L1190205027-Madison Co.
Gibraltar Manufacturing
IL 0000034322
SF/HRS

VOLUME II

# CERCLA Integrated Site Assessment

## ANALYTICAL RESULTS


Illinois Environmental Protection Agency

2200 Churchill Road
P. O. Box 19276
Springfield, IL 62794-9276



EPA Region 5 Records Ctr.

325963



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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: February 6, 1995

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User Mark Weber

The Quality Assurance Section has reviewed the following data package(s):

SITE NAME: Gibraltar CASE/SDG No: 115/470640

Date(s) Received for Review: 12/29/94 1/3/95 No. of Samples: 18

Laboratory(s): IEPA Hours Used for Review: 37+ 45 = 82

Reviewer(s): Chris Bridges
Jerry Clark

The following narrative represents our findings:

The results are valid as qualified on the enclosed Forms 1

- ☐ Data are acceptable for use.
- ☒ Data are acceptable for use with qualifications noted above.
- ☐ Data are preliminary - pending verification by laboratory.
- ☐ Data are unacceptable.

cc: Tom Crause

**IEPA DIVISION OF LABORATORIES**
**QUALITY ASSURANCE SECTION**
**INORGANIC DATA VALIDATION**
**CHECKLIST**

| | |
|---|---|
| **Site:** | Gilbraltar |
| **Laboratory:** | IEPA |
| **SDG:** | 115 |
| **Analytical Protocol:** | ILM03.0 |
| **Date:** | January 31, 1995 |
| **Reviewer:** | Jerry Clark |
| **Reviewer Signature:** | Jerry Clark |

## I. PRELIMINARY REVIEW

Number Aqueous Samples: 6 Analytes:
Number Solid/Soil Samples: 10 Analytes:

| | YES | NO | N/A |
|---|---|---|---|
| **A. Chain - of - Custody(ies)** Present? | X | | |
| Signed ? | X | | |
| Dated? | X | | |
| **B. Cover Page-** Present? | X | | |
| Do sample numbers agree with sample numbers on: | | | |
| a. Chain - of - Custody Forms? | X | | |
| b. Form 1s? | X | | |
| **C. Form 1-** Final Data | | | |
| Are all Form 1s present and complete? | X | | |
| Are correct units indicated on Form 1s (ug/l-waters & mg/kg-soils) | X | | |
| Are soil sample results corrected for percent solids (dry weight)? | X | | |
| Are sample results < IDL reported as the IDL (U)? | X | | |

ACTIONS:
NONE

## II. HOLDING TIMES & PRESERVATION

| | | | | | |
|---|---|---|---|---|---|
| Mercury (28 Days) | pH < 2 | exceeded? | | X | |
| Cyanide (14 Days) | pH > 12 | exceeded? | | X | |
| other Metals (6months) | pH < 2 | exceeded? | | X | |

ACTIONS:
NONE

## III. CALIBRATIONS

### A. Initial Calibration Procedures:

| | YES | NO | N/A |
|---|---|---|---|
| Are acceptable 2 point calibrations present for ICP ? | X | | |
| Is the CRI analyzed at the proper frequency and concentration? | X | | |
| Are acceptable 4 point calibrations present for AA? | X | | |
| Correlation Coefficient > 0.995? | X | | |
| Is the CRA analyzed at the proper frequency and concentration? | X | | |
| Are acceptable 4 point calibrations present for Cyanide? | X | | |
| Mid-Range standard distilled? | X | | |
| Are acceptable 4 point calibrations present for Mercury? | X | | |
| Correlation Coefficient > 0.995? | X | | |
| Is the CRA analyzed at the proper frequency and concentration? | X | | |
| Are acceptable calibrations present for other parameters? | X | | |

ACTIONS:

NONE

### B. Form 2 - Initial and Continuing Calibration Verification:

| | | | |
|---|---|---|---|
| All necessary Form 2s present and complete? | X | | |
| ICVs and CCVs analyzed at the correct frequency? | X | | |
| Are results reported in the correct units (ug/l)? | X | | |
| All calibration verification % Recoveries meet criteria? | X | | |
| ICV and CCV concentrations different? | X | | |

ACTIONS: (Analyte, % Recovery, Sample(s) affected and Qualifications)

NONE

## IV. BLANKS

| | YES | NO | N/A |
|---|---|---|---|
| All necessary Form 3s present and complete? | X | | |
| **A. Initial and Continuing Calibration Blanks** | | | |
| Analyzed at correct frequency? | X | | |
| Are results reported in the correct units (ug/l)? | X | | |
| Were transcription errors corrected? | X | | |
| All ICBs and CCBs meet no contamination criteria? | | X | |

ACTIONS: (ICB or CCB/IDL) Sample(s) affected, qualifications

**WATER:**

Tl (1.1, 1.7, 1.1/1.0) - G101 is qualified as "U".

CN (15.0/10.0) - G101, G102, G103, S101, and S102 are qualified as "U".

**SOIL:**

Se (1.3/1.0) - X104 is qualified as "U".

Contamination noted in As; however, no data is affected.

**B. Preparation Blanks**

| | YES | NO | N/A |
|---|---|---|---|
| Was one preparation blank prepared for: | | | |
| each 20 samples? | X | | |
| each batch? | X | | |
| each matrix type? | X | | |
| Were prep blanks analyzed at the correct frequency? | X | | |
| Were prep blanks reported in the correct concentration units? | X | | |
| Were all transcription errors corrected? | | | X |
| All prep blanks meet no contamination criteria? | | X | |

ACTIONS: (Analyte, (PB/IDL), Sample(s) affected, Qualifications)

**WATER:**

As (-1.4/1.0) - G101, G102, and G103 are qualified as estimated "J".

Zn (4.79/4.0) - G102 and G103 are qualified as "U".

**SOIL:**

Contamination noted in Al and Fe; however, no data is affected.

## V. ICP INTERFERENCE CHECK SAMPLE:

| | YES | NO | N/A |
|---|---|---|---|
| Form 4 present and complete? | X | | |
| Were ICS ran at the correct frequency? | X | | |
| Were all transcription errors corrected? | X | | |
| All % Recoveries of ICSAB Solution +/- 20 % of True Value? | X | | |
| For elements not present in ICSA, is the absolute value of the ICSA result greater than the IDL? | | X | |

ACTIONS: ( Analyte, % Recovery, Sample(s) affected, Qualifications)

NONE

## VI. SPIKE SAMPLE RECOVERY:

| | | YES | NO | N/A |
|---|---|---|---|---|
| Form 5 present and complete for: | each 20 samples? | X | | |
| | each matrix type? | X | | |
| Were all transcription errors corrected? | | X | | |
| Were field blanks used for spike sample analysis? | | | X | |
| Were all Matrix Spike % Recoveries within criteria? | | | X | |

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

**WATER:**

Se (73.0%) - G101, G102, G103, S101, S102, and S103 are qualified as estimated "UJ".

**SOIL:**

Sb (33.0%)- X102, X104, X105, X202, and X204 are qualified as estimated "J".
- X101, X106, X201, X203, and X205 are qualified as estimated "UJ".

Se (0.0%) - X101, X102, X104, X105, X106, X201, X202, X203, X204, and X205 are qualified as unusable "R".

## VII. DUPLICATE SAMPLE ANALYSIS:

| | | YES | NO | N/A |
|---|---|---|---|---|
| Form 6 present and complete for: | each 20 samples? | X | | |
| | each matrix type? | X | | |
| Were all transcription errors corrected? | | X | | |
| Were field blanks used for duplicate analysis? | | | X | |
| For both AA and ICP when both are used for the same analyte? | | X | | |
| Were all duplicate analyses differences within criteria? | | | X | |

ACTIONS: (Element, Differences, Sample(s) affected, Qualifications)

**WATER:**

Zn (127.9%) - G101, G102, G103, S101, S102, and S103 are qualified as estimated "J".

**SOIL:**

Cr (73.4%), Fe (40.7%), Mn (109.7%), and V (+29.5) - X101, X102, X104, X105, X106, X201, X202, X203, X204, and X205 are qualified as estimated "J".

## VIII. LABORATORY CONTROL SAMPLE:

**(Note: LCS not required for aqueous Hg.)**

| | YES | NO | N/A |
|---|---|---|---|
| Form 7 Present and Complete? | X | | |
| Was one LCS prepared and analyzed for: | | | |
| every 20 or fewer water samples? | X | | |
| every digestion batch of water samples? | X | | |
| every 20 or fewer solid samples? | X | | |
| every digestion batch of solid samples? | X | | |
| Were all transcription errors corrected? | | | X |
| Were all of the Aqueous LCS % Recoveries within criteria? | X | | |
| Were all of the Solid LCS % Recoveries within criteria? | X | | |

ACTIONS: (Element, % Recovery, Sample(s) affected, Qualifications)

NONE

## IX. FURNACE ATOMIC ABSORPTION (AA) QC:

| | YES | NO | N/A |
|---|---|---|---|
| Did the laboratory utilize duplicate injections for all non-MSAanalyses? | X | | |
| Does the GFAA fow chart appear to have been followed for all analyses? | X | | |
| Did the laboratory properly flag the GFAA results on the Form 1s? | X | | |

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

**WATER & SOIL:**

Any result flagged "W" or "E" is qualified as estimated "J".

## X. ICP SERIAL DILUTION:

| | | | |
|---|---|---|---|
| Form 9 present and complete? | X | | |
| Was Serial Dilution analysis performed for: | | | |
| each 20 or fewer samples | X | | |
| each matrix type? | X | | |
| Were all transcription errors corrected? | X | | |
| Were all serial dilution results within criteria? | | X | |
| Were field blanks used for serial dilution analysis? | | X | |

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

**SOIL:**

Zn (18.3%) - X101, X102, X104, X105, X106, X201, X202, X203, X204, and X205 are qualified as estimated "J"

## XI. RAW DATA:

| | YES | NO | N/A |
|---|---|---|---|
| Digestion Log for flame AA/ICP present? | X | | |
| Digestion Log for furnace AA present? | X | | |
| Digestion Log for mercury present? | X | | |
| Digestion Log for cyanide present? | X | | |
| Inventory Sheet present? | X | | |
| Weights, dilutions, and volumes used to obtain values present? | X | | |
| Percent solids calculation present for soils (sediments)? | X | | |
| Are preparation dates present on Digestion Logs? | X | | |
| Are standards preparation logs present and dated? | X | | |
| Measurement read out records present for: | X | | |
| ICP? | X | | |
| Flame AA? | | | X |
| Furnace AA? | X | | |
| Mercury? | X | | |
| Cyanide? | X | | |
| other Inorganics? | X | | |
| Are all results with the ICP linear ranges? | X | | |
| Are all Mercury results within the calibrated range? | X | | |
| Are all Cyanide results within the calibrated range? | X | | |
| Are all other inorganics within the calibrated range? | X | | |
| Sulfate, Sulfide, _____ | X | | |
| Are all raw data to support all sample analyses an QC operations present? | X | | |
| Legible? | X | | |
| Properly labeled? | X | | |
| Are the Instrument Detection Limits (IDLs) less than 3 months old? | X | | |
| Are the ICP Linear Ranges less than three months old? | X | | |
| Are the ICP Interelement correction factors less than one year old? | X | | |

ACTIONS:

NONE

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: -115-
Matrix (Water): Lab Sample ID: B416385
Level (Low/Med): Date Received: 11/18/94
% Solids:

Concentration Units (ug/L):

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 26.0 | U | | PM |
| 7440-36-0 | Antimony | 27.0 | U | | PM |
| 7440-38-2 | Arsenic | 2.44 | B | | FM J |
| 7440-39-3 | Barium | 149 | B | | PM |
| 7440-41-7 | Beryllium | 1.0 | U | | PM |
| 7440-43-9 | Cadmium | 4.0 | U | | PM |
| 7440-70-2 | Calcium | 157000 | | | PM |
| 7440-47-3 | Chromium | 3.0 | U | | PM |
| 7440-48-4 | Cobalt | 8.0 ~~7.0~~ JC | U | | PM JC |
| 7440-50-8 | Copper | 4.0 | U | | PM |
| 7439-89-6 | Iron | 2900 | | | PM |
| 7439-92-1 | Lead | 1.33 | B | | FM |
| 7439-95-4 | Magnesium | 39300 | | | PM |
| 7439-96-5 | Manganese | 869 | | | PM |
| 7439-97-6 | Mercury | 0.05 | U | | AV |
| 7440-02-2 | Nickel | 13.0 | U | | PM |
| 7440-09-7 | Potassium | 3750 | B | | PM |
| 7782-49-2 | Selenium | 1.0 | U | W,N | FM J |
| 7440-22-4 | Silver | 4.0 | U | | PM |
| 7440-23-5 | Sodium | 58800 | | | PM |
| 7440-28-0 | Thallium | 1.0 | U | | FM |
| 7440-62-2 | Vanadium | 4.0 | U | | PM |
| 7440-66-6 | Zinc | 99.6 | | * | PM JC J |
| | Cyanide | 10.0 | U | | ~~AS~~ CA |
| | Sulfide | 1000 | U | | T |
| | Sulfate | 170000 | | | AS |
| | Boron | | | | PM |

Color Before: -Colorless- Clarity Before: -Clear- Texture:
Color After: -Colorless- Clarity After: -Clear- Artifacts:
Comments: -SULFIDE SW846 METHODOLOGY-
-SULFATE IEPA METHODOLOGY-

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Water): Lab Sample ID: B416386
Level (Low/Med): Date Received: 11/18/94
% Solids:

Concentration Units (ug/L):

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 26.0 | U | | PM |
| 7440-36-0 | Antimony | 27.0 | U | | PM |
| 7440-38-2 | Arsenic | 1.89 | B | | FM J |
| 7440-39-3 | Barium | 287 | | | PM |
| 7440-41-7 | Beryllium | 1.0 | U | | PM |
| 7440-43-9 | Cadmium | 4.0 | U | | PM |
| 7440-70-2 | Calcium | 124000 | | | PM |
| 7440-47-3 | Chromium | 3.0 | U | | PM |
| 7440-48-4 | Cobalt | 8.0 ~~7.0~~ JC | U | | PM JC |
| 7440-50-8 | Copper | 4.0 | U | | PM |
| 7439-89-6 | Iron | 6120 | | | PM |
| 7439-92-1 | Lead | 1.0 | U | | FM |
| 7439-95-4 | Magnesium | 34900 | | | PM |
| 7439-96-5 | Manganese | 987 | | | PM |
| 7439-97-6 | Mercury | 0.05 | U | | AV |
| 7440-02-2 | Nickel | 13.0 | U | | PM |
| 7440-09-7 | Potassium | 4310 | B | | PM |
| 7782-49-2 | Selenium | 1.0 | U | W,N | FM J |
| 7440-22-4 | Silver | 4.0 | U | | PM |
| 7440-23-5 | Sodium | 39200 | | | PM |
| 7440-28-0 | Thallium | 1.44 | B | | FM |
| 7440-62-2 | Vanadium | 4.0 | U | | PM |
| 7440-66-6 | Zinc | 11.0 | B | * | PM JC |
| | Cyanide | 10.0 | U | | CA ~~AS~~ |
| | Sulfide | 1000 | U | | T |
| | Sulfate | 137000.0 | | | AS |
| | Boron | | | | PM |

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Water): Lab Sample ID: B416387
Level (Low/Med): Date Received: 11/18/94
% Solids:

Concentration Units (ug/L):

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 26.0 | U | | PM |
| 7440-36-0 | Antimony | 27.0 | U | | PM |
| 7440-38-2 | Arsenic | 2.22 | B | | FM J |
| 7440-39-3 | Barium | 283 | | | PM |
| 7440-41-7 | Beryllium | 1.0 | U | | PM |
| 7440-43-9 | Cadmium | 4.0 | U | | PM |
| 7440-70-2 | Calcium | 123000 | | | PM |
| 7440-47-3 | Chromium | 3.0 | U | | PM |
| 7440-48-4 | Cobalt | 8.0 ~~7.0~~ JC | U | | PM JC |
| 7440-50-8 | Copper | 4.0 | U | | PM |
| 7439-89-6 | Iron | 6030 | | | PM |
| 7439-92-1 | Lead | 1.0 | U | | FM |
| 7439-95-4 | Magnesium | 34700 | | | PM |
| 7439-96-5 | Manganese | 973 | | | PM |
| 7439-97-6 | Mercury | 0.05 | U | | AV |
| 7440-02-2 | Nickel | 13.0 | U | | PM |
| 7440-09-7 | Potassium | 4130 | B | | PM |
| 7782-49-2 | Selenium | 1.0 | U | W,N | FM J |
| 7440-22-4 | Silver | 4.0 | U | | PM |
| 7440-23-5 | Sodium | 39300 | | | PM |
| 7440-28-0 | Thallium | 1.0 | U | | FM |
| 7440-62-2 | Vanadium | 4.0 | U | | PM |
| 7440-66-6 | Zinc | 14.0 | B | * | PM J |
| | Cyanide | 40.0 | U | | CA ~~AS~~ |
| | Sulfide | 1000 | U | | T |
| | Sulfate | 137000 | | | AS |
| | Boron | | | | PM |

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Water): Lab Sample ID: B416388
Level (Low/Med): Date Received: 11/18/94
% Solids:

Concentration Units (ug/L):

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2510 | | | PM |
| 7440-36-0 | Antimony | 27.0 | U | | PM |
| 7440-38-2 | Arsenic | 3.33 | B | | FM |
| 7440-39-3 | Barium | 114 | B | | PM |
| 7440-41-7 | Beryllium | 1.0 | U | | PM |
| 7440-43-9 | Cadmium | 4.0 | U | | PM |
| 7440-70-2 | Calcium | 80700 | | | PM |
| 7440-47-3 | Chromium | 50.7 | | | PM |
| 7440-48-4 | Cobalt | ~~7.0~~ 8.0 JC | U | | PM JC |
| 7440-50-8 | Copper | 19.7 | B | | PM |
| 7439-89-6 | Iron | 3550 | | | PM |
| 7439-92-1 | Lead | 36.9 | | | FM |
| 7439-95-4 | Magnesium | 13500 | | | PM |
| 7439-96-5 | Manganese | 688 | | | PM |
| 7439-97-6 | Mercury | 0.05 | U | | AV |
| 7440-02-2 | Nickel | 13.0 | U | | PM |
| 7440-09-7 | Potassium | 13900 | | | PM |
| 7782-49-2 | Selenium | 1.0 | U | W,N | FM J |
| 7440-22-4 | Silver | 4.0 | U | | PM |
| 7440-23-5 | Sodium | 34500 | | | PM |
| 7440-28-0 | Thallium | 1.0 | U | | FM |
| 7440-62-2 | Vanadium | 20.0 | B | | PM |
| 7440-66-6 | Zinc | 181 | | * | PM J |
| | Cyanide | 10.0 | ~~U~~ U JC | | ~~AS~~ CA JC |
| | Sulfide | 1000 | U | | T |
| | Sulfate | 53000 | | | AS |
| | Boron | | | | PM |

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: -115-
Matrix (Water): Lab Sample ID: -B416389-
Level (Low/Med): Date Received: 11/18/94
% Solids:

Concentration Units (ug/L):

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2200 | | | PM |
| 7440-36-0 | Antimony | 27.0 | U | | PM |
| 7440-38-2 | Arsenic | 2.78 | B | | FM |
| 7440-39-3 | Barium | 95.0 | B | | PM |
| 7440-41-7 | Beryllium | 1.0 | U | | PM |
| 7440-43-9 | Cadmium | 4.0 | U | | PM |
| 7440-70-2 | Calcium | 58800 | | | PM |
| 7440-47-3 | Chromium | 19.1 | | | PM |
| 7440-48-4 | Cobalt | ~~7.0~~ 8.0 JC | U | | PM JC |
| 7440-50-8 | Copper | 15.7 | B | | PM |
| 7439-89-6 | Iron | 2710 | | | PM |
| 7439-92-1 | Lead | 37.3 | | | FM |
| 7439-95-4 | Magnesium | 13500 | | | PM |
| 7439-96-5 | Manganese | 328 | | | PM |
| 7439-97-6 | Mercury | 0.05 | U | | AV |
| 7440-02-2 | Nickel | 13.0 | U | | PM |
| 7440-09-7 | Potassium | 18100 | | | PM |
| 7782-49-2 | Selenium | 1.0 | U | W,N | FM J |
| 7440-22-4 | Silver | 4.0 | U | | PM |
| 7440-23-5 | Sodium | 56100 | | | PM |
| 7440-28-0 | Thallium | 1.0 | U | | FM |
| 7440-62-2 | Vanadium | 11.9 | B | | PM |
| 7440-66-6 | Zinc | 282 | | * | PM J |
| | Cyanide | 10.0 | U | | ~~AS~~ CN |
| | Sulfide | 1000 | U | | T |
| | Sulfate | 78000 | | | AS |
| | Boron | | | | PM |

Color Before: -Colorless- Clarity Before: -Clear- Texture:
Color After: -Colorless- Clarity After: -Clear- Artifacts:
Comments: -SULFIDE SW846 METHODOLOGY-
-SULFATE IEPA METHODOLOGY-

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Water): Lab Sample ID: B416390
Level (Low/Med): Date Received: 11/18/94
% Solids:

Concentration Units (ug/L):

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 499 | | | PM |
| 7440-36-0 | Antimony | 27.0 | U | | PM |
| 7440-38-2 | Arsenic | 1.89 | B | | FM |
| 7440-39-3 | Barium | 63.7 | B | | PM |
| 7440-41-7 | Beryllium | 1.0 | U | | PM |
| 7440-43-9 | Cadmium | 4.0 | U | | PM |
| 7440-70-2 | Calcium | 49300 | | | PM |
| 7440-47-3 | Chromium | 6.7 | B | | PM |
| 7440-48-4 | Cobalt | 8.0 ~~7.0~~ | U | | PM |
| 7440-50-8 | Copper | 4.0 | U | | PM |
| 7439-89-6 | Iron | 690 | | | PM |
| 7439-92-1 | Lead | 6.5 | | | FM |
| 7439-95-4 | Magnesium | 12900 | | | PM |
| 7439-96-5 | Manganese | 201 | | | PM |
| 7439-97-6 | Mercury | 0.05 | U | | AV |
| 7440-02-2 | Nickel | 13.0 | U | | PM |
| 7440-09-7 | Potassium | 18000 | | | PM |
| 7782-49-2 | Selenium | 1.0 | U | W,N | FM |
| 7440-22-4 | Silver | 4.0 | U | | PM |
| 7440-23-5 | Sodium | 57800 | | | PM |
| 7440-28-0 | Thallium | 1.0 | U | | FM |
| 7440-62-2 | Vanadium | 7.4 | B | | PM |
| 7440-66-6 | Zinc | 36.3 | | * | PM |
| | Cyanide | 10.0 | U | | ~~AS~~ CA |
| | Sulfide | 1000 | U | | T |
| | Sulfate | 75000 | | | AS |
| | Boron | | | | PM |

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER

Lab Code: Case No.: SAS No.: SDG No.: 115

Matrix (Soil): Lab Sample ID: B416391

Level (Low/Med): Date Received: 11/18/94

% Solids: 84.1

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11300 | | | P | |
| 7440-36-0 | Antimony | 5.7 | U | N | P | J |
| 7440-38-2 | Arsenic | 4.8 | | S | FM | |
| 7440-39-3 | Barium | 223 | | * | P | |
| 7440-41-7 | Beryllium | 0.55 | B | | P | |
| 7440-43-9 | Cadmium | 0.95 | U | | P | |
| 7440-70-2 | Calcium | 29400 | | | P | |
| 7440-47-3 | Chromium | 229 | | ~~*~~ JC | P | J |
| 7440-48-4 | Cobalt | 6.8 | B | ~~*~~ JC | P | |
| 7440-50-8 | Copper | 38.6 | | | P | |
| 7439-89-6 | Iron | 26600 | | * | P | J |
| 7439-92-1 | Lead | 26.3 | | | FM | |
| 7439-95-4 | Magnesium | 4770 | | * | P | |
| 7439-96-5 | Manganese | 4530 | | * | P | J |
| 7439-97-6 | Mercury | 0.03 | U | | AV | |
| 7440-02-2 | Nickel | 20.0 | | | P | |
| 7440-09-7 | Potassium | 1510 | | | P | |
| 7782-49-2 | Selenium | 1.19 | U | E,N | FM | R |
| 7440-22-4 | Silver | 0.95 | U | | P | |
| 7440-23-5 | Sodium | 99.1 | B | | P | |
| 7440-28-0 | Thallium | 0.24 | U | | FM | |
| 7440-62-2 | Vanadium | 69.1 | | N,* | P | J |
| 7440-66-6 | Zinc | 96.2 ~~69.2~~ JC | | JC ~~*~~,E | P | ~~JC~~ J |
| | Cyanide | 1.2 | U | | CA JC ~~AS~~ | |
| | | | | | AS | |
| | | | | | | |

Color Before: Brown Clarity Before: Opaque Texture: Medium

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

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12/94

B000007

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: -115
Matrix (Soil): Lab Sample ID: B416392
Level (Low/Med): Date Received: 11/18/94
% Solids: 83.6

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13300 | | | P | |
| 7440-36-0 | Antimony | 62.4 | | N | P | J |
| 7440-38-2 | Arsenic | 8.91 | | | FM | |
| 7440-39-3 | Barium | 1810 | | * | P | |
| 7440-41-7 | Beryllium | 1.5 | | | P | |
| 7440-43-9 | Cadmium | 7.5 | | | P | |
| 7440-70-2 | Calcium | 6870 | | | P | |
| 7440-47-3 | Chromium | 27.2 | | * | P | J |
| 7440-48-4 | Cobalt | 8.2 | B | | P | |
| 7440-50-8 | Copper | 868 | | | P | |
| 7439-89-6 | Iron | 40400 | | * | P | J |
| 7439-92-1 | Lead | 1790 | | * | P | |
| 7439-95-4 | Magnesium | 1670 | | * | P | |
| 7439-96-5 | Manganese | 409 | | * | P | J |
| 7439-97-6 | Mercury | 0.09 | B | | AV | |
| 7440-02-2 | Nickel | 130 | | | P | |
| 7440-09-7 | Potassium | 1140 | B | | P | |
| 7782-49-2 | Selenium | 1.22 | U | W,N | FM | R |
| 7440-22-4 | Silver | 0.96 | U | | P | |
| 7440-23-5 | Sodium | 569 | B | | P | |
| 7440-28-0 | Thallium | 0.32 | B | W | FM | J |
| 7440-62-2 | Vanadium | 27.2 | | N,* | P | J |
| 7440-66-6 | Zinc | 3500 | | *,E | P | J |
| | Cyanide | 1.2 | U | | ~~AS~~ CN | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Medium
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
12/94

B000010

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER

Lab Code: Case No.: SAS No.: SDG No.: 118

Matrix (Soil): Lab Sample ID: B417075

Level (Low/Med): Date Received: 12/06/94

% Solids: 74.4

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 8740 | | | P | |
| 7440-36-0 | Antimony | 9.3 | U ~~B~~ JC | N | P | J |
| 7440-38-2 | Arsenic | 1.53 | B | W | FM | J |
| 7440-39-3 | Barium | 433 | | | P | |
| 7440-41-7 | Beryllium | 0.58 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | U | | P | |
| 7440-70-2 | Calcium | 3060 | | | P | |
| 7440-47-3 | Chromium | 14.1 | | | P | |
| 7440-48-4 | Cobalt | 8.0 | B | | P | |
| 7440-50-8 | Copper | 22.4 | | | P | |
| 7439-89-6 | Iron | 13200 | | | P | |
| 7439-92-1 | Lead | 27.6 | | * | FM | |
| 7439-95-4 | Magnesium | 2160 | | | P | |
| 7439-96-5 | Manganese | 655 | | | P | |
| 7439-97-6 | Mercury | 0.04 | U | | AV | |
| 7440-02-2 | Nickel | 19.7 | | | P | |
| 7440-09-7 | Potassium | 1380 | U JC | | P | |
| 7782-49-2 | Selenium | 1.34 | U | W,N | FM | R |
| 7440-22-4 | Silver | 1.1 | U | | P | |
| 7440-23-5 | Sodium | 146 | B | | P | |
| 7440-28-0 | Thallium | 0.27 | U | W | FM | J |
| 7440-62-2 | Vanadium | 17.4 | | | P | |
| 7440-66-6 | Zinc | 261 | | | P | |
| | Cyanide | 0.67 | U | | CA ~~AS~~ JC | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

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SOIL

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12/94

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: -115
Matrix (Soil): Lab Sample ID: B416393
Level (Low/Med): Date Received: 11/18/94
% Solids: 83.2

