State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
(217) 782-6760

2200 Churchill Road, Springfield, IL 62794-9276

November 10, 1994

EPA Region 5 Records Ctr.
211113

Roger C. Threde
Carus Chemical Company
1500 Eighth Street
LaSalle, IL 61301

Re: L0998160003 -- LaSalle County
LaSalle/Carus Chemical Company
Superfund/Technical Reports

Dear Mr. Threde,

Per our conversation on the 2nd, I've enclosed information on clean fill and the sample results of the three samples collected at your facility. According to the Site Assessment Unit, only the samples collected at your facility can be given to you until the report is approved by USEPA.

Please call if you have any questions.

Sincerely,

Timothy J. Murphy

Timothy J. Murphy
Project Manager, Remedial Project Management Section, Bureau of Land

TJM:tjm carusinq.smp

Enclosures

CC:

Ms. Nandra Weeks, P.E.
GeoSyntec Consultants
621 N.W. 53rd St., Suite 650
Boca Raton, FL 33487

Mark R. Sargis
Mauck, Bellande, Baker & O'Connell
19 South LaSalle Street, Suite 1203
Chicago, IL 60603

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SCREENED
BF

characteristically formed from the breakdown of natural materials such as corn starch.

Section 3.69

"Compost" is defined as the humus-like product of the process of composting waste, which may be used as a soil conditioner.

Section 3.70

"Composting" means the biological treatment process by which microorganisms decompose the organic fraction of waste, producing compost.

Section 3.71

"Pesticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest or any substance or mixture of substances intended for use as a plant regulator, defoliant or desiccant.

Section 3.72

"Label" means the written, printed or graphic matter on or attached to the pesticide or device or any of its containers or wrappings.

Section 3.73

"Labeling" means the label and all other written, printed or graphic matters: (a) on the pesticide or device or any of its containers or wrappings, (b) accompanying the pesticide or device or referring to it in any other media used to disseminate information to the public, (c) to which reference is made to the pesticide or device except when references are made to current official publications of the U.S. Environmental Protection Agency, Departments of Agriculture, Health and Human Services or other Federal Government institutions, the state experiment station or colleges of agriculture or other similar state institution authorized to conduct research in the field of pesticides.

Section 3.74

"Pesticide release" or "release of a pesticide" means any release resulting in a concentration of pesticides in waters of the State which exceeds levels for which: (1) a Maximum Contaminant Level (MCL) has been promulgated by the U.S. Environmental Protection Agency or a Maximum Allowable Concentration (MAC) has been promulgated by the Board pursuant to the Safe Drinking Water Act (P.L. 93-523), as amended; or (2) a Health Advisory [illegible] has been issued by the U.S. Environmental Protection Agency; or (3) a standard has been adopted by the Board pursuant to the Illinois Groundwater Protection Act; or (4) in the absence of such advisories or standards, an action level has been developed by the Agency using guidance or procedures issued by the federal government for developing health based levels.

Section 3.75

"Landfill waste" is waste from a closed regional pollution control facility, closed dumping site, closed sanitary landfill, or a closed waste disposal site; provided however, "landfill waste" shall not include waste removed by or pursuant to the authority of a unit of the State or local government from the public way or household waste removed by or pursuant to the authority of the State or a unit of local government from any unauthorized open dumping site.

Section 3.76

"Coal combustion waste" means any of the following materials generated as a result of the combustion of coal or of coal in combination with no more than 20% of tire derived fuel and wood by weight of the materials combusted: (1) fly ash; (2) bottom ash; (3) flue gas desulfurization byproducts.

Section 3.77

"Agrichemical facility" means a site used for commercial purposes, where bulk pesticides are stored in a single container in excess of 300 gallons of liquid pesticide or 300 pounds of dry pesticide for more than 30 days per year or where more than 300 gallons of liquid pesticide or 300 pounds of dry pesticide are being mixed, repackaged or transferred from one container to another within a 30 day period or a site where bulk fertilizers are stored, mixed, repackaged or transferred from one container to another.

Section 3.78

"Clean construction or demolition debris" means broken concrete without protruding metal bars, bricks, rock, stone, reclaimed asphalt pavement or uncontaminated dirt or sand generated from construction or demolition activities.

Section 3.79

"Land form" means manmade above-grade mound, less than 50 feet in height, covered with sufficient soil materials to sustain vegetation.

