INSPECTION REPORT

FOR

CHAMPAIGN MUNICIPAL

CHAMPAIGN, ILLINOIS

ILD980901409

R05-8505-06

DECEMBER 26, 1985

EPA Region 5 Records Ctr.

300839

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Cardinal

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

MEMORANDUM

DATE: December 26, 1985
TO: David Curnock
FROM: Illinois/R05-8505-06/IL0411
SUBJECT: Champaign/Champaign Municipal
ILD980901409

The Champaign Municipal site is a landfill east of Champaign, Illinois. The landfill was operated by the city of Champaign from the 1950's up until 1976. It has been closed and covered. However, proper cover/closure measures were not performed until 1984-85. Active leachate seeps are still present at the site.

The site was operated as a municipal refuse landfill and not designed or designated to accept any hazardous materials. According to records no hazardous materials were disposed of at the site. However, this was one of the only landfills operating in the area and, therefore, was a potential recipient of such materials. This was the premise for the Illinois EPA to file a Preliminary Assessment on Champaign Municipal to the USEPA.

The site lies in an agricultural area and occupies 89.9 acres. Only 15 acres were ever permitted by the IEPA. Burning of refuse was a common practice on the remaining 75 acres for consolidation purposes. No burning was done on the 15 acre permitted tract.

On September 25 and 26, 1985, Ecology and Environment, Inc./FIT inspected the Champaign Municipal site. An interview was performed along with a visual inspection of the facility. During the site visit, six (6) monitoring wells were sampled and three (3) soil/-leachate samples were collected from the site. There was also a

recycled paper

duplicate water sample, a blank water sample and a background soil sample from a cropped field collected. Samples were collected to determine if any hazardous materials were migrating offsite and to help in waste characterization for the Hazard Ranking System (HRS) score calculations.

The sample analysis showed levels of arsenic, barium, benzene, trichloroethane and chlorobenzene in the ground water. Wells W1 and W2 (Drawing 1) are upgradient according to the general southwesterly groundwater flow. However, these wells are located just outside of the fill and are probably influenced by local flow and mounding of the groundwater. The soil/leachate sample results showed the presence of trace amounts of toluene, ethylbenzene, phenanthrene, pyrene and flouranthene. These results would indicate that some quantity of hazardous materials were disposed of at this site at some time in the past.

The potential for contamination of the lower drift aquifer is low due to the presence of clays in the till material. The drift is up to 300 feet deep in the area and the first water production zone is below 80 feet. The monitoring well depths are:

Sample #	Well #	Total Depth (ft.)	Depth to Water (ft.)
W1	(G107)	32	6
W2	(G108)	31	9
W3	(G109)	25	6
W4	(G110)	33	6
W5-W7	(G112)	30	6
W6	(G117)	34	10

Although the material is continuous, permeability of the drift is

approximately 10^{-7} cm/sec.

The site is not fenced but there is a locked gate. A portion of the filled area is currently being used by a model airplane club in the area. They have an asphalt runway and a building on the premises but no water supply.

65S:4X

2

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R05-8505-06 ILD411

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980401409

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
CHAMPAIGN MUNICIPAL	Hwy 150 East

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
CHAMPAIGN	IL	61821	CHAMPAIGN	19	19

09 COORDINATES LATITUDE	LONGITUDE
40 09 55.0	088 18 27.0

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
9 25-26 85 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	≈1950's / 1976 (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
David Curnock	Biologist/Agronomist	E&E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Randy Livingston	Earth Scientist	E&E	( ) "
Anne Sause	Biologist	E&E	( ) "
			( )
Richard Lange	—	ILLINOIS EPA	(217) 782-6760
Ken Page	—	"	( ) "

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Richard Larson	CHAMPAIGN Dir. Public Works	702 Edgebrook Dr. Champaign	(217) 351-4421
Jess Holmes	CHAMPAIGN Engineering Assistant	"	(217) 351-4466
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	2:00 PM / 9:00 AM	Overcast, 50 °F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Cliff Wheeler	IEPA, DLPC	(217) 786-6892

