26 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007613.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | U 27 | B |
| 117-84-0 | Di-N-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM15

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_236.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926108.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.24 | 17 | JN |

FORM I VOA-TIC

1F

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007613.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 18

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.85 | 7 | J |
| | Unknown | 10.74 | 9 | J |
| | Unknown | 11.15 | 10 | J |
| | Unknown | 12.64 | 6 | J |
| | Unknown | 12.72 | 3 | J |
| | Unknown | 13.69 | 2 | J |
| | Unknown | 16.30 | 3 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.93 | 9 | JN |
| 000088-19-7 | BENZENESULFONAMIDE, 2-METHYL | 18.50 | 2 | JN |
| | Unknown | 18.82 | 3 | J |
| | Unknown | 19.73 | 5 | J |
| | Unknown | 20.95 | 4 | J |
| | Unknown | 21.37 | 2 | J |
| 000057-10-3 | HEXADECANOIC ACID | 21.80 | 3 | JNX |
| 000050-06-6 | PHENOBARBITAL | 22.41 | 15 | JN |
| | Unknown | 23.50 | 3 | J |
| 000057-11-4 | OCTADECANOIC ACID | 23.68 | 3 | JN |
| | Unknown | 25.91 | 5 | J |

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-LWMW18-03

MW18

Lab Name: AMERICAN ENVIRONMENTAL NE  Contract: _____

Lab Code: AEN___  Case No: 2240_088___  SAS No.: _____  SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER  Lab Sample ID: 971002007

Level (low/med): LOW__  Date Received: 10/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | U 35.7 | B | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 31.6 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 64200 | | | P |
| 7440-47-3 | Chromium | 70.6 | | | P |
| 7440-48-4 | Cobalt | 1.0 | U | | P |
| 7440-50-8 | Copper | 12.9 | B | | P |
| 7439-89-6 | Iron | U 208 | | | P |
| 7439-92-1 | Lead | 14.4 | | | P |
| 7439-95-4 | Magnesium | 18900 | | | P |
| 7439-96-5 | Manganese | 85.4 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 6.2 | B | | P |
| 7440-09-7 | Potassium | J 3220 | B | E | P |
| 7782-49-2 | Selenium | 3.9 | B | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 67500 | | E | P |
| 7440-28-0 | Thallium | U 2.8 | B | | P |
| 7440-62-2 | Vanadium | 1.5 | B | | P |
| 7440-66-6 | Zinc | U 20.2 | | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS  Clarity Before: CLEAR_  Texture: _____

Color After: COLORLESS  Clarity After: CLEAR_  Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VALIDATED CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW18-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V14.D

Level: (low/med) LOW Date Received: 10/01/97 (1)

% Moisture: not dec. Date Analyzed: 10/03/97 (3)

GC Column: DB-624 ID: .530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97 3

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97 14

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 21 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOS-GWMW18-03
MW18

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_276.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 8.81 | JN 3 | J |
| | UNKNOWN | 9.67 | ↓ 5 | J |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW19-03

MW19

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/30/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971002008

Level (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 402 | | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 27.2 | | | P |
| 7440-39-3 | Barium | 648 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 85300 | | | P |
| 7440-47-3 | Chromium | 8.2 | B | | P |
| 7440-48-4 | Cobalt | 1.5 | B | | P |
| 7440-50-8 | Copper | 184 | | | P |
| 7439-89-6 | Iron | 4660 | | | P |
| 7439-92-1 | Lead | 2.4 | B | | P |
| 7439-95-4 | Magnesium | 63900 | | | P |
| 7439-96-5 | Manganese | 243 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 17.0 | B | | P |
| 7440-09-7 | Potassium | J 98000 | | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 719000 | | E | P |
| 7440-28-0 | Thallium | U 4.7 | B | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | U 16.1 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATION CLIENT SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V15.D

Level: (low/med) LOW Date Received: 10/01/97 (1)

% Moisture: not dec. Date Analyzed: 10/03/97 (2)

GC Column: DB-624 ID: .530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | | 18 | |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | J | 1 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW19-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1016F15.D

Level: (low/med) LOW  Date Received: 10/01/97 (1)

% Moisture: decanted: (Y/N)  Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/17/97 (14)

Injection Volume: 2.0 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:  CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 31 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 12 | |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW19-03

MW19

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_277.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97 (7)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.45 | 21 | JN |
| 000060-29-7 | ETHER | 4.58 | 5 | JN |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED CLIENT SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.18 | 6 | J |
| | UNKNOWN | 9.25 | 5 | J |
| | UNKNOWN | 9.67 | 5 | J |
| | UNKNOWN | 11.15 | 5 | J |
| | UNKNOWN | 12.55 | 10 | J |
| | UNKNOWN | 13.44 | 6 | J |
| | UNKNOWN | 14.70 | 5 | J |
| | UNKNOWN | 15.03 | 15 | J |
| | UNKNOWN | 15.47 | 6 | J |
| | UNKNOWN | 15.54 | 3 | J |
| | UNKNOWN | 15.93 | 5 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.70 | 33 | JN |
| | UNKNOWN | 18.63 | 8 | J |
| | UNKNOWN | 19.28 | 3 | J |
| | UNKNOWN | 20.74 | 3 | |
| 000115-38-8 | MEPHOBARBITAL | 21.47 | 4 | JN |
| | UNKNOWN | 21.59 | 7 | J |
| 000050-06-6 | PHENOBARBITAL | 22.25 | 65 | JN |
| | UNKNOWN | 25.04 | 4 | J |
| | UNKNOWN | 25.66 | 4 | J |

JN

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ALS-GWMW37-03
MW37
9-26-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970945015

Level (low/med): LOW__ Date Received: 09/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1310 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.1 | B | | P |
| 7440-39-3 | Barium___ | 34.3 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 84200 | | | P |
| 7440-47-3 | Chromium_ | 6.8 | B | | P |
| 7440-48-4 | Cobalt___ | 5.5 | B | | P |
| 7440-50-8 | Copper___ | 12.5 | B | | P |
| 7439-89-6 | Iron____ | 9440 | | | P |
| 7439-92-1 | Lead____ | U 4.1 | | | P |
| 7439-95-4 | Magnesium | 26600 | | | P |
| 7439-96-5 | Manganese | 682 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 13.8 | B | | P |
| 7440-09-7 | Potassium | J 2060 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 17300 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 3.4 | B | | P |
| 7440-66-6 | Zinc____ | U 23.7 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V07.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 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 |
| 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW37

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

L. Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_161.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V07.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

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

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMD37-93
MW379
9-26-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970945016

Level (low/med): LOW__ Date Received: 09/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1110 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.9 | B | | P_ |
| 7440-39-3 | Barium___ | 34.3 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 87,000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 5.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 5.7 | B | | P_ |
| 7440-50-8 | Copper___ | 11.9 | B | | P_ |
| 7439-89-6 | Iron____ | 9890 | _ | | P_ |
| 7439-92-1 | Lead____ | U 3.9 | _ | | P_ |
| 7439-95-4 | Magnesium | 27,100 | _ | | P_ |
| 7439-96-5 | Manganese | 705 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 13.2 | B | | P_ |
| 7440-09-7 | Potassium | J 1990 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 17,700 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.1 | B | | P_ |
| 7440-66-6 | Zinc____ | U 22.0 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F09.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine UJ | 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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F09.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW379

Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_162.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

VALIDATED

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F09.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | ~~Unknown~~ | ~~8.22~~ | ~~2~~ | ~~J~~ BR |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ALS-GWMW38-03
MW38
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

La. Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942504

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1280 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 5.3 | B | | P_ |
| 7440-39-3 | Barium___ | 53.9 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 57800 | | | P_ |
| 7440-47-3 | Chromium_ | 8.8 | B | | P_ |
| 7440-48-4 | Cobalt___ | 2.4 | B | | P_ |
| 7440-50-8 | Copper___ | 14.1 | B | | P_ |
| 7439-89-6 | Iron_____ | 16200 | | | P_ |
| 7439-92-1 | Lead_____ | u 10.0 | | | P_ |
| 7439-95-4 | Magnesium | 20500 | | | P_ |
| 7439-96-5 | Manganese | 594 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.3 | B | | P_ |
| 7440-09-7 | Potassium | J 959 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | u 7380 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 14.2 | B | | P_ |
| 7440-66-6 | Zinc_____ | 56.1 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03
9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K04.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010605.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 10 | 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 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 |
| 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010605.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW38

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_140.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K04.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010605.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | ~~Unknown~~ | ~~8.34~~ | ~~5~~ | ~~J~~ BR |
| | Unknown | 9.78 | 2 | J |
| | Unknown | 13.54 | 3 | J |
| 000134-62-3 | DIETHYLTOLUAMIDE | 17.76 | 4 | JN |
| | DEET ? | | | |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ALS-GWMW39-03
MW39
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942505

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 366 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium___ | 77.7 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 110000 | | | P |
| 7440-47-3 | Chromium_ | 6.9 | B | | P |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P |
| 7440-50-8 | Copper___ | u 3.6 | B | | P |
| 7439-89-6 | Iron_____ | 7300 | | | P |
| 7439-92-1 | Lead_____ | u 1.6 | B | | P |
| 7439-95-4 | Magnesium | 19200 | | | P |
| 7439-96-5 | Manganese | 802 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 7.3 | B | | P |
| 7440-09-7 | Potassium | J 8190 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 123000 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P |
| 7440-66-6 | Zinc_____ | u 12.8 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K05.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 2 | J |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 4 | J |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 4 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010606.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 33 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 2 | J |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 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 |
| 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010606.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW39