Section 3.80

"Criterion" means the numerical concentration of one or more toxic substances calculated by the Agency as a basis for establishing a permit limitation or violation of a water quality standard pursuant to standards and procedures provided for in Board regulations.

Section 3.81

"Recycling center" means a site or facility that accepts only segregated, nonhazardous, nonspecial, homogenous, nonputrescible materials, such as dry paper, glass, cans or plastics, for subsequent use in the secondary materials market.

Section 3.82

"Solid waste" means waste.

Section 3.83

"Transfer station" means a site or facility that accepts waste for temporary storage or consolidation and further transfer to a waste disposal, treatment or storage facility. "Transfer station" includes a site where waste is transferred from

1. a rail carrier to a motor vehicle or water carrier;

2. a water carrier to a rail carrier or motor vehicle;

3. a motor vehicle to a rail carrier, water carrier or motor vehicle;

4. a rail carrier to a rail carrier, if the waste is removed from a rail car; or

5. a water carrier to a water carrier, if the waste is removed from a vessel.

FIGURE 3-1

SAMPLE LOCATION MAP
(On Matthiessen & Hegeler property)

Scale: 1 inch equals 200 feet

From: Illinois Department of Transportation
aerial photo taken April 16, 1988

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B1220LC09

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 24 Date Analyzed: 12/20/93

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	U
74-83-9	Bromomethane	13	UJ
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	UJ
75-09-2	Methylene Chloride	100	~~B~~
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	23	J
71-55-6	1,1,1-Trichloroethane	350	~~E~~R
56-23-5	Carbon Tetrachloride	13	~~U~~R
75-27-4	Bromodichloromethane	13	~~U~~R
78-87-5	1,2-Dichloropropane	13	~~U~~R
10061-01-5	cis-1,3-Dichloropropene	13	~~U~~R
79-01-6	Trichloroethene	13	~~U~~R
124-48-1	Dibromochloromethane	13	~~U~~R
79-00-5	1,1,2-Trichloroethane	13	~~U~~R
71-43-2	Benzene	13	~~U~~R
10061-02-6	trans-1,3-Dichloropropene	13	~~U~~R
75-25-2	Bromoform	13	~~U~~R
108-10-1	4-Methyl-2-Pentanone	13	~~U~~R
591-78-6	2-Hexanone	13	~~U~~R
127-18-4	Tetrachloroethene	13	~~U~~R
79-34-5	1,1,2,2-Tetrachloroethane	13	~~U~~R
108-88-3	Toluene	15	R
108-90-7	Chlorobenzene	13	~~U~~R
100-41-4	Ethylbenzene	13	~~U~~R
100-42-5	Styrene	13	~~U~~R
1330-20-7	Xylene (total)	13	~~U~~R

Jf

Jfal

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B1220LC09

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 24 Date Analyzed: 12/20/93

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-3	~~ETHYL ETHER~~ unknown JK	5.07	21	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

.b Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: B1221LC05

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 24 Date Analyzed: 12/21/93

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	33	U
74-83-9	Bromomethane	33	UJ
75-01-4	Vinyl Chloride	33	U
75-00-3	Chloroethane	33	UJ
75-09-2	Methylene Chloride	91	~~B~~
67-64-1	Acetone	33	U
75-15-0	Carbon Disulfide	33	U
75-35-4	1,1-Dichloroethene	33	U
75-34-3	1,1-Dichloroethane	33	U
540-59-0	1,2-Dichloroethene (total)	33	U
67-66-3	Chloroform	33	U
107-06-2	1,2-Dichloroethane	33	U
78-93-3	2-Butanone	25	J
71-55-6	1,1,1-Trichloroethane	190	J
56-23-5	Carbon Tetrachloride	33	UJ
75-27-4	Bromodichloromethane	33	UJ
78-87-5	1,2-Dichloropropane	33	UJ
10061-01-5	cis-1,3-Dichloropropene	33	UJ
79-01-6	Trichloroethene	33	UJ
124-48-1	Dibromochloromethane	33	UJ
79-00-5	1,1,2-Trichloroethane	33	UJ
71-43-2	Benzene	33	UJ
10061-02-6	trans-1,3-Dichloropropene	33	UJ
75-25-2	Bromoform	33	UJ
108-10-1	4-Methyl-2-Pentanone	33	~~U~~R
591-78-6	2-Hexanone	33	~~U~~R
127-18-4	Tetrachloroethene	33	~~U~~R
79-34-5	1,1,2,2-Tetrachloroethane	33	~~U~~R
108-88-3	Toluene	24	~~J~~R
108-90-7	Chlorobenzene	33	~~U~~R
100-41-4	Ethylbenzene	33	~~U~~R
100-42-5	Styrene	33	~~U~~R
1330-20-7	Xylene (total)	33	~~U~~R