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
David Curnock	—	Ecology & Environment	(312) 663-9415	/ / (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980901409

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A SOLID
- [ ] B POWDER, FINES
- [ ] C SLUDGE
- [ ] D OTHER _____ (Specify)
- [ ] E SLURRY
- [ ] F LIQUID
- [ ] G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS 89.9 acres

CUBIC YARDS _____

NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [ ] A TOXIC
- [ ] B CORROSIVE
- [ ] C RADIOACTIVE
- [ ] D PERSISTENT
- [ ] E SOLUBLE
- [ ] F INFECTIOUS
- [ ] G FLAMMABLE
- [ ] H IGNITABLE
- [ ] I HIGHLY VOLATILE
- [ ] J EXPLOSIVE
- [ ] K REACTIVE
- [ ] L INCOMPATIBLE
- [X] M NOT APPLICABLE

III. WASTE TYPE *

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES	*		
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
*	This facility was specifically involved in non-hazardous waste materials. Sources of wastes were municipal and some industrial. There was some foundry sand brought in for use in an old burn pit. Amounts and exact chemical make-up are unknown. No materials were received from the University of Illinois.				
	Sample results indicate the presence of Arsenic, Barium, Benzene, Trichloroethane and Chlorobenzene in groundwater. Leachate samples showed arsenic, toluene, ethylbenzene, pyrene, fluoranthene.				

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site interview/inspection 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980901409

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE 9/26/85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 90,031 — 04 NARRATIVE DESCRIPTION
Samples from monitoring wells showed levels of Arsenic, Benzene, Trichloroethane, chlorbenzene. Upgradient wells W1, W2 are close to the fill and may be affected by groundwater mounding.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE 9/26/85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION
Leachate samples showed levels of Arsenic, ethylbenzene, Toluene, Pyrene, Fluoranthene. There were active leachate seeps. They could flow into an intermittent stream (drainage ditch) on site.

01 ☒ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE ____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION
None reported or observed. Methane production by nature of the fill material could be present

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: ____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION
None reported or observed

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE 9/26/85) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 125.4 — 04 NARRATIVE DESCRIPTION
The site is closed and covered, however, there are some active leachate seeps. There is a locked gate but no real fencing to restrict access. Leachate samples showed ARSENIC, Ethylbenzene, Pyrene, Fluoranthene

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE 9/26/85) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 89.9 (Acres) — 04 NARRATIVE DESCRIPTION
Leachate seeps are active at the site. (See Part 3 B above)

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: 9/26/85) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 90,031 — 04 NARRATIVE DESCRIPTION
No surface water used for drinking. Groundwater is used by rural population and Champaign. Usable water zone are 80 feet or deeper minimum. Samples showed levels of Arsenic, Benzene, chlorbenzene and Trichloroethane

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: ____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 3-5 — 04 NARRATIVE DESCRIPTION
Site is closed now but some regrading and earthwork to control leachate seeps is on going.

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: ____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ≈ 30 — 04 NARRATIVE DESCRIPTION
There is a portion of the site that is now used by a model airplane club for a landing strip.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980404405

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE 9/26/85) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
In area of leachate seeps, normal vegetation has been eradicated.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None reported or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None reported or observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE 9/26/85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 90,031 — 04 NARRATIVE DESCRIPTION
Leachate seeps.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION In the past, a drain tile became clogged and runoff water backed up and onto private property. A citizens group was concerned that the water was polluted. The tile was replaced and the problem was taken care of.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION There is a storm drain near the interstate that leads to the creek. The NW edge of property. Runoff from the site could enter the system.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None reported

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
NONE

III. TOTAL POPULATION POTENTIALLY AFFECTED: 90,031

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
site interview / inspection 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980616465