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_141.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K05.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

VALIDATED

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010606.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.77 | 6 | J |
| | Unknown | 10.68 | 6 | J |
| | Unknown | 10.97 | 2 | J |
| | Unknown | 13.19 | 3 | J |
| | Unknown | 13.60 | 6 | J |
| | Unknown | 13.73 | 3 | J |
| | Unknown | 17.00 | 12 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROPHENOXY) | 17.80 | 2 | JN |
| 000088-19-7 | BENZENESULFONAMIDE, 2-METHYL | 18.38 | 2 | JN |
| 000070-55-3 | BENZENESULFONAMIDE, 4-METHYL | 18.84 | 5 | JN |
| | Unknown | 25.77 | 9 | J |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW40-03
MW40
9/29/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970947319

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 2140 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 23.8 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 34100 | _ | | P_ |
| 7440-47-3 | Chromium_ | 5.4 | B | | P_ |
| 7440-48-4 | Cobalt___ | 2.9 | B | | P_ |
| 7440-50-8 | Copper___ | 20.6 | B | | P_ |
| 7439-89-6 | Iron____ | 6430 | _ | | P_ |
| 7439-92-1 | Lead____ | u 7.8 | _ | | P_ |
| 7439-95-4 | Magnesium | 14100 | _ | | P_ |
| 7439-96-5 | Manganese | 198 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 9.9 | B | | P_ |
| 7440-09-7 | Potassium | J 2220 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | u 5560 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 11.8 | B | | P_ |
| 7440-66-6 | Zinc____ | u 35.1 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03 9-29-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V04.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015614.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | U 20 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015614.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

FORM I SV-2

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW40

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_164.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-082  SDG No.: 09403

Matrix: (soil/water) WATER  Lab Sample ID: 970947319

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1002V04.D

Level: (low/med) LOW  Date Received: 09/30/97

% Moisture: not dec.  Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

VALIDATED

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015614.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.34 | 3 | J |
| | Unknown | 9.71 | 3 | J |
| | Unknown | 13.52 | 3 | J |
| 000057-10-3 | HEXADECANOIC ACID | 21.61 | 7 | JNXB |

R

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW40-93
MW409
9-29-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970947320

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 510 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium___ | 28.3 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 37,700 | | | P |
| 7440-47-3 | Chromium_ | 3.4 | B | | P |
| 7440-48-4 | Cobalt___ | 1.4 | B | | P |
| 7440-50-8 | Copper___ | U 3.4 | B | | P |
| 7439-89-6 | Iron_____ | 1810 | | | P |
| 7439-92-1 | Lead_____ | U 5.4 | | | P |
| 7439-95-4 | Magnesium | 11800 | | | P |
| 7439-96-5 | Manganese | 561 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 5.1 | B | | P |
| 7440-09-7 | Potassium | J 1180 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | U 4950 | B | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.6 | B | | P |
| 7440-66-6 | Zinc_____ | U 14.8 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93 9-29-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | U | 15 | |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015615.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | U 7 | 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015615.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW409

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_165.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-082  SDG No.: 09403

Matrix: (soil/water) WATER  Lab Sample ID: 970947320

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1001V11.D

Level: (low/med) LOW  Date Received: 09/30/97

% Moisture: not dec.  Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | ~~UNKNOWN HYDROCARBON~~ | ~~2.78~~ | ~~11~~ | ~~J~~ RB |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015615.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.61~~ | ~~5~~ | ~~JNXB~~ |

R

VALIDATED

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW41-03

MW41

Lab Name: AMERICAN ENVIRONMENTAL NE Contract: _____

Lab Code: AEN___ Case No: 2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER Lab Sample ID: 971002009

Level (low/med): LOW Date Received: 10/01/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 486 | | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 27.8 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 55200 | | | P |
| 7440-47-3 | Chromium | 7.0 | B | | P |
| 7440-48-4 | Cobalt | 1.3 | B | | P |
| 7440-50-8 | Copper | 11.6 | B | | P |
| 7439-89-6 | Iron | 861 | | | P |
| 7439-92-1 | Lead | 3.2 | | | P |
| 7439-95-4 | Magnesium | 18500 | | | P |
| 7439-96-5 | Manganese | 280 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 7.8 | B | | P |
| 7440-09-7 | Potassium | J 964 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | UJ 9560 | | E | P |
| 7440-28-0 | Thallium | U 2.4 | B | | P |
| 7440-62-2 | Vanadium | 1.3 | B | | P |
| 7440-66-6 | Zinc | U 30.3 | | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW41-03

Lab Name: IEA-NC  Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002009

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1003K04.D

Level: (low/med) LOW  Date Received: 10/01/97

% Moisture: not dec.  Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW41-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017606.D

Level: (low/med) LOW Date Received: 10/01/97 (1)

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97 (14)

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER=1.00

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 34 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED CLIENT SAMPLE NO.

ACS-GWMW41-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017606.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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-Chloropheny'-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW41-03

MW41

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_280.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL multiplier = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
ACS-GWMW41-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K04.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.82 | JN 5 | JN |

FORM I VOA-TIC

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW41-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017606.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.63 | JN 6 | J |
| | UNKNOWN | 13.07 | J 2 | J |
| | ~~UNKNOWN~~ | ~~13.14~~ | ~~B 8~~ | ~~JB~~ |
| | UNKNOWN | 13.47 | JN 5 | J |
| | ~~UNKNOWN~~ | ~~13.86~~ | ~~B 11~~ | ~~JB~~ |
| ~~001002-84-2~~ | ~~PENTADECANOIC ACID~~ | ~~21.52~~ | ~~B 3~~ | ~~JNX~~ |

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW42-03
MW42
9-26-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970945013

Level (low/med): LOW__ Date Received: 09/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1880 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 13.1 | _ | | P_ |
| 7440-39-3 | Barium___ | 96.6 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 118000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 14.5 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 2.5 | B | | P_ |
| 7440-50-8 | Copper___ | 21.9 | B | | P_ |
| 7439-89-6 | Iron_____ | 11100 | _ | | P_ |
| 7439-92-1 | Lead_____ | U 5.7 | _ | | P_ |
| 7439-95-4 | Magnesium | 44400 | _ | | P_ |
| 7439-96-5 | Manganese | 697 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.4 | B | | P_ |
| 7440-09-7 | Potassium | J 2350 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 18000 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 4.0 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 30.4 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | | __ |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V05.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | J ~~U~~ JAH 41 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

FORM I SV-2

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW42

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_159.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V05.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 23.85 | 6 | J |

VALIDATED

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.67 | 5 | J |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW46-03
MW46
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942507

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 186 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.8 | B | | P_ |
| 7440-39-3 | Barium___ | 126 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 115,000 | | | P_ |
| 7440-47-3 | Chromium_ | 1.9 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 2.6 | B | | P_ |
| 7439-89-6 | Iron_____ | 19,000 | | | P_ |
| 7439-92-1 | Lead_____ | U 1.6 | B | | P_ |
| 7439-95-4 | Magnesium | 30,900 | | | P_ |
| 7439-96-5 | Manganese | 1390 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 4.4 | B | | P_ |
| 7440-09-7 | Potassium | J 1190 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 70,000 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc_____ | U 11.8 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017603.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | 75 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017603.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

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

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW43

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_160.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017603.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.62 | 10 | J |
| | Unknown | 13.44 | 5 | J |

VALIDATED

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GW-MW44-03

MW44

Lab Name: AMERICAN ENVIRONMENTAL NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER Lab Sample ID: 971002113

Level (low/med): LOW Date Received: 10/01/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 457 | | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 11.2 | | | P |
| 7440-39-3 | Barium | 112 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 83300 | | | P |
| 7440-47-3 | Chromium | 4.0 | B | | P |
| 7440-48-4 | Cobalt | 1.0 | U | | P |
| 7440-50-8 | Copper | 3.9 | B | | P |
| 7439-89-6 | Iron | 2510 | | | P |
| 7439-92-1 | Lead | 1.0 | U | | P |
| 7439-95-4 | Magnesium | 34500 | | | P |
| 7439-96-5 | Manganese | 44.2 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 3.6 | B | | P |
| 7440-09-7 | Potassium | 1370 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | 18900 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | 12.1 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW44-03

Lab Name: IEA-NC

Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA

Case No.: 2240-088

SDG No.: 09475

Matrix: (soil/water) WATER

Lab Sample ID: 971002113

Sample wt/vol: 5 (g/mL) ml

Lab File ID: 1003V11.D

Level: (low/med) LOW

Date Received: 10/01/97 ①

% Moisture: not dec.