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104DL

.b Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: B1221LC05

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 24 Date Analyzed: 12/21/93

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-3	~~ETHYL ETHER~~ unknown	5.28	12	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

La' Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309

Sample wt/vol: 30.9 (g/mL) G Lab File ID: A1221K05

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

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	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	UJ
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	~~UR~~
83-32-9	Acenaphthene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

La' Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309

Sample wt/vol: 30.9 (g/mL) G Lab File ID: A1221K05

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

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	1000	U
100-02-7	4-Nitrophenol	1000	UJ
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-10-6	4-Nitroaniline	1000	~~UR~~
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	1300	~~BU~~
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	UJ
56-55-3	Benzo(a)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	UJ
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D346309

Sample wt/vol: 30.9 (g/mL) G Lab File ID: A1221K05

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.90	2100	~~BJ~~ u
2.	UNKNOWN ALIP. HYDROCARBON	9.45	180	~~BJ~~ u
3. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.79	35000	~~JNBA~~ u
4.	UNKNOWN ALIP. HYDROCARBON	10.00	330	~~BJ~~ u
5.	UNKNOWN	10.07	360	~~BJ~~ u
6.	UNKNOWN ALIP. HYDROCARBON	10.19	170	J
7.	UNKNOWN	11.27	150	~~BJ~~ u
8.	UNKNOWN	11.42	1100	~~BJ~~ u
9.	UNKNOWN ALIP. KETONE	12.12	1600	~~BAJ~~ u
10.	UNKNOWN	13.09	680	J
11.	UNKNOWN	14.37	430	~~BJ~~ u
12.	UNKNOWN ALIP. ACID	23.75	160	~~BJ~~ u
13.	UNKNOWN	28.89	130	~~BJ~~ u
14.	UNKNOWN ALIP. ACID ESTER	33.02	18000	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348309

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 24 decanted: (Y/N) N Date Received: 12/16/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/16/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/22/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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	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	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
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	4.3	U
72-43-5	Methoxychlor	1.2	JP
53494-70-5	Endrin ketone	4.3	U
7421-36-3	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

b Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348310

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B1220LC08

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 21 Date Analyzed: 12/20/93

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	U
74-83-9	Bromomethane	13	UJ
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	UJ
75-09-2	Methylene Chloride	17	~~B~~U
67-64-1	Acetone	13 ~~4~~	~~BJ~~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	4	J
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	UJ
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	U
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)	4	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348310

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B1220LC08

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 21 Date Analyzed: 12/20/93

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: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348310

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1221K07

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	UJ
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	~~UR~~
83-32-9	Acenaphthene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348310

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1221K07

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U ~~J~~
100-02-7	4-Nitrophenol	1000	UJ
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-10-6	4-Nitroaniline	1000	~~U~~R
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	1100	~~B~~U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	UJ
56-55-3	Benzo(a)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	UJ
191-24-2	Benzo(g,h,i)Perylene	420	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: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348310

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1221K07

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.94	2300	BJ
2.	UNKNOWN ALIP. HYDROCARBON	9.49	160	~~BJ~~ U
123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.85	34000	~~JNBA~~ U
4.	UNKNOWN ALIP. HYDROCARBON	10.05	320	~~BJ~~ U
5.	UNKNOWN	10.12	310	~~BJ~~ U
6.	UNKNOWN	11.30	140	~~BJ~~ U
7.	UNKNOWN	11.45	1300	~~BJ~~ U
8.	UNKNOWN	11.69	110	J
9. 3377-86-4	HEXANE, 2-BROMO-	11.79	1100	JN
10.	UNKNOWN ALIP. KETONE	12.15	1000	~~BAJ~~ U
11.	UNKNOWN	12.57	200	J
12.	UNKNOWN	13.15	4300	J
13.	UNKNOWN	14.47	4300	~~BJ~~ U
14.	UNKNOWN ALIP. HYDROCARBON	23.65	120	J
15.	UNKNOWN ALIP. ACID	23.79	170	~~BJ~~ U
16.	UNKNOWN ALIP. HYDROCARBON	25.12	420	J
17.	UNKNOWN ALIP. HYDROCARBON	26.34	150	J
18.	UNKNOWN ALIP. HYDROCARBON	27.57	240	J
19.	UNKNOWN ALIP. ACID	28.26	260	J
20.	UNKNOWN ALIP. HYDROCARBON	28.76	230	J
21.	UNKNOWN ALIP. HYDROCARBON	29.69	250	J
22.	UNKNOWN ALIP. HYDROCARBON	30.97	210	J
23.	UNKNOWN ALIP. HYDROCARBON	31.37	70	J
24.	UNKNOWN	31.99	280	J
25.	UNKNOWN ALIP. ACID ESTER	33.07	15000	J
26.	UNKNOWN	33.36	210	J
27.	UNKNOWN ALIP. HYDROCARBON	33.97	540	J
[illegible]	UNKNOWN ALIP. HYDROCARBON	36.27	230	J
29.	UNKNOWN ALIP. HYDROCARBON	39.41	1000	J