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A NPDES				
☐ B UIC				
☐ C AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G STATE (Specify) IEPA	1974-99-08	1974	1976	(15 acres, Northern Section)
☐ H. LOCAL (Specify)				
☒ I OTHER (Specify) STATE	For composting leaves etc.			
☐ J NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	89.9	Acres
☐ G LANDFARM		
☐ H OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply) N/A
- ☐ A INCENERATION
- ☐ B UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G OTHER RECYCLING/RECOVERY
- ☐ H OTHER (Specify)

05 OTHER
- ☒ A BUILDINGS ON SITE (2)

06 AREA OF SITE: 89.9 (Acres)

07 COMMENTS The site was filled in sections, chronologically. There was no burning for consolidation on the north 15 acres. The other sections probably employed burning as a means of consolidation.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

unlined, leachate seeps are active.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS Although the area has adequate cover, leachate seeps are still active.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

site interview/inspection 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980601409

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☒

02 STATUS UNKNOWN

ENDANGERED	AFFECTED	MONITORED
A ☐	B ☐	C. ☐
D. ☐	E ☐	F. ☐

03 DISTANCE TO SITE

A. 1.4 (mi)

B. 0.5 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 90,031

03 DISTANCE TO NEAREST DRINKING WATER WELL <0.5 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
10 (ft)	SW	200 (ft)	UNKNOWN (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

most wells are in the drift which is up to 300' thick in this area. Sand lenses hold water. The first production zone would be a 50' deep [illegible] water system

10 RECHARGE AREA

☐ YES ☐ NO

COMMENTS UNKNOWN

11 DISCHARGE AREA

☐ YES ☒ NO

COMMENTS Except for very shallow groundwater into stream

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Drainage ditch, intermittent stream	☐	onsite (mi)
Andrews' pond (Farm pond)	☐	0.1 (mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 125	B. 372	C. 9632
NO OF PERSONS	NO OF PERSONS	NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 98

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.5 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site (e.g., rural, village, densely populated urban area)

The site is located in a rural area. It is surrounded by agricultural land on two sides, Interstate 74 and a farmstead.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980610409

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A $10^{-6} - 10^{-8}$ cm/sec ☒ B $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D GREATER THAN 10^{-3} cm/sec

Clay, till

02 PERMEABILITY OF BEDROCK (Check one)

☐ A IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

SHALE

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
≈300' (ft)	Unknown (ft)	6-7

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.0" (in)	2.7" (in)	0-1 %	SW	0-1 %

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

10 N/A ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi) OTHER: B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

UNKNOWN (mi)

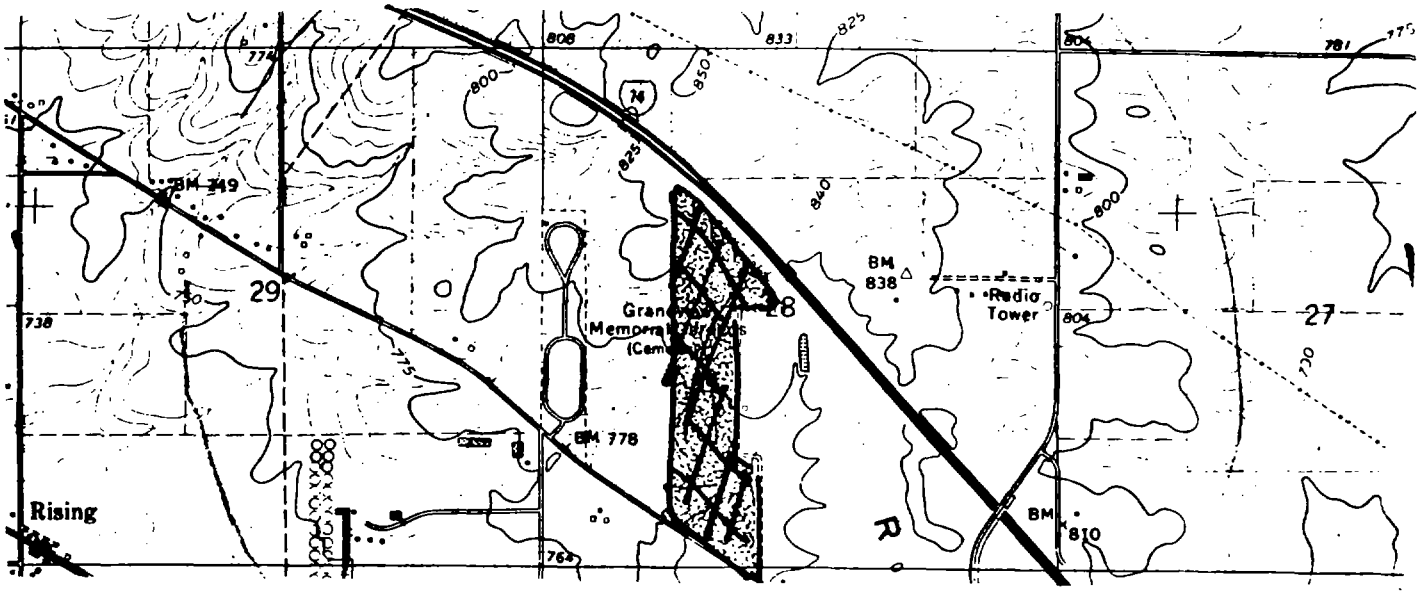
ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AGRICULTURAL LANDS AG LAND
A. 2.0 (mi)	B 2.5 (mi)	C. ADJACENT (mi)	D — (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