Date Analyzed: 10/04/97 ②

GC Column: DB-624 ID: .530(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CRQL MULTIPLIER=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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW44-03

Lab Name: IEA-NC  Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1021811.D

Level: (low/med) LOW  Date Received: 10/01/97

% Moisture: decanted: (Y/N)  Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:  CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 11 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | J 9 | J |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021811.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 15 | |
| 117-84-0 | Di-N-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW44-03-*
MW44

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_274.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V11.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021811.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 7

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 10.70 | JN 2 | JN |
| | SUBSTITUTED ETHANOL ISOMER | 13.53 | 18 | J |
| | UNKNOWN | 14.12 | 2 | J |
| | UNKNOWN | 14.30 | 2 | J |
| | UNKNOWN | 14.75 | 7 | J |
| | UNKNOWN | 14.87 | 2 | J |
| 000057-10-3 | HEXADECANOIC ACID | 23.46 | 3 | JNX |

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW45-03

MW45

Lab Name: AMERICAN ENVIRONMENTAL NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER Lab Sample ID: 971002010

Level (low/med): LOW Date Received: 10/01/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | U 100 | B | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 43.5 | | | P |
| 7440-39-3 | Barium | 110 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 112000 | | | P |
| 7440-47-3 | Chromium | U 3.0 | B | | P |
| 7440-48-4 | Cobalt | 3.4 | B | | P |
| 7440-50-8 | Copper | 9.1 | B | | P |
| 7439-89-6 | Iron | 15900 | | | P |
| 7439-92-1 | Lead | 8.8 | | | P |
| 7439-95-4 | Magnesium | 28400 | | | P |
| 7439-96-5 | Manganese | 480 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | B | | P |
| 7440-09-7 | Potassium | J 8350 | | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 101000 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | U 16.0 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW45-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002010

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1003K13.D

Level: (low/med) LOW  Date Received: 10/01/97 (1)

% Moisture: not dec.  Date Analyzed: 10/03/97 (3)

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 8.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 8.00

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 80 | U |
| 74-83-9 | Bromomethane | 80 | U |
| 75-01-4 | Vinyl Chloride | 80 | U |
| 75-00-3 | Chloroethane | 120 | |
| 75-09-2 | Methylene Chloride | 80 | U |
| 67-64-1 | Acetone | 80 | U |
| 75-15-0 | Carbon Disulfide | 80 | U |
| 75-35-4 | 1,1-Dichloroethene | 80 | U |
| 75-34-3 | 1,1-Dichloroethane | 80 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 80 | U |
| 67-66-3 | Chloroform | 80 | U |
| 107-06-2 | 1,2-Dichloroethane | 80 | U |
| 78-93-3 | 2-Butanone | 80 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 80 | U |
| 56-23-5 | Carbon Tetrachloride | 80 | U |
| 75-27-4 | Bromodichloromethane | 80 | U |
| 78-87-5 | 1,2-Dichloropropane | 80 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 80 | U |
| 79-01-6 | Trichloroethene | 80 | U |
| 124-48-1 | Dibromochloromethane | 80 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 80 | U |
| 71-43-2 | Benzene | 860 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 80 | U |
| 75-25-2 | Bromoform | 80 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 80 | U |
| 591-78-6 | 2-Hexanone | 80 | U |
| 127-18-4 | Tetrachloroethene | 80 | U |
| 108-88-3 | Toluene | 80 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 80 | U |
| 108-90-7 | Chlorobenzene | 26 | J |
| 100-41-4 | Ethylbenzene | 80 | U |
| 100-42-5 | Styrene | 80 | U |
| 1330-20-7 | Xylene (total) | 33 | J |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW45-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021808.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: CALL MULTIPLIER = 2.00

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 50 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | J | 13 | J |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | J | 3 | J |
| 95-50-1 | 1,2-Dichlorobenzene | J | 5 | J |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | J | 7 | J |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 100 | |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | J | 5 | J |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.
ACS-GWMW45-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  DATE SAMPLED: 9/30/97  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1021808.D

Level: (low/med) LOW  Date Received: 10/01/97 (1)

% Moisture: decanted: (Y/N)  Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/21/97 (18)

Injection Volume: 2.0 (uL)  Dilution Factor: 2.0

GPC Cleanup: (Y/N) N  pH:  CRQLMULTIPLIER=2.00

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

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW45-03

MW45

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_281.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLER = 1.00

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW45-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K13.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | SUBSTITUTED BENZENE | 22.38 | JN 260 | J |
| | SUBSTITUTED BENZENE | 23.38 | 72 | J |
| | UNKNOWN AROMATIC | 23.80 | 55 | J |
| 000091-20-3 | NAPHTHALENE | 27.46 | 150 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW45-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021808.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000103-65-1 | BENZENE, PROPYL- | 9.30 | JN 11 | JN |
| | TRIMETHYL BENZENE ISOMER | 9.59 | 20 | J |
| | TRIMETHYL BENZENE ISOMER | 10.12 | 150 | J |
| | TRIMETHYL BENZENE ISOMER | 10.69 | 63 | J |
| | UNKNOWN | 11.66 | 36 | J |
| | TETRAMETHYL BENZENE ISOMER | 12.47 | 10 | J |
| | SUBSTITUTED METHYLINDENE ISOMER | 12.84 | 6 | J |
| | SUBSTITUTED METHYLINDENE ISOMER | 13.04 | 14 | J |
| | SUBSTITUTED ETHANOL ISOMER | 13.54 | 16 | J |
| | UNKNOWN | 14.76 | 7 | J |
| 000090-12-0 | NAPHTHALENE, 1-METHYL- | 15.72 | 10 | JN |
| | METHYLATED BENZOIC ACID ISOMER | 16.05 | 6 | J |
| | SUBSTITUTED BENZENE ISOMER | 16.36 | 17 | J |
| | METHYLATED BENZOIC ACID ISOMER | 16.84 | 8 | J |
| | UNKNOWN | 17.75 | 5 | J |
| | UNKNOWN | 18.08 | 32 | J |
| | UNKNOWN | 18.51 | 9 | J |
| | UNKNOWN | 18.97 | 5 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 19.29 | 14 | JN |
| 000057-10-3 | HEXADECANOIC ACID | 23.47 | 5 | JNX |

→ 000101-10-0 PROPANOIC ACID, 2-(3-CHLOROPHENOXY) 19.29 JN 14 JN

FORM I SV-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03 9-24-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K07.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 2 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015612.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| 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 | 5 | J |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine UJ | 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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015612.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW46

Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_143.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K07.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000108-20-3 | DIISOPROPYL ETHER | 7.67 | 13 | JN |

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015612.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 015980-15-1 | 1,4-OXATHIANE | 7.02 | 2 | JN |
| | Unknown | 10.60 | 6 | J |
| 000088-19-7 | BENZENESULFONAMIDE, 2-METHYL | 18.30 | 3 | JN |
| 000070-55-3 | BENZENESULFONAMIDE, 4-METHYL | 18.75 | 3 | JN |
| | Unknown | 21.70 | 3 | J |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW47-03
MW47
10-1-97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

atrix (soil/water): WATER Lab Sample ID: 971004702

evel (low/med): LOW__ Date Received: 10/02/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | J 724 | | N | P |
| 7440-36-0 | Antimony | U 1.2 | B | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 12.6 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 13700 | | | P |
| 7440-47-3 | Chromium | U 2.1 | B | | P |
| 7440-48-4 | Cobalt | 1.7 | B | | P |
| 7440-50-8 | Copper | 6.0 | B | | P |
| 7439-89-6 | Iron | 569 | | | P |
| 7439-92-1 | Lead | 8.3 | | | P |
| 7439-95-4 | Magnesium | 3990 | B | | P |
| 7439-96-5 | Manganese | 17.2 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 3.4 | B | | P |
| 7440-09-7 | Potassium | J 959 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | U 6750 | | | P |
| 7440-28-0 | Thallium | U 4.3 | B | | P |
| 7440-62-2 | Vanadium | 1.9 | B | | P |
| 7440-66-6 | Zinc | U 19.5 | B | | P |
| | Cyanide | 10.0 | U | | CA |

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03 10-1-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009604.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 39 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | uJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | uJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009604.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | u5 | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 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 | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | u | 3 | J |
| 117-84-0 | Di-N-Octylphthalate | | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW47

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4101797_045.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/06/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009604.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.40 | 2 | J |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.79 | 10 | JN |
| | UNKNOWN | 13.58 | 3 | J |
| | UNKNOWN | 23.96 | 2 | J |

VALIDATED

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW48-03

MW48

Lab Name: AMERICAN ENVIRONMENTAL NE Contract: _____

Lab Code: AEN___ Case No: 2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER_ Lab Sample ID: 971002011

Level (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 330 | | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 12.5 | | | P |
| 7440-39-3 | Barium | 141 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 107000 | | | P |
| 7440-47-3 | Chromium | 7.8 | B | | P |
| 7440-48-4 | Cobalt | 3.5 | B | | P |
| 7440-50-8 | Copper | 13.4 | B | | P |
| 7439-89-6 | Iron | 24500 | | | P |
| 7439-92-1 | Lead | 7.7 | | | P |
| 7439-95-4 | Magnesium | 15100 | | | P |
| 7439-96-5 | Manganese | 504 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 19.0 | B | | P |
| 7440-09-7 | Potassium | J 8270 | | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 42700 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 1.6 | B | | P |
| 7440-66-6 | Zinc | N 52.9 | | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW48-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002011

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1003V09.D

Level: (low/med) LOW  Date Received: 10/01/97

% Moisture: not dec.  Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530 (mm)  Dilution Factor: 50