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 21800 | | | P | |
| 7440-36-0 | Antimony | 22.3 | ~~N~~ | N | P | J |
| 7440-38-2 | Arsenic | 25.5 | | | FM | |
| 7440-39-3 | Barium | 2140 | | * | P | |
| 7440-41-7 | Beryllium | 0.98 | B | | P | |
| 7440-43-9 | Cadmium | 82.4 | | | P | |
| 7440-70-2 | Calcium | 5630 | | | P | |
| 7440-47-3 | Chromium | 38.5 | | * | P | J |
| 7440-48-4 | Cobalt | 21.1 | | | P | |
| 7440-50-8 | Copper | 9240 | | | P | |
| 7439-89-6 | Iron | 48800 | | * | P | J |
| 7439-92-1 | Lead | 1660 | | * | P | |
| 7439-95-4 | Magnesium | 1510 | | * | P | |
| 7439-96-5 | Manganese | 404 | | * | P | J |
| 7439-97-6 | Mercury | 0.82 | | | AV | |
| 7440-02-2 | Nickel | 164 | | | P | |
| 7440-09-7 | Potassium | 698 | B | | P | |
| 7782-49-2 | Selenium | 1.42 | U JC | S,N | FM | R |
| 7440-22-4 | Silver | 3.9 | | | P | |
| 7440-23-5 | Sodium | 242 | B | | P | |
| 7440-28-0 | Thallium | 0.34 | B | W | FM | J |
| 7440-62-2 | Vanadium | 38.5 | | N,* | P | J |
| 7440-66-6 | Zinc | 21800 | | JC *,E | P | J |
| | Cyanide | 1.2 | U | | ~~AS~~ CA | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Medium
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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12/94

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER

Lab Code: Case No.: SAS No.: SDG No.: -115

Matrix (Soil): Lab Sample ID: B416394

Level (Low/Med): Date Received: 11/18/94

% Solids: 66.9

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12200 | | | P | |
| 7440-36-0 | Antimony | 6.6 | B | N | P | J |
| 7440-38-2 | Arsenic | 6.45 | | S | FM | |
| 7440-39-3 | Barium | 1630 | | * | P | |
| 7440-41-7 | Beryllium | 0.75 | B | | P | |
| 7440-43-9 | Cadmium | 13.8 | | | P | |
| 7440-70-2 | Calcium | 4700 | | | P | |
| 7440-47-3 | Chromium | 37.7 | | * | P | J |
| 7440-48-4 | Cobalt | 6.5 | B | | P | |
| 7440-50-8 | Copper | 137 | | | P | |
| 7439-89-6 | Iron | 18600 | | * | P | J |
| 7439-92-1 | Lead | 333 | | * | P | |
| 7439-95-4 | Magnesium | 1920 | | * | P | |
| 7439-96-5 | Manganese | 201 | | * | P | J |
| 7439-97-6 | Mercury | 0.26 | | | AV | |
| 7440-02-2 | Nickel | 33.7 | | | P | |
| 7440-09-7 | Potassium | 1550 | | | P | |
| 7782-49-2 | Selenium | 1.46 | U | E,N | FM | R |
| 7440-22-4 | Silver | 1.0 | B | | P | |
| 7440-23-5 | Sodium | 128 | B | | P | |
| 7440-28-0 | Thallium | 0.41 | B | W | FM | J |
| 7440-62-2 | Vanadium | 32.2 | | N,* | P | J |
| 7440-66-6 | Zinc | 1170 | | JC →,E | P | J |
| | Cyanide | 1.5 | U | | ~~AS~~ CA JC | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Medium

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

12/94

6000012

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: -115-
Matrix (Soil): Lab Sample ID: -B416395-
Level (Low/Med): Date Received: 11/18/94
% Solids: 67.5

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12300 | | | P | |
| 7440-36-0 | Antimony | 4.9 | U | N | P | J |
| 7440-38-2 | Arsenic | 7.07 | | S | FM | |
| 7440-39-3 | Barium | 1580 | | * | P | |
| 7440-41-7 | Beryllium | 0.73 | B | | P | |
| 7440-43-9 | Cadmium | 12.8 | | | P | |
| 7440-70-2 | Calcium | 4600 | | | P | |
| 7440-47-3 | Chromium | 36.3 | | * | P | J |
| 7440-48-4 | Cobalt | 6.1 | B | | P | |
| 7440-50-8 | Copper | 125 | | | P | |
| 7439-89-6 | Iron | 18500 | | * | P | J |
| 7439-92-1 | Lead | 315 | | * | P | |
| 7439-95-4 | Magnesium | 1910 | | * | P | |
| 7439-96-5 | Manganese | 213 | | * | P | J |
| 7439-97-6 | Mercury | 0.21 | | | AV | |
| 7440-02-2 | Nickel | 32.6 | | | P | |
| 7440-09-7 | Potassium | 1550 | | | P | |
| 7782-49-2 | Selenium | 1.42 | U | E,N | FM | R |
| 7440-22-4 | Silver | 0.81 | U | | P | |
| 7440-23-5 | Sodium | 124 | B | | P | |
| 7440-28-0 | Thallium | 0.40 | B | W | FM | J |
| 7440-62-2 | Vanadium | 32.1 | | N,* | P | J |
| 7440-66-6 | Zinc | 1110 | | *,E | P | J |
| | Cyanide | 1.5 | U | | AS | |
| | | | | | AS | |
| | | | | | | |

Color Before: -Black- Clarity Before: -Opaque- Texture: Medium
Color After: -Colorless- Clarity After: -Clear- Artifacts:
Comments:

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SOIL

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Soil): Lab Sample ID: B416396
Level (Low/Med): Date Received: 11/18/94
% Solids: 63.6

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11900 | | | P | |
| 7440-36-0 | Antimony | 6.9 | U | N | P | J |
| 7440-38-2 | Arsenic | 4.04 | | | FM | |
| 7440-39-3 | Barium | 171 | | * | P | |
| 7440-41-7 | Beryllium | 0.75 | B | | P | |
| 7440-43-9 | Cadmium | 2.8 | | | P | |
| 7440-70-2 | Calcium | 42200 | | | P | |
| 7440-47-3 | Chromium | 44.5 | | * | P | J |
| 7440-48-4 | Cobalt | 8.1 | B | | P | |
| 7440-50-8 | Copper | 67.3 | | | P | |
| 7439-89-6 | Iron | 21600 | | * | P | J |
| 7439-92-1 | Lead | 200 | | * | P | |
| 7439-95-4 | Magnesium | 3960 | | * | P | |
| 7439-96-5 | Manganese | 723 | | * | P | J |
| 7439-97-6 | Mercury | 0.08 | B | | AV | |
| 7440-02-2 | Nickel | 23.9 | | | P | |
| 7440-09-7 | Potassium | ~~1560~~ 1660 JC | | | P | |
| 7782-49-2 | Selenium | 1.60 | U | E,N | FM | R |
| 7440-22-4 | Silver | 1.2 | U ~~B~~ JC | | P | |
| 7440-23-5 | Sodium | 295 | B | | P | |
| 7440-28-0 | Thallium | 0.55 | B | | FM | |
| 7440-62-2 | Vanadium | 32.1 | | N,* | P | J |
| 7440-66-6 | Zinc | 864 | | JC *,E | P JC | J |
| | Cyanide | 1.6 | U | | ~~AS~~ CA | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Soil): Lab Sample ID: B416397
Level (Low/Med): Date Received: 11/18/94
% Solids: 74.4

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 9730 | | | P | |
| 7440-36-0 | Antimony | 9.0 | B | N | P | J |
| 7440-38-2 | Arsenic | 4.17 | | | FM | |
| 7440-39-3 | Barium | 609 | | * | P | |
| 7440-41-7 | Beryllium | 0.53 | B | | P | |
| 7440-43-9 | Cadmium | 249 | | | P | |
| 7440-70-2 | Calcium | 6280 | | | P | |
| 7440-47-3 | Chromium | 18.9 | | * | P | J |
| 7440-48-4 | Cobalt | 7.0 | B | | P | |
| 7440-50-8 | Copper | 28.3 | | | P | |
| 7439-89-6 | Iron | 13700 | | * | P | J |
| 7439-92-1 | Lead | 157 | | * | P | |
| 7439-95-4 | Magnesium | 2080 | | * | P | |
| 7439-96-5 | Manganese | 289 | | * | P | J |
| 7439-97-6 | Mercury | 0.22 | | | AV | |
| 7440-02-2 | Nickel | 18.1 | | | P | |
| 7440-09-7 | Potassium | 1320 | B | | P | |
| 7782-49-2 | Selenium | 1.34 | U | E,N | FM | R |
| 7440-22-4 | Silver | 1.1 | U | | P | |
| 7440-23-5 | Sodium | 149 | B | | P | |
| 7440-28-0 | Thallium | 0.35 | B | | FM | |
| 7440-62-2 | Vanadium | 24.9 | | N,* | P | J |
| 7440-66-6 | Zinc | 228 | | *,E | P | J |
| | Cyanide | 1.3 | U | | ~~AS~~ AS | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
12/94

B000015

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Soil): Lab Sample ID: B416398
Level (Low/Med): Date Received: 11/18/94
% Solids: 72.1

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11100 | | | P | |
| 7440-36-0 | Antimony | 4.8 | U | N | P | J |
| 7440-38-2 | Arsenic | 4.02 | | | FM | |
| 7440-39-3 | Barium | 511 | | * | P | |
| 7440-41-7 | Beryllium | 0.59 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | | | P | |
| 7440-70-2 | Calcium | 8220 | | | P | |
| 7440-47-3 | Chromium | 21.2 | | * | P | J |
| 7440-48-4 | Cobalt | 7.5 | B | | P | |
| 7440-50-8 | Copper | 34.8 | | | P | |
| 7439-89-6 | Iron | 16100 | | * | P | J |
| 7439-92-1 | Lead | 119 | | * | P | |
| 7439-95-4 | Magnesium | 2720 | | * | P | |
| 7439-96-5 | Manganese | 298 | | * | P | J |
| 7439-97-6 | Mercury | 0.21 | | | AV | |
| 7440-02-2 | Nickel | 20.8 | | | P | |
| 7440-09-7 | Potassium | 1660 | | | P | |
| 7782-49-2 | Selenium | 1.42 | U | E,N | FM | R |
| 7440-22-4 | Silver | 0.79 | U | | P | |
| 7440-23-5 | Sodium | 158 | B | | P | |
| 7440-28-0 | Thallium | 0.31 | B | | FM | |
| 7440-62-2 | Vanadium | 26.7 | | N,* | P | J |
| 7440-66-6 | Zinc | 252 | | JC *,E | P | J |
| | Cyanide | 1.4 | U | | ~~AS~~ CN | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
12/94

E000016

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Soil): Lab Sample ID: B416399
Level (Low/Med): Date Received: 11/18/94
% Solids: 77.0

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3960 | | | P | |
| 7440-36-0 | Antimony | 6.0 | B | N | P | J |
| 7440-38-2 | Arsenic | 10.5 | | | FM | |
| 7440-39-3 | Barium | 71.5 | | * | P | |
| 7440-41-7 | Beryllium | 0.28 | B | | P | |
| 7440-43-9 | Cadmium | 0.84 | U | | P | |
| 7440-70-2 | Calcium | 9040 | | | P | |
| 7440-47-3 | Chromium | 11.6 | | * | P | J |
| 7440-48-4 | Cobalt | 5.5 | B | | P | |
| 7440-50-8 | Copper | 8.8 | | | P | |
| 7439-89-6 | Iron | 7760 | | * | P | J |
| 7439-92-1 | Lead | 11.3 | | | FM | |
| 7439-95-4 | Magnesium | 1660 | | * | P | |
| 7439-96-5 | Manganese | 229 | | * | P | J |
| 7439-97-6 | Mercury | 0.03 | U | | AV | |
| 7440-02-2 | Nickel | 7.2 | B | | P | |
| 7440-09-7 | Potassium | 608 | B | | P | |
| 7782-49-2 | Selenium | 1.25 | U | W,N | FM | R |
| 7440-22-4 | Silver | 0.84 | U | | P | |
| 7440-23-5 | Sodium | 83.6 | B | | P | |
| 7440-28-0 | Thallium | 0.25 | B | | FM | |
| 7440-62-2 | Vanadium | 17.5 | | N,* | P | J |
| 7440-66-6 | Zinc | 101 | | JC *,E | P JC | J |
| | Cyanide | 1.3 | U | | CA ~~AS~~ | |
| | | | | | AS | |
| | | | | | | |

Color Before: Black Clarity Before: Opaque Texture: Medium
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

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SOIL

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12/94

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GILBRALTER
Lab Code: Case No.: SAS No.: SDG No.: 115
Matrix (Soil): Lab Sample ID: B416400
Level (Low/Med): Date Received: 11/18/94
% Solids: 78.8

Concentration Units (mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4880 | | | P | |
| 7440-36-0 | Antimony | 4.7 | U | N | P | J |
| 7440-38-2 | Arsenic | 10.8 | | | FM | |
| 7440-39-3 | Barium | 70.4 | | * | P | |
| 7440-41-7 | Beryllium | 0.33 | B | | P | |
| 7440-43-9 | Cadmium | 0.78 | U | | P | |
| 7440-70-2 | Calcium | 12300 | | | P | |
| 7440-47-3 | Chromium | 14.1 | | * | P | J |
| 7440-48-4 | Cobalt | 5.3 | B | | P | |
| 7440-50-8 | Copper | 8.8 | | | P | |
| 7439-89-6 | Iron | 7950 | | * | P | J |
| 7439-92-1 | Lead | 13.7 | | S | FM | |
| 7439-95-4 | Magnesium | 1820 | | * | P | |
| 7439-96-5 | Manganese | 246 | | * | P | J |
| 7439-97-6 | Mercury | 0.03 | U | | AV | |
| 7440-02-2 | Nickel | 11.6 | | | P | |
| 7440-09-7 | Potassium | 496 | B | | P | |
| 7782-49-2 | Selenium | 1.27 | U | W,N | FM | R |
| 7440-22-4 | Silver | 0.78 | U | | P | |
| 7440-23-5 | Sodium | 83.6 | B | | P | |
| 7440-28-0 | Thallium | 0.30 | B | | FM | |
| 7440-62-2 | Vanadium | 19.8 | | N,* | P | J |
| 7440-66-6 | Zinc | 47.8 | | *,E | P | J |
| | Cyanide | 1.3 | U | | ~~AS~~ CA | |
| | | | | | AS | |
| | | | | | | |

Color Before: Brown Clarity Before: Opaque Texture: Medium
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
12/94

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: February 6, 1995

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User Mark Weber

The Quality Assurance Section has reviewed the following data package(s):

SITE NAME: Gibraltar CASE/SDG No: 115/470640

Date(s) Received for Review: 12/29/94 1/3/95 No. of Samples: 18

Laboratory(s): IEPA Hours Used for Review: 37 + 45 = 82

Reviewer(s): Chris Bridges
Jerry Clark

The following narrative represents our findings:

The results are valid as qualified on the enclosed Forms 1

- ☐ Data are acceptable for use.
- ☒ Data are acceptable for use with qualifications noted above.
- ☐ Data are preliminary - pending verification by laboratory.
- ☐ Data are unacceptable.

cc: Tom Crause

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA
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PRELIMINARY REVIEW

1. *Chain-of-Custody*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check chain-of-custody documentation for date/time sampled, date/time received in laboratory. |
| b. | [X] | [ ] | Check chain-of-custody documentation for proper documentation of transfers and signoffs. |
| c. | [X] | [ ] | Check chain-of-custody documentation for any inconsistencies or anomalies. |

Comments:

None

2. *Case Narrative*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Review entire case narrative. |
| b. | [X] | [ ] | Check case narrative for completeness. |
| c. | [X] | [ ] | Check for proper authorization signature. |

Comments:

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA - Spfld
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## II. GC/MS Instrument Performance Check

Fraction: (VOA) SemiVOA (*circle one*)

*1. Evaluate Forms V and Raw Data*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check that Forms V are present and completed for each 12 hour time period. |
| b. | [X] | [ ] | Check for transcription errors between raw data and Forms V. |
| c. | [X] | [ ] | Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred. |
| d. | [X] | [ ] | Check for calculation errors. |

*2. Verify Raw Data Format*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA). |

*3. Verify Ion Abundance Criteria*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that all ion abundance criteria has been met. |

*4. Verify Background Correction*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that tuning compound spectra were generated using appropriate background correction. |

Comments:

None

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA - Spfld
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## I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

| EPA Number | Lab Number | Date Coll. | Date Rec'd. | VOA Date Anal. | Semi-VOA Date Extr | Semi-VOA Date Anal. | Pesticide Date Extr | Pesticide Date Anal. |
|---|---|---|---|---|---|---|---|---|
| G101 | 0470649 | 11-16-94 | 11-16-94 | 11/18/94 | 11/21/94 | 11/30/94 | 11/18/94 | 11/29/94 |
| G102 | 0470650 | ↓ | 11-16-94 | ↓ | 11/21/94 | 11/30/94 | ↓ | ↓ |
| G103 | — 648 | ↓ | ↓ | ↓ | 11/21/94 | 11/29/94 | ↓ | ↓ |
| S101 | — 640 | 11/15/94 | ↓ | ↓ | 11/17/94 | 11/19/94 | ↓ | ↓ |
| S102 | — 641 | ↓ | ↓ | ↓ | 11/17/94 | 11/30/94 | ↓ | ↓ |
| S103 | — 642 | ↓ | ↓ | ↓ | 11/21/94 | 11/30/94 | ↓ | ↓ |
| TrblK | — 651 | 11/16/94 | ↓ | ↓ | — | — | — | — |
| X101 | — 652 | 11/16/94 | ↓ | ↓ | 11/17/94 | 11/22/94 | 11/17/94 | 11/30/94 |
| X101RE | — 652RE | 11/16/94 | ↓ | — | 11/17/94 | 11/24/94 | — | — |
| X102 | — 653 | 11/15/94 | ↓ | 11/21/94 | 11/17/94 | 11/22/94 | 11/17/94 | 12/1/94 |
| X103DL | — 653D | ↓ | ↓ | — | — | — | 11/17/94 | 12/1/94 |
| X103 | — 654 | ↓ | ↓ | 11/21/94 | 11/17/94 | 11/22/94 | ↓ | ↓ |
| X104 | — 655 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| X104DL | — 655D | ↓ | ↓ | — | 11/17/94 | 11/23/94 | ↓ | ↓ |
| X105 | — 656 | ↓ | ↓ | 11/21/94 | 11/17/94 | 11/22/94 | ↓ | ↓ |
| X105RE | — 656RE | ↓ | ↓ | ↓ | — | — | — | — |
| X105DL | — 656DD | ↓ | ↓ | — | — | — | 11/17/94 | 12/1/94 |
| X106 | — 657 | ↓ | ↓ | 11/21/94 | 11/17/94 | 11/22/94 | 11/17/94 | 12/1/94 |
| X106DL | — 657DD | ↓ | ↓ | — | — | — | ↓ | ↓ |
| X201 | — 643 | ↓ | ↓ | 11/21/94 | 11/17/94 | 11/22/94 | ↓ | 11/30/94 |
| X201RE | — 643RE | ↓ | ↓ | ↓ | ↓ | 11/30/94 | — | — |

List below all samples (by sample number and fraction) qualified due to holding times.

None

Data Validation Checklist
Site Name: Gibralter
SDG No.: 470640
Laboratory: IEPA - Spfld
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## I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

| EPA Number | Lab Number | Date Coll. | Date Rec'd. | VOA Date Anal. | Semi-VOA Date Extr | Semi-VOA Date Anal. | Pesticide Date Extr | Pesticide Date Anal. |
|---|---|---|---|---|---|---|---|---|
| X202 | -644 | 11/15/94 | 11/16/94 | 11/18/94 | 11/17/94 | 11/22/94 | 11/17/94 | 11/30/94 |
| X202RE | -644RE | ↓ | ↓ | — | 11/17/94 | 11/30/94 | — | — |
| X203 | -645 | ↓ | ↓ | 11/18/94 | 11/17/94 | 11/22/94 | 11/17/94 | 11/30/94 |
| X203RE | -645 | ↓ | ↓ | — | 11/17/94 | 11/30/94 | — | — |
| X203DL | -645D | ↓ | ↓ | — | — | — | 11/17/94 | 11/30/94 |
| X204 | -646 | ↓ | ↓ | 11/18/94 | 11/17/94 | 11/22/94 | 11/17/94 | 11/30/94 |
| X205 | -647 | ↓ | ↓ | 11/21/94 | 11/17/94 | 11/23/94 | 11/17/94 | 11/30/94 |
| X205RE | -647RE | ↓ | ↓ | 11/21/94 | — | — | — | — |

List below all samples (by sample number and fraction) qualified due to holding times.

NONE

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA Spfld
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## III. Initial Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. *Verify that the Correct Standard Concentrations Were Used.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s). |

2. *Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.*

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | Check that initial calibrations were performed as required for water/med. level soil and low level soil. |

3. *Verify Use of Correct Standards.*

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration. |

4. *Evaluate Initial Calibration* RRFs *and* $\overline{\text{RRF}}$s.

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard). |
| b. | [X] | [ ] | Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form. |

5. *Evaluate Initial Calibration %RSDs.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the *%RSD* for several target compounds. |
| b. | [X] | [ ] | Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form. |

Comments: NONE - See VOA outlier Forms

Data Validation Checklist
Site Name: Gibraltar
SDG No.: 470640
Laboratory: IEPA Spfld
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# IV. Continuing Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify Continuing Calibration Frequency.***

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration. |

2. ***Evaluate Continuing Calibration RRFs.***

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the continuing calibration *RRFs* for several compounds. |
| b. | [X] | [ ] | Check that all target compound and surrogate *RRFs* meet the criteria. |

3. ***Evaluate Continuing Calibration %Ds.***

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the continuing calibration *%Ds* for several compounds. |
| b. | [X] | [ ] | Check that all target compound and surrogate *%Ds* meet the applicable criteria. |

Comments: See VOA Outlier Form

# VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA - Solid

Case: Gibraltar SX470640

| Instrument # 5100 B | Minimum | Initial Cal. | | | Contin. Cal. | | | Contin. Cal. | | | Contin. Cal. | | | Contin. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: Calm DB-624 11/7/94 10:00 | RRF | 11/7/94 | | | 11/18/94 85 | | | | | | | | | | | |
| | | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q |
| Chloromethane | 0.010 | | | | | | | | | | | | | | | |
| Bromomethane | 0.100 | | | | | | | | | | | | | | | |
| Vinyl Chloride | 0.100 | | | | | | | | | | | | | | | |
| Chloroethane | 0.010 | | | | | | | | | | | | | | | |
| Methylene Chloride | 0.010 | | | | | | | | | | | | | | | |
| Acetone | 0.010 | | | | | | | | | | | | | | | |
| Carbon Disulfide | 0.010 | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 0.100 | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 0.200 | | | | | | | | | | | | | | | |
| 1,2-Dichloroethene (total) | 0.010 | | | | | | | | | | | | | | | |
| Chloroform | 0.200 | | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.100 | | | | | | | | | | | | | | | |
| 2-Butanone | 0.010 | | | | | 28.3 | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.100 | O K | O K | | O K | | | | | | | | | | | |
| Carbon Tetrachloride | 0.100 | | | | | | | | | | | | | | | |
| Bromodichloromethane | 0.200 | | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | 0.010 | | | | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | 0.200 | | | | | | | | | | | | | | | |
| Trichloroethene | 0.300 | | | | | | | | | | | | | | | |
| Dibromochloromethane | 0.100 | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.100 | | | | | | | | | | | | | | | |
| Benzene | 0.500 | | | | | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 0.100 | | | | | | | | | | | | | | | |
| Bromoform | 0.100 | | | | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | 0.010 | | | | | | | | | | | | | | | |
| 2-Hexanone | 0.010 | | | | | | | | | | | | | | | |
| Tetrachloroethene | 0.200 | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.500 | | | | | | | | | | | | | | | |
| Toluene | 0.400 | | | | | | | | | | | | | | | |
| Chlorobenzene | 0.500 | | | | | | | | | | | | | | | |
| Ethylbenzene | 0.100 | | | | | | | | | | | | | | | |
| Styrene | 0.300 | | | | | | | | | | | | | | | |
| Xylene(total) | 0.300 | | | | | | | | | | | | | | | |
| Bromofluorobenzene | 0.300 | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| |
|---|
| VBIKW |
| VBIKTB |
| G101 |
| G102 |
| G103 |
| S101 |
| S102 |
| S103 |
| G101MS |
| G101MSD |

Reviewer's Initials/Date

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

# VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA - Solid

Case: Gibraltar SDG 470640

| Instrument # XL2 DATE/TIME: DB-624 11/18/94 1025 | Minimum RRF | Initial Cal. 11/18/94 | | | Contin. Cal. 11/18/94 | | | Contin. Cal. 11/21/94 | | | Contin. Cal. | | | Contin. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q |
| Chloromethane | 0.010 | | | | | | | | -30.7 | | | | | | | |
| Bromomethane | 0.100 | | | | | | | | | | | | | | | |
| Vinyl Chloride | 0.100 | | | | | | | | | | | | | | | |
| Chloroethane | 0.010 | | | | | | | | 32.6 | | | | | | | |
| Methylene Chloride | 0.010 | | | | | | | | | | | | | | | |
| Acetone | 0.010 | | | | | | | | | | | | | | | |
| Carbon Disulfide | 0.010 | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 0.100 | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 0.200 | | | | | | | | | | | | | | | |
| 1,2-Dichloroethene (total) | 0.010 | | | | | | | | | | | | | | | |
| Chloroform | 0.200 | | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.100 | | | | | | | | | | | | | | | |
| 2-Butanone | 0.010 | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.100 | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | 0.100 | O | O | | | | | | | | | | | | | |
| Bromodichloromethane | 0.200 | K | K | | | | | | | | | | | | | |
| 1,2-Dichloropropane | 0.010 | | | | OK | OK | | OK | | | | | | | | |
| cis-1,3-Dichloropropene | 0.200 | | | | | | | | | | | | | | | |
| Trichloroethene | 0.300 | | | | | | | | | | | | | | | |
| Dibromochloromethane | 0.100 | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.100 | | | | | | | | | | | | | | | |
| Benzene | 0.500 | | | | | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 0.100 | | | | | | | | | | | | | | | |
| Bromoform | 0.100 | | | | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | 0.010 | | | | | | | | | | | | | | | |
| 2-Hexanone | 0.010 | | | | | | | | -27.0 | | | | | | | |
| Tetrachloroethene | 0.200 | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.500 | | | | | | | | | | | | | | | |
| Toluene | 0.400 | | | | | | | | | | | | | | | |
| Chlorobenzene | 0.500 | | | | | | | | | | | | | | | |
| Ethylbenzene | 0.100 | | | | | | | | | | | | | | | |
| Styrene | 0.300 | | | | | | | | | | | | | | | |
| Xylene(total) | 0.300 | | | | | | | | | | | | | | | |
| Bromofluorobenzene | 0.300 | | | | | | | | | | | | | | | |

AFFECTED SAMPLES:

| | | | |
|---|---|---|---|
| VBLKSL1 | VBLKSL1 | VBSLK2 | X105RE |
| X202 | X202 | X103 | X201RE |
| X203 | X203 | X104 | X205RE |
| X204 | X204 | X105 | |
| X101 | X101 | X106 | |
| | | X201 | |
| | | X205 | |
| | | X102 | |
| | | X202MS | |
| | | X202MSD | |

Reviewer's Initials/Date

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

Data Validation Checklist
Site Name: Gibraltar
SDG No.: 470640
Laboratory: IEPA - Spfld
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## V. Blanks

Fraction: (VOA) SemiVOA Pest. (*circle one*)

1. ***Review Blank Results.***

YES NO
[ ] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[ ] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

| | | | | |
|---|---|---|---|---|
| Blank Sample No. | VBLKW | VBLKTB | VBLKSL1 | VBLKSL2 |
| Date Anal. or Extr. | 11/18/94 | 11/18/94 | 11/18/94 | 11/21/94 |
| Instrument | CB ~~DB 624~~ 5100B | 5100B | XL2 | XL2 |

| TCL Comp'd. | Amount | TCL Comp'd. | Amount | TCL Comp'd. | Amount | TCL Comp'd. | Amount |
|---|---|---|---|---|---|---|---|
| Chloroform | 2 | | | 2-Butanone | 4 | Methylene Chloride | 2 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| TIC Comp'd. | Amount | TIC Comp'd. | Amount | TIC Comp'd. | Amount | TIC Comp'd. | Amount |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
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Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA
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# X. Internal Standards

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

*1. Evaluate Raw Data.*

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

*2. Verify RT and IS Area Criteria.*

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

*3. Evaluate Reanalyses.*

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:
X105 BFB Area high (56607) Use Reanalysis
X105RE BFB Area high (49117)
X105 CBZ area high (37879) Use Reanalysis
X105RE CBZ area high (26180)

See Surrogates

# XI. Target Compound Identification

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. *Verify Relative Retention Time (RRT) Criteria.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the RRT of reported compounds is within the criteria. |

2. *Evaluate Target Compound Spectra.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met. |

3. *Evaluate Possible Carryover.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results. |

4. *Evaluate Chromatograms.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the sample chromatograms to verify that peaks are accounted for. |

Comments:

## XII. Compound Quantitation and Reported CRQLs

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. *Evaluate Quantitation of Sample Results.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check raw data to verify calculation of sample results. |

2. *Evaluate Quantitation Parameters.*

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process. |

3. *Evaluate CRQLs.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors. |

Comments:

NONE

## XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (*circle one*)

1. *Evaluate Tentative Identifications.*

   YES NO
   [X] [ ] Check that all TICs reported meet the identification guidelines.