HRS USERS MANUAL
Public Groundwater Supplies in Champaign County, ISWS
USGS 7.5 min. topo maps
site interview/inspection 9/25-26/85

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980909405

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVALABLE
GROUNDWATER	8	organics HAZELTON inorganics CAL	AVAILABLE
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	organics HAZELTON inorganics CAL	AVAILABLE
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN NONE

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL N/A

02 IN CUSTODY OF N/A (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Ecology & Environment/FIT files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

site inspection 9/26/85

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980904409

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
City of Champaign			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
102 N Neil			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Champaign	IL	61820			

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER
—	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

site inspection & interview 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980901409

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
NA	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
City of Champaign	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
102 N Neil	

05 CITY	06 STATE	07 ZIP CODE
Champaign	IL	61820

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
≈1950-1976	

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site inspection/interview 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980401409

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
* See Below			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
* See Below			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

* Refuse was collected by local private haulers from the area. No hazardous materials were ever recorded to have been disposed of at this site.

Site Inspection/interview 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980401409

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ P. CUTOFF TRENCHES/SUMP — 02 DATE 1980 (or 1979) — 03 AGENCY _____
04 DESCRIPTION
TRENCH with tile installed on NW edge to control leachate problem

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980901409

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☒ S. CAPPING/COVERING — 02 DATE 1985 — 03 AGENCY _____
04 DESCRIPTION PREPARING FOR FINAL CLOSURE of N 15 acres, regrading, seeding

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection / Interview 9/25-26/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980901409

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

closure problems were addressed by IEPA. — Final cover, leachate.
The reworking of the cover on the N section was done 1985.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

site inspection / interview 9/25-26/85
E+E/FIT Files.

EPA FORM 2070 13 (7-81)