all

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348310

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 12/16/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/16/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.7 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	0.64	J
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.51	JP
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	5.0	P
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	21	U
53494-70-5	Endrin ketone	4.0	J
7421-36-3	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.68	JP
8001-35-2	Toxaphene	220	
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	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	25	JP
11096-82-5	Aroclor-1260	41	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

La' Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B1220LC07

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 19 Date Analyzed: 12/20/93

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	UJ
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	25	~~B~~U
67-64-1	Acetone	128	~~BJ~~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	J
71-55-6	1,1,1-Trichloroethane	4	J
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	UJ
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)	4	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

La' Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B1220LC07

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: not dec. 19 Date Analyzed: 12/20/93

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: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A1221K06

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

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	980	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	980	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	980	UR
83-32-9	Acenaphthene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

La Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A1221K06

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

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	UJ
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	980	~~U~~R
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	4700	E
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	83	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-Butylphthalate	1200	~~B~~U
206-44-0	Fluoranthene	96	J
129-00-0	Pyrene	89	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	UJ
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	UJ
191-24-2	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

La' Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A1222K03

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/22/93

Injection Volume: 2.0 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1200	U
111-44-4	bis(2-Chloroethyl)Ether	1200	U
95-57-8	2-Chlorophenol	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
95-48-7	2-Methylphenol	1200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1200	U
106-44-5	4-Methylphenol	1200	U
621-64-7	N-Nitroso-Di-n-Propylamine	1200	U
67-72-1	Hexachloroethane	1200	U
98-95-3	Nitrobenzene	1200	U
78-59-1	Isophorone	1200	U
88-75-5	2-Nitrophenol	1200	U
105-67-9	2,4-Dimethylphenol	1200	U
111-91-1	bis(2-Chloroethoxy)Methane	1200	U
120-83-2	2,4-Dichlorophenol	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U
91-20-3	Naphthalene	1200	U
106-47-8	4-Chloroaniline	1200	UJ
87-68-3	Hexachlorobutadiene	1200	U
59-50-7	4-Chloro-3-Methylphenol	1200	U
91-57-6	2-Methylnaphthalene	1200	U
77-47-4	Hexachlorocyclopentadiene	1200	U
88-06-2	2,4,6-Trichlorophenol	1200	U
95-95-4	2,4,5-Trichlorophenol	3000	U
91-58-7	2-Chloronaphthalene	1200	U
88-74-4	2-Nitroaniline	3000	U
131-11-3	Dimethylphthalate	1200	U
208-96-8	Acenaphthylene	1200	U
606-20-2	2,6-Dinitrotoluene	1200	U
99-09-2	3-Nitroaniline	3000	UJ
83-32-9	Acenaphthene	1200	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A1221K06