2. *Evaluate Raw Data.*

   YES NO
   [X] [ ] Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. *Evaluate Blanks.*

   YES NO
   [X] [ ] Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. *Examine Mass Spectra.*

   YES NO
   [X] [ ] Check all mass spectra for every sample.

5. *Evaluate TIC Identifications.*

   YES NO
   [X] [ ] Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. *Evaluate Laboratory Artifacts and Contaminants.*

   YES NO
   [X] [ ] Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. *Evaluate Possibility of False Negatives.*

| | YES | NO | N/A | |
|---|---|---|---|---|
| a. | [X] | [ ] | [ ] | Check to determine if target compounds have been identified and quantitated as TICs. |
| b. | [X] | [ ] | [X] | If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below. |

8. *Determine That Results Are From Proper Fraction.*

| YES | NO | N/A | |
|---|---|---|---|
| [ ] | [ ] | [X] | Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction. |

9. *Verify That Internal Standards And Surrogates Are Not Searched.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that library searches were not performed on internal standards or surrogates. |

10. *Verify Estimated Quantitation of TICs.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the estimated concentration of the TICs was made using an assumed *RRF* of one. |

Comments:

## XIV. GC/MS System Performance

Fraction: VOA SemiVOA (*circle one*)

*1. Evaluate Overall System Performance.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check for high RIC background levels or shifts in absolute retention times of internal standards. |
| b. | [X] | [ ] | Check for excessive baseline rise at elevated temperature. |
| c. | [X] | [ ] | Check for extraneous peaks. |
| d. | [X] | [ ] | Check for loss of resolution. |
| e. | [X] | [ ] | Check for peak tailing or peak splitting that may result in inaccurate quantitation. |

Comments:
none

Data Validation Checklist
Site Name: Gibraltar
SDG No.: 470640
Laboratory: IEPA
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# VI. Surrogate Spikes

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

YES NO
a. [X] [ ] Check that reanalyses were performed as required.
b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:
X201 BFB Rec. high (120%) ~~use Reanalysis~~ use Reanalysis
X201 RE BFB Rec high (114%)
X205 BFB Rec high (122%) use Reanalysis
X205RE BFB Rec high (120%)

See Internal Stds

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA Spfld
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## VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. *Verify Frequency*

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. *Evaluate MS/MSD Criteria.*

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. *Verify MS/MSD Calculations.*

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. *Evaluate Sample Precision.*

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

| Compound | Orig. Result | MS Result | MSD Result | %RSD |
|---|---|---|---|---|
| x202 ms Methylene Chloride | 3 | 15 | 16 | 63.8 |
| Acetone | ~~16~~ 35 | ~~35~~ 4 | 74 | 35.9 |
| 2-Butanone | 10 | 11 | 20 | 40.3 |
| Toluene | 3 | — | — | |
| | | | | |
| | | | | |

Comments:

NONE

## VIII. Laboratory Control Samples

N/A

## IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

Case : Gibraltar 306470640 (VOA) SV PEST

Water sample surrogate %R

Sample # (and column # for PEST) : G101
Surrogate : Toluene d8
Concentration added (ug/L) : 50
Calculated %R : 100
Reported %R : 100

$\frac{(46707)(250)(1)}{(33349)(1.398)(5)} = 50.09$

$\frac{50.09}{50} = 100$

Comment : OK

Soil sample surrogate %R

Sample # (and column # for PEST) : X101
Surrogate : BFB
Concentration added (ug/Kg) : 59.5
Calculated %R : 89.8
Reported %R : 90.0

$\frac{(129470)(250)}{(122338)(1.118)(5)(.84)} = 53.47$

50/.84 = 59.5 added

$\frac{53.47}{59.5} \times 100 = 89.8$

Comment : OK

Water sample MS/MSD

Sample # (and column # for PEST) : ~~X101~~ G101 MSD
Compound : Benzene
Calculated concentration (ug/L) : 49.2
Reported concentration : 49.2
%R calculated correctly? yes

$\frac{(366696)(250)(1)}{(373888)(.997)(5)} = 49.2$

$\frac{49.2}{50} = 98$

Comment :

Soil sample MS/MSD

Sample # (and column # for PEST) : X202 MSD
Compound : Toluene
Calculated concentration (ug/Kg) : 96.3
Reported concentration : 96.23
%R calculated correctly? yes

$\frac{(134355)(250)}{(105411)(1.085)(.61)(5)} = 96.3$

~~$\frac{96.3 \times 100}{82} = 117$~~ $\frac{96.3 - 3.311}{82} = 11$

Comment :

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA
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## II. GC/MS Instrument Performance Check

Fraction: VOA SemiVOA (*circle one*)

1. *Evaluate Forms V and Raw Data*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check that Forms V are present and completed for each 12 hour time period. |
| b. | [X] | [ ] | Check for transcription errors between raw data and Forms V. |
| c. | [X] | [ ] | Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred. |
| d. | [X] | [ ] | Check for calculation errors. |

2. *Verify Raw Data Format*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA). |

3. *Verify Ion Abundance Criteria*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that all ion abundance criteria has been met. |

4. *Verify Background Correction*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that tuning compound spectra were generated using appropriate background correction. |

Comments:
NONE

# III. Initial Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. *Verify that the Correct Standard Concentrations Were Used.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s). |

2. *Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.*

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | Check that initial calibrations were performed as required for water/med. level soil and low level soil. |

3. *Verify Use of Correct Standards.*

| YES | NO | N/A | |
|---|---|---|---|
| [ ] | [ ] | [X] | Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration. |

4. *Evaluate Initial Calibration* RRFs *and* $\overline{\text{RRF}}$s.

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard). |
| b. | [X] | [ ] | Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form. |

5. *Evaluate Initial Calibration %RSDs.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the *%RSD* for several target compounds. |
| b. | [X] | [ ] | Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form. |

Comments:

# IV. Continuing Calibration

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

*1. Verify Continuing Calibration Frequency.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration. |

*2. Evaluate Continuing Calibration RRFs.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the continuing calibration *RRFs* for several compounds. |
| b. | [X] | [ ] | Check that all target compound and surrogate *RRFs* meet the criteria. |

*3. Evaluate Continuing Calibration %Ds.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check and recalculate the continuing calibration *%Ds* for several compounds. |
| b. | [X] | [ ] | Check that all target compound and surrogate *%Ds* meet the applicable criteria. |

Comments:

NONE

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: ~~Gibraltar~~ IEPA as 11/19/95 Case: Gibraltar 470640

| Instrument # INC 5000 | Minimum | Initial Cal. | | | Contin. Cal. | | | Contin. Cal. | | | Contin. Cal. | | | Contin. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | RRF | 11/2/94 2005 | | | 11/18/94 1908 | | | 11/21/94 832 | | | 11/22/94 2015 — cont | | | | | |
| | | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q |
| Diethylphthalate | 0.010 | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 0.400 | | | | | | | | | | | | | | | |
| Fluorene | 0.900 | | | | | | | | | | | | | | | |
| 4-Nitroaniline | 0.010 | | 50.8 | | 0.013 | 86.3 | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.010 | | | | | | | | | | | | | | | |
| N-Nitrosodiphenylamine (1) | 0.010 | | | | | | | | | | | | | | | |
| 4-Bromophenyl-ethylether | 0.100 | | | | | | | | | | | | | | | |
| Hexachlorobenzene | 0.100 | | | | | | | | | | | | | | | |
| Pentachlorophenol | 0.050 | | | | | -29.5 | | | | | | -32.0 | | | | |
| Phenanthrene | 0.700 | | | | | | | | | | | | | | | |
| Anthracene | 0.700 | | | | | | | | | | | | | | | |
| Carbazole | 0.010 | | | | | | | | | | | | | | | |
| Di-n-butylphthalate | 0.010 | | | | | | | | | | | | | | | |
| Fluoranthene | 0.600 | | | | | | | | | | | | | | | |
| Pyrene | 0.600 | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | 0.010 | | | | | | | | | | | | | | | |
| 3,3'-Dichlorobenzidine | 0.010 | | | | | | | | | | | | | | | |
| Benzo(a)anthracene | 0.800 | | | | | | | | | | | | | | | |
| Chrysene | 0.700 | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 0.010 | | | | | | | | | | | | | | | |
| -n-octylphthalate | 0.010 | | | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 0.700 | | | | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 0.700 | | | | | | | | | | | | | | | |
| Benzo(a)pyrene | 0.700 | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.500 | | | | | 26.4 | | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.400 | | | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.500 | | | | | 29.7 | | | | | | | | | | |
| Nitrobenzene-d5 | 0.200 | | | | | | | | | | | | | | | |
| 2-Fluorobiphenol | 0.700 | | | | | | | | | | | | | | | |
| Terphenyl-d14 | 0.500 | | | | | | | | | | | | | | | |
| Phenol-d6 | 0.800 | | | | | | | | | | | | | | | |
| 2-Fluorophenol | 0.600 | | | | | | | | | | | | | | | |
| 2-Chlorophenol-d4 | 0.800 | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 | 0.400 | | | | | | | | | | | | | | | |
| 4-Nitrophenol | 0.010 | | | | | | | | | | | | | | | |
| Dibenzofuran | 0.800 | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 0.200 | | | | | | | | | | | | | | | |

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's
Initials/Date

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: ISPA

Case: Gibraltar

| Instrument # | Minimum | Initial Cal. | | | Contin. Cal. | | | Contin. Cal. | | | Contin. Cal. | | | Contin. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE/TIME: | RRF | 11/2/94 | | | 11/29/94 | | | | | | | | | | | |
| | | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q | RF | %RSD | Q |
| Diethylphthalate | 0.010 | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 0.400 | | | | | | | | | | | | | | | |
| Fluorene | 0.900 | | | | | | | | | | | | | | | |
| 4-Nitroaniline | 0.010 | | | | | 88.4 | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.010 | | | | | | | | | | | | | | | |
| N-Nitrosodiphenylamine (1) | 0.010 | | | | | | | | | | | | | | | |
| 4-Bromophenyl-ethylether | 0.100 | | | | | | | | | | | | | | | |
| Hexachlorobenzene | 0.100 | | | | | -32.4 | | | | | | | | | | |
| Pentachlorophenol | 0.050 | | | | | -27.9 | | | | | | | | | | |
| Phenanthrene | 0.700 | | | | | | | | | | | | | | | |
| Anthracene | 0.700 | | | | | | | | | | | | | | | |
| Carbazole | 0.010 | | | | | | | | | | | | | | | |
| Di-n-butylphthalate | 0.010 | | | | | | | | | | | | | | | |
| Fluoranthene | 0.600 | | | | | -32.2 | | | | | | | | | | |
| Pyrene | 0.600 | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | 0.010 | | | | | | | | | | | | | | | |
| 3,3'-Dichlorobenzidine | 0.010 | | | | | | | | | | | | | | | |
| Benzo(a)anthracene | 0.800 | | | | | | | | | | | | | | | |
| Chrysene | 0.700 | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 0.010 | | | | | | | | | | | | | | | |
| Di-n-octylphthalate | 0.010 | | | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 0.700 | | | | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 0.700 | | | | | | | | | | | | | | | |
| Benzo(a)pyrene | 0.700 | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.500 | | | | | | | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.400 | | | | | 25.2 | | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.500 | | | | | | | | | | | | | | | |
| Nitrobenzene-d5 | 0.200 | | | | | | | | | | | | | | | |
| 2-Fluorobiphenol | 0.700 | | | | | | | | | | | | | | | |
| Terphenyl-d14 | 0.500 | | | | | | | | | | | | | | | |
| Phenol-d6 | 0.800 | | | | | | | | | | | | | | | |
| 2-Fluorophenol | 0.600 | | | | | | | | | | | | | | | |
| 2-Chlorophenol-d4 | 0.800 | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 | 0.400 | | | | | | | | | | | | | | | |
| 4-Nitrophenol | 0.010 | | | | | | | | | | | | | | | |
| Dibenzofuran | 0.800 | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 0.200 | | | | | | | | | | | | | | | |

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's
Initials/Date

Data Validation Checklist
Site Name: Gibraltar
SDG No.: 470640
Laboratory: IEPA - Spfld
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## V. Blanks

Fraction: VOA SemiVOA Pest. *(circle one)*

*1. Review Blank Results.*

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

*2. Verify Blank Frequency.*

YES NO
[ ] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

| | | | | |
|---|---|---|---|---|
| Blank Sample No. | SBLKW1 | SBLKW2 | SBLKSL | |
| Date Anal. or Extr. | 11/18/94 | 11/29/94 | 11/21/94 | |
| Instrument | INC 500 | INC 500 | INC 500 | |

| TCL Comp'd. | Amount | TCL Comp'd. | Amount | TCL Comp'd. | Amount | TCL Comp'd. | Amount |
|---|---|---|---|---|---|---|---|
| ~~Diethyl phthalate~~ | | | | | | | |
| See Attached | | See Form | | See Attached | | | |
| Forms | 1 | 1 Attached | | Form | 1 | | |
| | | | | | | | |
| | | | | | | | |

| TIC Comp'd. | Amount | TIC Comp'd. | Amount | TIC Comp'd. | Amount | TIC Comp'd. | Amount |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| See | | | | | | | |
| | | Forms 1 | | | | | |
| | | Attached | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470842

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1118E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| 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-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 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

EPA SAMPLE NO.

SBLKW1

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470842

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1118E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| 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 | 7 | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-10-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 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-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470842

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1118E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 9.60 | 35 | J |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.35 | 8 | J |
| 3. 2441-97-6 | CYCLOHEXENE, 3-CHLORO- | 10.87 | 6 | JN |
| 4. | UNKNOWN ALIP. KETONE | 11.42 | 6 | AJ |
| 5. | UNKNOWN | 11.80 | 15 | J |
| 6. | UNKNOWN | 13.62 | 6 | J |
| 7. 16890-91-8 | CYCLOHEXANE, 1,4-DICHLORO-, | 14.50 | 3 | JN |
| 8. | UNKNOWN | 16.02 | 91 | J |
| 9. | UNKNOWN | 16.10 | 13 | J |
| 10. 1541-20-4 | BI-2-CYCLOHEXEN-1-YL | 19.40 | 6 | JN |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW2

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470939

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| 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-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 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

EPA SAMPLE NO.

SBLKW2

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470939

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| 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 |
| 100-10-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 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-Octyl Phthalate | 10 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW2

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470939

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 9.62 | 69 | J |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.37 | 16 | J |
| 3. 2441-97-6 | CYCLOHEXENE, 3-CHLORO- | 10.88 | 4 | JN |
| 4. | UNKNOWN | 11.82 | 36 | J |
| 5. | UNKNOWN | 13.62 | 4 | J |
| 6. | UNKNOWN | 16.03 | 140 | J |
| 7. | UNKNOWN | 16.13 | 26 | J |
| 8. 1541-20-4 | BI-2-CYCLOHEXEN-1-YL | 19.40 | 12 | JN |
| 9. | UNKNOWN | 19.92 | 2 | J |
| 10. | UNKNOWN | 24.15 | 5 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470725

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/21/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 330 | U |
| 95-57-8 | 2-Chlorophenol | 330 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330 | U |
| 95-48-7 | 2-Methylphenol | 330 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 330 | U |
| 106-44-5 | 4-Methylphenol | 330 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 330 | U |
| 67-72-1 | Hexachloroethane | 330 | U |
| 98-95-3 | Nitrobenzene | 330 | U |
| 78-59-1 | Isophorone | 330 | U |
| 88-75-5 | 2-Nitrophenol | 330 | U |
| 105-67-9 | 2,4-Dimethylphenol | 330 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 330 | U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330 | U |
| 91-20-3 | Naphthalene | 330 | U |
| 106-47-8 | 4-Chloroaniline | 330 | U |
| 87-68-3 | Hexachlorobutadiene | 330 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 330 | U |
| 91-57-6 | 2-Methylnaphthalene | 330 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 790 | U |
| 91-58-7 | 2-Chloronaphthalene | 330 | U |
| 88-74-4 | 2-Nitroaniline | 790 | U |
| 131-11-3 | Dimethylphthalate | 330 | U |
| 208-96-8 | Acenaphthylene | 330 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | U |
| 99-09-2 | 3-Nitroaniline | 790 | U |
| 83-32-9 | Acenaphthene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470725

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/21/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 790 | U |
| 100-02-7 | 4-Nitrophenol | 790 | U |
| 132-64-9 | Dibenzofuran | 330 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | U |
| 84-66-2 | Diethylphthalate | 330 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330 | U |
| 86-73-7 | Fluorene | 330 | U |
| 100-10-6 | 4-Nitroaniline | 790 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 790 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330 | U |
| 118-74-1 | Hexachlorobenzene | 330 | U |
| 87-86-5 | Pentachlorophenol | 790 | U |
| 85-01-8 | Phenanthrene | 330 | U |
| 120-12-7 | Anthracene | 330 | U |
| 86-74-8 | Carbazole | 330 | U |
| 84-74-2 | Di-n-Butylphthalate | 440 | |
| 206-44-0 | Fluoranthene | 330 | U |
| 129-00-0 | Pyrene | 330 | U |
| 85-68-7 | Butylbenzylphthalate | 330 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3 | Benzo(a)Anthracene | 330 | U |
| 218-01-9 | Chrysene | 330 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 330 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 330 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 330 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 330 | U |
| 50-32-8 | Benzo(a)Pyrene | 330 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 330 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 330 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470725

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/21/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 12

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.57 | 28000 | JNA |
| 2. | UNKNOWN | 9.72 | 290 | J |
| 3. | UNKNOWN | 10.92 | 170 | J |
| 4. | UNKNOWN | 11.07 | 1100 | J |
| 5. | UNKNOWN | 11.55 | 230 | J |
| 6. | UNKNOWN ALIP. KETONE | 11.77 | 2300 | AJ |
| 7. | UNKNOWN | 11.83 | 99 | J |
| 8. | UNKNOWN ALIP. KETONE | 11.98 | 420 | AJ |
| 9. | UNKNOWN ALIP. ALCOHOL | 13.10 | 580 | J |
| 10. | UNKNOWN ALIP. ACID | 27.78 | 160 | J |
| 11. | UNKNOWN | 33.47 | 150 | J |
| 12. | UNKNOWN | 37.60 | 440 | J |

Data Validation Checklist
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SDG No.: 470640
Laboratory: IEPA
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## VI. Surrogate Spikes

GC/MS

Fraction: VOA SemiVOA (circle one)

*1. Review Raw Data.*

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

*2. Evaluate Surrogate Recovery Calculations.*

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

*3 Evaluate Surrogate Recoveries.*

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

*4. Evaluate Reanalyses.*

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:
NONE

## VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA Pesticide *(circle one)*

1. *Verify Frequency*

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. *Evaluate MS/MSD Criteria.*

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. *Verify MS/MSD Calculations.*

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. *Evaluate Sample Precision.*

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

| Compound | Orig. Result | MS Result | MSD Result | %RSD |
|---|---|---|---|---|
| Spike Diethyladipate | — | 4 | 4 | 86.8 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Comments:
4 Nitrophenol %R in MS & MSD out of limits
2,4-Dinitrotoluene %R in MS & MSD out of limits
Pentachlorophenol %R " " " "

## VIII. Laboratory Control Samples

N/A

## IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

Data Validation Checklist
Site Name: Gibraltar
SDG
No.: 470640
Laboratory: IEPA
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# X. Internal Standards

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. *Evaluate Raw Data.*

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. *Verify RT and IS Area Criteria.*

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

3. *Evaluate Reanalyses.*

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:

~~5101MSD Perylene d12 (IS) high area~~
X101 Perylene d12 area high 119460 use
X202 " " " 151965 use Reanalysis
X201 " " " 166592 ~~See Surrogate~~ use reanalysis
X101RE " " " 130680 use original
X202RE " " 141087 use
X203 " " 127009 use reanalysis
~~X101MS~~ " "
X201RE " " 150467 use
X203RE " " 114943 use

# XI. Target Compound Identification

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. *Verify Relative Retention Time (RRT) Criteria.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the RRT of reported compounds is within the criteria. |

2. *Evaluate Target Compound Spectra.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met. |

3. *Evaluate Possible Carryover.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results. |

4. *Evaluate Chromatograms.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check the sample chromatograms to verify that peaks are accounted for. |

Comments:

NONE

## XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide *(circle one)*

1. ***Evaluate Quantitation of Sample Results.***

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check raw data to verify calculation of sample results. |

2. ***Evaluate Quantitation Parameters.***

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process. |

3. ***Evaluate CRQLs.***

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors. |

Comments:

NONE

# XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (circle one)

1. *Evaluate Tentative Identifications.*

YES NO
[X] [ ] Check that all TICs reported meet the identification guidelines.

2. *Evaluate Raw Data.*

YES NO
[X] [ ] Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. *Evaluate Blanks.*

YES NO
[X] [ ] Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. *Examine Mass Spectra.*

YES NO
[X] [ ] Check all mass spectra for every sample.

5. *Evaluate TIC Identifications.*

YES NO
[X] [ ] Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. *Evaluate Laboratory Artifacts and Contaminants.*

YES NO
[X] [ ] Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. *Evaluate Possibility of False Negatives.*

| | YES | NO | N/A | |
|---|---|---|---|---|
| a. | [X] | [ ] | [ ] | Check to determine if target compounds have been identified and quantitated as TICs. |
| b. | [X] | [ ] | [ ] | If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below. |

8. *Determine That Results Are From Proper Fraction.*

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction. |

9. *Verify That Internal Standards And Surrogates Are Not Searched.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that library searches were not performed on internal standards or surrogates. |

10. *Verify Estimated Quantitation of TICs.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the estimated concentration of the TICs was made using an assumed *RRF* of one. |

Comments:

## XIV. GC/MS System Performance

Fraction: VOA SemiVOA (*circle one*)

*1. Evaluate Overall System Performance.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check for high RIC background levels or shifts in absolute retention times of internal standards. |
| b. | [X] | [ ] | Check for excessive baseline rise at elevated temperature. |
| c. | [X] | [ ] | Check for extraneous peaks. |
| d. | [X] | [ ] | Check for loss of resolution. |
| e. | [X] | [ ] | Check for peak tailing or peak splitting that may result in inaccurate quantitation. |

Comments:

## XV. Overall Assessment of Data

*Evaluate the Overall Quality of the Data.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Evaluate any technical problems which have not been previously addressed. |
| [X] | [ ] | Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems. |
| [X] | [ ] | If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data. |

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Case : Gibraltar 470640 VOA (SV) PEST

Water sample TCL

$\frac{(153916)(40)(500)(1)(2)}{(215105)(.983)(2)(30.3)(.82)} = 586$

Sample # (and column # for PEST) : X104
Compound : ~~Di-n-Butylphthalate~~ Anthracene
Calculated concentration (ug/L) : 586
Reported concentration : 590

Comment : OK

Soil sample TCL

$\frac{(18090)(40)(1000)(1)}{(68418)(1.624)(1000)(2)} = 3.2$

Sample # (and column # for PEST) : S103
Compound : Phenol
Calculated concentration (ug/Kg) : 3.2
Reported concentration : 3.0

Comment : OK

Multicomponent analyte (PEST only)

Sample and column # : _____
Compound : _____
Calculated concentration : _____
Reported concentration : _____

NA

Comment : _____

TICs

$\frac{(49659)(40)(1000)(1)}{(179360)(1)(1000)(2)} = 5.5$

Water sample # : G101
TIC # : #9 Triphenylphosphine oxide
Calculated concentration (ug/L) : 5.5
Reported concentration : 6.0

Comment : OK

$\frac{(20725800)(40)(500)(2)}{(545760)(1)(2)(30.3)(.76)} = 32982$

Soil sample # : X103
TIC # : 1
Calculated concentration (ug/Kg) : 32982
Reported concentration : 33000

Comment : OK

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## II. Pesticide Instrument Performance Check

1. *Resolution Check Mixture*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check the Form VIII PEST. to determine that the resolution check mixture(s) was analyzed in the proper sequence. |
| b. | [X] | [ ] | Check the resolution check mixture data and the Form VI PEST.-4 to verify that the resolution criterion was met. |

2. *Performance Evaluation Mixture*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check the Form VII PEST. to determine that the PEM(s) was analyzed at the proper frequency and position in the initial calibration sequence. |
| b. | [X] | [ ] | Check the PEM data from the initial and continuing calibrations to verify that the resolution criterion was met. |
| c. | [X] | [ ] | Check the PEM data from the initial and continuing calibrations and Form VII PEST.-1 to verify that the retention times are within the retention time windows. |
| d. | [✓] | [ ] | Check that the *RPDs* meet the criterion. |
| e. | [X] | [ ] | Check that the breakdowns for 4,4'-DDT and Endrin meet the criteria. |

Comments:

NONE

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## III. Initial Calibration

PESTICIDES

1. *Individual Standard Mixtures.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check the Form VIII PEST to verify that the Individual Standard Mixtures were analyzed at the proper frequency for each GC column and instrument. Check that the proper concentrations were used. |
| b. | [✓] | [ ] | Check the raw data to determine that the midpoint standard is at the proper concentration and verify that the resolution criterion has been met for each midpoint concentration standard. |
| c. | [X] | [ ] | Check the Individual Standard Mixture data and Form VI PEST.-1 and review the calculated retention time windows for calculation and transcription errors. |
| d. | [X] | [ ] | Check the Individual Standard Mixture data and Form VI PEST.-2 to verify that the *%RSDs* for the calibration factors meet the criterion. Check and recalculate several *%RSDs* for errors. |

2. *Multi Component Compounds.*

| | | | |
|---|---|---|---|
| a. | [X] | [ ] | Check the raw data and the Form VIII PEST. to verify that the Multi-component Standards were analyzed at the proper concentration and frequency for each GC column and instrument. |
| b. | [X] | [ ] | Check the raw data and Form VI PEST.-3 to verify that at least three peaks were used for calibration and that retention time and calibration factor data are available for each peak. |

Comments:

NONE

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# IV. Continuing Calibration

PESTICIDES

1. *Evaluate Continuing Calibration Standards.*

YES NO
[X] [ ] Check the Form VIII PEST to verify that the Instrument Blanks, PEMs, and Individual Standard Mixtures were analyzed at the proper frequency and that no more than 12:00 hours elapsed between calibration brackets in an ongoing analytical sequence.

2. *Individual Standard Mixtures Resolution.*

YES NO
[X] [ ] Check the data for the midpoint concentration of the Individual Standard Mixtures to verify that the resolution criteria was met.

3. *Individual Standard Mixtures Retention Times*

YES NO
[X] [ ] Check the data for each of the single component pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures to verify that the retention times are within the appropriate windows.

4. *Evaluate Continuing Calibration RPDs.*

YES NO
[X] [ ] Check the data for the midpoint concentration of the Individual Standard Mixtures and Form VII PEST.-2 to verify that the *RPDs* between the calculated amount and the true amount for each of the pesticides and surrogates meet the criterion.