ILD980901409

CHAMPAIGN MUNICIPAL

ROS-8505-06 IL0411

Immediate Removal Action Check Sheet

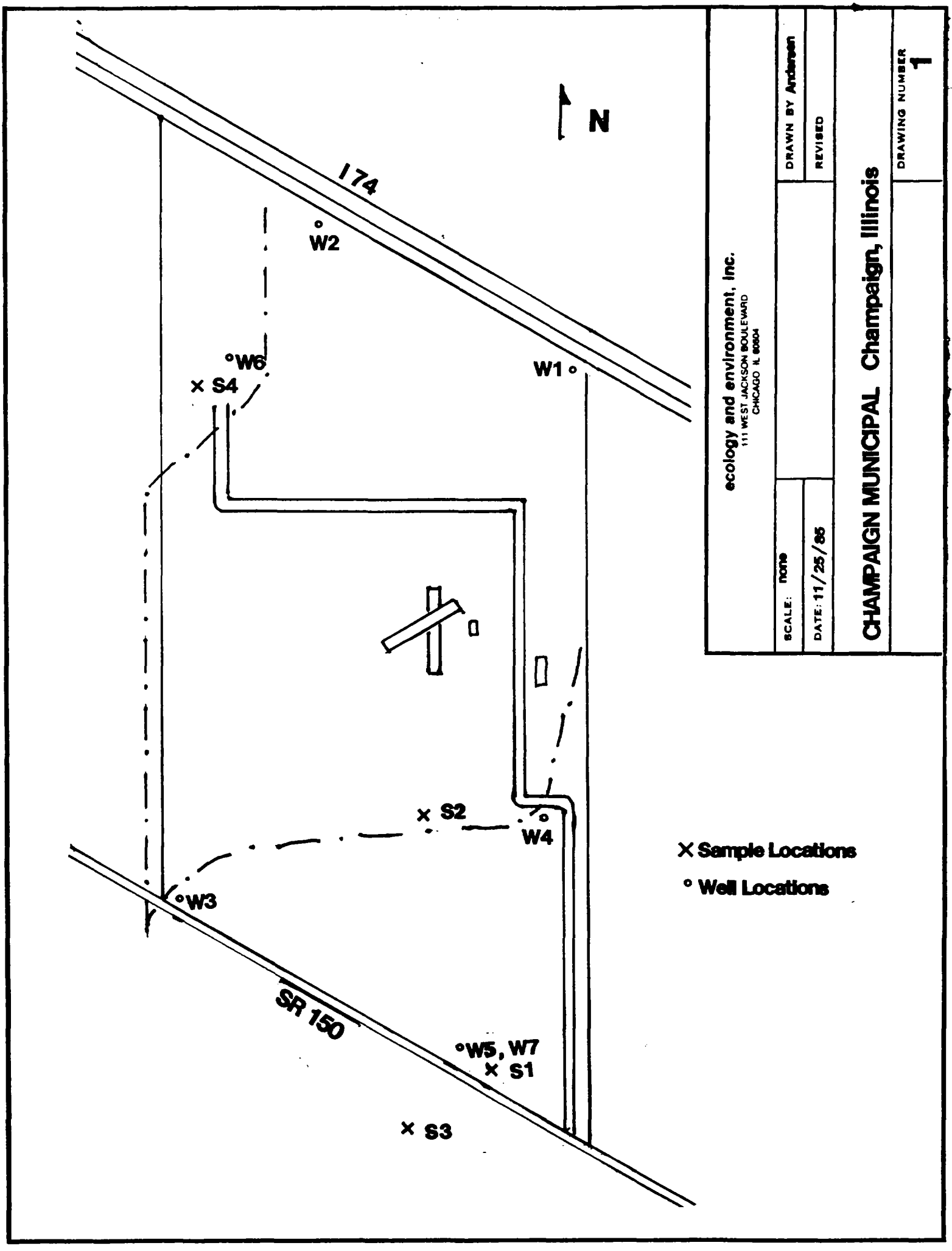
	High	Moderate	Low	
Fire and Explosion Hazard				
Flammable Materials				NA
Explosives				
Incompatable Chemicals				
Direct Contact with Acutely Toxic Chemicals				
Site Security			✓	
Leaking Drums or Tanks				NA
Open Lagoons or pits				
Materials on Surface				
Proximity of Population				
Evidence of Casual Site Use			✓	
Contaminated Water Supply				
Exceeds 10 Day Snarl				NA
Gross Taste or Odors				
Alternate Water Available				
Potential Contamination				

Is the site abandoned or active? (INACTIVE)

Comments: Closed & covered Landfill; some leachate. Was not to have accepted any hazardous materials.