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 50.0

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 500 | U |
| 74-83-9 | Bromomethane | 500 | U |
| 75-01-4 | Vinyl Chloride | 500 | U |
| 75-00-3 | Chloroethane | 980 | |
| 75-09-2 | Methylene Chloride | 500 | U |
| 67-64-1 | Acetone | 500 | U |
| 75-15-0 | Carbon Disulfide | 500 | U |
| 75-35-4 | 1,1-Dichloroethene | 500 | U |
| 75-34-3 | 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 | 500 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500 | U |
| 56-23-5 | Carbon Tetrachloride | 500 | 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 | 9500 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 500 | U |
| 75-25-2 | Bromoform | 500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 500 | U |
| 591-78-6 | 2-Hexanone | 500 | U |
| 127-18-4 | Tetrachloroethene | 500 | U |
| 108-88-3 | Toluene | 500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500 | U |
| 108-90-7 | Chlorobenzene | 500 | U |
| 100-41-4 | Ethylbenzene | 500 | U |
| 100-42-5 | Styrene | 500 | U |
| 1330-20-7 | Xylene (total) | 500 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW48-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017609.D

Level: (low/med) LOW Date Received: 10/01/97 (1)

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97 (14)

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | J 8 | 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW48-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017609.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW48-03

MW48

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_282.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
ACS-GWMW48-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V09.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW48-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017609.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.68 | JN 11 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETHYL- | 9.92 | 290 | JN |
| | UNKNOWN | 11.05 | 16 | J |
| | UNKNOWN | 11.58 | 19 | J |
| | UNKNOWN | 11.75 | 14 | J |
| | METHYLATED BENZOIC ACID ISOMER | 13.71 | 9 | J |
| | CHLORINATED BENZOIC ACID ISOMER | 14.74 | 67 | J |
| | UNKNOWN | 15.04 | 23 | J |
| | UNKNOWN | 15.23 | 28 | J |
| 000499-06-9 | BENZOIC ACID, 2,5-DIMETHYL- | 15.49 | 12 | JN |
| | UNKNOWN | 15.93 | 12 | J |
| | UNKNOWN | 16.42 | 12 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.65 | 23 | JN |
| | UNKNOWN | 16.93 | 210 | J |
| | UNKNOWN | 16.99 | 8 | J |
| | UNKNOWN | 17.33 | 15 | J |
| 000076-73-3 | SECOBARBITAL | 20.22 | 19 | JN |
| | UNKNOWN | 21.12 | 27 | J |
| | UNKNOWN | 25.00 | 12 | J |
| | UNKNOWN | 25.64 | 54 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW149-03

MW49

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/24/97

atrix (soil/water): WATER Lab Sample ID: 970939914

evel (low/med): LOW__ VALIDATED Date Received: 09/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1130 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 37.3 | | | P_ |
| 7440-39-3 | Barium___ | 120 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 80300 | | | P_ |
| 7440-47-3 | Chromium_ | 9.6 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.5 | B | | P_ |
| 7440-50-8 | Copper___ | J 6.3 | B | | P_ |
| 7439-89-6 | Iron____ | 28200 | | | P_ |
| 7439-92-1 | Lead____ | 3.3 | | | P_ |
| 7439-95-4 | Magnesium | J 9980 | | | P_ |
| 7439-96-5 | Manganese | 2210 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 11.7 | B | | P_ |
| 7440-09-7 | Potassium | J 5480 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 25800 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.8 | B | | P_ |
| 7440-66-6 | Zinc____ | 4 44.0 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: [redacted] Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) [redacted] Lab Sample ID: 970939914

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930108.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: .53 (mm) Dilution Factor: [redacted]

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 400 | U |
| 74-83-9 | Bromomethane | | 400 | U |
| 75-01-4 | Vinyl Chloride | | 400 | U |
| 75-00-3 | Chloroethane | | [redacted] | |
| 75-09-2 | Methylene Chloride | UJ | 400 | U |
| 67-64-1 | Acetone | | 400 | U |
| 75-15-0 | Carbon Disulfide | UJ | 400 | U |
| 75-35-4 | 1,1-Dichloroethene | | 400 | U |
| 75-34-3 | 1,1-Dichloroethane | | 400 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 400 | U |
| 67-66-3 | Chloroform | | 400 | U |
| 107-06-2 | 1,2-Dichloroethane | | 400 | U |
| 78-93-3 | 2-Butanone | | 400 | U |
| 71-55-6 | 1,1,1-Trichloroethane | UJ | 400 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 400 | U |
| 75-27-4 | Bromodichloromethane | | 400 | U |
| 78-87-5 | 1,2-Dichloropropane | | 400 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 400 | U |
| 79-01-6 | Trichloroethene | | 400 | U |
| 124-48-1 | Dibromochloromethane | | 400 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 400 | U |
| 71-43-2 | Benzene | | 8200 | E |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 400 | U |
| 75-25-2 | Bromoform | | 400 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 400 | U |
| 591-78-6 | 2-Hexanone | UJ | 400 | U |
| 127-18-4 | Tetrachloroethene | | 400 | U |
| 108-88-3 | Toluene | | 400 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 400 | U |
| 108-90-7 | Chlorobenzene | | 400 | U |
| 100-41-4 | Ethylbenzene | | 400 | U |
| 100-42-5 | Styrene | | 400 | U |
| 1330-20-7 | Xylene (total) | | 400 | U |

FORM I VOA

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | [redacted] | |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | [redacted] | |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | [redacted] | |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 1 | J |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 11 | J |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW49

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_242.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW49-03

ab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

atrix: (soil/water) WATER Lab Sample ID: 970939914

ample wt/vol: 5 (g/mL) ml Lab File ID: 0930108.D

evel: (low/med) LOW Date Received: 09/25/97

Moisture: not dec. Date Analyzed: 09/30/97

C Column: DB-624 ID: .53 (mm) Dilution Factor: 40.0

oil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Nu er TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 24.40 | [redacted] | [redacted] |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 004740-00-5 | THIOPHENE, TETRAHYDRO-3-METH | 6.77 | 14 | JN |
| | Unknown | 7.15 | 8 | J |
| | Unknown | 7.51 | 8 | J |
| 000541-85-5 | 3-HEPTANONE, 5-METHYL- | 8.21 | 15 | JN |
| | Unknown | 9.77 | 9 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETH | 10.11 | 1100 | JN |
| | Unknown | 10.69 | 21 | J |
| | Unknown | 11.06 | 21 | J |
| | Unknown | 11.68 | 10 | J |
| | Unknown | 13.58 | 13 | J |
| 000112-26-5 | ETHANE, 1,2-BIS(2-CHLOROETHO | 13.76 | 16 | JN |
| | Unknown | 14.41 | 13 | J |
| | Chlorobenzoic acid isomer | 14.71 | 24 | J |
| | Unknown | 14.91 | 10 | J |
| | Substituted Benzene Isomer | 17.08 | 180 | J |
| 000098-57-7 | BENZENE, 1-CHLORO-4-(METHYLS | 17.43 | 9 | JN |
| | Unknown | 17.48 | 8 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.83 | 9 | JN |
| | Unknown | 21.28 | 40 | J |
| | Unknown | 25.81 | 74 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW49-93
MW499
9-24-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970940302

Level (low/med): LOW__ Date Received: 09/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1010 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 39.1 | | | P_ |
| 7440-39-3 | Barium___ | 149 | B | | P_ |
| 7440-41-7 | Beryllium | 1.1 | B | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 84,300 | | | P_ |
| 7440-47-3 | Chromium_ | 13.2 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.6 | B | | P_ |
| 7440-50-8 | Copper___ | 12.5 | B | | P_ |
| 7439-89-6 | Iron____ | 29,200 | | | P_ |
| 7439-92-1 | Lead____ | U 4.3 | | | P_ |
| 7439-95-4 | Magnesium | 10,700 | | | P_ |
| 7439-96-5 | Manganese | 2450 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 14.9 | B | | P_ |
| 7440-09-7 | Potassium | J 6320 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 28,000 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.9 | B | | P_ |
| 7440-66-6 | Zinc____ | U 34.9 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93
9-24-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V05.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 500 | U |
| 74-83-9 | Bromomethane | 500 | U |
| 75-01-4 | Vinyl Chloride | 500 | U |
| 75-00-3 | Chloroethane | 520 | |
| 75-09-2 | Methylene Chloride | 500 | U |
| 67-64-1 | Acetone | 500 | U |
| 75-15-0 | Carbon Disulfide | 500 | U |
| 75-35-4 | 1,1-Dichloroethene | 500 | U |
| 75-34-3 | 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 | 500 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500 | U |
| 56-23-5 | Carbon Tetrachloride | 500 | 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 | 5300 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 500 | U |
| 75-25-2 | Bromoform | 500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 500 | U |
| 591-78-6 | 2-Hexanone | 500 | U |
| 127-18-4 | Tetrachloroethene | 500 | U |
| 108-88-3 | Toluene | 500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500 | U |
| 108-90-7 | Chlorobenzene | 500 | U |
| 100-41-4 | Ethylbenzene | 500 | U |
| 100-42-5 | Styrene | 500 | U |
| 1330-20-7 | Xylene (total) | 500 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | 120 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | J | 25 | |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 20 | U |
| 67-72-1 | Hexachloroethane | UJ | 20 | U |
| 98-95-3 | Nitrobenzene | | 20 | U |
| 78-59-1 | Isophorone | | 6 | J |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

L. Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 05-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| -73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 0-12-7 | Anthracene | 20 | U |
| -74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

VT

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW499

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_139.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V05.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 004740-00-5 | THIOPHENE, TETRAHYDRO-3-METHYL- | 6.75 | 10 | JN |
| | Unknown | 8.19 | 15 | J |
| | Unknown | 9.36 | 7 | J |
| | Unknown | 9.85 | 10 | J |
| | Unknown | 10.68 | 23 | J |
| | Unknown | 11.07 | 19 | J |
| | Unknown | 11.68 | 9 | J |
| | Unknown | 11.78 | 8 | J |
| | Unknown | 12.54 | 7 | J |
| | Unknown | 12.83 | 24 | J |
| | ~~Unknown~~ | ~~13.32~~ | ~~7~~ | ~~J~~ BR |
| | Unknown | 13.61 | 10 | J |
| 000112-26-5 | ETHANE, 1,2-BIS(2-CHLOROETHOXY)- | 13.75 | 14 | JN |
| | Chlorobenzoic acid isomer | 14.71 | 24 | J |
| | Unknown | 14.90 | 8 | J |
| | Unknown | 17.07 | 170 | J |
| 000098-57-7 | BENZENE, 1-CHLORO-4-(METHYLSULFONYL)- | 17.43 | 7 | JN |
| | Unknown | 17.48 | 10 | J |
| | Unknown | 21.28 | 40 | J |
| | Unknown | 25.81 | 70 | J |

FORM I SV-TIC

VALIDATED

E

# APPENDIX E

## LOWER AQUIFER LABORATORY DATA

*One copy of Appendix E has been provided to U.S. EPA, IDEM, and B&VWS. Additional copies of the appendix are available upon request to Montgomery Watson.*

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
AES-GWM4D-03

WM4D

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

La ode: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

9/23/97

Matrix (soil/water): WATER Lab Sample ID: 970936706

VALIDATED

Level (low/med): LOW__ Date Received: 09/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | J 1140 | | N | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 177 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | J 88000 | | | P |
| 7440-47-3 | Chromium | 13.7 | | | P |
| 7440-48-4 | Cobalt | 1.2 | B | | P |
| 7440-50-8 | Copper | U 4.2 | B | | P |
| 7439-89-6 | Iron | 2990 | | | P |
| 7439-92-1 | Lead | 3.1 | | | P |
| 7439-95-4 | Magnesium | J 41000 | | | P |
| 7439-96-5 | Manganese | 56.4 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 11.6 | B | | P |
| 7440-09-7 | Potassium | J 4640 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 70600 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | B | | P |
| 7440-66-6 | Zinc | U 13.1 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4D-03

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926107.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | UJ 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | UJ 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007609.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007609.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 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 | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | ~~2~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM4D

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

I Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_235.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926107.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970935706

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007609.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.78 | 2 | J |
| | Unknown | 9.80 | 2 | J |
| | Unknown | 9.85 | 4 | J |
| | Unknown | 11.23 | 58 | J |
| | Unknown | 12.59 | 3 | J |
| | Unknown | 13.35 | 2 | J |
| | Unknown | 14.08 | 6 | J |
| | Substituted Benzene Isomer | 17.06 | 4 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.86 | 3 | JN |

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
AGS-GWMW07-03

MW07

9/24/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

atrix (soil/water): WATER Lab Sample ID: 970940119

evel (low/med): LOW__ VALIDATED Date Received: 09/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | J 1280 | | N | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 132 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | J 102000 | | | P |
| 7440-47-3 | Chromium | 44.0 | | | P |
| 7440-48-4 | Cobalt | 1.9 | B | | P |
| 7440-50-8 | Copper | J 11.3 | B | | P |
| 7439-89-6 | Iron | 5570 | | | P |
| 7439-92-1 | Lead | 3.9 | | | P |
| 7439-95-4 | Magnesium | J 28600 | | | P |
| 7439-96-5 | Manganese | 205 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 31.0 | B | | P |
| 7440-09-7 | Potassium | J 2190 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 20200 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 2.8 | B | | P |
| 7440-66-6 | Zinc | 4 29.6 | | | P |
| | Cyanide | 10.0 | U | | CA |

olor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]3

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: [redacted] Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) [redacted] Lab Sample ID: 970940119

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: [redacted]

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: [redacted]
(ug/L or ug/Kg)

| 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 | UJ | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | UJ | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | UJ | 10 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | [redacted] | | [redacted] | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | [redacted] |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-03

ɔ Name: IEA-NC Method: SOW 1/91

ɔ Code: IEA Case No.: 2240-080 SDG No.: 09367

trix: (soil/water) WATER Lab Sample ID: 970940119

mple wt/vol: 1000 (g/mL) ml Lab File ID: 1008612.D

vel: (low/med) LOW Date Received: 09/25/97

Moisture: decanted: (Y/N) Date Extracted: 09/29/97

ncentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

jection Volume: 2.0 (uL) Dilution Factor: 1.0

C Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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[illegible]3-7 | Fluorene | 10 | U |
| 10[illegible]01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84[illegible]-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 | 10 | 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-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW07

J Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_247.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW07-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 14

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.81 | [illegible] | [illegible] |
| | Unknown | 9.82 | 16[illegible] | [illegible] |
| 000098-86-2 | ACETOPHENONE | 10.55 | [illegible] | [illegible]N |
| | Unknown | 10.61 | [illegible] | [illegible]J |
| | Unknown | 11.42 | [illegible] | [illegible]J |
| | Unknown | 13.63 | [illegible] | [illegible]J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.94 | [illegible] | JN |
| 000122-59-8 | ACETIC ACID, PHENOXY- | 15.42 | [illegible] | JN |
| | Substituted Benzene Isomer | 16.62 | [illegible] | [illegible] |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.79 | [illegible] | JN |
| 000098-57-7 | BENZENE, 1-CHLORO-4-(METHYLS | 17.47 | [illegible] | JN |
| | Unknown | 21.26 | 12[illegible] | JN |
| 002440-22-4 | DROMETRIZOLE | 23.09 | 18[illegible] | JN |
| | Unknown | 30.61 | 2[illegible] | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA-SAMPLE NO.
ACS-GWMW08-03

MW08

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/24/97

atrix (soil/water): WATER Lab Sample ID: 970939915

evel (low/med): LOW__ VALIDATED Date Received: 09/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 839 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 6.1 | B | | P |
| 7440-39-3 | Barium___ | 111 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 55200 | | | P |
| 7440-47-3 | Chromium_ | 36.9 | | | P |
| 7440-48-4 | Cobalt___ | 1.8 | B | | P |
| 7440-50-8 | Copper___ | U 7.3 | B | | P |
| 7439-89-6 | Iron____ | 3420 | | | P |
| 7439-92-1 | Lead____ | 3.1 | | | P |
| 7439-95-4 | Magnesium | J 17700 | | | P |
| 7439-96-5 | Manganese | 134 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 23.2 | B | | P |
| 7440-09-7 | Potassium | J 1410 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 13500 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 2.0 | B | | P |
| 7440-66-6 | Zinc____ | U 33.7 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AGSAGMW08-03

9/24/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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 |
| [illegible]-09-2 | Methylene Chloride | UJ | 10 | U |
| [illegible]-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | UJ | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| [illegible]-55-6 | 1,1,1-Trichloroethane | UJ | 10 | U |
| [illegible]-23-5 | Carbon Tetrachloride | UJ | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| [illegible]00-42-5 | Styrene | | 10 | U |
| [illegible]30-20-7 | Xylene (total) | | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | [redacted] | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

I Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| AS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 905-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| -73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| -74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW08

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_243.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

ORIGINAL

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.80 | 33 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.91 | 8 | JN |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW09-03

MW09

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/29/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 970947502

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 863 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 3.4 | B | | P_ |
| 7440-39-3 | Barium___ | 349 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 155000 | | | P_ |
| 7440-47-3 | Chromium_ | 12.3 | | | P_ |
| 7440-48-4 | Cobalt___ | 6.0 | B | | P_ |
| 7440-50-8 | Copper___ | 4 6.0 | B | | P_ |
| 7439-89-6 | Iron_____ | 16900 | | | P_ |
| 7439-92-1 | Lead____ | 2.9 | B | | P_ |
| 7439-95-4 | Magnesium | 26100 | | | P_ |
| 7439-96-5 | Manganese | 219 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.6 | B | | P_ |
| 7440-09-7 | Potassium | J 11000 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 66400 | | E | P_ |
| 7440-28-0 | Thallium_ | 4 2.1 | B | | P_ |
| 7440-62-2 | Vanadium_ | 5.4 | B | | P_ |
| 7440-66-6 | Zinc_____ | 4 23.4 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: PINK_____ Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-03

DATE SAMPLED: 9/29/97

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V09.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 16