Comments:
INDAM03 (11/30/94) 19/06 %D=25.5 - DIBIKS · 11/30/94 @ 1825 Methoxychlor DB1701
INDBM03 (11/30/94 @ 1947) %D=35.8 - Endrin Aldehyde DB1701
INDAM04 (12/1/94 @ 2237) %D=28 - Methoxychlor DB1701
INDBM04 (12/1/94 @ 2317) %D=70.8 - Endrin Aldehyde DB1701

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## V. Blanks

Fraction: VOA SemiVOA (Pest.) *(circle one)*

*1.* ***Review Blank Results.***

YES NO
[ ] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

*2.* ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

| | | | | |
|---|---|---|---|---|
| Blank Sample No. | PBLKW1 | PIBLKSI | CPCBLK01 | |
| Date Anal. or Extr. | 11/29/94 | 11/29/94 | 11/29/94 | |
| Instrument | ~~DB608~~ HP1 & HP2 | HP1 & HP2 | HP | |

| TCL Comp'd. | Amount | TCL Comp'd. | Amount | TCL Comp'd. | Amount | TCL Comp'd. | Amount |
|---|---|---|---|---|---|---|---|
| Endosulfan II | .0045 | Methoxychlor | 0.22 | Methoxychlor | 0.32 | | |
| Aroclor 1260 | 0.13 | Aroclor 1260 | 4.2 | ~~Aroclor 1260~~ | ~~4.2~~ | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| TIC Comp'd. | Amount | TIC Comp'd. | Amount | TIC Comp'd. | Amount | TIC Comp'd. | Amount |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
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## VI. Surrogate Spikes

Pesticides

1. *Review Raw Data.*

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. *Evaluate Surrogate Recovery Calculations.*

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 *Evaluate Possible Interferences.*

YES NO N/A
[X] [ ] [ ] If surrogate spike recoveries are not acceptable, check the raw data for possible interferences which may have effected surrogate recoveries.

4. *Evaluate Retention Times.*

YES NO N/A
[X] [ ] [ ] If retention time limits are not met, check the raw data for possible misidentification of GC peaks.

5. *Evaluate Any Low Recoveries.*

YES NO N/A
[X] [ ] [ ] If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. *Evaluate Surrogate Analyses in Blanks.*

YES NO
[ ] [ ] Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples.

Comments:
See Next pg (Form 2F) for Surrogate Soil Rec, outside 60-150% However NO samples are qualified based on Surrogates

X105 DL DCB out of Ret Time DB1701
X106 DL DCB out of Ret Time DB1701
X104 DL " " DB608
X104 " " DB608
X106 DL " " DB608

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2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

GC Column(1): DB-608 ID: 0.53(mm) GC Column(2): DB-1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLKS1 | 62 | 69 | 91 | 95 | | | 0 |
| 02 | X101 | 69 | 84 | 95 | 102 | | | 0 |
| 03 | X101MS | 74 | 94 | 111 | 110 | | | 0 |
| 04 | X101MSD | 82 | 106 | 125 | 128 | | | 0 |
| 05 | X102 | 88 | 107 | 127 | 108 | | | 0 |
| 06 | X102DL | 90 | 120 | 2550* | 92 | | | 1 |
| 07 | X103 | 147 | 187* | 196* | 220* | | | 3 |
| 08 | X104 | 134 | 144 | 0* | 128 | | | 1 |
| 09 | X104DL | 158* | 203* | 0D | 151* | | | 3 |
| 10 | X105 | 100 | 120 | 252* | 220* | | | 2 |
| 11 | X105DL | 102 | 105 | 12400* | 0D | | | 1 |
| 12 | X106 | 93 | 118 | 360* | 149 | | | 1 |
| 13 | X106DL | 93 | 104 | 0D | 0D | | | 0 |
| 14 | X201 | 81 | 99 | 132 | 144 | | | 0 |
| 15 | X202 | 91 | 112 | 156* | 160* | | | 2 |
| 16 | X203 | 86 | 136 | 164* | 159* | | | 2 |
| 17 | X203DL | 85 | 111 | 192* | 208* | | | 2 |
| 18 | X204 | 92 | 112 | 114 | 114 | | | 0 |
| 19 | X205 | 75 | 107 | 99 | 115 | | | 0 |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | ( 60-150) |
| DCB = Decachlorobiphenyl | ( 60-150) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

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## VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA (Pesticide) *(circle one)*

1. *Verify Frequency*

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. *Evaluate MS/MSD Criteria.*

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. *Verify MS/MSD Calculations.*

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. *Evaluate Sample Precision.*

YES NO
[ ] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

| | Compound | Orig. Result | MS Result | MSD Result | %RSD |
|---|---|---|---|---|---|
| G102 | Aroclor 1260 | 0.047 | 0.084 | 0.097 | 34.1% |
| X101 | Dieldrin | 0.37 | 36 | 40 | 85% |
| Y101 | 4,4-DDT | 0.41 | 39 | 46 | 86% |
| X101 | Methoxychlor | 0.26 | 0.37 | 0.49 | 30.8 |
| X101 | Gamma Chlordane | 0.14 | 0.16 | 0.18 | 12.5 |
| Y101 | Aroclor ~~1254~~ 1260 | ~~[illegible]~~ 16 | 12 | 23 | 32.7% |

Comments:

## VIII. Laboratory Control Samples

N/A

## IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

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# X. Pesticide Cleanup Checks

1. *Florisil Cartridge Check.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check the data from the Florisil cartridge solution analyses and the Form IX PEST.-1 and check some of the *%R* calculations; verify that there are no calculation or transcription errors. |
| b. | [X] | [ ] | Check all criteria have been met. |

2. *Gel Permeation Chromatography.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check the data from the GPC calibration check analyses and the Form IX PEST.-2 and recalculate some of the *%R* results; verify that there are no calculation or transcription errors. |
| b. | [X] | [ ] | Check all criteria have been met and that Arochlor patterns are similar to those of previous standards. |

Comments:

NONE

# XI. Target Compound Identification

Pesticides

1. *Evaluate Reported Results.*

| | YES | NO | |
|---|---|---|---|
| a. | [X] | [ ] | Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported detected analytes. |
| b. | [X] | [ ] | Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported non-detects. |
| c. | [X] | [ ] | Check the associated blank data for potential interferences to evaluate sample data for false positives. |
| d. | [X] | [ ] | Check the calibration data for adequate retention time windows to evaluate the sample data for false positives and false negatives. |

2. *Evaluate Multi-Component Analyte Results.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Compare the retention times and relative peak height ratios of major multi-component analyte peaks against appropriate standard chromatograms. |

3. *Verify GC/MS Confirmations if Applicable.*

| YES | NO | N/A | |
|---|---|---|---|
| [X] | [ ] | [ ] | Check that GC/MS confirmation was performed for pesticide concentrations in the final sample extract which exceeded 10 ng/ul. |

Comments:

NONE

## XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check raw data to verify calculation of sample results. |

2. ***Evaluate Quantitation Parameters.***

| YES | NO | N/A | |
|---|---|---|---|
| [ ] | [ ] | [X] | For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process. |

3. ***Evaluate CRQLs.***

| YES | NO | |
|---|---|---|
| [X] | [ ] | Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors. |

Comments:

none

## XV. Overall Assessment of Data

*Evaluate the Overall Quality of the Data.*

| YES | NO | |
|---|---|---|
| [X] | [ ] | Evaluate any technical problems which have not been previously addressed. |
| [X] | [ ] | Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems. |
| [X] | [ ] | If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data. |

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Data are valid as qualified on the Forms!

Case : Gibraltar 470640 VOA SV (PEST)

Water sample surrogate %R

Sample # (and column # for PEST) : G101 (DB608)
Surrogate : TCX
Concentration added (ug/L) : 0.2
Calculated %R : 80%
Reported %R : 80%

$\frac{(41169)(10000)(1)}{(2560000)(1000)(1)} = 0.1608$

$\frac{0.1608}{0.2} \times 100 = 80.4$

Comment : OK

Soil sample surrogate %R

Sample # (and column # for PEST) : X101 (DB170.1)
Surrogate : DCB
Concentration added (ug/Kg) : 15.76
Calculated %R : 102
Reported %R : 102

$\frac{(99229)(5000)(1)(2)}{(2440000)(1)(30.2)(0.84)} = 16.03$

$\frac{0.4}{(30.2)(.84)} \times 1000 = 15.76$

$\frac{16.03}{15.76} \times 100 = 101.7\%$

Comment : OK

Water sample MS/MSD

Sample # (and column # for PEST) : G102 MS (DB608)
Compound : Heptachlor
Calculated concentration (ug/L) : 0.438
Reported concentration : 0.438
%R calculated correctly? yes

$\frac{(117494)(10000)(1)}{(2690000)(1000)(1)} = 0.438$

$\frac{0.438}{0.500} \times 100 = 87.6$

Comment :

Soil sample MS/MSD

Sample # (and column # for PEST) : X101 MS (DB608)
Compound : Aldrin
Calculated concentration (ug/Kg) : 18.9
Reported concentration : 18.9
%R calculated correctly? OK

$\frac{(102876)(5000)(1)(2)}{(2140000)(1)(30.2)(.84)} = 18.9$

$\frac{18.9}{19.7} \times 100 = 95.9$

Comment :

SDG NARRATIVE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Springfield Organics Laboratory
825 N. Rutledge
Springfield, Illinois 62702
217-782-9780

Case: Gibraltar

| Sample Identification | IEPA Sample Number | pH |
|---|---|---|
| G101 | D470649 | 3.0 |
| G102 | D470650 | 3.0 |
| G103 | D470648 | 3.0 |
| S101 | D470640 | 3.5 |
| S102 | D470641 | 3.5 |
| S103 | D470642 | 3.5 |
| VBLKTB | D470651 | 3.0 |
| X101 | D470652 | |
| X101RE (2) | D470652 | |
| X102 | D470653 | |
| X102DL (3) | D470653D | |
| X103 | D470654 | |
| X103DL | D470645D | |
| X104 | D470655 | |
| X104DL (2,3) | D470655 | |
| X105 | D470656 | |
| X105DL | 470656DD | |
| X105RE (1) | D470656RE | |
| X106 | D470657 | |
| X106DL (3) | 470657DD | |
| X201 | D470643 | |
| X201RE (2) | D470643 | |
| X201RE (1) | D470643RE | |
| X202 | D470644 | |
| X202RE (2) | D470644 | |
| X203 | D470645 | |
| X203RE (2) | D470645 | |
| X204 | D470646 | |
| X205 | D470647 | |
| X205RE (1) | D470647RE | |
| VBLKW | 111894BLK | |
| VBLKSL1 | 111894BLK | |
| VBLKSL2 | 112194BLK | |
| SBLKW1 | D470842 | |
| SBLKW2 | D470939 | |
| SBLKSL | D470725 | |
| GPCBLK | GPCBLANK | |
| PBLKW1 | D470909 | |
| PBLKS1 | D470781 | |
| G101MS (1) | D470649MS | |
| G101MSD(1) | D470649MSD | |
| X202MS (1) | D470644MS | |
| X202MSD(1) | D470644MSD | |
| S101MS (2) | D470841 | |

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| | |
|---|---|
| S101MSD(2) | D470841R |
| X101MS (2) | D470724 |
| X101MSD(2) | D470724R |
| G102MS (3) | D470908 |
| G102MSD(3) | D470908R |
| X101MS (3) | D470780 |
| X101MSD(3) | D470780R |

(1) Volatile sample
(2) Semivolatile sample
(3) Pesticide sample

VOLATILE FRACTION

The spectral disagreement for the following compounds is more than the 20% allowed when compared with the standard spectrum :

X101
Methylene chloride is low level.

X103
Methylene chloride is low level.

X105RE
Methylene chloride is low level.

X201RE
Acetone coelutes with a TIC.

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X202
There is a spurious peak in the standard spectrum for acetone.
Methylene chloride is low level.

X204
Acetone is low level.
Methylene chloride coelutes with a TIC.

SEMIVOLATILE FRACTION

SBLKW1
TIC #7 should read CYCLOHEXANE, 1,4-DICHLORO,TRANS-. There is insufficient room on the form for the name.

G102
TIC #6 should read CYCLOHEXANE, 1,4-DICHLORO,TRANS-. There is insufficient room on the form for the name.

S101
TIC #8 should read ETHANOL, 2-[2-(BUTOXYETHOXY)ETHOXY. There is insufficient room on the form for the name.

X201
TIC #12 should read CYCLOHEXANE, 1,4-DICHLORO,TRANS-. There is insufficient room on the form for the name.

X104
The laboratory was unable to print the spectral comparison between the sample spectrum and the reference spectrum from the standard run for some target compounds in this run. The spectra provided compare the sample spectra to an IEPA generated library spectrum.

The spectral disagreement for the following compounds is more than the 20% allowed when compared with the standard spectrum :

S102
Diethylphthalate coelutes with a TIC.

S103
Phenol coelutes with a surrogate.
4-Methylphenol coelutes with a TIC.

X102
Benzo(a)anthracene coelutes with a TIC.
Bis(2-ethylhexyl)phthalate coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

X104
Dibenzofuran coelutes with a TIC.
Fluorene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(k)fluoranthene coelutes with a TIC.
Indeno(1,2,3-cd)pyrene coelutes with a TIC.
Benzo(ghi)perylene coelutes with a TIC.

X104DL
Dibenzofuran coelutes with a TIC.

X105
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

X106
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

X202
Benzo(a)anthracene coelutes with a TIC.
Chrysene coelutes with a TIC.
Bis(2-ethylhexyl)phthalate coelutes with a TIC.

X202RE
Chrysene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.

X203
Benzo(b)fluoranthene coelutes with a TIC.

STICIDE FRACTION

Soil sample X103 was spiked with twice the required amount of surrogate.

The matrix of PCB containing soil samples adversely affected the RPD of endrin aldehyde and methoxychlor in the associated INDAM03 and INDBM03

on the DB-1701 column. Every soil sample in this set contains PCBs, some high enough to require a 1:100 dilution. The matrix of these PCB containing samples affects the instrument such that the RPD of endrin aldehyde and methoxychlor is increased in the following INDA/BM. The samples related INDA/BM03 and INDA/BM04 were not reanalyzed. On the DB-608 primary column, peaks of 1260 elute in the endrin aldehyde and methoxychlor windows, and a peak of 1254 would erroneously indicate endrin aldehyde if there was a peak in those windows on the DB-1701 confirmation column. There is an automatic confirmation, even though the primary analysis would be misleading, and so the confirmation is not reliable. In addition, the difference in quantitation between the primary and confirmation columns for endrin aldehyde and methoxychlor was greater than 25% in every instance. Ron Turpin was contacted when the problem occurred in this set. He said that submitting the data with the continuing calibration would be acceptable, as this has been the precedent when a similar problem occurred with Sauget and U.S. Drum.

On Form 8, a few samples do not show a retention time for DCB. The surrogate has either been diluted out or is obscured by the matrix. The matrix had similar effects on surrogate recoveries as reported on Form 2.

Celeste Crowley — 12/28/94
Celeste Crowley — Date
Pesticide Supervisor

Amy Germann — 12/28/94
Amy Germann — Date
GC/MS Supervisor

John Hurley — 12/28/94
John Hurley — Date
Laboratory Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

.b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470649

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 | UJ |
| 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 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101

.b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470649

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470649

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 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-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 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 | UJR |
| 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 | UJ |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470649

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

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

| CAS NO. | COMPOUND | | 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 | |
| 100-10-6 | 4-Nitroaniline | 25 | UJ | CS |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U | |
| 118-74-1 | Hexachlorobenzene | 10 | UJ | CS |
| 87-86-5 | Pentachlorophenol | 25 | UJ | CS |
| 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 | UJ | CS |
| 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-Octyl Phthalate | 10 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U | |
| 50-32-8 | Benzo(a)Pyrene | 10 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | UJ | CS |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470649

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

Number TICs found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 9.63 | 44 | BJ |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.38 | 13 | BJ |
| 3. 2441-97-6 | CYCLOHEXENE, 3-CHLORO- | 10.92 | 4 | ~~JNB~~ U |
| 4. | UNKNOWN | 11.83 | 33 | BJ |
| 5. | UNKNOWN | 13.65 | 3 | BJ |
| 6. | UNKNOWN | 16.07 | 110 | BJ |
| 7. | UNKNOWN | 16.15 | 19 | BJ |
| 8. | UNKNOWN | 24.18 | 4 | BJ |
| 9. 791-28-6 | PHOSPHINE OXIDE, TRIPHENYL- | 34.50 | 6 | JN |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470649

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.4 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 |
| 50-29-3 | 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 |
| 7421-36-3 | 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 ~~0.066~~ | ~~BJP~~ U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470650

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC06

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 | 10 | U J |
| 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 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 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 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470650

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC06

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470650

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

| 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-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 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 | UR |
| 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 | UJ |
| 83-32-9 | Acenaphthene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470650

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

| 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 | |
| 100-10-6 | 4-Nitroaniline | 25 | UJ | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U | |
| 118-74-1 | Hexachlorobenzene | 10 | UJ | CB |
| 87-86-5 | Pentachlorophenol | 25 | UJ | CB |
| 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 | UJ | CB |
| 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-Octyl Phthalate | 10 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U | |
| 50-32-8 | Benzo(a)Pyrene | 10 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | UJ | CB |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470650

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

Number TICs found: 8

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 9.63 | 52 | BJ |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.38 | 15 | BJ |
| 3. 2441-97-6 | CYCLOHEXENE, 3-CHLORO- | 10.88 | 11 | ~~BJ~~ U |
| 4. | UNKNOWN ALIP. KETONE | 11.45 | 6 | AJ |
| 5. | UNKNOWN | 11.83 | 9 | BJ |
| 6. 16890-91-8 | CYCLOHEXANE, 1,4-DICHLORO-, | 14.53 | 4 | JN |
| 7. | UNKNOWN | 16.03 | 76 | BJ |
| 8. | UNKNOWN | 16.13 | 7 | BJ |

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470650

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.4 Sulfur Cleanup: (Y/N) N

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 |
| 50-29-3 | 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 |
| 7421-36-3 | 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 ~~0.047~~ | ~~BJ~~ U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470648

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 | UJ |
| 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 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 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 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470648

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

.b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470648

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.5

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 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-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 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 | UR |
| 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 | UJ |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

.b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470648

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.5

| 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 | |
| 100-10-6 | 4-Nitroaniline | 25 | UJ | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U | |
| 118-74-1 | Hexachlorobenzene | 10 | UJ | CB |
| 87-86-5 | Pentachlorophenol | 25 | UJ | CB |
| 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 | UJ | CB |
| 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-Octyl Phthalate | 10 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U | |
| 50-32-8 | Benzo(a)Pyrene | 10 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | UJ | CB |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470648

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.5

Number TICs found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 9.63 | 39 | BJ |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.38 | 11 | BJ |
| 3. 2441-97-6 | CYCLOHEXENE, 3-CHLORO- | 10.90 | 6 | ~~JNB~~ U |
| 4. | UNKNOWN | 11.83 | 18 | BJ |
| 5. | UNKNOWN | 13.63 | 2 | BJ |
| 6. | UNKNOWN | 16.05 | 110 | BJ |
| 7. | UNKNOWN | 16.15 | 18 | BJ |
| 8. 1541-20-4 | BI-2-CYCLOHEXEN-1-YL | 19.43 | 10 | ~~JNB~~ U |
| 9. | UNKNOWN | 24.17 | 3 | BJ |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470648

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.5 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 |
| 50-29-3 | 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 |
| 7421-36-3 | 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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470640

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 | 11 | | |
| 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 | UJ | es |
| 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 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U | |
| 108-88-3 | Toluene | 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 | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470640

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470640

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1118E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/19/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.2

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

| CAS NO. | COMPOUND | | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 5 | 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-Nitroso-Di-n-Propylamine | 10 | U | |
| 67-72-1 | Hexachloroethane | 10 | U | |
| 98-95-3 | Nitrobenzene | 10 | U | |
| 78-59-1 | Isophorone | 10 | U | |
| 88-75-5 | 2-Nitrophenol | 10 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U | |
| 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 | UR | CB |
| 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 | UJ | CB |
| 83-32-9 | Acenaphthene | 10 | U | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470640

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1118E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/19/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.2

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

| CAS NO. | COMPOUND | | 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 ~~4~~ | ~~BJ~~ U | CB |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U | |
| 86-73-7 | Fluorene | 10 | U | |
| 100-10-6 | 4-Nitroaniline | 25 | UR | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U | |
| 118-74-1 | Hexachlorobenzene | 10 | U | |
| 87-86-5 | Pentachlorophenol | 25 | UJ | CB |
| 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-Octyl Phthalate | 10 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U | |
| 50-32-8 | Benzo(a)Pyrene | 10 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | UJ | CB |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U | |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | UJ | CB |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470640

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1118E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/19/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.2

Number TICs found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 10.65 | 2 | J |
| 2. | UNKNOWN | 11.82 | 5 | BJ |
| 3. | UNKNOWN ALIP. ACID | 15.45 | 16 | J |
| 4. | UNKNOWN | 16.03 | 14 | BJ |
| 5. | UNKNOWN ALIP. PHENOL | 17.37 | 4 | J |
| 6. | UNKNOWN ALIP. PHENOL | 18.57 | 13 | J |
| 7. | UNKNOWN ALIP. PHENOL | 20.37 | 5 | J |
| 8. 143-22-6 | ETHANOL, 2-[2-(2-BUTOXYETHOX | 21.32 | 4 | JN |
| 9. | UNKNOWN | 27.60 | 3 | J |
| 10. | UNKNOWN ALIP. ACID | 27.78 | 8 | J |
| 11. | UNKNOWN | 34.50 | 3 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470640

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 9.2 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 |
| 50-29-3 | 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 |
| 7421-36-3 | 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 | 0.23 | J |
| 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 | 0.14 | JP |
| 11096-82-5 | Aroclor-1260 | 1.6 ~~0.11~~ | ~~BJ~~ U CB |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470641

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 | 33 | |
| 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 | UJ |
| 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 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470641

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470641

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.2

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

| CAS NO. | COMPOUND | | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 10 | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U | |
| 95-57-8 | 2-Chlorophenol | 10 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | |
| 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 | 9 | J | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U | |
| 67-72-1 | Hexachloroethane | 10 | U | |
| 98-95-3 | Nitrobenzene | 10 | U | |
| 78-59-1 | Isophorone | 10 | U | |
| 88-75-5 | 2-Nitrophenol | 10 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 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 | UR | CS |
| 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 | UJ | CS |
| 83-32-9 | Acenaphthene | 10 | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470641

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.2

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

| CAS NO. | COMPOUND | | 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 | ~~BJ~~U | CB |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U | |
| 86-73-7 | Fluorene | 10 | U | |
| 100-10-6 | 4-Nitroaniline | 25 | UJ | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U | |
| 118-74-1 | Hexachlorobenzene | 10 | UJ | CB |
| 87-86-5 | Pentachlorophenol | 25 | UJ | CB |
| 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 | UJ | CB |
| 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-Octyl Phthalate | 10 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U | |
| 50-32-8 | Benzo(a)Pyrene | 10 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | UJ | CB |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470641

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/17/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.2

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN ALIP. ACID | 10.68 | 67 | J |
| 2. | UNKNOWN | 10.82 | 28 | J |
| 3. | UNKNOWN | 11.83 | 3 | BJ |
| 4. | UNKNOWN | 13.65 | 3 | J |
| 5. | UNKNOWN | 13.73 | 4 | J |
| 6. | UNKNOWN ALIP. ALCOHOL | 14.33 | 40 | J |
| 7. 60-12-8 | BENZENEETHANOL | 15.38 | 8 | JN |
| 8. | UNKNOWN ALIP. ACID | 15.53 | 41 | J |
| 9. | UNKNOWN | 16.03 | 8 | BJ |
| 10. | UNKNOWN ALIP. ACID | 16.30 | 26 | J |
| 11. | UNKNOWN ALIP. PHENOL | 17.38 | 4 | J |
| 12. | UNKNOWN ALIP. ACID | 17.73 | 7 | J |
| 13. | UNKNOWN ALIP. PHENOL | 18.57 | 15 | J |
| 14. | UNKNOWN ALIP. ACID | 19.23 | 14 | J |
| 15. | UNKNOWN ALIP. PHENOL | 20.37 | 6 | J |
| 16. | UNKNOWN ALIP. PHENOL | 20.83 | 5 | J |
| 17. | UNKNOWN | 20.95 | 3 | J |
| 18. | UNKNOWN ALIP. ACID | 25.30 | 13 | J |
| 19. | UNKNOWN | 27.62 | 7 | J |
| 20. | UNKNOWN ALIP. ACID | 27.80 | 33 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470641

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 9.2 Sulfur Cleanup: (Y/N) N

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 | 0.0041 | JP |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 50-29-3 | 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 |
| 7421-36-3 | 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 | 0.13 | J |
| 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 | 0.10 | JP |
| 11096-82-5 | Aroclor-1260 | 1.0 ~~0.066~~ | ~~BJ~~ U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470642

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 | 17 | |
| 75-15-0 | Carbon Disulfide | 97 | |
| 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 | 9 | J |
| 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 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470642

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470642

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.5

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 3 | J |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 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 | 3 | J |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 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 | UR |
| 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 | UJ |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470642

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.5

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

| CAS NO. | COMPOUND | | 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 | |
| 100-10-6 | 4-Nitroaniline | 25 | UJ | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U | |
| 118-74-1 | Hexachlorobenzene | 10 | UJ | CB |
| 87-86-5 | Pentachlorophenol | 25 | UJ | CB |
| 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 | UJ | CB |
| 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-Octyl Phthalate | 10 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 10 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 10 | U | |
| 50-32-8 | Benzo(a)Pyrene | 10 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 10 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | UJ | CB |
| 191-24-2 | Benzo(g,h,i)Perylene | 10 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470642

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B1129E07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 11/21/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 9.5

Number TICs found: 12

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN ALIP. ALCOHOL | 10.38 | 12 | BJ |
| 2. | UNKNOWN | 10.82 | 32 | J |
| 3. | UNKNOWN | 11.83 | 20 | BJ |
| 4. | UNKNOWN ALIP. ALCOHOL | 14.33 | 37 | J |
| 5. 60-12-8 | BENZENEETHANOL | 15.38 | 6 | JN |
| 6. | UNKNOWN | 16.03 | 34 | BJ |
| 7. | UNKNOWN | 16.13 | 4 | J |
| 8. | UNKNOWN ALIP. PHENOL | 18.57 | 15 | J |
| 9. | UNKNOWN ALIP. PHENOL | 20.37 | 6 | J |
| 10. | UNKNOWN ALIP. PHENOL | 20.83 | 4 | J |
| 11. | UNKNOWN ALIP. PHENOL | 20.95 | 4 | J |
| 12. | UNKNOWN ALIP. PHENOL | 26.97 | 3 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470642

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 9.5 Sulfur Cleanup: (Y/N) N

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 |
| 50-29-3 | 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 |
| 7421-36-3 | 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 | 0.13 | J |
| 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 | 0.18 | JP |
| 11096-82-5 | Aroclor-1260 | 1.0 ~~0.072~~ | ~~BJR~~ U CR |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470651

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 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 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) WATER Lab Sample ID: D470651

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B1118LC04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. ____ Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK15

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 16 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 75-09-2 | Methylene Chloride | 3 | J |
| 67-64-1 | Acetone | 12 | U |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 12 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U |
| 67-66-3 | Chloroform | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5 | Carbon Tetrachloride | 12 | U |
| 75-27-4 | Bromodichloromethane | 12 | U |
| 78-87-5 | 1,2-Dichloropropane | 12 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U |
| 79-01-6 | Trichloroethene | 12 | U |
| 124-48-1 | Dibromochloromethane | 12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U |
| 71-43-2 | Benzene | 12 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 75-25-2 | Bromoform | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 127-18-4 | Tetrachloroethene | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U |
| 108-88-3 | Toluene | 12 | U |
| 108-90-7 | Chlorobenzene | 12 | U |
| 100-41-4 | Ethylbenzene | 12 | U |
| 100-42-5 | Styrene | 12 | U |
| 1330-20-7 | Xylene (total) | 12 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK15