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.94	2000	~~BJ~~ U
2.	UNKNOWN ALIP. HYDROCARBON	9.47	140	~~BJ~~ U
123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.84	32000	~~JNBA~~ U
4.	UNKNOWN ALIP. HYDROCARBON	10.04	300	~~BJ~~ U
5.	UNKNOWN	10.10	290	~~BJ~~ U
6.	UNKNOWN	11.30	160	~~BJ~~ U
7.	UNKNOWN	11.45	1200	~~BJ~~ U
8.	UNKNOWN ALIP. KETONE	12.15	980	~~BAJ~~ U
9.	UNKNOWN	13.15	4300	J
10.	UNKNOWN	14.47	3900	~~BJ~~ U
11.	UNKNOWN ALIP. HYDROCARBON	22.20	130	J
12. 608-93-5	BENZENE, PENTACHLORO-	23.07	350	JN
13.	UNKNOWN ALIP. HYDROCARBON	23.65	120	J
14.	UNKNOWN ALIP. ACID	23.79	160	~~BJ~~ U
15.	UNKNOWN ALIP. HYDROCARBON	25.12	340	J
16.	UNKNOWN ALIP. HYDROCARBON	26.32	110	J
17.	UNKNOWN ALIP. HYDROCARBON	27.57	130	J
18.	UNKNOWN	28.26	120	J
19. 29082-74-4	BENZENE, PENTACHLORO(TRICHLO	29.97	120	JN
20.	UNKNOWN ALIP. HYDROCARBON	30.96	140	J
21.	UNKNOWN ALIP. HYDROCARBON	31.99	280	J
22.	UNKNOWN	32.67	82	J
23.	UNKNOWN ALIP. ACID ESTER	33.06	12000	J
24.	UNKNOWN ALIP. HYDROCARBON	33.97	480	J
25.	UNKNOWN ALIP. HYDROCARBON	36.27	220	J
26.	UNKNOWN ALIP. HYDROCARBON	39.41	1900	J
27.	UNKNOWN PCB	40.91	320	J

J all

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

La Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A1222K03

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/22/93

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3000	U
100-02-7	4-Nitrophenol	3000	~~U~~R
132-64-9	Dibenzofuran	1200	U
121-14-2	2,4-Dinitrotoluene	1200	U
84-66-2	Diethylphthalate	1200	U
7005-72-3	4-Chlorophenyl-phenylether	1200	U
86-73-7	Fluorene	1200	U
100-10-6	4-Nitroaniline	3000	~~U~~R
534-52-1	4,6-Dinitro-2-methylphenol	3000	U
86-30-6	N-Nitrosodiphenylamine (1)	1200	U
101-55-3	4-Bromophenyl-phenylether	1200	U
118-74-1	Hexachlorobenzene	7300	
87-86-5	Pentachlorophenol	3000	U
85-01-8	Phenanthrene	1200	U
120-12-7	Anthracene	1200	U
86-74-8	Carbazole	1200	U
84-74-2	Di-n-Butylphthalate	1200 ~~1100~~	~~B~~U
206-44-0	Fluoranthene	1200	U
129-00-0	Pyrene	1200	U
85-68-7	Butylbenzylphthalate	1200	U
91-94-1	3,3'-Dichlorobenzidine	1200	UJ
56-55-3	Benzo(a)Anthracene	1200	U
218-01-9	Chrysene	1200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1200	U
117-84-0	Di-n-Octyl Phthalate	1200	U
205-99-2	Benzo(b)Fluoranthene	1200	U
207-08-9	Benzo(k)Fluoranthene	1200	U
50-32-8	Benzo(a)Pyrene	1200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1200	U
53-70-3	Dibenz(a,h)Anthracene	1200	UJ
191-24-2	Benzo(g,h,i)Perylene	1200	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A1222K03

Level: (low/med) LOW Date Received: 12/16/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/22/93

Injection Volume: 2.0 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.85	2000	~~BJ~~ U
2. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.64	51000	~~JNBA~~ U
.	UNKNOWN	11.42	880	~~BJ~~ U
4.	UNKNOWN ALIP. KETONE	12.12	760	~~BAJ~~ U
5.	UNKNOWN	13.09	5200	J
6.	UNKNOWN	14.39	3200	~~BJ~~ U
7.	UNKNOWN ALIP. ACID ESTER	33.01	12000	J
8.	UNKNOWN ALIP. HYDROCARBON	39.36	1700	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 0990000000

Lab Code: SPFLD Case No.: HEGLER SAS No.: _____ SDG No.: 348301

Matrix: (soil/water) SOIL Lab Sample ID: D348311

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 12/16/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/16/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/22/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1 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	35	P
319-86-8	delta-BHC	3.1	P
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	20	P
72-55-9	4,4'-DDE	7.0	
72-20-8	Endrin	14	
33213-65-9	Endosulfan II	3.8	J
50-29-3	4,4'-DDD	5.0	P
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	14	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	35	P
7421-36-3	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	3.0	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	88	P
11096-82-5	Aroclor-1260	130	P