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 16.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 160 | U |
| 74-83-9 | Bromomethane | 160 | U |
| 75-01-4 | Vinyl Chloride | 160 | U |
| 75-00-3 | Chloroethane | 1800 | |
| 75-09-2 | Methylene Chloride | 160 | U |
| 67-64-1 | Acetone | 160 | U |
| 75-15-0 | Carbon Disulfide | 160 | U |
| 75-35-4 | 1,1-Dichloroethene | 160 | U |
| 75-34-3 | 1,1-Dichloroethane | 160 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 160 | U |
| 67-66-3 | Chloroform | 160 | U |
| 107-06-2 | 1,2-Dichloroethane | 160 | U |
| 78-93-3 | 2-Butanone | 160 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 160 | U |
| 56-23-5 | Carbon Tetrachloride | 160 | U |
| 75-27-4 | Bromodichloromethane | 160 | U |
| 78-87-5 | 1,2-Dichloropropane | 160 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 160 | U |
| 79-01-6 | Trichloroethene | 160 | U |
| 124-48-1 | Dibromochloromethane | 160 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 160 | U |
| 71-43-2 | Benzene | 290 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 160 | U |
| 75-25-2 | Bromoform | 160 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 160 | U |
| 591-78-6 | 2-Hexanone | 160 | U |
| 127-18-4 | Tetrachloroethene | 160 | U |
| 108-88-3 | Toluene | 160 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 160 | U |
| 108-90-7 | Chlorobenzene | 160 | U |
| 100-41-4 | Ethylbenzene | 160 | U |
| 100-42-5 | Styrene | 160 | U |
| 1330-20-7 | Xylene (total) | 160 | U |

VALIDATED

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/29/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F16.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 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 | 35 | |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 0.7 | J |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F16.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW09-03

MW09

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/29/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_258.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97 ①

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97 ③

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97 ⑪

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V09.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 16.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F16.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.21 | JN 8 | J |
| | UNKNOWN | 9.27 | 8 | J |
| | UNKNOWN | 9.47 | 10 | J |
| | UNKNOWN | 9.69 | 21 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETHYL- | 9.93 | 140 | JN |
| 000112-36-7 | ETHANE, 1,1'-OXYBIS[2-ETHOXY-] | 10.57 | 17 | JN |
| | UNKNOWN | 11.14 | 31 | J |
| | UNKNOWN | 11.69 | 7 | J |
| | ~~UNKNOWN~~ | ~~13.85~~ | ~~B 9~~ | ~~J~~ |
| | UNKNOWN | 13.90 | JN 7 | J |
| | UNKNOWN | 14.05 | 8 | J |
| | UNKNOWN | 14.10 | 8 | J |
| | UNKNOWN | 15.75 | 7 | J |
| | UNKNOWN | 15.99 | 12 | J |
| | UNKNOWN | 16.22 | 13 | J |
| | UNKNOWN | 19.74 | 9 | J |
| | UNKNOWN | 20.22 | 8 | J |
| | UNKNOWN | 21.17 | 10 | J |
| | UNKNOWN | 25.05 | 11 | J |
| | UNKNOWN | 25.69 | 15 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW10C-03

MW10C

9/24/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

La ode: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970940118

Level (low/med): LOW__ VALIDATED Date Received: 09/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 6990 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 10.1 | | | P_ |
| 7440-39-3 | Barium__ | 337 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 141000 | | | P_ |
| 7440-47-3 | Chromium_ | 360 | | | P_ |
| 7440-48-4 | Cobalt___ | 13.9 | B | | P_ |
| 7440-50-8 | Copper___ | J 45.5 | | | P_ |
| 7439-89-6 | Iron_ ___ | 21300 | | | P_ |
| 7439-92-1 | Lead____ | 18.9 | | | P_ |
| 7439-95-4 | Magnesium | J 65900 | | | P_ |
| 7439-96-5 | Manganese | 447 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 257 | | | P_ |
| 7440-09-7 | Potassium | J 7460 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 158000 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 14.8 | B | | P_ |
| 7440-66-6 | Zinc_____ | J 119 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001J06.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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 | 50 | U |
| 75-00-3 | Chloroethane | [illegible] | |
| 75-09-2 | Methylene Chloride | 50 | U |
| 67-64-1 | Acetone | 50 | U |
| 75-15-0 | Carbon Disulfide | 50 | U |
| 75-35-4 | 1,1-Dichloroethene | 50 | U |
| 75-34-3 | 1,1-Dichloroethane | 50 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 50 | U |
| 67-66-3 | Chloroform | 50 | U |
| 107-06-2 | 1,2-Dichloroethane | 50 | U |
| 78-93-3 | 2-Butanone | 50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | U |
| 56-23-5 | Carbon Tetrachloride | 50 | U |
| 75-27-4 | Bromodichloromethane | 50 | U |
| 78-87-5 | 1,2-Dichloropropane | 50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | U |
| 79-01-6 | Trichloroethene | 50 | U |
| 124-48-1 | Dibromochloromethane | 50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | U |
| 71-43-2 | Benzene | 50 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 50 | U |
| 75-25-2 | Bromoform | 50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 50 | U |
| 591-78-6 | 2-Hexanone | 50 | U |
| 127-18-4 | Tetrachloroethene | 50 | U |
| 108-88-3 | Toluene | 50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | U |
| 108-90-7 | Chlorobenzene | 50 | U |
| 100-41-4 | Ethylbenzene | 50 | U |
| 100-42-5 | Styrene | 50 | U |
| 1330-20-7 | Xylene (total) | 50 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | [redacted] | | [redacted] | [redacted] |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | [redacted] | [redacted] |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | ~~Bis(2-Ethylhexyl)Phthalate~~ | [illegible] | U |
| 117-84-0 | Di-N-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW10C

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_246.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW10C-03

Lab Name: IEA-NC  Method: SOW 1/91

Code: IEA  Case No.: 2240-080  SDG No.: 09367

Matrix: (soil/water) WATER  Lab Sample ID: 970940118

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1001J06.D

Level: (low/med) LOW  Date Received: 09/25/97

% Moisture: not dec.  Date Analyzed: 10/01/97

GC Column: DB-624 ID: 0.53 (mm)  Dilution Factor: 5.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER [illegible] | [illegible] | [illegible] | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- [illegible] | 8.87 | 170 | JN |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-080  SDG No.: 09367

Matrix: (soil/water) WATER  Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1008611.D

Level: (low/med) LOW  Date Received: 09/25/97

% Moisture: decanted: (Y/N)  Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/08/97

Injection Volume: 2 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 8.08 | 30 | J |
| | Unknown | 8.19 | 22 | J |
| | Unknown | 8.42 | 9 | J |
| | Propanol isomer | 9.37 | 52 | J |
| | Unknown | 9.43 | 47 | J |
| | Unknown | 9.80 | 19 | J |
| | Unknown | 9.85 | 12 | J |
| | Unknown | 10.48 | 14 | J |
| | Unknown | 11.41 | 9 | J |
| | Unknown | 12.02 | 13 | J |
| | Unknown | 12.87 | 14 | J |
| | Unknown | 14.32 | 12 | J |
| | Unknown | 15.19 | 33 | J |
| | Unknown | 15.83 | 10 | J |
| | Unknown | 16.62 | 14 | J |
| | Unknown | 16.91 | 12 | J |
| | Unknown | 20.98 | 9 | J |
| | Unknown | 22.00 | 16 | J |
| | Unknown | 23.61 | 32 | J |
| | Unknown | 25.22 | 9 | J |

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW21-03

MW21

Lab Name: AMERICAN ENVIRONMENTAL NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 10/01/97

Matrix (soil/water): WATER Lab Sample ID: 971004520

Level (low/med): LOW Date Received: 10/02/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | W 54.6 | B | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 182 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 95200 | | | P |
| 7440-47-3 | Chromium | 7.7 | B | | P |
| 7440-48-4 | Cobalt | 1.0 | B | | P |
| 7440-50-8 | Copper | W 4.8 | B | | P |
| 7439-89-6 | Iron | 2750 | | | P |
| 7439-92-1 | Lead | 1.4 | B | | P |
| 7439-95-4 | Magnesium | 26400 | | | P |
| 7439-96-5 | Manganese | 166 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | W 4.2 | B | | P |
| 7440-09-7 | Potassium | J 4330 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 38600 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | W 15.8 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC  Method: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971004520

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1005V12.D

Level: (low/med) LOW  Date Received: 10/02/97 (1)

% Moisture: not dec.  Date Analyzed: 10/05/97 (3)

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

CRQL MULTIPLIER=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 | | 10 | U |
| 67-64-1 | Acetone | U | 12 | |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  DATE SAMPLED: 10/01/97  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1021813.D

Level: (low/med) LOW  Date Received: 10/02/97

% Moisture: decanted: (Y/N)  Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 20 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021813.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW21-03
MW21

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-088 DATE SAMPLED: 10/01/97 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_272.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V12.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | JN 12 | JN |

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021813.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 10.70 | 6 | JN |
| | UNKNOWN | 11.38 | 9 | J |
| | UNKNOWN | 11.98 | 21 | J |
| | UNKNOWN | 13.46 | 7 | J |
| | SUBSTITUTED ETHANOL ISOMER | 13.53 | 13 | J |
| | UNKNOWN | 14.97 | 3 | J |
| | UNKNOWN | 17.94 | 6 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 18.02 | 2 | JN |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 19.26 | 3 | JN |
| | UNKNOWN | 23.65 | 23 | J |