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 16 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 390 | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 390 | U | |
| 95-57-8 | 2-Chlorophenol | 390 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 390 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 390 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 390 | U | |
| 95-48-7 | 2-Methylphenol | 390 | U | |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 390 | U | |
| 106-44-5 | 4-Methylphenol | 390 | U | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 390 | U | |
| 67-72-1 | Hexachloroethane | 390 | U | |
| 98-95-3 | Nitrobenzene | 390 | U | |
| 78-59-1 | Isophorone | 390 | U | |
| 88-75-5 | 2-Nitrophenol | 390 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 390 | U | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 390 | U | |
| 120-83-2 | 2,4-Dichlorophenol | 390 | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 390 | U | |
| 91-20-3 | Naphthalene | 390 | U | |
| 106-47-8 | 4-Chloroaniline | 390 | U R | CS |
| 87-68-3 | Hexachlorobutadiene | 390 | U | |
| 59-50-7 | 4-Chloro-3-Methylphenol | 390 | U | |
| 91-57-6 | 2-Methylnaphthalene | 390 | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 390 | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 950 | U | |
| 91-58-7 | 2-Chloronaphthalene | 390 | U | |
| 88-74-4 | 2-Nitroaniline | 950 | U | |
| 131-11-3 | Dimethylphthalate | 390 | U | |
| 208-96-8 | Acenaphthylene | 390 | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 390 | U | |
| 99-09-2 | 3-Nitroaniline | 950 | ~~U~~ J | CS |
| 83-32-9 | Acenaphthene | 390 | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 950 | U |
| 100-02-7 | 4-Nitrophenol | 950 | U |
| 132-64-9 | Dibenzofuran | 390 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 390 | U |
| 84-66-2 | Diethylphthalate | 390 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 390 | U |
| 86-73-7 | Fluorene | 390 | U |
| 100-10-6 | 4-Nitroaniline | 950 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 950 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 390 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 390 | U |
| 118-74-1 | Hexachlorobenzene | 390 | U |
| 87-86-5 | Pentachlorophenol | 950 | U |
| 85-01-8 | Phenanthrene | 390 | U |
| 120-12-7 | Anthracene | 390 | U |
| 86-74-8 | Carbazole | 390 | U |
| 84-74-2 | Di-n-Butylphthalate | 500 | ~~B~~ U |
| 206-44-0 | Fluoranthene | 390 | U |
| 129-00-0 | Pyrene | 390 | U |
| 85-68-7 | Butylbenzylphthalate | 390 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 390 | U |
| 56-55-3 | Benzo(a)Anthracene | 390 | U |
| 218-01-9 | Chrysene | 390 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 390 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 390 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 390 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 390 | U |
| 50-32-8 | Benzo(a)Pyrene | 390 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 390 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 390 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 390 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.62 | 48000 | ~~JNBAU~~ CS |
| 2. | UNKNOWN | 11.05 | 2500 | BJ |
| 3. 3377-86-4 | HEXANE, 2-BROMO- | 11.37 | 2200 | JN |
| 4. | UNKNOWN ALIP. KETONE | 11.73 | 2100 | BAJ |
| 5. | UNKNOWN ALIP. KETONE | 11.95 | 510 | BAJ |
| 6. | UNKNOWN | 12.72 | 3500 | J |
| 7. | UNKNOWN | 13.63 | 140 | J |
| 8. | UNKNOWN | 14.05 | 8000 | J |
| 9. | UNKNOWN | 16.73 | 460 | J |
| 10. | UNKNOWN | 17.72 | 230 | J |
| 11. | UNKNOWN ALIP. ACID | 23.28 | 97 | J |
| 12. | UNKNOWN | 27.70 | 210 | J |
| 13. | UNKNOWN ALIP. ACID | 27.75 | 380 | BJ |
| 14. | UNKNOWN | 33.43 | 460 | BJ |
| 15. | UNKNOWN ALIP. HYDROCARBON | 35.57 | 280 | J |
| 16. | UNKNOWN | 37.57 | 720 | BJ |
| 17. | UNKNOWN ALIP. HYDROCARBON | 38.45 | 710 | J |
| 18. | UNKNOWN | 38.57 | 230 | J |
| 19. | UNKNOWN ALIP. HYDROCARBON | 42.55 | 870 | J |
| 20. | UNKNOWN | 48.20 | 320 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101RE

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 390 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 390 | U |
| 95-57-8 | 2-Chlorophenol | 390 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 390 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 390 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 390 | U |
| 95-48-7 | 2-Methylphenol | 390 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 390 | U |
| 106-44-5 | 4-Methylphenol | 390 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 390 | U |
| 67-72-1 | Hexachloroethane | 390 | U |
| 98-95-3 | Nitrobenzene | 390 | U |
| 78-59-1 | Isophorone | 390 | U |
| 88-75-5 | 2-Nitrophenol | 390 | U |
| 105-67-9 | 2,4-Dimethylphenol | 390 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 390 | U |
| 120-83-2 | 2,4-Dichlorophenol | 390 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 390 | U |
| 91-20-3 | Naphthalene | 390 | U |
| 106-47-8 | 4-Chloroaniline | 390 | UJ |
| 87-68-3 | Hexachlorobutadiene | 390 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 390 | U |
| 91-57-6 | 2-Methylnaphthalene | 390 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 390 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 950 | U |
| 91-58-7 | 2-Chloronaphthalene | 390 | U |
| 88-74-4 | 2-Nitroaniline | 950 | U |
| 131-11-3 | Dimethylphthalate | 390 | U |
| 208-96-8 | Acenaphthylene | 390 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 390 | U |
| 99-09-2 | 3-Nitroaniline | 950 | U |
| 83-32-9 | Acenaphthene | 390 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 950 | U |
| 100-02-7 | 4-Nitrophenol | 950 | U |
| 132-64-9 | Dibenzofuran | 390 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 390 | U |
| 84-66-2 | Diethylphthalate | 390 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 390 | U |
| 86-73-7 | Fluorene | 390 | U |
| 100-10-6 | 4-Nitroaniline | 950 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 950 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 390 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 390 | U |
| 118-74-1 | Hexachlorobenzene | 390 | U |
| 87-86-5 | Pentachlorophenol | 950 | UJ |
| 85-01-8 | Phenanthrene | 390 | U |
| 120-12-7 | Anthracene | 390 | U |
| 86-74-8 | Carbazole | 390 | U |
| 84-74-2 | Di-n-Butylphthalate | 490 | ~~B~~U |
| 206-44-0 | Fluoranthene | 390 | U |
| 129-00-0 | Pyrene | 390 | U |
| 85-68-7 | Butylbenzylphthalate | 390 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 390 | U |
| 56-55-3 | Benzo(a)Anthracene | 390 | U |
| 218-01-9 | Chrysene | 390 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 390 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 390 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 390 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 390 | U |
| 50-32-8 | Benzo(a)Pyrene | 390 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 390 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 390 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 390 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 24

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.65 | 56000 | ~~JNBAU~~ |
| 2. | UNKNOWN | 10.92 | 130 | BJ |
| 3. | UNKNOWN | 11.08 | 2500 | BJ |
| 4. 3377-86-4 | HEXANE, 2-BROMO- | 11.38 | 2300 | JN |
| 5. | UNKNOWN ALIP. KETONE | 11.77 | 2400 | BAJ |
| 6. | UNKNOWN ALIP. KETONE | 11.97 | 590 | BAJ |
| 7. | UNKNOWN | 12.73 | 3600 | J |
| 8. | UNKNOWN | 13.07 | 240 | J |
| 9. | UNKNOWN | 13.63 | 140 | J |
| 10. | UNKNOWN | 14.08 | 7500 | J |
| 11. | UNKNOWN | 16.33 | 140 | J |
| 12. | UNKNOWN | 16.75 | 380 | J |
| 13. | UNKNOWN | 17.73 | 220 | J |
| 14. | UNKNOWN ALIP. ACID | 23.28 | 100 | J |
| 15. | UNKNOWN | 27.68 | 170 | J |
| 16. | UNKNOWN ALIP. ACID | 27.77 | 710 | BJ |
| 17. | UNKNOWN | 33.45 | 470 | BJ |
| 18. | UNKNOWN ALIP. HYDROCARBON | 35.57 | 260 | J |
| 19. | UNKNOWN | 37.57 | 690 | BJ |
| 20. | UNKNOWN ALIP. HYDROCARBON | 38.45 | 920 | J |
| 21. | UNKNOWN | 38.58 | 310 | J |
| 22. | UNKNOWN ALIP. HYDROCARBON | 42.55 | 1100 | J |
| 23. | UNKNOWN | 42.82 | 110 | J |
| 24. | UNKNOWN | 51.52 | 430 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470652

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.0 | U |
| 319-85-7 | beta-BHC | 2.0 | U |
| 319-86-8 | delta-BHC | 2.0 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U |
| 76-44-8 | Heptachlor | 2.0 | U |
| 309-00-2 | Aldrin | 2.0 | U |
| 1024-57-3 | Heptachlor epoxide | 2.0 | U |
| 959-98-8 | Endosulfan I | 2.0 | U |
| 60-57-1 | Dieldrin | 0.37 | JP |
| 72-55-9 | 4,4'-DDE | 3.9 | U |
| 72-20-8 | Endrin | 3.9 | U |
| 33213-65-9 | Endosulfan II | 3.9 | U |
| 50-29-3 | 4,4'-DDD | 3.9 | U |
| 1031-07-8 | Endosulfan sulfate | 0.17 | JP |
| 50-29-3 | 4,4'-DDT | 0.41 | JP |
| 72-43-5 | Methoxychlor | 19.5 ~~0.26~~ | ~~BJP~~ UJ |
| 53494-70-5 | Endrin ketone | 3.9 | U |
| 7421-36-3 | Endrin aldehyde | 3.9 | UJ |
| 5103-71-9 | alpha-Chlordane | 2.0 | U |
| 5103-74-2 | gamma-Chlordane | 0.14 | JP |
| 8001-35-2 | Toxaphene | 200 | U |
| 12674-11-2 | Aroclor-1016 | 39 | U |
| 11104-28-2 | Aroclor-1221 | 79 | U |
| 11141-16-5 | Aroclor-1232 | 39 | U |
| 53469-21-9 | Aroclor-1242 | 39 | U |
| 12672-29-6 | Aroclor-1248 | 39 | U |
| 11097-69-1 | Aroclor-1254 | 18 | JP |
| 11096-82-5 | Aroclor-1260 | 39 ~~16~~ | ~~BJ~~ U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ıb Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 19 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | UJ | CB |
| 74-83-9 | Bromomethane | 12 | U | |
| 75-01-4 | Vinyl Chloride | 12 | U | |
| 75-00-3 | Chloroethane | 12 | UJ | CB |
| 75-09-2 | Methylene Chloride | 77 | ~~B~~ | CB |
| 67-64-1 | Acetone | 12 | U | |
| 75-15-0 | Carbon Disulfide | 12 | U | |
| 75-35-4 | 1,1-Dichloroethene | 12 | U | |
| 75-34-3 | 1,1-Dichloroethane | 12 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U | |
| 67-66-3 | Chloroform | 12 | U | |
| 107-06-2 | 1,2-Dichloroethane | 12 | U | |
| 78-93-3 | 2-Butanone | 12 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 17 | | |
| 56-23-5 | Carbon Tetrachloride | 12 | U | |
| 75-27-4 | Bromodichloromethane | 12 | U | |
| 78-87-5 | 1,2-Dichloropropane | 12 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U | |
| 79-01-6 | Trichloroethene | 12 | U | |
| 124-48-1 | Dibromochloromethane | 12 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U | |
| 71-43-2 | Benzene | 12 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U | |
| 75-25-2 | Bromoform | 12 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U | |
| 591-78-6 | 2-Hexanone | 12 | UJ | CB |
| 127-18-4 | Tetrachloroethene | 12 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U | |
| 108-88-3 | Toluene | 20 | | |
| 108-90-7 | Chlorobenzene | 12 | U | |
| 100-41-4 | Ethylbenzene | 12 | U | |
| 100-42-5 | Styrene | 12 | U | |
| 1330-20-7 | Xylene (total) | 8 | J | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 19 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 400 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 400 | U |
| 95-57-8 | 2-Chlorophenol | 400 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 400 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 400 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 400 | U |
| 95-48-7 | 2-Methylphenol | 400 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 400 | U |
| 106-44-5 | 4-Methylphenol | 400 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 400 | U |
| 67-72-1 | Hexachloroethane | 400 | U |
| 98-95-3 | Nitrobenzene | 400 | U |
| 78-59-1 | Isophorone | 400 | U |
| 88-75-5 | 2-Nitrophenol | 400 | U |
| 105-67-9 | 2,4-Dimethylphenol | 400 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 400 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400 | U |
| 91-20-3 | Naphthalene | 400 | U |
| 106-47-8 | 4-Chloroaniline | 400 | UJ CB |
| 87-68-3 | Hexachlorobutadiene | 400 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | 120 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 980 | U |
| 91-58-7 | 2-Chloronaphthalene | 400 | U |
| 88-74-4 | 2-Nitroaniline | 980 | U |
| 131-11-3 | Dimethylphthalate | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 400 | U |
| 99-09-2 | 3-Nitroaniline | 980 | U |
| 83-32-9 | Acenaphthene | 400 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 980 | U | |
| 100-02-7 | 4-Nitrophenol | 980 | U | |
| 132-64-9 | Dibenzofuran | 400 | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 400 | U | |
| 84-66-2 | Diethylphthalate | 400 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 400 | U | |
| 86-73-7 | Fluorene | 400 | U | |
| 100-10-6 | 4-Nitroaniline | 980 | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 980 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 400 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 400 | U | |
| 118-74-1 | Hexachlorobenzene | 400 | U | |
| 87-86-5 | Pentachlorophenol | 980 | UJ | |
| 85-01-8 | Phenanthrene | 490 | | |
| 120-12-7 | Anthracene | 400 | U | |
| 86-74-8 | Carbazole | 400 | U | |
| 84-74-2 | Di-n-Butylphthalate | 420 | ~~B~~ U | |
| 206-44-0 | Fluoranthene | 360 | J | |
| 129-00-0 | Pyrene | 250 | J | |
| 85-68-7 | Butylbenzylphthalate | 290 | J | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 400 | U | |
| 56-55-3 | Benzo(a)Anthracene | 180 | J | |
| 218-01-9 | Chrysene | 220 | J | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 120 | J | |
| 117-84-0 | Di-n-Octyl Phthalate | 400 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 150 | J | |
| 207-08-9 | Benzo(k)Fluoranthene | 400 | U | |
| 50-32-8 | Benzo(a)Pyrene | 140 | J | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 400 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 400 | U | |
| 191-24-2 | Benzo(g,h,i)Perylene | 400 | U | |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 24

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.65 | 58000 | ~~JNBAU~~ |
| 2. | UNKNOWN | 11.07 | 2800 | BJ |
| 3. 3377-86-4 | HEXANE, 2-BROMO- | 11.38 | 4400 | JN |
| 4. | UNKNOWN ALIP. KETONE | 11.73 | 1800 | BAJ |
| 5. | UNKNOWN | 12.73 | 5100 | J |
| 6. | UNKNOWN | 14.05 | 6900 | J |
| 7. | UNKNOWN ALIP. HYDROCARBON | 24.62 | 1300 | J |
| 8. | UNKNOWN ALIP. ACID | 27.77 | 610 | BJ |
| 9. | UNKNOWN | 31.47 | 280 | J |
| 10. | UNKNOWN PCB | 31.65 | 140 | J |
| 11. | UNKNOWN PNA | 31.78 | 83 | J |
| 12. | UNKNOWN PCB | 32.28 | 100 | J |
| 13. | UNKNOWN ALIP. HYDROCARBON | 32.48 | 250 | J |
| 14. | UNKNOWN PCB | 32.80 | 140 | J |
| 15. | UNKNOWN | 33.43 | 810 | J |
| 16. | UNKNOWN | 33.52 | 120 | J |
| 17. | UNKNOWN ALIP. HYDROCARBON | 34.43 | 320 | J |
| 18. | UNKNOWN | 34.67 | 200 | J |
| 19. | UNKNOWN | 34.78 | 240 | J |
| 20. | UNKNOWN ALIP. HYDROCARBON | 35.58 | 500 | J |
| 21. | UNKNOWN ALIP. HYDROCARBON | 36.90 | 310 | J |
| 22. | UNKNOWN | 37.57 | 150 | BJ |
| 23. | UNKNOWN ALIP. HYDROCARBON | 38.47 | 1500 | J |
| 24. | UNKNOWN ALIP. HYDROCARBON | 42.58 | 1900 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.48 | JP |
| 319-85-7 | beta-BHC | 2.5 | P |
| 319-86-8 | delta-BHC | 2.1 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U |
| 76-44-8 | Heptachlor | 2.1 | U |
| 309-00-2 | Aldrin | 2.1 | U |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U |
| 959-98-8 | Endosulfan I | 2.1 | U |
| 60-57-1 | Dieldrin | 25 | P |
| 72-55-9 | 4,4'-DDE | 4.0 | U |
| 72-20-8 | Endrin | 4.0 | U |
| 33213-65-9 | Endosulfan II | 4.0 | U |
| 50-29-3 | 4,4'-DDD | 4.0 | U |
| 1031-07-8 | Endosulfan sulfate | 4.6 | P |
| 50-29-3 | 4,4'-DDT | 4.0 | U |
| 72-43-5 | Methoxychlor | 21 | UJ |
| 53494-70-5 | Endrin ketone | 5.6 | P |
| 7421-36-3 | Endrin aldehyde | 14 | P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U |
| 5103-74-2 | gamma-Chlordane | 8.7 | P |
| 8001-35-2 | Toxaphene | 210 | U |
| 12674-11-2 | Aroclor-1016 | 820 | |
| 11104-28-2 | Aroclor-1221 | 81 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 1200 | |
| 11096-82-5 | Aroclor-1260 | 560 | B |

CB

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470653D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 21 | U | |
| 319-85-7 | beta-BHC | 1.9 | JPD | |
| 319-86-8 | delta-BHC | 21 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U | |
| 76-44-8 | Heptachlor | 21 | U | |
| 309-00-2 | Aldrin | 21 | U | |
| 1024-57-3 | Heptachlor epoxide | 21 | U | |
| 959-98-8 | Endosulfan I | 21 | U | |
| 60-57-1 | Dieldrin | 31 | JPD | |
| 72-55-9 | 4,4'-DDE | 40 | U | |
| 72-20-8 | Endrin | 40 | U | |
| 33213-65-9 | Endosulfan II | 24 | JPD | |
| 50-29-3 | 4,4'-DDD | 40 | U | |
| 1031-07-8 | Endosulfan sulfate | 40 | U | |
| 50-29-3 | 4,4'-DDT | 40 | U | |
| 72-43-5 | Methoxychlor | 210 | UJ | CB |
| 53494-70-5 | Endrin ketone | 22 | JPD | |
| 7421-36-3 | Endrin aldehyde | 40 | UJ | CB |
| 5103-71-9 | alpha-Chlordane | 21 | U | |
| 5103-74-2 | gamma-Chlordane | 11 | JPD | |
| 8001-35-2 | Toxaphene | 2100 | U | |
| 12674-11-2 | Aroclor-1016 | 930 | D | |
| 11104-28-2 | Aroclor-1221 | 810 | U | |
| 11141-16-5 | Aroclor-1232 | 400 | U | |
| 53469-21-9 | Aroclor-1242 | 400 | U | |
| 12672-29-6 | Aroclor-1248 | 400 | U | |
| 11097-69-1 | Aroclor-1254 | 1100 | D | |
| 11096-82-5 | Aroclor-1260 | 650 | ~~J~~PD | CB |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470654

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 24 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470654

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 24 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470654

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 430 | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 430 | U | |
| 95-57-8 | 2-Chlorophenol | 430 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 430 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 430 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 430 | U | |
| 95-48-7 | 2-Methylphenol | 430 | U | |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 430 | U | |
| 106-44-5 | 4-Methylphenol | 430 | U | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 430 | U | |
| 67-72-1 | Hexachloroethane | 430 | U | |
| 98-95-3 | Nitrobenzene | 430 | U | |
| 78-59-1 | Isophorone | 430 | U | |
| 88-75-5 | 2-Nitrophenol | 430 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 430 | U | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 430 | U | |
| 120-83-2 | 2,4-Dichlorophenol | 430 | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 430 | U | |
| 91-20-3 | Naphthalene | 430 | U | |
| 106-47-8 | 4-Chloroaniline | 430 | UR | CB |
| 87-68-3 | Hexachlorobutadiene | 430 | U | |
| 59-50-7 | 4-Chloro-3-Methylphenol | 430 | U | |
| 91-57-6 | 2-Methylnaphthalene | 430 | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 430 | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 430 | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1000 | U | |
| 91-58-7 | 2-Chloronaphthalene | 430 | U | |
| 88-74-4 | 2-Nitroaniline | 1000 | U | |
| 131-11-3 | Dimethylphthalate | 430 | U | |
| 208-96-8 | Acenaphthylene | 430 | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 430 | U | |
| 99-09-2 | 3-Nitroaniline | 1000 | UJ | CB |
| 83-32-9 | Acenaphthene | 430 | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470654

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1000 | U |
| 100-02-7 | 4-Nitrophenol | 1000 | U |
| 132-64-9 | Dibenzofuran | 430 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 430 | U |
| 84-66-2 | Diethylphthalate | 430 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 430 | U |
| 86-73-7 | Fluorene | 430 | U |
| 100-10-6 | 4-Nitroaniline | 1000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 430 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 430 | U |
| 118-74-1 | Hexachlorobenzene | 430 | U |
| 87-86-5 | Pentachlorophenol | 1000 | U |
| 85-01-8 | Phenanthrene | 430 | U |
| 120-12-7 | Anthracene | 430 | U |
| 86-74-8 | Carbazole | 430 | U |
| 84-74-2 | Di-n-Butylphthalate | 620 | ~~B~~U |
| 206-44-0 | Fluoranthene | 430 | U |
| 129-00-0 | Pyrene | 430 | U |
| 85-68-7 | Butylbenzylphthalate | 430 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 430 | U |
| 56-55-3 | Benzo(a)Anthracene | 430 | U |
| 218-01-9 | Chrysene | 430 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 430 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 430 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 430 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 430 | U |
| 50-32-8 | Benzo(a)Pyrene | 430 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 430 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 430 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 430 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470654

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Number TICs found: 18

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.83 | 33000 | ~~JNBA~~ U |
| 2. | UNKNOWN ALIP. HYDROCARBON | 10.00 | 680 | J |
| 3. | UNKNOWN | 10.95 | 250 | BJ |
| 4. | UNKNOWN | 11.13 | 4200 | BJ |
| 5. | UNKNOWN ALIP. KETONE | 11.80 | 5900 | BAJ |
| 6. | UNKNOWN ALIP. KETONE | 11.98 | 650 | BAJ |
| 7. | UNKNOWN | 12.75 | 4200 | J |
| 8. | UNKNOWN | 13.07 | 520 | J |
| 9. | UNKNOWN | 13.18 | 670 | J |
| 10. | UNKNOWN | 14.08 | 7800 | J |
| 11. | UNKNOWN | 16.75 | 740 | J |
| 12. | UNKNOWN ALIP. ACID | 23.28 | 120 | J |
| 13. | UNKNOWN ALIP. ACID | 27.77 | 380 | BJ |
| 14. | UNKNOWN | 33.45 | 370 | BJ |
| 15. | UNKNOWN | 37.58 | 430 | BJ |
| 16. | UNKNOWN ALIP. HYDROCARBON | 38.45 | 1400 | J |
| 17. | UNKNOWN ALIP. HYDROCARBON | 42.58 | 580 | J |
| 18. | UNKNOWN | 49.12 | 2000 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470654

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 24 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.2 | U | |
| 319-85-7 | beta-BHC | 2.2 | U | |
| 319-86-8 | delta-BHC | 2.2 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | |
| 76-44-8 | Heptachlor | 2.2 | U | |
| 309-00-2 | Aldrin | 2.2 | U | |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | |
| 959-98-8 | Endosulfan I | 2.2 | U | |
| 60-57-1 | Dieldrin | 0.84 | JP | |
| 72-55-9 | 4,4'-DDE | 4.3 | U | |
| 72-20-8 | Endrin | 2.5 | JP | |
| 33213-65-9 | Endosulfan II | 4.3 | U | |
| 50-29-3 | 4,4'-DDD | 4.3 | U | |
| 1031-07-8 | Endosulfan sulfate | 4.3 | U | |
| 50-29-3 | 4,4'-DDT | 0.34 | JP | |
| 72-43-5 | Methoxychlor | 22 | U J | |
| 53494-70-5 | Endrin ketone | 4.3 | U | |
| 7421-36-3 | Endrin aldehyde | 4.3 | U J | |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | |
| 5103-74-2 | gamma-Chlordane | 0.46 | JP | |
| 8001-35-2 | Toxaphene | 220 | U | |
| 12674-11-2 | Aroclor-1016 | 80 | | |
| 11104-28-2 | Aroclor-1221 | 87 | U | |
| 11141-16-5 | Aroclor-1232 | 43 | U | |
| 53469-21-9 | Aroclor-1242 | 43 | U | |
| 12672-29-6 | Aroclor-1248 | 150 | | |
| 11097-69-1 | Aroclor-1254 | 43 | U | |
| 11096-82-5 | Aroclor-1260 | 43 ~~14~~ | ~~BJR~~ U | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 18 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | UJ | |
| 74-83-9 | Bromomethane | 12 | U | |
| 75-01-4 | Vinyl Chloride | 12 | U | |
| 75-00-3 | Chloroethane | 12 | UJ | |
| 75-09-2 | Methylene Chloride | 88 | ~~B~~ | |
| 67-64-1 | Acetone | 12 | U | |
| 75-15-0 | Carbon Disulfide | 12 | U | |
| 75-35-4 | 1,1-Dichloroethene | 12 | U | |
| 75-34-3 | 1,1-Dichloroethane | 12 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U | |
| 67-66-3 | Chloroform | 12 | U | |
| 107-06-2 | 1,2-Dichloroethane | 12 | U | |
| 78-93-3 | 2-Butanone | 12 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 22 | | |
| 56-23-5 | Carbon Tetrachloride | 12 | U | |
| 75-27-4 | Bromodichloromethane | 12 | U | |
| 78-87-5 | 1,2-Dichloropropane | 12 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U | |
| 79-01-6 | Trichloroethene | 12 | U | |
| 124-48-1 | Dibromochloromethane | 12 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U | |
| 71-43-2 | Benzene | 12 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U | |
| 75-25-2 | Bromoform | 12 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U | |
| 591-78-6 | 2-Hexanone | 12 | UJ | |
| 127-18-4 | Tetrachloroethene | 12 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U | |
| 108-88-3 | Toluene | 19 | | |
| 108-90-7 | Chlorobenzene | 12 | U | |
| 100-41-4 | Ethylbenzene | 12 | U | |
| 100-42-5 | Styrene | 12 | U | |
| 1330-20-7 | Xylene (total) | 6 | J | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK05

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 18 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 400 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 400 | U |
| 95-57-8 | 2-Chlorophenol | 400 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 400 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 400 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 400 | U |
| 95-48-7 | 2-Methylphenol | 400 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 400 | U |
| 106-44-5 | 4-Methylphenol | 400 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 400 | U |
| 67-72-1 | Hexachloroethane | 400 | U |
| 98-95-3 | Nitrobenzene | 400 | U |
| 78-59-1 | Isophorone | 400 | U |
| 88-75-5 | 2-Nitrophenol | 400 | U |
| 105-67-9 | 2,4-Dimethylphenol | 400 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 400 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400 | U |
| 91-20-3 | Naphthalene | 500 | |
| 106-47-8 | 4-Chloroaniline | 400 | UR |
| 87-68-3 | Hexachlorobutadiene | 400 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | 1300 | |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 970 | U |
| 91-58-7 | 2-Chloronaphthalene | 400 | U |
| 88-74-4 | 2-Nitroaniline | 970 | U |
| 131-11-3 | Dimethylphthalate | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 400 | U |
| 99-09-2 | 3-Nitroaniline | 970 | UJ |
| 83-32-9 | Acenaphthene | 400 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 970 | U |
| 100-02-7 | 4-Nitrophenol | 970 | U |
| 132-64-9 | Dibenzofuran | 290 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 400 | U |
| 84-66-2 | Diethylphthalate | 400 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 400 | U |
| 86-73-7 | Fluorene | 100 | J |
| 100-10-6 | 4-Nitroaniline | 970 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 970 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 400 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 400 | U |
| 118-74-1 | Hexachlorobenzene | 400 | U |
| 87-86-5 | Pentachlorophenol | 970 | U |
| 85-01-8 | Phenanthrene | 4400 | E |
| 120-12-7 | Anthracene | 590 | |
| 86-74-8 | Carbazole | 350 | J |
| 84-74-2 | Di-n-Butylphthalate | 400 | U |
| 206-44-0 | Fluoranthene | 2000 | |
| 129-00-0 | Pyrene | 2100 | |
| 85-68-7 | Butylbenzylphthalate | 400 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 400 | U |
| 56-55-3 | Benzo(a)Anthracene | 2000 | |
| 218-01-9 | Chrysene | 3200 | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 400 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 400 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1700 | |
| 207-08-9 | Benzo(k)Fluoranthene | 770 | |
| 50-32-8 | Benzo(a)Pyrene | 400 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 540 | |
| 53-70-3 | Dibenz(a,h)Anthracene | 400 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 620 | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 22