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MATTHIESSEN & HAGLER ZINC
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: -102-
Matrix (Soil): ——— Lab Sample ID: —B319630—
Level (Low/Med): ——— Date Received: 12/16/93
% Solids: -75.5-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	35300			P	
7440-36-0	Antimony	13.5	U	N	P	J
7440-38-2	Arsenic	21.5		+	FM	J
7440-39-3	Barium	168			P	
7440-41-7	Beryllium	1.6			P	
7440-43-9	Cadmium	36.1			P	
7440-70-2	Calcium	24500			P	
7440-47-3	Chromium	43.3			P	
7440-48-4	Cobalt	CB ~~466~~ 4.66	B		P	
7440-50-8	Copper	806			P	
7439-89-6	Iron	42800			P	
7439-92-1	Lead	905			P	
7439-95-4	Magnesium	2000			P	
7439-96-5	Manganese	101		N	P	J
7439-97-6	Mercury	0.06	U		AV	
7440-02-2	Nickel	21.7			P	
7440-09-7	Potassium	8100			P	
7782-49-2	Selenium	17.7		S,N	FM	J
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	1440			P	
7440-28-0	Thallium	0.72	B	W	FM	J
7440-62-2	Vanadium	43.6			P	
7440-66-6	Zinc	10200			P	
———	Cyanide	1.1	U		AS	
———	———				AS	
———	———					

Color Before: -Black——— Clarity Before: —Opaque——— Texture: Course
Color After: -Green——— Clarity After: ——Clear—— Artifacts: ———
Comments: ———

FORM I - IN
SOIL

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

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MATTHIESSEN & HAGLER ZINC
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: -102-
Matrix (Soil): ——— Lab Sample ID: —B319637—
Level (Low/Med): ——— Date Received: 12/16/93
% Solids: -81.7-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	22700			P	
7440-36-0	Antimony	21.9	U	N	P	J
7440-38-2	Arsenic	65.0		S	FM	
7440-39-3	Barium	410			P	
7440-41-7	Beryllium	12.7			P	
7440-43-9	Cadmium	59.8			P	
7440-70-2	Calcium	35400			P	
7440-47-3	Chromium	31.9			P	
7440-48-4	Cobalt	46.4			P	
7440-50-8	Copper	428			P	
7439-89-6	Iron	85900			P	
7439-92-1	Lead	342			P	
7439-95-4	Magnesium	1210			P	
7439-96-5	Manganese	5450		N	P	J
7439-97-6	Mercury	1.4			AV	
7440-02-2	Nickel	105			P	
7440-09-7	Potassium	1700			P	J
7782-49-2	Selenium	0.62		S,N	FM	J
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	1190			P	
7440-28-0	Thallium	0.25	U	W	FM	J
7440-62-2	Vanadium	110			P	
7440-66-6	Zinc	42000			P	
———	Cyanide	1.0	U		AS	
———	———				AS	
———	———					

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

B000010

FORM I - IN
SOIL

ILM03.0

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

EPA SAMPLE NO.
X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MATTHIESSEN & HAGLER ZINC
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: -102-
Matrix (Soil): ——— Lab Sample ID: —B319638—
Level (Low/Med): ——— Date Received: 12/16/93
% Solids: -80.8-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14100			P	
7440-36-0	Antimony	12.3	U	N	P	J
7440-38-2	Arsenic	110			FM	
7440-39-3	Barium	191			P	
7440-41-7	Beryllium	1.7			P	
7440-43-9	Cadmium	181			P	
7440-70-2	Calcium	50700			P	
7440-47-3	Chromium	38.1			P	
7440-48-4	Cobalt	21.2			P	
7440-50-8	Copper	4340			P	
7439-89-6	Iron	36100			P	
7439-92-1	Lead	1370			P	
7439-95-4	Magnesium	2510			P	
7439-96-5	Manganese	1290		N	P	J
7439-97-6	Mercury	2.1			AV	
7440-02-2	Nickel	118			P	
7440-09-7	Potassium	1680			P	J
7782-49-2	Selenium	27.7		S,N	FM	J
7440-22-4	Silver	19.0			P	
7440-23-5	Sodium	780	B		P	
7440-28-0	Thallium	0.96	B	W	FM	J
7440-62-2	Vanadium	29.7			P	
7440-66-6	Zinc	37500			P	
———	Cyanide	1.0	U		AS	
———	———				AS	
———	———					

Color Before: -Black——— Clarity Before: —Opaque——— Texture: Course
Color After: -Yellow——— Clarity After: ——Clear——— Artifacts: ———
Comments: ———

B000011