000101-10-0 PROPANOIC ACID, 2-(3-CHLOROPHENOXY) 19.26 JN 3 JN

FORM I SV-TIC

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW22-03

MW22

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971002006

Level (low/med): LOW_ Date Received: 10/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 579 | | | P |
| 7440-36-0 | Antimony | U 3.8 | B | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 628 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 254000 | | | P |
| 7440-47-3 | Chromium | 19.7 | | | P |
| 7440-48-4 | Cobalt | 1.3 | B | | P |
| 7440-50-8 | Copper | 125 | | | P |
| 7439-89-6 | Iron | 1340 | | | P |
| 7439-92-1 | Lead | 6.8 | | | P |
| 7439-95-4 | Magnesium | 39100 | | | P |
| 7439-96-5 | Manganese | 48.6 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 17.6 | B | | P |
| 7440-09-7 | Potassium | J 24700 | | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 338000 | | E | P |
| 7440-28-0 | Thallium | U 2.6 | B | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | U 17.6 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW22-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V13.D

Level: (low/med) LOW Date Received: 10/01/97 (1)

% Moisture: not dec. Date Analyzed: 10/03/97 (3)

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-068 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017607.D

Level: (low/med) LOW Date Received: 10/01/97 1

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97 3

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 8.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 80 | U |
| 95-57-8 | 2-Chlorophenol | 80 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 80 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 80 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 80 | U |
| 95-48-7 | 2-Methylphenol | 80 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 80 | U |
| 106-44-5 | 4-Methylphenol | 80 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 80 | U |
| 67-72-1 | Hexachloroethane | 80 | U |
| 98-95-3 | Nitrobenzene | 80 | U |
| 78-59-1 | Isophorone | 80 | U |
| 88-75-5 | 2-Nitrophenol | 80 | U |
| 105-67-9 | 2,4-Dimethylphenol | 80 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 80 | U |
| 120-83-2 | 2,4-Dichlorophenol | 80 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 80 | U |
| 91-20-3 | Naphthalene | 80 | U |
| 106-47-8 | 4-Chloroaniline | 80 | U |
| 87-68-3 | Hexachlorobutadiene | 80 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 80 | U |
| 91-57-6 | 2-Methylnaphthalene | 80 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 80 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 80 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 200 | U |
| 91-58-7 | 2-Chloronaphthalene | 80 | U |
| 88-74-4 | 2-Nitroaniline | 200 | U |
| 131-11-3 | Dimethylphthalate | 80 | U |
| 208-96-8 | Acenaphthylene | 80 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 80 | U |
| 99-09-2 | 3-Nitroaniline | 200 | U |
| 83-32-9 | Acenaphthene | 80 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW22-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017607.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 200 | U |
| 100-02-7 | 4-Nitrophenol | 200 | U |
| 132-64-9 | Dibenzofuran | 80 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 80 | U |
| 84-66-2 | Diethylphthalate | 80 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 80 | U |
| 86-73-7 | Fluorene | 80 | U |
| 100-01-6 | 4-Nitroaniline | 200 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 200 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 80 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 80 | U |
| 118-74-1 | Hexachlorobenzene | 80 | U |
| 87-86-5 | Pentachlorophenol | 200 | U |
| 85-01-8 | Phenanthrene | 80 | U |
| 120-12-7 | Anthracene | 80 | U |
| 86-74-8 | Carbazole | 80 | U |
| 84-74-2 | Di-N-Butylphthalate | 80 | U |
| 206-44-0 | Fluoranthene | 80 | U |
| 129-00-0 | Pyrene | 80 | U |
| 85-68-7 | Butylbenzylphthalate | 80 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 80 | U |
| 56-55-3 | Benzo(A)Anthracene | 80 | U |
| 218-01-9 | Chrysene | 80 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 80 | U |
| 117-84-0 | Di-N-Octylphthalate | 80 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 80 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 80 | U |
| 50-32-8 | Benzo(A)Pyrene | 80 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 80 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 80 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 80 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW22-03

MW22

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

DATE SAMPLED: 9/30/97

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_275.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW22-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V13.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.44 | JN 9 | JN |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.88 | ↓ 25 | JN |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW22-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017607.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.62 | JN 7 | J |
| | UNKNOWN | 10.95 | ↓ 10 | J |
| | UNKNOWN | 13.46 | ↓ 4 | J |

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW23-03
MW23
9-25-97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

atrix (soil/water): WATER Lab Sample ID: 970942506

evel (low/med): LOW__ Date Received: 09/26/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 2440 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 3.5 | B | | P_ |
| 7440-39-3 | Barium___ | 133 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 84,800 | _ | | P_ |
| 7440-47-3 | Chromium_ | 18.6 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 4.7 | B | | P_ |
| 7440-50-8 | Copper___ | 19.6 | B | | P_ |
| 7439-89-6 | Iron_____ | 11,300 | _ | | P_ |
| 7439-92-1 | Lead_____ | u 7.7 | _ | | P_ |
| 7439-95-4 | Magnesium | 23,800 | _ | | P_ |
| 7439-96-5 | Manganese | 377 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 19.6 | B | | P_ |
| 7440-09-7 | Potassium | J 3940 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 75,300 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 6.7 | B | | P_ |
| 7440-66-6 | Zinc_____ | u 32.9 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | | __ |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K06.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010607.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 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 |
| 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010607.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | 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-Octylphthalate | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW23

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_142.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K06.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010607.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q | |
|---|---|---|---|---|---|
| | ~~Unknown~~ | ~~8.38~~ | ~~5~~ | ~~J~~ | BR |
| | Propanol isomer | 9.28 | 4 | J | |
| | Propanol isomer | 9.35 | 4 | J | |
| | Unknown | 11.01 | 9 | J | |
| | Unknown | 12.34 | 2 | J | |
| | ~~Unknown~~ | ~~14.00~~ | ~~2~~ | ~~J~~ | BR |
| | Unknown | 16.32 | 10 | J | |
| | Unknown | 16.53 | 6 | J | |
| | Unknown | 16.82 | 7 | J | |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ALS-GWMW24-03
MW24
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942508

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 9660 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 7.7 | B | | P |
| 7440-39-3 | Barium___ | 330 | | | P |
| 7440-41-7 | Beryllium | 1.2 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 161000 | | | P |
| 7440-47-3 | Chromium_ | 61.5 | | | P |
| 7440-48-4 | Cobalt___ | 8.9 | B | | P |
| 7440-50-8 | Copper___ | 57.9 | | | P |
| 7439-89-6 | Iron____ | 36300 | | | P |
| 7439-92-1 | Lead____ | 16.8 | | | P |
| 7439-95-4 | Magnesium | 45700 | | | P |
| 7439-96-5 | Manganese | 566 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 44.2 | | | P |
| 7440-09-7 | Potassium | J 6240 | | E | P |
| 7782-49-2 | Selenium_ | 2.6 | B | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 62900 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 19.8 | B | | P |
| 7440-66-6 | Zinc____ | 62.2 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K08.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010609.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 15 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 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 |
| 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010609.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 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 | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | J | 5 | J |
| 117-84-0 | Di-N-Octylphthalate | | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW24

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_144.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K08.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.82 | 5 | JN |

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010609.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.78 | 2 | J |
| | Unknown | 13.54 | 2 | J |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW28-03

M28

9/23/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

atrix (soil/water): WATER Lab Sample ID: 970936809

evel (low/med): LOW__ Date Received: 09/24/97

Solids: __0.0

VALIDATED

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 2850 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 4.9 | B | | P |
| 7440-39-3 | Barium___ | 123 | B | | P |
| 7440-41-7 | Beryllium | 1.1 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 96800 | | | P |
| 7440-47-3 | Chromium_ | 70.9 | | | P |
| 7440-48-4 | Cobalt___ | 6.4 | B | | P |
| 7440-50-8 | Copper___ | J 40.5 | | | P |
| 7439-89-6 | Iron_____ | 7090 | | | P |
| 7439-92-1 | Lead_____ | 11.4 | | | P |
| 7439-95-4 | Magnesium | J 39700 | | | P |
| 7439-96-5 | Manganese | 169 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 48.7 | | | P |
| 7440-09-7 | Potassium | J 2980 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 16400 | | E | P |
| 7440-28-0 | Thallium_ | U 2.5 | B | | P |
| 7440-62-2 | Vanadium_ | 7.1 | B | | P |
| 7440-66-6 | Zinc_____ | U 42.2 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AGS-GWMW28-03

9/25/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926110.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007610.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | 10 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007610.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 ~~25~~ | ~~JB~~ |
| 117-84-0 | Di-N-Octylphthalate | 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 |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

M28

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_223.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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) | UJ 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926110.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007610.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.80 | 4 | J |
| | Unknown | 9.85 | 10 | J |
| | Unknown | 11.05 | 10 | J |
| | Unknown | 13.62 | 5 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.96 | 2 | JN |

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW29-03

MW29

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/29/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 970947504

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 90.5 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium__ | 116 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 93500 | _ | | P_ |
| 7440-47-3 | Chromium_ | U 1.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 2.6 | B | | P_ |
| 7439-89-6 | Iron____ | 5790 | _ | | P_ |
| 7439-92-1 | Lead____ | 1.0 | B | | P_ |
| 7439-95-4 | Magnesium | 42500 | _ | | P_ |
| 7439-96-5 | Manganese | 96.6 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | U 5.0 | B | | P_ |
| 7440-09-7 | Potassium | J 2950 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 73900 | _ | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 10.9 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-03