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.72 | 43000 | ~~JNBA~~ U |
| 2. | UNKNOWN ALIP. HYDROCARBON | 24.65 | 5600 | J |
| 3. | UNKNOWN PNA | 27.75 | 5100 | J |
| 4. | UNKNOWN PNA | 27.85 | 3800 | J |
| 5. | UNKNOWN ALIP. HYDROCARBON | 28.27 | 3400 | J |
| 6. | UNKNOWN ALIP. HYDROCARBON | 29.40 | 3300 | J |
| 7. | UNKNOWN | 31.43 | 640 | J |
| 8. | UNKNOWN ALIP. HYDROCARBON | 31.52 | 3200 | J |
| 9. | UNKNOWN PCB | 31.70 | 990 | J |
| 10. | UNKNOWN PNA | 31.85 | 2500 | J |
| 11. | UNKNOWN PNA | 32.12 | 1700 | J |
| 12. | UNKNOWN PCB | 32.18 | 670 | J |
| 13. | UNKNOWN ALIP. HYDROCARBON | 32.53 | 3200 | J |
| 14. | UNKNOWN PCB | 32.83 | 1100 | J |
| 15. | UNKNOWN PNA | 33.07 | 1300 | J |
| 16. | UNKNOWN PNA | 33.28 | 490 | J |
| 17. | UNKNOWN PNA | 33.37 | 1800 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 33.48 | 3800 | J |
| 19. | UNKNOWN PNA | 33.65 | 910 | J |
| 20. | UNKNOWN | 34.20 | 1600 | J |
| 21. | UNKNOWN ALIP. HYDROCARBON | 34.48 | 2900 | J |
| 22. | UNKNOWN ALIP. HYDROCARBON | 35.63 | 2400 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 800 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 800 | U |
| 95-57-8 | 2-Chlorophenol | 800 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 800 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 800 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 800 | U |
| 95-48-7 | 2-Methylphenol | 800 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 800 | U |
| 106-44-5 | 4-Methylphenol | 800 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 800 | U |
| 67-72-1 | Hexachloroethane | 800 | U |
| 98-95-3 | Nitrobenzene | 800 | U |
| 78-59-1 | Isophorone | 800 | U |
| 88-75-5 | 2-Nitrophenol | 800 | U |
| 105-67-9 | 2,4-Dimethylphenol | 800 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 800 | U |
| 120-83-2 | 2,4-Dichlorophenol | 800 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 800 | U |
| 91-20-3 | Naphthalene | 480 | J |
| 106-47-8 | 4-Chloroaniline | 800 | U |
| 87-68-3 | Hexachlorobutadiene | 800 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 800 | U |
| 91-57-6 | 2-Methylnaphthalene | 1300 | |
| 77-47-4 | Hexachlorocyclopentadiene | 800 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 800 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 800 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 800 | U |
| 208-96-8 | Acenaphthylene | 800 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 800 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 800 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 280 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 800 | U |
| 84-66-2 | Diethylphthalate | 800 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 800 | U |
| 86-73-7 | Fluorene | 800 | U |
| 100-10-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 800 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 800 | U |
| 118-74-1 | Hexachlorobenzene | 800 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 4500 | |
| 120-12-7 | Anthracene | 390 | J |
| 86-74-8 | Carbazole | 310 | J |
| 84-74-2 | Di-n-Butylphthalate | 800 ~~440~~ | ~~BJ~~ U |
| 206-44-0 | Fluoranthene | 1400 | |
| 129-00-0 | Pyrene | 2000 | |
| 85-68-7 | Butylbenzylphthalate | 800 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 800 | U |
| 56-55-3 | Benzo(a)Anthracene | 1700 | |
| 218-01-9 | Chrysene | 2800 | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 800 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 800 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 1200 | |
| 207-08-9 | Benzo(k)Fluoranthene | 680 | J |
| 50-32-8 | Benzo(a)Pyrene | 930 | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 800 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 800 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 800 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 27

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.52 | 92000 | JNBA |
| 2. | UNKNOWN | 12.72 | 5800 | J |
| 3. | UNKNOWN ALIP. HYDROCARBON | 24.62 | 4900 | J |
| 4. | UNKNOWN ALIP. HYDROCARBON | 27.07 | 2200 | J |
| 5. | UNKNOWN PNA | 27.73 | 4100 | J |
| 6. | UNKNOWN PNA | 27.82 | 2800 | J |
| 7. | UNKNOWN PNA | 28.07 | 2000 | J |
| 8. | UNKNOWN ALIP. HYDROCARBON | 28.25 | 2400 | J |
| 9. | UNKNOWN ALIP. HYDROCARBON | 29.38 | 2300 | J |
| 10. | UNKNOWN | 30.40 | 570 | J |
| 11. | UNKNOWN | 30.85 | 650 | J |
| 12. | UNKNOWN | 31.50 | 2600 | J |
| 13. | UNKNOWN PCB | 31.67 | 720 | J |
| 14. | UNKNOWN PNA | 31.82 | 1900 | J |
| 15. | UNKNOWN PNA | 32.08 | 1300 | J |
| 16. | UNKNOWN PNA | 32.17 | 730 | J |
| 17. | UNKNOWN ALIP. HYDROCARBON | 32.50 | 2300 | J |
| 18. | UNKNOWN PCB | 32.82 | 760 | J |
| 19. | UNKNOWN PNA | 33.03 | 1200 | J |
| 20. | UNKNOWN PNA | 33.25 | 440 | J |
| 21. | UNKNOWN PNA | 33.35 | 1600 | J |
| 22. | UNKNOWN ALIP. HYDROCARBON | 33.47 | 3200 | J |
| 23. | UNKNOWN PNA | 33.62 | 870 | J |
| 24. | UNKNOWN | 33.95 | 440 | J |
| 25. | UNKNOWN ALIP. HYDROCARBON | 34.47 | 2200 | J |
| 26. | UNKNOWN PNA | 35.48 | 3200 | J |
| 27. | UNKNOWN ALIP. HYDROCARBON | 35.60 | 2200 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 1.8 | JP |
| 319-85-7 | beta-BHC | 2.1 | U |
| 319-86-8 | delta-BHC | 2.1 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U |
| 76-44-8 | Heptachlor | 0.39 | JP |
| 309-00-2 | Aldrin | 2.1 | U |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U |
| 959-98-8 | Endosulfan I | 2.1 | U |
| 60-57-1 | Dieldrin | 42 | P |
| 72-55-9 | 4,4'-DDE | 4.0 | U |
| 72-20-8 | Endrin | 170 | P |
| 33213-65-9 | Endosulfan II | 4.0 | U |
| 50-29-3 | 4,4'-DDD | 4.0 | U |
| 1031-07-8 | Endosulfan sulfate | 14 | P |
| 50-29-3 | 4,4'-DDT | 62 | P |
| 72-43-5 | Methoxychlor | 21 | UJ |
| 53494-70-5 | Endrin ketone | 64 | P |
| 7421-36-3 | Endrin aldehyde | 30 | P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U |
| 5103-74-2 | gamma-Chlordane | 13 | P |
| 8001-35-2 | Toxaphene | 210 | U |
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 81 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 2000 | |
| 11096-82-5 | Aroclor-1260 | 1300 | B |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470655D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 4.6 | JPD |
| 319-85-7 | beta-BHC | 21 | U |
| 319-86-8 | delta-BHC | 21 | U |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U |
| 76-44-8 | Heptachlor | 21 | U |
| 309-00-2 | Aldrin | 21 | U |
| 1024-57-3 | Heptachlor epoxide | 21 | U |
| 959-98-8 | Endosulfan I | 21 | U |
| 60-57-1 | Dieldrin | 42 | PD |
| 72-55-9 | 4,4'-DDE | 40 | U |
| 72-20-8 | Endrin | 40 | U |
| 33213-65-9 | Endosulfan II | 40 | U |
| 50-29-3 | 4,4'-DDD | 40 | U |
| 1031-07-8 | Endosulfan sulfate | 40 | U |
| 50-29-3 | 4,4'-DDT | 61 | PD |
| 72-43-5 | Methoxychlor | 210 | U |
| 53494-70-5 | Endrin ketone | 76 | PD |
| 7421-36-3 | Endrin aldehyde | 27 | JPD |
| 5103-71-9 | alpha-Chlordane | 21 | U |
| 5103-74-2 | gamma-Chlordane | 17 | JPD |
| 8001-35-2 | Toxaphene | 2100 | U |
| 12674-11-2 | Aroclor-1016 | 400 | U |
| 11104-28-2 | Aroclor-1221 | 810 | U |
| 11141-16-5 | Aroclor-1232 | 400 | U |
| 53469-21-9 | Aroclor-1242 | 400 | U |
| 12672-29-6 | Aroclor-1248 | 400 | U |
| 11097-69-1 | Aroclor-1254 | 2800 | D |
| 11096-82-5 | Aroclor-1260 | 1800 | ~~P~~D |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK06

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 33 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 15 | UJ | |
| 74-83-9 | Bromomethane | 15 | U | |
| 75-01-4 | Vinyl Chloride | 15 | U | |
| 75-00-3 | Chloroethane | 15 | UJ | |
| 75-09-2 | Methylene Chloride | 42 | B | |
| 67-64-1 | Acetone | 15 | U | |
| 75-15-0 | Carbon Disulfide | 15 | U | |
| 75-35-4 | 1,1-Dichloroethene | 15 | U | |
| 75-34-3 | 1,1-Dichloroethane | 15 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | U | |
| 67-66-3 | Chloroform | 15 | U | |
| 107-06-2 | 1,2-Dichloroethane | 15 | U | |
| 78-93-3 | 2-Butanone | 15 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 48 | J | |
| 56-23-5 | Carbon Tetrachloride | 15 | U | |
| 75-27-4 | Bromodichloromethane | 15 | U | |
| 78-87-5 | 1,2-Dichloropropane | 15 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | U | |
| 79-01-6 | Trichloroethene | 15 | U | |
| 124-48-1 | Dibromochloromethane | 15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | U | |
| 71-43-2 | Benzene | 15 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | U | |
| 75-25-2 | Bromoform | 15 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 15 | U | |
| 591-78-6 | 2-Hexanone | 15 | UJ | |
| 127-18-4 | Tetrachloroethene | 15 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | U | |
| 108-88-3 | Toluene | 11 | J | |
| 108-90-7 | Chlorobenzene | 15 | U | |
| 100-41-4 | Ethylbenzene | 15 | U | |
| 100-42-5 | Styrene | 15 | U | |
| 1330-20-7 | Xylene (total) | 15 | U | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK06

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 33 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK13

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 33 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 15 | UJ | CB |
| 74-83-9 | Bromomethane | 15 | U | |
| 75-01-4 | Vinyl Chloride | 15 | U | |
| 75-00-3 | Chloroethane | 15 | UJ | CB |
| 75-09-2 | Methylene Chloride | 15 ~~9~~ | ~~BI~~ U | B |
| 67-64-1 | Acetone | 15 | U | |
| 75-15-0 | Carbon Disulfide | 15 | U | |
| 75-35-4 | 1,1-Dichloroethene | 15 | U | |
| 75-34-3 | 1,1-Dichloroethane | 15 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | U | |
| 67-66-3 | Chloroform | 15 | U | |
| 107-06-2 | 1,2-Dichloroethane | 15 | U | |
| 78-93-3 | 2-Butanone | 15 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 36 | J | CB |
| 56-23-5 | Carbon Tetrachloride | 15 | U | |
| 75-27-4 | Bromodichloromethane | 15 | U | |
| 78-87-5 | 1,2-Dichloropropane | 15 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | U | |
| 79-01-6 | Trichloroethene | 15 | U | |
| 124-48-1 | Dibromochloromethane | 15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | U | |
| 71-43-2 | Benzene | 15 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | U | |
| 75-25-2 | Bromoform | 15 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 15 | U | |
| 591-78-6 | 2-Hexanone | 15 | UJ | CB |
| 127-18-4 | Tetrachloroethene | 15 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | U | |
| 108-88-3 | Toluene | 15 | U | |
| 108-90-7 | Chlorobenzene | 15 | U | |
| 100-41-4 | Ethylbenzene | 15 | U | |
| 100-42-5 | Styrene | 15 | U | |
| 1330-20-7 | Xylene (total) | 15 | U | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK13

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 33 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 33 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 490 | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 490 | U | |
| 95-57-8 | 2-Chlorophenol | 490 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 490 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 490 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 490 | U | |
| 95-48-7 | 2-Methylphenol | 490 | U | |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 490 | U | |
| 106-44-5 | 4-Methylphenol | 490 | U | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 490 | U | |
| 67-72-1 | Hexachloroethane | 490 | U | |
| 98-95-3 | Nitrobenzene | 490 | U | |
| 78-59-1 | Isophorone | 490 | U | |
| 88-75-5 | 2-Nitrophenol | 490 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 490 | U | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 490 | U | |
| 120-83-2 | 2,4-Dichlorophenol | 490 | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 490 | U | |
| 91-20-3 | Naphthalene | 490 | U | |
| 106-47-8 | 4-Chloroaniline | 490 | UR | G |
| 87-68-3 | Hexachlorobutadiene | 490 | U | |
| 59-50-7 | 4-Chloro-3-Methylphenol | 490 | U | |
| 91-57-6 | 2-Methylnaphthalene | 130 | J | |
| 77-47-4 | Hexachlorocyclopentadiene | 490 | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 490 | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U | |
| 91-58-7 | 2-Chloronaphthalene | 490 | U | |
| 88-74-4 | 2-Nitroaniline | 1200 | U | |
| 131-11-3 | Dimethylphthalate | 490 | U | |
| 208-96-8 | Acenaphthylene | 490 | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 490 | U | |
| 99-09-2 | 3-Nitroaniline | 1200 | UJ | G |
| 83-32-9 | Acenaphthene | 490 | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 33 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1200 | U |
| 100-02-7 | 4-Nitrophenol | 1200 | U |
| 132-64-9 | Dibenzofuran | 490 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 490 | U |
| 84-66-2 | Diethylphthalate | 490 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 490 | U |
| 86-73-7 | Fluorene | 490 | U |
| 100-10-6 | 4-Nitroaniline | 1200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 490 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 490 | U |
| 118-74-1 | Hexachlorobenzene | 490 | U |
| 87-86-5 | Pentachlorophenol | 1200 | U |
| 85-01-8 | Phenanthrene | 490 | U |
| 120-12-7 | Anthracene | 490 | U |
| 86-74-8 | Carbazole | 490 | U |
| 84-74-2 | Di-n-Butylphthalate | 490 | U |
| 206-44-0 | Fluoranthene | 220 | J |
| 129-00-0 | Pyrene | 210 | J |
| 85-68-7 | Butylbenzylphthalate | 490 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 490 | U |
| 56-55-3 | Benzo(a)Anthracene | 170 | J |
| 218-01-9 | Chrysene | 270 | J |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 490 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 490 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 220 | J |
| 207-08-9 | Benzo(k)Fluoranthene | 490 | U |
| 50-32-8 | Benzo(a)Pyrene | 130 | J |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 490 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 490 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 490 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1121E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 33 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

Number TICs found: 30

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.52 | 48000 | ~~JNBAU~~ |
| 2. | UNKNOWN | 11.05 | 1800 | BJ |
| 3. | UNKNOWN ALIP. KETONE | 11.73 | 2000 | BAJ |
| 4. | UNKNOWN | 12.72 | 3600 | J |
| 5. | UNKNOWN ALIP. ALCOHOL | 13.08 | 1400 | BJ |
| 6. | UNKNOWN | 14.02 | 3300 | J |
| 7. | UNKNOWN ALIP. HYDROCARBON | 24.62 | 1000 | J |
| 8. | UNKNOWN ALIP. ACID | 27.78 | 730 | BJ |
| 9. | UNKNOWN ALIP. HYDROCARBON | 30.45 | 570 | J |
| 10. | UNKNOWN | 31.43 | 180 | J |
| 11. | UNKNOWN ALIP. HYDROCARBON | 31.48 | 1000 | J |
| 12. | UNKNOWN PCB | 31.62 | 810 | J |
| 13. | UNKNOWN PCB | 32.13 | 950 | J |
| 14. | UNKNOWN PCB | 32.45 | 280 | J |
| 15. | UNKNOWN ALIP. HYDROCARBON | 32.48 | 1100 | J |
| 16. | UNKNOWN PCB | 32.80 | 980 | J |
| 17. | UNKNOWN PCB | 33.15 | 500 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 33.45 | 2600 | J |
| 19. | UNKNOWN PCB | 33.70 | 340 | J |
| 20. | UNKNOWN PCB | 33.85 | 230 | J |
| 21. | UNKNOWN PCB | 34.32 | 920 | J |
| 22. | UNKNOWN ALIP. HYDROCARBON | 34.45 | 1500 | J |
| 23. | UNKNOWN PCB | 35.13 | 470 | J |
| 24. | UNKNOWN PCB | 35.50 | 190 | J |
| 25. | UNKNOWN ALIP. HYDROCARBON | 35.60 | 3300 | J |
| 26. | UNKNOWN ALIP. HYDROCARBON | 36.92 | 1800 | J |
| 27. | UNKNOWN | 37.58 | 1100 | BJ |
| 28. | UNKNOWN ALIP. HYDROCARBON | 38.50 | 19000 | J |
| 29. | UNKNOWN ALIP. HYDROCARBON | 40.33 | 3300 | J |
| 30. | UNKNOWN ALIP. HYDROCARBON | 42.60 | 13000 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470656D

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 25 | U | |
| 319-85-7 | beta-BHC | 25 | U | |
| 319-86-8 | delta-BHC | 25 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 25 | U | |
| 76-44-8 | Heptachlor | 25 | U | |
| 309-00-2 | Aldrin | 25 | U | |
| 1024-57-3 | Heptachlor epoxide | 25 | U | |
| 959-98-8 | Endosulfan I | 25 | U | |
| 60-57-1 | Dieldrin | 47 | JP | |
| 72-55-9 | 4,4'-DDE | 49 | U | |
| 72-20-8 | Endrin | 150 | P | |
| 33213-65-9 | Endosulfan II | 400 | P | |
| 50-29-3 | 4,4'-DDD | 49 | U | |
| 1031-07-8 | Endosulfan sulfate | 36 | JP | |
| 50-29-3 | 4,4'-DDT | 49 | U | |
| 72-43-5 | Methoxychlor | 250 | UJ | CB |
| 53494-70-5 | Endrin ketone | 12 | JP | |
| 7421-36-3 | Endrin aldehyde | 160 | PJ | CB |
| 5103-71-9 | alpha-Chlordane | 25 | U | |
| 5103-74-2 | gamma-Chlordane | 2.6 | JP | |
| 8001-35-2 | Toxaphene | 2500 | U | |
| 12674-11-2 | Aroclor-1016 | 490 | U | |
| 11104-28-2 | Aroclor-1221 | 1000 | U | |
| 11141-16-5 | Aroclor-1232 | 490 | U | |
| 53469-21-9 | Aroclor-1242 | 490 | U | |
| 12672-29-6 | Aroclor-1248 | 490 | U | |
| 11097-69-1 | Aroclor-1254 | 490 | U | |
| 11096-82-5 | Aroclor-1260 | 9400 | ~~P~~C | CB |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: 470656DD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 250 | U |
| 319-85-7 | beta-BHC | 250 | U |
| 319-86-8 | delta-BHC | 250 | U |
| 58-89-9 | gamma-BHC (Lindane) | 250 | U |
| 76-44-8 | Heptachlor | 250 | U |
| 309-00-2 | Aldrin | 250 | U |
| 1024-57-3 | Heptachlor epoxide | 250 | U |
| 959-98-8 | Endosulfan I | 250 | U |
| 60-57-1 | Dieldrin | 110 | JPD |
| 72-55-9 | 4,4'-DDE | 490 | U |
| 72-20-8 | Endrin | 490 | U |
| 33213-65-9 | Endosulfan II | 480 | JPD |
| 50-29-3 | 4,4'-DDD | 490 | U |
| 1031-07-8 | Endosulfan sulfate | 490 | U |
| 50-29-3 | 4,4'-DDT | 490 | U |
| 72-43-5 | Methoxychlor | 2500 | UJ |
| 53494-70-5 | Endrin ketone | 490 | U |
| 7421-36-3 | Endrin aldehyde | 190 | JPD |
| 5103-71-9 | alpha-Chlordane | 250 | U |
| 5103-74-2 | gamma-Chlordane | 250 | U |
| 8001-35-2 | Toxaphene | 25000 | U |
| 12674-11-2 | Aroclor-1016 | 4900 | U |
| 11104-28-2 | Aroclor-1221 | 10000 | U |
| 11141-16-5 | Aroclor-1232 | 4900 | U |
| 53469-21-9 | Aroclor-1242 | 4900 | U |
| 12672-29-6 | Aroclor-1248 | 4900 | U |
| 11097-69-1 | Aroclor-1254 | 4900 | U |
| 11096-82-5 | Aroclor-1260 | 11000 | ~~J~~DC |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470657

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 33 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 15 | UJ | CS |
| 74-83-9 | Bromomethane | 15 | U | |
| 75-01-4 | Vinyl Chloride | 15 | U | |
| 75-00-3 | Chloroethane | 15 | UJ | CS |
| 75-09-2 | Methylene Chloride | 50 | ~~B~~ | CS |
| 67-64-1 | Acetone | 15 | U | |
| 75-15-0 | Carbon Disulfide | 15 | U | |
| 75-35-4 | 1,1-Dichloroethene | 15 | U | |
| 75-34-3 | 1,1-Dichloroethane | 15 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | U | |
| 67-66-3 | Chloroform | 15 | U | |
| 107-06-2 | 1,2-Dichloroethane | 15 | U | |
| 78-93-3 | 2-Butanone | 15 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 22 | | |
| 56-23-5 | Carbon Tetrachloride | 15 | U | |
| 75-27-4 | Bromodichloromethane | 15 | U | |
| 78-87-5 | 1,2-Dichloropropane | 15 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | U | |
| 79-01-6 | Trichloroethene | 15 | U | |
| 124-48-1 | Dibromochloromethane | 15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | U | |
| 71-43-2 | Benzene | 15 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | U | |
| 75-25-2 | Bromoform | 15 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 15 | U | |
| 591-78-6 | 2-Hexanone | 15 | UJ | CS |
| 127-18-4 | Tetrachloroethene | 15 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | U | |
| 108-88-3 | Toluene | 11 | J | |
| 108-90-7 | Chlorobenzene | 15 | U | |
| 100-41-4 | Ethylbenzene | 15 | U | |
| 100-42-5 | Styrene | 15 | U | |
| 1330-20-7 | Xylene (total) | 15 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470657

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK07

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 33 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470657

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 480 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 480 | U |
| 95-57-8 | 2-Chlorophenol | 480 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 480 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 480 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 480 | U |
| 95-48-7 | 2-Methylphenol | 480 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 480 | U |
| 106-44-5 | 4-Methylphenol | 480 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 480 | U |
| 67-72-1 | Hexachloroethane | 480 | U |
| 98-95-3 | Nitrobenzene | 480 | U |
| 78-59-1 | Isophorone | 480 | U |
| 88-75-5 | 2-Nitrophenol | 480 | U |
| 105-67-9 | 2,4-Dimethylphenol | 480 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 480 | U |
| 120-83-2 | 2,4-Dichlorophenol | 480 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 480 | U |
| 91-20-3 | Naphthalene | 480 | U |
| 106-47-8 | 4-Chloroaniline | 480 | UR |
| 87-68-3 | Hexachlorobutadiene | 480 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 480 | U |
| 91-57-6 | 2-Methylnaphthalene | 110 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 480 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 480 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 91-58-7 | 2-Chloronaphthalene | 480 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 480 | U |
| 208-96-8 | Acenaphthylene | 480 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 480 | U |
| 99-09-2 | 3-Nitroaniline | 1200 | UJ |
| 83-32-9 | Acenaphthene | 480 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

.b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470657

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1200 | U |
| 100-02-7 | 4-Nitrophenol | 1200 | U |
| 132-64-9 | Dibenzofuran | 480 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 480 | U |
| 84-66-2 | Diethylphthalate | 480 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 480 | U |
| 86-73-7 | Fluorene | 480 | U |
| 100-10-6 | 4-Nitroaniline | 1200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 480 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 480 | U |
| 118-74-1 | Hexachlorobenzene | 480 | U |
| 87-86-5 | Pentachlorophenol | 1200 | U |
| 85-01-8 | Phenanthrene | 370 | J |
| 120-12-7 | Anthracene | 480 | U |
| 86-74-8 | Carbazole | 480 | U |
| 84-74-2 | Di-n-Butylphthalate | 520 | ~~B~~ U |
| 206-44-0 | Fluoranthene | 140 | J |
| 129-00-0 | Pyrene | 190 | J |
| 85-68-7 | Butylbenzylphthalate | 480 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 480 | U |
| 56-55-3 | Benzo(a)Anthracene | 140 | J |
| 218-01-9 | Chrysene | 230 | J |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 480 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 480 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 240 | J |
| 207-08-9 | Benzo(k)Fluoranthene | 480 | U |
| 50-32-8 | Benzo(a)Pyrene | 110 | J |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 480 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 480 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 480 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470657

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

Number TICs found: 30

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 11.05 | 1600 | BJ |
| 2. | UNKNOWN ALIP. KETONE | 11.73 | 1700 | BAJ |
| 3. | UNKNOWN | 12.73 | 3500 | J |
| 4. | UNKNOWN | 14.02 | 2800 | J |
| 5. | UNKNOWN ALIP. HYDROCARBON | 24.62 | 1200 | J |
| 6. | UNKNOWN ALIP. ACID | 27.78 | 610 | BJ |
| 7. | UNKNOWN ALIP. HYDROCARBON | 29.38 | 400 | J |
| 8. | UNKNOWN PCB | 31.37 | 300 | J |
| 9. | UNKNOWN | 31.45 | 220 | J |
| 10. | UNKNOWN ALIP. HYDROCARBON | 31.50 | 840 | J |
| 11. | UNKNOWN PCB | 31.63 | 660 | J |
| 12. | UNKNOWN PCB | 32.15 | 890 | J |
| 13. | UNKNOWN PCB | 32.45 | 360 | J |
| 14. | UNKNOWN ALIP. HYDROCARBON | 32.50 | 950 | J |
| 15. | UNKNOWN PCB | 32.80 | 850 | J |
| 16. | UNKNOWN PCB | 33.17 | 460 | J |
| 17. | UNKNOWN PCB | 33.28 | 140 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 33.45 | 2300 | J |
| 19. | UNKNOWN PCB | 33.72 | 460 | J |
| 20. | UNKNOWN PCB | 34.33 | 790 | J |
| 21. | UNKNOWN ALIP. HYDROCARBON | 34.45 | 1300 | J |
| 22. | UNKNOWN PCB | 35.15 | 400 | J |
| 23. | UNKNOWN ALIP. HYDROCARBON | 35.60 | 2900 | J |
| 24. | UNKNOWN ALIP. HYDROCARBON | 36.92 | 1600 | J |
| 25. | UNKNOWN | 37.58 | 940 | BJ |
| 26. | UNKNOWN | 38.35 | 600 | J |
| 27. | UNKNOWN ALIP. HYDROCARBON | 38.50 | 18000 | J |
| 28. | UNKNOWN | 38.60 | 830 | J |
| 29. | UNKNOWN ALIP. HYDROCARBON | 40.33 | 2800 | J |
| 30. | UNKNOWN ALIP. HYDROCARBON | 42.62 | 12000 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470657D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 25 | U | |
| 319-85-7 | beta-BHC | 25 | U | |
| 319-86-8 | delta-BHC | 25 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 25 | U | |
| 76-44-8 | Heptachlor | 25 | U | |
| 309-00-2 | Aldrin | 25 | U | |
| 1024-57-3 | Heptachlor epoxide | 25 | U | |
| 959-98-8 | Endosulfan I | 25 | U | |
| 60-57-1 | Dieldrin | 57 | P | |
| 72-55-9 | 4,4'-DDE | 49 | U | |
| 72-20-8 | Endrin | 49 | U | |
| 33213-65-9 | Endosulfan II | 420 | P | |
| 50-29-3 | 4,4'-DDD | 49 | U | |
| 1031-07-8 | Endosulfan sulfate | 57 | P | |
| 50-29-3 | 4,4'-DDT | 49 | U | |
| 72-43-5 | Methoxychlor | 250 | UJ | CB |
| 53494-70-5 | Endrin ketone | 7.5 | JP | |
| 7421-36-3 | Endrin aldehyde | 150 | PJ | CB |
| 5103-71-9 | alpha-Chlordane | 25 | U | |
| 5103-74-2 | gamma-Chlordane | 6.1 | JP | |
| 8001-35-2 | Toxaphene | 2500 | U | |
| 12674-11-2 | Aroclor-1016 | 490 | U | |
| 11104-28-2 | Aroclor-1221 | 1000 | U | |
| 11141-16-5 | Aroclor-1232 | 490 | U | |
| 53469-21-9 | Aroclor-1242 | 490 | U | |
| 12672-29-6 | Aroclor-1248 | 490 | U | |
| 11097-69-1 | Aroclor-1254 | 490 | U | |
| 11096-82-5 | Aroclor-1260 | 9400 | ~~B~~C | CB |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: 470657DD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/01/94

Injection Volume: 1.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 250 | U | |
| 319-85-7 | beta-BHC | 250 | U | |
| 319-86-8 | delta-BHC | 250 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 250 | U | |
| 76-44-8 | Heptachlor | 250 | U | |
| 309-00-2 | Aldrin | 250 | U | |
| 1024-57-3 | Heptachlor epoxide | 250 | U | |
| 959-98-8 | Endosulfan I | 250 | U | |
| 60-57-1 | Dieldrin | 67 | JPD | |
| 72-55-9 | 4,4'-DDE | 490 | U | |
| 72-20-8 | Endrin | 490 | U | |
| 33213-65-9 | Endosulfan II | 410 | JPD | |
| 50-29-3 | 4,4'-DDD | 490 | U | |
| 1031-07-8 | Endosulfan sulfate | 35 | JPD | |
| 50-29-3 | 4,4'-DDT | 490 | U | |
| 72-43-5 | Methoxychlor | 2500 | U J | CB |
| 53494-70-5 | Endrin ketone | 490 | U | |
| 7421-36-3 | Endrin aldehyde | 490 | U J | CB |
| 5103-71-9 | alpha-Chlordane | 250 | U | |
| 5103-74-2 | gamma-Chlordane | 250 | U | |
| 8001-35-2 | Toxaphene | 25000 | U | |
| 12674-11-2 | Aroclor-1016 | 4900 | U | |
| 11104-28-2 | Aroclor-1221 | 10000 | U | |
| 11141-16-5 | Aroclor-1232 | 4900 | U | |
| 53469-21-9 | Aroclor-1242 | 4900 | U | |
| 12672-29-6 | Aroclor-1248 | 4900 | U | |
| 11097-69-1 | Aroclor-1254 | 4900 | U | |
| 11096-82-5 | Aroclor-1260 | 9800 | ~~P~~DC | CB |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 36 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | UJ | CB |
| 74-83-9 | Bromomethane | 16 | U | |
| 75-01-4 | Vinyl Chloride | 16 | U | |
| 75-00-3 | Chloroethane | 16 | UJ | CB |
| 75-09-2 | Methylene Chloride | 16 ~~4~~ | ~~BJ~~U | CB |
| 67-64-1 | Acetone | 12 | J | |
| 75-15-0 | Carbon Disulfide | 16 | U | |
| 75-35-4 | 1,1-Dichloroethene | 16 | U | |
| 75-34-3 | 1,1-Dichloroethane | 16 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U | |
| 67-66-3 | Chloroform | 16 | U | |
| 107-06-2 | 1,2-Dichloroethane | 16 | U | |
| 78-93-3 | 2-Butanone | 16 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U | |
| 56-23-5 | Carbon Tetrachloride | 16 | U | |
| 75-27-4 | Bromodichloromethane | 16 | U | |
| 78-87-5 | 1,2-Dichloropropane | 16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U | |
| 79-01-6 | Trichloroethene | 16 | U | |
| 124-48-1 | Dibromochloromethane | 16 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U | |
| 71-43-2 | Benzene | 16 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 16 | U | |
| 75-25-2 | Bromoform | 16 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U | |
| 591-78-6 | 2-Hexanone | 16 | UJ | CB |
| 127-18-4 | Tetrachloroethene | 16 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U | |
| 108-88-3 | Toluene | 16 | U | |
| 108-90-7 | Chlorobenzene | 16 | U | |
| 100-41-4 | Ethylbenzene | 16 | U | |
| 100-42-5 | Styrene | 16 | U | |
| 1330-20-7 | Xylene (total) | 16 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 36 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK14

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 36 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | UJ | CB |
| 74-83-9 | Bromomethane | 16 | U | |
| 75-01-4 | Vinyl Chloride | 16 | U | |
| 75-00-3 | Chloroethane | 16 | UJ | CB |
| 75-09-2 | Methylene Chloride | 16 | U | |
| 67-64-1 | Acetone | 22 | | |
| 75-15-0 | Carbon Disulfide | 16 | U | |
| 75-35-4 | 1,1-Dichloroethene | 16 | U | |
| 75-34-3 | 1,1-Dichloroethane | 16 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U | |
| 67-66-3 | Chloroform | 16 | U | |
| 107-06-2 | 1,2-Dichloroethane | 16 | U | |
| 78-93-3 | 2-Butanone | 6 | J | |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U | |
| 56-23-5 | Carbon Tetrachloride | 16 | U | |
| 75-27-4 | Bromodichloromethane | 16 | U | |
| 78-87-5 | 1,2-Dichloropropane | 16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U | |
| 79-01-6 | Trichloroethene | 16 | U | |
| 124-48-1 | Dibromochloromethane | 16 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U | |
| 71-43-2 | Benzene | 16 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 16 | U | |
| 75-25-2 | Bromoform | 16 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U | |
| 591-78-6 | 2-Hexanone | 16 | UJ | CB |
| 127-18-4 | Tetrachloroethene | 16 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U | |
| 108-88-3 | Toluene | 16 | U | |
| 108-90-7 | Chlorobenzene | 16 | U | |
| 100-41-4 | Ethylbenzene | 16 | U | |
| 100-42-5 | Styrene | 16 | U | |
| 1330-20-7 | Xylene (total) | 16 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK14

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 36 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E03

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 510 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 510 | U |
| 95-57-8 | 2-Chlorophenol | 510 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 510 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 510 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 510 | U |
| 95-48-7 | 2-Methylphenol | 510 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 510 | U |
| 106-44-5 | 4-Methylphenol | 510 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 510 | U |
| 67-72-1 | Hexachloroethane | 510 | U |
| 98-95-3 | Nitrobenzene | 510 | U |
| 78-59-1 | Isophorone | 510 | U |
| 88-75-5 | 2-Nitrophenol | 510 | U |
| 105-67-9 | 2,4-Dimethylphenol | 510 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 510 | U |
| 120-83-2 | 2,4-Dichlorophenol | 510 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 510 | U |
| 91-20-3 | Naphthalene | 510 | U |
| 106-47-8 | 4-Chloroaniline | 510 | UJ |
| 87-68-3 | Hexachlorobutadiene | 510 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 510 | U |
| 91-57-6 | 2-Methylnaphthalene | 510 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 510 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 510 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 91-58-7 | 2-Chloronaphthalene | 510 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 510 | U |
| 208-96-8 | Acenaphthylene | 510 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 510 | U |
| 99-09-2 | 3-Nitroaniline | 1200 | U |
| 83-32-9 | Acenaphthene | 510 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E03

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1200 | U |
| 100-02-7 | 4-Nitrophenol | 1200 | U |
| 132-64-9 | Dibenzofuran | 510 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 510 | U |
| 84-66-2 | Diethylphthalate | 510 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 510 | U |
| 86-73-7 | Fluorene | 510 | U |
| 100-10-6 | 4-Nitroaniline | 1200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 510 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 510 | U |
| 118-74-1 | Hexachlorobenzene | 510 | U |
| 87-86-5 | Pentachlorophenol | 1200 | UJ |
| 85-01-8 | Phenanthrene | 510 | U |
| 120-12-7 | Anthracene | 510 | U |
| 86-74-8 | Carbazole | 510 | U |
| 84-74-2 | Di-n-Butylphthalate | 790 | ~~B~~U |
| 206-44-0 | Fluoranthene | 120 | J |
| 129-00-0 | Pyrene | 510 | U |
| 85-68-7 | Butylbenzylphthalate | 510 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 510 | U |
| 56-55-3 | Benzo(a)Anthracene | 510 | U |
| 218-01-9 | Chrysene | 510 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 510 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 510 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 510 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 510 | U |
| 50-32-8 | Benzo(a)Pyrene | 510 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 510 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 510 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 510 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E03

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 30

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.57 | 64000 | ~~JNBA~~U CB |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.42 | 920 | J |
| 3. | UNKNOWN | 10.88 | 410 | BJ |
| 4. | UNKNOWN | 11.05 | 2200 | BJ |
| 5. | UNKNOWN ALIP. KETONE | 11.45 | 1700 | AJ |
| 6. | UNKNOWN ALIP. KETONE | 11.73 | 1700 | BAJ |
| 7. | UNKNOWN ALIP. KETONE | 12.03 | 14000 | BAJ |
| 8. | UNKNOWN | 12.70 | 2000 | J |
| 9. | UNKNOWN | 13.63 | 4300 | J |
| 10. | UNKNOWN | 14.02 | 3200 | J |
| 11. | UNKNOWN ALIP. ALCOHOL | 14.27 | 990 | J |
| 12. 16890-91-8 | CYCLOHEXANE, 1,4-DICHLORO-, | 14.50 | 170 | JN |
| 13. | UNKNOWN | 17.77 | 200 | J |
| 14. | UNKNOWN ALIP. PHENOL | 18.53 | 270 | J |
| 15. | UNKNOWN ALIP. ACID | 27.75 | 440 | BJ |
| 16. | UNKNOWN ALIP. HYDROCARBON | 31.47 | 240 | J |
| 17. | UNKNOWN PCB | 32.12 | 110 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 32.45 | 290 | J |
| 19. | UNKNOWN | 33.42 | 910 | BJ |
| 20. | UNKNOWN | 34.17 | 210 | J |
| 21. | UNKNOWN ALIP. HYDROCARBON | 34.42 | 390 | J |
| 22. | UNKNOWN | 35.27 | 150 | J |
| 23. | UNKNOWN ALIP. HYDROCARBON | 35.57 | 630 | J |
| 24. | UNKNOWN | 36.53 | 500 | J |
| 25. | UNKNOWN ALIP. HYDROCARBON | 36.87 | 250 | J |
| 26. | UNKNOWN | 37.53 | 340 | BJ |
| 27. | UNKNOWN ALIP. HYDROCARBON | 38.42 | 940 | J |
| 28. | UNKNOWN | 38.57 | 230 | J |
| 29. | UNKNOWN | 40.28 | 210 | J |
| 30. | UNKNOWN ALIP. HYDROCARBON | 42.52 | 740 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1129E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 510 | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 510 | U | |
| 95-57-8 | 2-Chlorophenol | 510 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 510 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 510 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 510 | U | |
| 95-48-7 | 2-Methylphenol | 510 | U | |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 510 | U | |
| 106-44-5 | 4-Methylphenol | 510 | U | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 510 | U | |
| 67-72-1 | Hexachloroethane | 510 | U | |
| 98-95-3 | Nitrobenzene | 510 | U | |
| 78-59-1 | Isophorone | 510 | U | |
| 88-75-5 | 2-Nitrophenol | 510 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 510 | U | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 510 | U | |
| 120-83-2 | 2,4-Dichlorophenol | 510 | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 510 | U | |
| 91-20-3 | Naphthalene | 510 | U | |
| 106-47-8 | 4-Chloroaniline | 510 | UTR | CB |
| 87-68-3 | Hexachlorobutadiene | 510 | U | |
| 59-50-7 | 4-Chloro-3-Methylphenol | 510 | U | |
| 91-57-6 | 2-Methylnaphthalene | 510 | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 510 | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 510 | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U | |
| 91-58-7 | 2-Chloronaphthalene | 510 | U | |
| 88-74-4 | 2-Nitroaniline | 1200 | U | |
| 131-11-3 | Dimethylphthalate | 510 | U | |
| 208-96-8 | Acenaphthylene | 510 | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 510 | U | |
| 99-09-2 | 3-Nitroaniline | 1200 | UJ | CB |
| 83-32-9 | Acenaphthene | 510 | U | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1129E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1200 | U | |
| 100-02-7 | 4-Nitrophenol | 1200 | U | |
| 132-64-9 | Dibenzofuran | 510 | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 510 | U | |
| 84-66-2 | Diethylphthalate | 510 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 510 | U | |
| 86-73-7 | Fluorene | 510 | U | |
| 100-10-6 | 4-Nitroaniline | 1200 | UJ | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 510 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 510 | U | |
| 118-74-1 | Hexachlorobenzene | 510 | UJ | CB |
| 87-86-5 | Pentachlorophenol | 1200 | UJ | CB |
| 85-01-8 | Phenanthrene | 510 | U | |
| 120-12-7 | Anthracene | 510 | U | |
| 86-74-8 | Carbazole | 510 | U | |
| 84-74-2 | Di-n-Butylphthalate | 790 | BU | |
| 206-44-0 | Fluoranthene | 110 | J | |
| 129-00-0 | Pyrene | 510 | U | |
| 85-68-7 | Butylbenzylphthalate | 510 | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 510 | U | |
| 56-55-3 | Benzo(a)Anthracene | 510 | U | |
| 218-01-9 | Chrysene | 510 | U | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 510 | U | |
| 117-84-0 | Di-n-Octyl Phthalate | 510 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 510 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 510 | U | |
| 50-32-8 | Benzo(a)Pyrene | 510 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 510 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 510 | UJ | CB |
| 191-24-2 | Benzo(g,h,i)Perylene | 510 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1129E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 30

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.63 | 67000 | ~~JNBA~~ U |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.45 | 950 | J |
| 3. | UNKNOWN | 10.92 | 420 | BJ |
| 4. | UNKNOWN | 11.07 | 2300 | BJ |
| 5. | UNKNOWN ALIP. KETONE | 11.47 | 1800 | AJ |
| 6. | UNKNOWN ALIP. KETONE | 11.77 | 1800 | BAJ |
| 7. | UNKNOWN ALIP. KETONE | 12.05 | 14000 | BAJ |
| 8. | UNKNOWN | 12.73 | 2000 | J |
| 9. | UNKNOWN | 13.65 | 4500 | J |
| 10. | UNKNOWN | 14.03 | 3100 | J |
| 11. | UNKNOWN ALIP. ALCOHOL | 14.30 | 980 | J |
| 12. | UNKNOWN | 17.78 | 210 | J |
| 13. | UNKNOWN ALIP. PHENOL | 18.55 | 260 | J |
| 14. | UNKNOWN ALIP. HYDROCARBON | 24.62 | 210 | J |
| 15. | UNKNOWN ALIP. ACID | 27.77 | 470 | BJ |
| 16. | UNKNOWN ALIP. HYDROCARBON | 31.48 | 250 | J |
| 17. | UNKNOWN PCB | 32.13 | 110 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 32.48 | 350 | J |
| 19. | UNKNOWN ALIP. HYDROCARBON | 33.45 | 1000 | J |
| 20. | UNKNOWN ALIP. HYDROCARBON | 34.45 | 430 | J |
| 21. | UNKNOWN | 35.30 | 170 | J |
| 22. | UNKNOWN ALIP. HYDROCARBON | 35.60 | 730 | J |
| 23. | UNKNOWN | 36.58 | 600 | J |
| 24. | UNKNOWN ALIP. HYDROCARBON | 36.92 | 290 | J |
| 25. | UNKNOWN | 37.60 | 360 | BJ |
| 26. | UNKNOWN ALIP. HYDROCARBON | 38.48 | 1100 | J |
| 27. | UNKNOWN | 38.62 | 240 | J |
| 28. | UNKNOWN ALIP. HYDROCARBON | 40.35 | 240 | J |
| 29. | UNKNOWN ALIP. HYDROCARBON | 42.60 | 690 | J |
| 30. | UNKNOWN | 49.18 | 470 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470643

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 36 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.7 | U | |
| 319-85-7 | beta-BHC | 2.7 | U | |
| 319-86-8 | delta-BHC | 2.7 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 2.7 | U | |
| 76-44-8 | Heptachlor | 2.7 | U | |
| 309-00-2 | Aldrin | 2.7 | U | |
| 1024-57-3 | Heptachlor epoxide | 2.7 | U | |
| 959-98-8 | Endosulfan I | 2.7 | U | |
| 60-57-1 | Dieldrin | 18 | P | |
| 72-55-9 | 4,4'-DDE | 5.2 | U | |
| 72-20-8 | Endrin | 5.2 | U | |
| 33213-65-9 | Endosulfan II | 30 | P | |
| 50-29-3 | 4,4'-DDD | 5.2 | U | |
| 1031-07-8 | Endosulfan sulfate | 10 | P | |
| 50-29-3 | 4,4'-DDT | 3.2 | JP | |
| 72-43-5 | Methoxychlor | 27 | UJ | |
| 53494-70-5 | Endrin ketone | 2.6 | JP | |
| 7421-36-3 | Endrin aldehyde | 14 | PJ | |
| 5103-71-9 | alpha-Chlordane | 2.7 | U | |
| 5103-74-2 | gamma-Chlordane | 7.6 | P | |
| 8001-35-2 | Toxaphene | 270 | U | |
| 12674-11-2 | Aroclor-1016 | 310 | | |
| 11104-28-2 | Aroclor-1221 | 100 | U | |
| 11141-16-5 | Aroclor-1232 | 52 | U | |
| 53469-21-9 | Aroclor-1242 | 52 | U | |
| 12672-29-6 | Aroclor-1248 | 52 | U | |
| 11097-69-1 | Aroclor-1254 | 540 | | |
| 11096-82-5 | Aroclor-1260 | 700 | ~~J~~ | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 39 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 3 | J |
| 67-64-1 | Acetone | 35 | |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 ~~10~~ | ~~BJ~~ U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-88-3 | Toluene | 3 | J |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 39 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 540 | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 540 | U | |
| 95-57-8 | 2-Chlorophenol | 540 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 540 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 540 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 540 | U | |
| 95-48-7 | 2-Methylphenol | 540 | U | |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 540 | U | |
| 106-44-5 | 4-Methylphenol | 540 | U | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 540 | U | |
| 67-72-1 | Hexachloroethane | 540 | U | |
| 98-95-3 | Nitrobenzene | 540 | U | |
| 78-59-1 | Isophorone | 540 | U | |
| 88-75-5 | 2-Nitrophenol | 540 | U | |
| 105-67-9 | 2,4-Dimethylphenol | 540 | U | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 540 | U | |
| 120-83-2 | 2,4-Dichlorophenol | 540 | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 540 | U | |
| 91-20-3 | Naphthalene | 540 | U | |
| 106-47-8 | 4-Chloroaniline | 540 | UR | CB |
| 87-68-3 | Hexachlorobutadiene | 540 | U | |
| 59-50-7 | 4-Chloro-3-Methylphenol | 540 | U | |
| 91-57-6 | 2-Methylnaphthalene | 540 | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 540 | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 540 | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U | |
| 91-58-7 | 2-Chloronaphthalene | 540 | U | |
| 88-74-4 | 2-Nitroaniline | 1300 | U | |
| 131-11-3 | Dimethylphthalate | 540 | U | |
| 208-96-8 | Acenaphthylene | 540 | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 540 | U | |
| 99-09-2 | 3-Nitroaniline | 1300 | UJ | CB |
| 83-32-9 | Acenaphthene | 540 | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 540 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 540 | U |
| 84-66-2 | Diethylphthalate | 540 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 540 | U |
| 86-73-7 | Fluorene | 540 | U |
| 100-10-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 540 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 540 | U |
| 118-74-1 | Hexachlorobenzene | 540 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 540 | U |
| 120-12-7 | Anthracene | 540 | U |
| 86-74-8 | Carbazole | 540 | U |
| 84-74-2 | Di-n-Butylphthalate | 640 | ~~B~~ U |
| 206-44-0 | Fluoranthene | 170 | J |
| 129-00-0 | Pyrene | 140 | J |
| 85-68-7 | Butylbenzylphthalate | 540 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 540 | U |
| 56-55-3 | Benzo(a)Anthracene | 110 | J |
| 218-01-9 | Chrysene | 140 | J |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 130 | J |
| 117-84-0 | Di-n-Octyl Phthalate | 540 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 540 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 540 | U |
| 50-32-8 | Benzo(a)Pyrene | 540 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 540 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 540 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 540 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1121E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 27

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.62 | 57000 | ~~JNBA~~ U |
| 2. | UNKNOWN | 11.08 | 2600 | BJ |
| 3. 3377-86-4 | HEXANE, 2-BROMO- | 11.40 | 3400 | JN |
| 4. | UNKNOWN ALIP. KETONE | 11.47 | 690 | AJ |
| 5. | UNKNOWN ALIP. KETONE | 11.75 | 1400 | BAJ |
| 6. | UNKNOWN ALIP. KETONE | 12.02 | 5500 | BAJ |
| 7. | UNKNOWN | 12.73 | 4700 | J |
| 8. | UNKNOWN | 13.65 | 1700 | J |
| 9. | UNKNOWN | 14.05 | 4300 | J |
| 10. | UNKNOWN ALIP. HYDROCARBON | 32.50 | 180 | J |
| 11. | UNKNOWN | 33.45 | 1200 | BJ |
| 12. | UNKNOWN | 34.47 | 250 | J |
| 13. | UNKNOWN ALIP. HYDROCARBON | 35.60 | 1300 | J |
| 14. | UNKNOWN | 36.57 | 340 | J |
| 15. | UNKNOWN | 36.92 | 220 | J |
| 16. | UNKNOWN | 37.38 | 390 | J |
| 17. | UNKNOWN | 37.60 | 670 | BJ |
| 18. | UNKNOWN | 38.02 | 140 | J |
| 19. | UNKNOWN ALIP. HYDROCARBON | 38.48 | 2100 | J |
| 20. | UNKNOWN | 38.60 | 530 | J |
| 21. | UNKNOWN | 39.07 | 200 | J |
| 22. | UNKNOWN | 39.30 | 140 | J |
| 23. | UNKNOWN | 39.65 | 240 | J |
| 24. | UNKNOWN | 39.78 | 330 | J |
| 25. | UNKNOWN | 41.35 | 190 | J |
| 26. | UNKNOWN | 41.67 | 130 | J |
| 27. | UNKNOWN ALIP. HYDROCARBON | 42.58 | 2100 | J |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 540 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 540 | U |
| 95-57-8 | 2-Chlorophenol | 540 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 540 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 540 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 540 | U |
| 95-48-7 | 2-Methylphenol | 540 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 540 | U |
| 106-44-5 | 4-Methylphenol | 540 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 540 | U |
| 67-72-1 | Hexachloroethane | 540 | U |
| 98-95-3 | Nitrobenzene | 540 | U |
| 78-59-1 | Isophorone | 540 | U |
| 88-75-5 | 2-Nitrophenol | 540 | U |
| 105-67-9 | 2,4-Dimethylphenol | 540 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 540 | U |
| 120-83-2 | 2,4-Dichlorophenol | 540 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 540 | U |
| 91-20-3 | Naphthalene | 540 | U |
| 106-47-8 | 4-Chloroaniline | 540 | U |
| 87-68-3 | Hexachlorobutadiene | 540 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 540 | U |
| 91-57-6 | 2-Methylnaphthalene | 540 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 540 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 540 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 540 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 540 | U |
| 208-96-8 | Acenaphthylene | 540 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 540 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 540 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U | |
| 100-02-7 | 4-Nitrophenol | 1300 | U | |
| 132-64-9 | Dibenzofuran | 540 | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 540 | U | |
| 84-66-2 | Diethylphthalate | 540 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 540 | U | |
| 86-73-7 | Fluorene | 540 | U | |
| 100-10-6 | 4-Nitroaniline | 1300 | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 540 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 540 | U | |
| 118-74-1 | Hexachlorobenzene | 540 | U | |
| 87-86-5 | Pentachlorophenol | 1300 | UJ | CB |
| 85-01-8 | Phenanthrene | 540 | U | |
| 120-12-7 | Anthracene | 540 | U | |
| 86-74-8 | Carbazole | 540 | U | |
| 84-74-2 | Di-n-Butylphthalate | 620 | ~~B~~U | CB |
| 206-44-0 | Fluoranthene | 170 | J | |
| 129-00-0 | Pyrene | 110 | J | |
| 85-68-7 | Butylbenzylphthalate | 540 | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 540 | U | |
| 56-55-3 | Benzo(a)Anthracene | 540 | U | |
| 218-01-9 | Chrysene | 120 | J | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 540 | U | |
| 117-84-0 | Di-n-Octyl Phthalate | 540 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 120 | J | |
| 207-08-9 | Benzo(k)Fluoranthene | 540 | U | |
| 50-32-8 | Benzo(a)Pyrene | 540 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 540 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 540 | U | |
| 191-24-2 | Benzo(g,h,i)Perylene | 540 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X202RE

.b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E11

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 25

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.60 | 65000 | ~~JNBA~~ U |
| 2. | UNKNOWN | 11.05 | 2700 | BJ |
| 3. 3377-86-4 | HEXANE, 2-BROMO- | 11.37 | 3300 | JN |
| 4. | UNKNOWN ALIP. KETONE | 11.45 | 730 | AJ |
| 5. | UNKNOWN ALIP. KETONE | 11.73 | 1400 | BAJ |
| 6. | UNKNOWN ALIP. KETONE | 11.98 | 5600 | BAJ |
| 7. | UNKNOWN | 12.72 | 4800 | J |
| 8. | UNKNOWN | 13.62 | 1700 | J |
| 9. | UNKNOWN | 14.02 | 4000 | J |
| 10. | UNKNOWN | 33.42 | 930 | BJ |
| 11. | UNKNOWN ALIP. HYDROCARBON | 34.43 | 240 | J |
| 12. | UNKNOWN ALIP. HYDROCARBON | 35.57 | 1000 | J |
| 13. | UNKNOWN | 36.52 | 180 | J |
| 14. | UNKNOWN ALIP. HYDROCARBON | 36.88 | 220 | J |
| 15. | UNKNOWN | 37.35 | 340 | J |
| 16. | UNKNOWN | 37.57 | 670 | BJ |
| 17. | UNKNOWN | 37.98 | 190 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 38.45 | 2900 | J |
| 19. | UNKNOWN | 38.58 | 680 | J |
| 20. | UNKNOWN | 39.05 | 190 | J |
| 21. | UNKNOWN | 39.23 | 120 | J |
| 22. | UNKNOWN | 39.75 | 340 | J |
| 23. | UNKNOWN | 40.30 | 230 | J |
| 24. | UNKNOWN | 41.33 | 230 | J |
| 25. | UNKNOWN ALIP. HYDROCARBON | 42.57 | 2000 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

b Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470644

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 39 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.8 | U | |
| 319-85-7 | beta-BHC | 2.8 | U | |
| 319-86-8 | delta-BHC | 2.8 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 2.8 | U | |
| 76-44-8 | Heptachlor | 2.8 | U | |
| 309-00-2 | Aldrin | 2.8 | U | |
| 1024-57-3 | Heptachlor epoxide | 2.8 | U | |
| 959-98-8 | Endosulfan I | 2.8 | U | |
| 60-57-1 | Dieldrin | 14 | P | |
| 72-55-9 | 4,4'-DDE | 5.3 | U | |
| 72-20-8 | Endrin | 5.3 | U | |
| 33213-65-9 | Endosulfan II | 18 | | |
| 50-29-3 | 4,4'-DDD | 5.3 | U | |
| 1031-07-8 | Endosulfan sulfate | 5.6 | | |
| 50-29-3 | 4,4'-DDT | 8.4 | P | |
| 72-43-5 | Methoxychlor | 28 | UJ | CB |
| 53494-70-5 | Endrin ketone | 6.6 | P | |
| 7421-36-3 | Endrin aldehyde | 11 | PJ | CB |
| 5103-71-9 | alpha-Chlordane | 2.8 | U | |
| 5103-74-2 | gamma-Chlordane | 6.3 | P | |
| 8001-35-2 | Toxaphene | 280 | U | |
| 12674-11-2 | Aroclor-1016 | 270 | P | |
| 11104-28-2 | Aroclor-1221 | 110 | U | |
| 11141-16-5 | Aroclor-1232 | 53 | U | |
| 53469-21-9 | Aroclor-1242 | 53 | U | |
| 12672-29-6 | Aroclor-1248 | 53 | U | |
| 11097-69-1 | Aroclor-1254 | 580 | | |
| 11096-82-5 | Aroclor-1260 | 390 | ~~P~~ | CB |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 39 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 35 | |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 ~~11~~ | ~~BJ~~ U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK12