DATE SAMPLED: 9/29/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K03.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-03

DATE SAMPLED: 9/29/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 43 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 6 | J |
| 117-84-0 | Di-N-Octylphthalate | 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 |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW29-03

MW29

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

DATE SAMPLED: 9/29/97

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_260.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97 (5)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
ACS-GWMW29-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K03.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.82 | JN 8 | JN |

FORM I VOA-TIC

1F

VALIDATED

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1016F12.D

Level: (low/med) LOW  Date Received: 09/30/97

% Moisture: decanted: (Y/N)  Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/16/97

Injection Volume: 2 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:

Number TICs Found: 17  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.18 | 7 | J |
| | UNKNOWN | 9.25 | 7 | J |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.67 | 15 | JN |
| | UNKNOWN | 11.10 | 23 | J |
| | UNKNOWN | 13.76 | 3 | J |
| | UNKNOWN | 13.81 | 5 | J |
| | ~~UNKNOWN~~ | ~~13.87~~ | ~~2~~ | ~~J~~ |
| | METHYLATED BENZOIC ACID ISOMER | 14.64 | 2 | J |
| | UNKNOWN | 15.63 | 3 | J |
| | UNKNOWN | 16.18 | 3 | J |
| | UNKNOWN | 16.44 | 4 | J |
| | UNKNOWN | 16.69 | 5 | J |
| | UNKNOWN | 20.20 | 3 | J |
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.57~~ | ~~7~~ | ~~JNXB~~ |
| | UNKNOWN | 21.68 | 3 | J |
| 000057-11-4 | OCTADECANOIC ACID | 23.44 | 2 | JN |
| | UNKNOWN | 25.02 | 2 | J |

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW30-03
MW30
10-1-97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

al ode: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

atrix (soil/water): WATER Lab Sample ID: 971004701

evel (low/med): LOW__ Date Received: 10/02/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | J 1830 | | N | P |
| 7440-36-0 | Antimony | U 1.1 | B | | P |
| 7440-38-2 | Arsenic | 4.3 | B | | P |
| 7440-39-3 | Barium | 210 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 107,000 | | | P |
| 7440-47-3 | Chromium | 49.8 | | | P |
| 7440-48-4 | Cobalt | 15.1 | B | | P |
| 7440-50-8 | Copper | 39.7 | | | P |
| 7439-89-6 | Iron | 8590 | | | P |
| 7439-92-1 | Lead | 8.0 | | | P |
| 7439-95-4 | Magnesium | 49200 | | | P |
| 7439-96-5 | Manganese | 139 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 58.9 | | | P |
| 7440-09-7 | Potassium | J 3260 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | 36,600 | | | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 3.8 | B | | P |
| 7440-66-6 | Zinc | U 39.5 | | | P |
| | Cyanide | 10.0 | U | | CA |

olor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03 10-1-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V14.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1009603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 17 | |
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-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 |
| 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 | UJ | 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 | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1009603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | 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 |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 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 | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 5 | J |
| 117-84-0 | Di-N-Octylphthalate | 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 |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW30

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4101797_042.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/06/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V14.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.89 | 7 | JN |

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1009603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.79 | 7 | JN |
| | UNKNOWN | 10.41 | 6 | J |
| | UNKNOWN | 11.10 | 21 | J |
| | UNKNOWN | 13.55 | 2 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.59 | 2 | JN |
| | UNKNOWN | 21.76 | 3 | J |

FORM I SV-TIC

VALIDATED

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW31-03

MW31

9/24/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970939917

Level (low/med): LOW__ Date Received: 09/25/97

% Solids: __0.0

VALIDATED

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1890 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 7.5 | B | | P_ |
| 7440-39-3 | Barium___ | 245 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 94900 | | | P_ |
| 7440-47-3 | Chromium_ | 88.8 | | | P_ |
| 7440-48-4 | Cobalt___ | 4.3 | B | | P_ |
| 7440-50-8 | Copper___ | J 43.7 | | | P_ |
| 7439-89-6 | Iron_____ | 6230 | | | P_ |
| 7439-92-1 | Lead_____ | 8.2 | | | P_ |
| 7439-95-4 | Magnesium | J 34100 | | | P_ |
| 7439-96-5 | Manganese | 174 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 65.8 | | | P_ |
| 7440-09-7 | Potassium | J 2410 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 19800 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 4.3 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 37.6 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]03

ab Name: IEA-NC Method: SOW 1/91

Lab Code: [redacted] Case No.: 2240-080 [redacted] SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: [redacted]

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

CONCENTRATION UNITS: (ug/L or ug/Kg) ug[redacted]

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009614.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | [redacted] |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009614.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 63 | J |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW31

.b Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_245.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW31-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-080  SDG No.: 09367

Matrix: (soil/water) WATER  Lab Sample ID: 970939917

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 0929111.D

Level: (low/med) LOW  Date Received: 09/25/97

% Moisture: not dec.  Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009614.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

mber TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.80 | 43 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.91 | 6 | JN |
| 000080-05-7 | PHENOL, 4,4'-(1-METHYLETHYLI | 23.98 | 6 | JN |

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GJMW32-03

MW32

9/24/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

a ode: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

latrix (soil/water): WATER Lab Sample ID: 970939916

evel (low/med): LOW__ VALIDATED Date Received: 09/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 780 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium__ | 169 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 75200 | | | P |
| 7440-47-3 | Chromium_ | 20.8 | | | P |
| 7440-48-4 | Cobalt___ | 1.4 | B | | P |
| 7440-50-8 | Copper___ | J 13.4 | B | | P |
| 7439-89-6 | Iron_____ | 4860 | | | P |
| 7439-92-1 | Lead_____ | 3.9 | | | P |
| 7439-95-4 | Magnesium | J 47500 | | | P |
| 7439-96-5 | Manganese | 78.0 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 18.9 | B | | P |
| 7440-09-7 | Potassium | J 4630 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 35400 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.3 | B | | P |
| 7440-66-6 | Zinc_____ | 4 30.8 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

[redacted]

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: [redacted] Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) [redacted] Lab Sample ID: 970939916

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: [redacted]

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) [redacted]

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009613.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | [redacted] |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | [redacted] | [redacted] |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009613.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW32

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_244.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

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

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009613.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown [redacted] | 6.51 | [redacted] | [redacted] |
| | Unknown [redacted] | 9.80 | [redacted] | [redacted] |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.92 | 5[redacted] | [redacted]N |
| 000080-05-7 | PHENOL, [redacted]4,4'-(1-METHYLETHYLI | 23.99 | 5[redacted] | [redacted]N |

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW33-03

MW33

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 10/01/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971004517

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 195 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic_ | 20.3 | | | P_ |
| 7440-39-3 | Barium_ | 1280 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium_ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium_ | 290000 | | | P_ |
| 7440-47-3 | Chromium_ | 9.8 | B | | P_ |
| 7440-48-4 | Cobalt_ | 3.4 | B | | P_ |
| 7440-50-8 | Copper_ | 14.7 | B | | P_ |
| 7439-89-6 | Iron_ | 27800 | | | P_ |
| 7439-92-1 | Lead_ | 1.5 | B | | P_ |
| 7439-95-4 | Magnesium | 65900 | | | P_ |
| 7439-96-5 | Manganese | 128 | | | P_ |
| 7439-97-6 | Mercury_ | 0.20 | U | | CV |
| 7440-02-0 | Nickel_ | 21.9 | B | | P_ |
| 7440-09-7 | Potassium | J 15500 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver_ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium_ | J 178000 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc_ | U 16.0 | B | | P_ |
| | Cyanide_ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW33-03

DATE SAMPLED 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V09.D

Level: (low/med) LOW Date Received: 10/02/97 (1)

% Moisture: not dec. Date Analyzed: 10/05/97 (2)

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 1 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021810.D

Level: (low/med) LOW Date Received: 10/02/97 (1)

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97 (5)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97 (15)

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: CRQL MULTI/HGR = 2.00

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 65 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | | 20 | U |
| 78-59-1 | Isophorone | J | 1 | J |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW33-03

MW33

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_269.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97 ①

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 ②

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 ⑪

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| 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 |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW33-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V09.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 2.50 | JN 6 | J |
| 109875 | DIMETHOXY-METHANE | 5.12 | 26 | JN |
| 000075-65-0 | 2-PROPANOL, 2-METHYL- | 6.46 | 13 | JN |
| 646060 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000646-06-0 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.34 | 190 | JN |
| | UNKNOWN HYDROCARBON | 10.76 | 10 | J |
| 000123-91-1 | 1,4-DIOXANE | 12.74 | 35 | JN |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | 32 | JN |

1E

VALUE LEU

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW33-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V09.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 2.50 | JN 6 | J |
| 109875 | DIMETHOXY METHANE | 5.12 | 26 | JN |
| 000075-65-0 | 2-PROPANOL, 2-METHYL- | 6.46 | 13 | JN |
| 646060 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000646-06-0 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.34 | 190 | JN |
| | UNKNOWN HYDROCARBON | 10.76 | 10 | J |
| 000123-91-1 | 1,4-DIOXANE | 12.74 | 35 | JN |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | 32 | JN |