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 39 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 540 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 540 | U |
| 95-57-8 | 2-Chlorophenol | 540 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 540 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 540 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 540 | U |
| 95-48-7 | 2-Methylphenol | 540 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 540 | U |
| 106-44-5 | 4-Methylphenol | 540 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 540 | U |
| 67-72-1 | Hexachloroethane | 540 | U |
| 98-95-3 | Nitrobenzene | 540 | U |
| 78-59-1 | Isophorone | 540 | U |
| 88-75-5 | 2-Nitrophenol | 540 | U |
| 105-67-9 | 2,4-Dimethylphenol | 540 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 540 | U |
| 120-83-2 | 2,4-Dichlorophenol | 540 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 540 | U |
| 91-20-3 | Naphthalene | 540 | U |
| 106-47-8 | 4-Chloroaniline | 540 | UJ |
| 87-68-3 | Hexachlorobutadiene | 540 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 540 | U |
| 91-57-6 | 2-Methylnaphthalene | 540 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 540 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 540 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 540 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 540 | U |
| 208-96-8 | Acenaphthylene | 540 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 540 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 540 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U | |
| 100-02-7 | 4-Nitrophenol | 1300 | U | |
| 132-64-9 | Dibenzofuran | 540 | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 540 | U | |
| 84-66-2 | Diethylphthalate | 540 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 540 | U | |
| 86-73-7 | Fluorene | 540 | U | |
| 100-10-6 | 4-Nitroaniline | 1300 | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 540 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 540 | U | |
| 118-74-1 | Hexachlorobenzene | 540 | U | |
| 87-86-5 | Pentachlorophenol | 1300 | UJ | CB |
| 85-01-8 | Phenanthrene | 110 | J | |
| 120-12-7 | Anthracene | 540 | U | |
| 86-74-8 | Carbazole | 540 | U | |
| 84-74-2 | Di-n-Butylphthalate | 610 | ~~B~~ U | CB |
| 206-44-0 | Fluoranthene | 170 | J | |
| 129-00-0 | Pyrene | 120 | J | |
| 85-68-7 | Butylbenzylphthalate | 540 | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 540 | U | |
| 56-55-3 | Benzo(a)Anthracene | 540 | U | |
| 218-01-9 | Chrysene | 120 | J | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 540 | U | |
| 117-84-0 | Di-n-Octyl Phthalate | 540 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 120 | J | |
| 207-08-9 | Benzo(k)Fluoranthene | 540 | U | |
| 50-32-8 | Benzo(a)Pyrene | 540 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 540 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 540 | U | |
| 191-24-2 | Benzo(g,h,i)Perylene | 540 | U | |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E04

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 29

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.58 | 72000 | ~~JNBA~~ U CB |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.42 | 380 | J |
| 3. | UNKNOWN | 11.05 | 2900 | BJ |
| 4. 3377-86-4 | HEXANE, 2-BROMO- | 11.37 | 3200 | JN |
| 5. | UNKNOWN ALIP. KETONE | 11.45 | 660 | AJ |
| 6. | UNKNOWN ALIP. KETONE | 11.73 | 1500 | BAJ |
| 7. | UNKNOWN ALIP. KETONE | 11.98 | 4900 | BAJ |
| 8. | UNKNOWN | 12.72 | 6000 | J |
| 9. | UNKNOWN | 13.62 | 1600 | J |
| 10. | UNKNOWN | 14.02 | 4400 | J |
| 11. | UNKNOWN ALIP. ACID | 27.75 | 980 | BJ |
| 12. | UNKNOWN ALIP. HYDROCARBON | 31.47 | 160 | J |
| 13. | UNKNOWN | 32.48 | 160 | J |
| 14. | UNKNOWN | 33.43 | 1000 | BJ |
| 15. | UNKNOWN | 34.43 | 300 | J |
| 16. | UNKNOWN ALIP. HYDROCARBON | 35.58 | 980 | J |
| 17. | UNKNOWN ALIP. HYDROCARBON | 36.88 | 290 | J |
| 18. | UNKNOWN | 37.37 | 360 | J |
| 19. | UNKNOWN | 37.57 | 390 | BJ |
| 20. | UNKNOWN | 38.33 | 200 | J |
| 21. | UNKNOWN ALIP. HYDROCARBON | 38.45 | 3500 | J |
| 22. | UNKNOWN | 38.60 | 380 | J |
| 23. | UNKNOWN | 40.32 | 250 | J |
| 24. | UNKNOWN | 41.35 | 170 | J |
| 25. | UNKNOWN ALIP. HYDROCARBON | 42.58 | 3700 | J |
| 26. | UNKNOWN | 42.82 | 450 | J |
| 27. | UNKNOWN | 43.80 | 400 | J |
| 28. | UNKNOWN | 46.12 | 250 | J |
| 29. | UNKNOWN ALIP. HYDROCARBON | 48.62 | 570 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1129E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 540 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 540 | U |
| 95-57-8 | 2-Chlorophenol | 540 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 540 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 540 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 540 | U |
| 95-48-7 | 2-Methylphenol | 540 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 540 | U |
| 106-44-5 | 4-Methylphenol | 540 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 540 | U |
| 67-72-1 | Hexachloroethane | 540 | U |
| 98-95-3 | Nitrobenzene | 540 | U |
| 78-59-1 | Isophorone | 540 | U |
| 88-75-5 | 2-Nitrophenol | 540 | U |
| 105-67-9 | 2,4-Dimethylphenol | 540 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 540 | U |
| 120-83-2 | 2,4-Dichlorophenol | 540 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 540 | U |
| 91-20-3 | Naphthalene | 540 | U |
| 106-47-8 | 4-Chloroaniline | 540 | U ~~J~~ R CB |
| 87-68-3 | Hexachlorobutadiene | 540 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 540 | U |
| 91-57-6 | 2-Methylnaphthalene | 540 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 540 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 540 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 540 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 540 | U |
| 208-96-8 | Acenaphthylene | 540 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 540 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | UJ CB |
| 83-32-9 | Acenaphthene | 540 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1129E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U | |
| 100-02-7 | 4-Nitrophenol | 1300 | U | |
| 132-64-9 | Dibenzofuran | 540 | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 540 | U | |
| 84-66-2 | Diethylphthalate | 540 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 540 | U | |
| 86-73-7 | Fluorene | 540 | U | |
| 100-10-6 | 4-Nitroaniline | 1300 | UJ | CB |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 540 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 540 | U | |
| 118-74-1 | Hexachlorobenzene | 540 | UJ | CB |
| 87-86-5 | Pentachlorophenol | 1300 | UJ | CB |
| 85-01-8 | Phenanthrene | 110 | J | |
| 120-12-7 | Anthracene | 540 | U | |
| 86-74-8 | Carbazole | 540 | U | |
| 84-74-2 | Di-n-Butylphthalate | 610 | ~~B~~U | CB |
| 206-44-0 | Fluoranthene | 160 | J | |
| 129-00-0 | Pyrene | 120 | J | |
| 85-68-7 | Butylbenzylphthalate | 540 | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 540 | U | |
| 56-55-3 | Benzo(a)Anthracene | 540 | U | |
| 218-01-9 | Chrysene | 540 | U | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 540 | U | |
| 117-84-0 | Di-n-Octyl Phthalate | 540 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 540 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 540 | U | |
| 50-32-8 | Benzo(a)Pyrene | 540 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 540 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 540 | UJ | CB |
| 191-24-2 | Benzo(g,h,i)Perylene | 540 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X203RE

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1129E10

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 30

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.60 | 80000 | ~~JNBA~~U |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.43 | 380 | J |
| 3. | UNKNOWN | 11.05 | 2900 | BJ |
| 4. 3377-86-4 | HEXANE, 2-BROMO- | 11.37 | 2600 | JN |
| 5. | UNKNOWN ALIP. KETONE | 11.47 | 680 | AJ |
| 6. | UNKNOWN ALIP. KETONE | 11.73 | 1600 | BAJ |
| 7. | UNKNOWN ALIP. KETONE | 11.98 | 5000 | BAJ |
| 8. | UNKNOWN | 12.73 | 6000 | J |
| 9. | UNKNOWN | 13.63 | 1600 | J |
| 10. | UNKNOWN | 14.02 | 4200 | J |
| 11. | UNKNOWN ALIP. ALCOHOL | 14.28 | 250 | J |
| 12. | UNKNOWN | 16.75 | 370 | J |
| 13. | UNKNOWN ALIP. ACID | 27.77 | 810 | BJ |
| 14. | UNKNOWN ALIP. HYDROCARBON | 31.48 | 150 | J |
| 15. | UNKNOWN ALIP. HYDROCARBON | 32.48 | 180 | J |
| 16. | UNKNOWN | 33.45 | 1000 | J |
| 17. | UNKNOWN ALIP. HYDROCARBON | 34.45 | 300 | J |
| 18. | UNKNOWN ALIP. HYDROCARBON | 35.60 | 1100 | J |
| 19. | UNKNOWN ALIP. HYDROCARBON | 36.92 | 340 | J |
| 20. | UNKNOWN | 37.38 | 430 | J |
| 21. | UNKNOWN | 37.60 | 380 | BJ |
| 22. | UNKNOWN | 38.35 | 270 | J |
| 23. | UNKNOWN ALIP. HYDROCARBON | 38.48 | 3800 | J |
| 24. | UNKNOWN | 38.62 | 480 | J |
| 25. | UNKNOWN | 39.07 | 150 | J |
| 26. | UNKNOWN | 40.35 | 290 | J |
| 27. | UNKNOWN | 41.37 | 190 | J |
| 28. | UNKNOWN ALIP. HYDROCARBON | 42.62 | 3900 | J |
| 29. | UNKNOWN | 42.87 | 370 | J |
| 30. | UNKNOWN | 43.87 | 520 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 39 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.50 | JP |
| 319-85-7 | beta-BHC | 2.8 | U |
| 319-86-8 | delta-BHC | 2.8 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.8 | U |
| 76-44-8 | Heptachlor | 2.8 | U |
| 309-00-2 | Aldrin | 2.8 | U |
| 1024-57-3 | Heptachlor epoxide | 2.8 | U |
| 959-98-8 | Endosulfan I | 2.8 | U |
| 60-57-1 | Dieldrin | 25 | P |
| 72-55-9 | 4,4'-DDE | 5.3 | U |
| 72-20-8 | Endrin | 5.3 | U |
| 33213-65-9 | Endosulfan II | 5.3 | U |
| 50-29-3 | 4,4'-DDD | 5.3 | U |
| 1031-07-8 | Endosulfan sulfate | 4.3 | JP |
| 50-29-3 | 4,4'-DDT | 5.3 | U |
| 72-43-5 | Methoxychlor | 28 | UJ |
| 53494-70-5 | Endrin ketone | 16 | P |
| 7421-36-3 | Endrin aldehyde | 14 | P |
| 5103-71-9 | alpha-Chlordane | 2.8 | U |
| 5103-74-2 | gamma-Chlordane | 16 | P |
| 8001-35-2 | Toxaphene | 280 | U |
| 12674-11-2 | Aroclor-1016 | 53 | U |
| 11104-28-2 | Aroclor-1221 | 110 | U |
| 11141-16-5 | Aroclor-1232 | 53 | U |
| 53469-21-9 | Aroclor-1242 | 53 | U |
| 12672-29-6 | Aroclor-1248 | 53 | U |
| 11097-69-1 | Aroclor-1254 | 1100 | |
| 11096-82-5 | Aroclor-1260 | 480 | ~~P~~ |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203DL

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470645D

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 39 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 28 | U | |
| 319-85-7 | beta-BHC | 28 | U | |
| 319-86-8 | delta-BHC | 28 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 28 | U | |
| 76-44-8 | Heptachlor | 28 | U | |
| 309-00-2 | Aldrin | 28 | U | |
| 1024-57-3 | Heptachlor epoxide | 28 | U | |
| 959-98-8 | Endosulfan I | 28 | U | |
| 60-57-1 | Dieldrin | 53 | U | |
| 72-55-9 | 4,4'-DDE | 53 | U | |
| 72-20-8 | Endrin | 53 | U | |
| 33213-65-9 | Endosulfan II | 25 | DJ | |
| 50-29-3 | 4,4'-DDD | 53 | U | |
| 1031-07-8 | Endosulfan sulfate | 4.9 | JPD | |
| 50-29-3 | 4,4'-DDT | 53 | U | |
| 72-43-5 | Methoxychlor | 280 | UJ | es |
| 53494-70-5 | Endrin ketone | 24 | JPD | |
| 7421-36-3 | Endrin aldehyde | 14 | JPD | |
| 5103-71-9 | alpha-Chlordane | 28 | U | |
| 5103-74-2 | gamma-Chlordane | 19 | JPD | |
| 8001-35-2 | Toxaphene | 2800 | U | |
| 12674-11-2 | Aroclor-1016 | 530 | U | |
| 11104-28-2 | Aroclor-1221 | 1100 | U | |
| 11141-16-5 | Aroclor-1232 | 530 | U | |
| 53469-21-9 | Aroclor-1242 | 530 | U | |
| 12672-29-6 | Aroclor-1248 | 530 | U | |
| 11097-69-1 | Aroclor-1254 | 1400 | D | |
| 11096-82-5 | Aroclor-1260 | 680 | ~~B~~D | CB |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470646

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK13

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 19 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 75-09-2 | Methylene Chloride | 5 | J |
| 67-64-1 | Acetone | 7 | J |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 12 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U |
| 67-66-3 | Chloroform | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5 | Carbon Tetrachloride | 12 | U |
| 75-27-4 | Bromodichloromethane | 12 | U |
| 78-87-5 | 1,2-Dichloropropane | 12 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U |
| 79-01-6 | Trichloroethene | 12 | U |
| 124-48-1 | Dibromochloromethane | 12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U |
| 71-43-2 | Benzene | 12 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 75-25-2 | Bromoform | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 127-18-4 | Tetrachloroethene | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U |
| 108-88-3 | Toluene | 12 | U |
| 108-90-7 | Chlorobenzene | 12 | U |
| 100-41-4 | Ethylbenzene | 12 | U |
| 100-42-5 | Styrene | 12 | U |
| 1330-20-7 | Xylene (total) | 12 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X204

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470646

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1118BK13

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 19 Date Analyzed: 11/18/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470646

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 400 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 400 | U |
| 95-57-8 | 2-Chlorophenol | 400 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 400 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 400 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 400 | U |
| 95-48-7 | 2-Methylphenol | 400 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 400 | U |
| 106-44-5 | 4-Methylphenol | 400 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 400 | U |
| 67-72-1 | Hexachloroethane | 400 | U |
| 98-95-3 | Nitrobenzene | 400 | U |
| 78-59-1 | Isophorone | 400 | U |
| 88-75-5 | 2-Nitrophenol | 400 | U |
| 105-67-9 | 2,4-Dimethylphenol | 400 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 400 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400 | U |
| 91-20-3 | Naphthalene | 400 | U |
| 106-47-8 | 4-Chloroaniline | 400 | UJ |
| 87-68-3 | Hexachlorobutadiene | 400 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | 400 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 980 | U |
| 91-58-7 | 2-Chloronaphthalene | 400 | U |
| 88-74-4 | 2-Nitroaniline | 980 | U |
| 131-11-3 | Dimethylphthalate | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 400 | U |
| 99-09-2 | 3-Nitroaniline | 980 | U |
| 83-32-9 | Acenaphthene | 400 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470646

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 980 | U | |
| 100-02-7 | 4-Nitrophenol | 980 | U | |
| 132-64-9 | Dibenzofuran | 400 | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 400 | U | |
| 84-66-2 | Diethylphthalate | 400 | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 400 | U | |
| 86-73-7 | Fluorene | 400 | U | |
| 100-10-6 | 4-Nitroaniline | 980 | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 980 | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 400 | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 400 | U | |
| 118-74-1 | Hexachlorobenzene | 400 | U | |
| 87-86-5 | Pentachlorophenol | 980 | UJ | |
| 85-01-8 | Phenanthrene | 400 | U | |
| 120-12-7 | Anthracene | 400 | U | |
| 86-74-8 | Carbazole | 400 | U | |
| 84-74-2 | Di-n-Butylphthalate | 500 | ~~B~~U | |
| 206-44-0 | Fluoranthene | 400 | U | |
| 129-00-0 | Pyrene | 400 | U | |
| 85-68-7 | Butylbenzylphthalate | 400 | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 400 | U | |
| 56-55-3 | Benzo(a)Anthracene | 400 | U | |
| 218-01-9 | Chrysene | 400 | U | |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 400 | U | |
| 117-84-0 | Di-n-Octyl Phthalate | 400 | U | |
| 205-99-2 | Benzo(b)Fluoranthene | 400 | U | |
| 207-08-9 | Benzo(k)Fluoranthene | 400 | U | |
| 50-32-8 | Benzo(a)Pyrene | 400 | U | |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 400 | U | |
| 53-70-3 | Dibenz(a,h)Anthracene | 400 | U | |
| 191-24-2 | Benzo(g,h,i)Perylene | 400 | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470646

Sample wt/vol: 30.30 (g/mL) G Lab File ID: B1122E08

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 18

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.70 | 58000 | ~~JNBA~~ U CB |
| 2. | UNKNOWN ALIP. ALCOHOL | 10.45 | 290 | J |
| 3. | UNKNOWN | 10.92 | 190 | BJ |
| 4. | UNKNOWN | 11.08 | 2800 | BJ |
| 5. 3377-86-4 | HEXANE, 2-BROMO- | 11.38 | 2400 | JN |
| 6. | UNKNOWN ALIP. KETONE | 11.47 | 500 | AJ |
| 7. | UNKNOWN ALIP. KETONE | 11.75 | 2200 | BAJ |
| 8. | UNKNOWN ALIP. KETONE | 12.00 | 4200 | BAJ |
| 9. | UNKNOWN | 12.73 | 4200 | J |
| 10. | UNKNOWN | 13.63 | 1300 | J |
| 11. | UNKNOWN | 14.08 | 7800 | J |
| 12. | UNKNOWN ALIP. ALCOHOL | 14.30 | 160 | J |
| 13. | UNKNOWN | 16.73 | 480 | J |
| 14. | UNKNOWN ALIP. HYDROCARBON | 24.52 | 190 | J |
| 15. | UNKNOWN ALIP. ACID | 27.75 | 270 | BJ |
| 16. | UNKNOWN | 33.42 | 440 | BJ |
| 17. | UNKNOWN | 37.57 | 260 | BJ |
| 18. | UNKNOWN ALIP. HYDROCARBON | 38.43 | 310 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470646

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.1 | U | |
| 319-85-7 | beta-BHC | 2.1 | U | |
| 319-86-8 | delta-BHC | 2.1 | U | |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | |
| 76-44-8 | Heptachlor | 2.1 | U | |
| 309-00-2 | Aldrin | 2.1 | U | |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | |
| 959-98-8 | Endosulfan I | 2.1 | U | |
| 60-57-1 | Dieldrin | 4.0 | U | |
| 72-55-9 | 4,4'-DDE | 4.0 | U | |
| 72-20-8 | Endrin | 4.0 | U | |
| 33213-65-9 | Endosulfan II | 4.0 | U | |
| 50-29-3 | 4,4'-DDD | 4.0 | U | |
| 1031-07-8 | Endosulfan sulfate | 4.0 | U | |
| 50-29-3 | 4,4'-DDT | 4.0 | U | |
| 72-43-5 | Methoxychlor | 21 | UJ | CB |
| 53494-70-5 | Endrin ketone | 4.0 | U | |
| 7421-36-3 | Endrin aldehyde | 4.0 | UJ | CB |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | |
| 5103-74-2 | gamma-Chlordane | 0.46 | JP | |
| 8001-35-2 | Toxaphene | 210 | U | |
| 12674-11-2 | Aroclor-1016 | 40 | U | |
| 11104-28-2 | Aroclor-1221 | 82 | U | |
| 11141-16-5 | Aroclor-1232 | 40 | U | |
| 53469-21-9 | Aroclor-1242 | 40 | U | |
| 12672-29-6 | Aroclor-1248 | 40 | U | |
| 11097-69-1 | Aroclor-1254 | 43 | P | |
| 11096-82-5 | Aroclor-1260 | 22 | ~~P~~JP | CB |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 20 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | UJ | CB |
| 74-83-9 | Bromomethane | 12 | U | |
| 75-01-4 | Vinyl Chloride | 12 | U | |
| 75-00-3 | Chloroethane | 12 | UJ | CB |
| 75-09-2 | Methylene Chloride | 12 ~~11~~ | ~~BJ~~ U | CB |
| 67-64-1 | Acetone | 12 | J | |
| 75-15-0 | Carbon Disulfide | 12 | U | |
| 75-35-4 | 1,1-Dichloroethene | 12 | U | |
| 75-34-3 | 1,1-Dichloroethane | 12 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U | |
| 67-66-3 | Chloroform | 12 | U | |
| 107-06-2 | 1,2-Dichloroethane | 12 | U | |
| 78-93-3 | 2-Butanone | 9 | J | |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U | |
| 56-23-5 | Carbon Tetrachloride | 12 | U | |
| 75-27-4 | Bromodichloromethane | 12 | U | |
| 78-87-5 | 1,2-Dichloropropane | 12 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U | |
| 79-01-6 | Trichloroethene | 12 | U | |
| 124-48-1 | Dibromochloromethane | 12 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U | |
| 71-43-2 | Benzene | 12 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U | |
| 75-25-2 | Bromoform | 12 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U | |
| 591-78-6 | 2-Hexanone | 12 | UJ | CB |
| 127-18-4 | Tetrachloroethene | 12 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U | |
| 108-88-3 | Toluene | 12 | U | |
| 108-90-7 | Chlorobenzene | 12 | U | |
| 100-41-4 | Ethylbenzene | 12 | U | |
| 100-42-5 | Styrene | 12 | U | |
| 1330-20-7 | Xylene (total) | 12 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X205

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 20 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205RE

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK15

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 20 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | UJ | CB |
| 74-83-9 | Bromomethane | 12 | U | |
| 75-01-4 | Vinyl Chloride | 12 | U | |
| 75-00-3 | Chloroethane | 12 | UJ | CB |
| 75-09-2 | Methylene Chloride | 12 ~~X~~ | ~~B~~U | CB |
| 67-64-1 | Acetone | 9 | J | |
| 75-15-0 | Carbon Disulfide | 12 | U | |
| 75-35-4 | 1,1-Dichloroethene | 12 | U | |
| 75-34-3 | 1,1-Dichloroethane | 12 | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U | |
| 67-66-3 | Chloroform | 12 | U | |
| 107-06-2 | 1,2-Dichloroethane | 12 | U | |
| 78-93-3 | 2-Butanone | 4 | J | |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U | |
| 56-23-5 | Carbon Tetrachloride | 12 | U | |
| 75-27-4 | Bromodichloromethane | 12 | U | |
| 78-87-5 | 1,2-Dichloropropane | 12 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U | |
| 79-01-6 | Trichloroethene | 12 | U | |
| 124-48-1 | Dibromochloromethane | 12 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U | |
| 71-43-2 | Benzene | 12 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U | |
| 75-25-2 | Bromoform | 12 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U | |
| 591-78-6 | 2-Hexanone | 12 | UJ | CB |
| 127-18-4 | Tetrachloroethene | 12 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U | |
| 108-88-3 | Toluene | 12 | U | |
| 108-90-7 | Chlorobenzene | 12 | U | |
| 100-41-4 | Ethylbenzene | 12 | U | |
| 100-42-5 | Styrene | 12 | U | |
| 1330-20-7 | Xylene (total) | 12 | U | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X205RE

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C1121BK15

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: not dec. 20 Date Analyzed: 11/21/94

GC Column: DB-624 ID: 0.530 (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/KG

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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 410 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 410 | U |
| 95-57-8 | 2-Chlorophenol | 410 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 410 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 410 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 410 | U |
| 95-48-7 | 2-Methylphenol | 410 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 410 | U |
| 106-44-5 | 4-Methylphenol | 410 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 410 | U |
| 67-72-1 | Hexachloroethane | 410 | U |
| 98-95-3 | Nitrobenzene | 410 | U |
| 78-59-1 | Isophorone | 410 | U |
| 88-75-5 | 2-Nitrophenol | 410 | U |
| 105-67-9 | 2,4-Dimethylphenol | 410 | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 410 | U |
| 120-83-2 | 2,4-Dichlorophenol | 410 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 410 | U |
| 91-20-3 | Naphthalene | 410 | U |
| 106-47-8 | 4-Chloroaniline | 410 | UJ |
| 87-68-3 | Hexachlorobutadiene | 410 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 410 | U |
| 91-57-6 | 2-Methylnaphthalene | 410 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 410 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 410 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 990 | U |
| 91-58-7 | 2-Chloronaphthalene | 410 | U |
| 88-74-4 | 2-Nitroaniline | 990 | U |
| 131-11-3 | Dimethylphthalate | 410 | U |
| 208-96-8 | Acenaphthylene | 410 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 410 | U |
| 99-09-2 | 3-Nitroaniline | 990 | U |
| 83-32-9 | Acenaphthene | 410 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

ab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 990 | U |
| 100-02-7 | 4-Nitrophenol | 990 | U |
| 132-64-9 | Dibenzofuran | 410 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 410 | U |
| 84-66-2 | Diethylphthalate | 410 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 410 | U |
| 86-73-7 | Fluorene | 410 | U |
| 100-10-6 | 4-Nitroaniline | 990 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 990 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 410 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 410 | U |
| 118-74-1 | Hexachlorobenzene | 410 | U |
| 87-86-5 | Pentachlorophenol | 990 | UNJ |
| 85-01-8 | Phenanthrene | 410 | U |
| 120-12-7 | Anthracene | 410 | U |
| 86-74-8 | Carbazole | 410 | U |
| 84-74-2 | Di-n-Butylphthalate | 420 | BU |
| 206-44-0 | Fluoranthene | 410 | U |
| 129-00-0 | Pyrene | 410 | U |
| 85-68-7 | Butylbenzylphthalate | 410 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 410 | U |
| 56-55-3 | Benzo(a)Anthracene | 410 | U |
| 218-01-9 | Chrysene | 410 | U |
| 117-81-7 | bis(2-Ethylhexyl)Phthalate | 410 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 410 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 410 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 410 | U |
| 50-32-8 | Benzo(a)Pyrene | 410 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 410 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 410 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 410 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B1122E09

Level: (low/med) LOW Date Received: 11/16/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/17/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 16

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 123-42-2 | 2PENTANONE, 4HYDROXY-4METHYL | 9.68 | 53000 | ~~JNBA~~ U |
| 2. | UNKNOWN | 11.08 | 2500 | BJ |
| 3. 3377-86-4 | HEXANE, 2-BROMO- | 11.40 | 3500 | JN |
| 4. | UNKNOWN ALIP. KETONE | 11.77 | 2100 | BAJ |
| 5. | UNKNOWN ALIP. KETONE | 11.98 | 570 | BAJ |
| 6. | UNKNOWN | 12.17 | 250 | J |
| 7. | UNKNOWN | 12.73 | 4600 | J |
| 8. | UNKNOWN | 13.65 | 150 | J |
| 9. | UNKNOWN | 14.07 | 5000 | J |
| 10. | UNKNOWN | 16.75 | 420 | J |
| 11. | UNKNOWN | 17.73 | 190 | J |
| 12. | UNKNOWN ALIP. HYDROCARBON | 24.53 | 140 | J |
| 13. | UNKNOWN ALIP. ACID | 27.77 | 190 | BJ |
| 14. | UNKNOWN | 33.45 | 280 | BJ |
| 15. | UNKNOWN | 37.57 | 91 | BJ |
| 16. | UNKNOWN ALIP. HYDROCARBON | 38.45 | 360 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1190000000

Lab Code: SPFLD Case No.: GIBRAL SAS No.: _____ SDG No.: 470640

Matrix: (soil/water) SOIL Lab Sample ID: D470647

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 11/16/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/17/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.1 | U |
| 319-85-7 | beta-BHC | 2.1 | U |
| 319-86-8 | delta-BHC | 2.1 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U |
| 76-44-8 | Heptachlor | 2.1 | U |
| 309-00-2 | Aldrin | 2.1 | U |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U |
| 959-98-8 | Endosulfan I | 2.1 | U |
| 60-57-1 | Dieldrin | 0.99 | JP |
| 72-55-9 | 4,4'-DDE | 4.1 | U |
| 72-20-8 | Endrin | 0.94 | JP |
| 33213-65-9 | Endosulfan II | 4.1 | U |
| 50-29-3 | 4,4'-DDD | 4.1 | U |
| 1031-07-8 | Endosulfan sulfate | 4.1 | U |
| 50-29-3 | 4,4'-DDT | 4.1 | U |
| 72-43-5 | Methoxychlor | 20.5 ~~0.66~~ | ~~BJR~~ UJ CB |
| 53494-70-5 | Endrin ketone | 4.1 | U |
| 7421-36-3 | Endrin aldehyde | 4.1 | UJ CB |
| 5103-71-9 | alpha-Chlordane | 2.1 | U |
| 5103-74-2 | gamma-Chlordane | 0.55 | JP |
| 8001-35-2 | Toxaphene | 210 | U |
| 12674-11-2 | Aroclor-1016 | 40 | J |
| 11104-28-2 | Aroclor-1221 | 83 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 41 | U |
| 11097-69-1 | Aroclor-1254 | 49 | P |
| 11096-82-5 | Aroclor-1260 | 23 | ~~B~~JP CB |