3

Cardinal


N
I74
W2
W6
W1
S4
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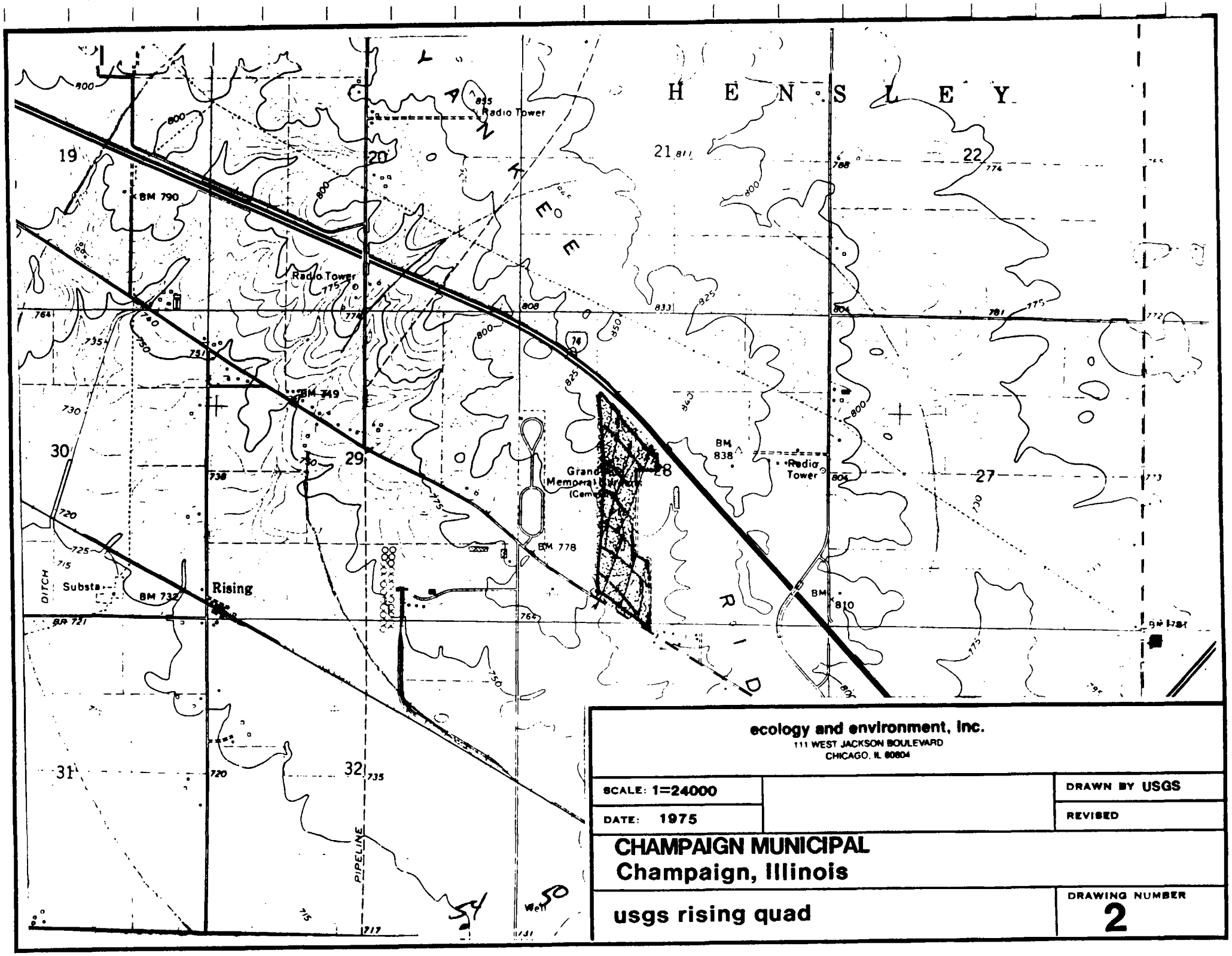
W4
W3
SR 150
W5, W7
S1
S3
X Sample Locations
° Well Locations
ecology and environment, Inc.
111 WEST JACKSON BOULEVARD
CHICAGO IL 60604
DRAWN BY Anderson
REVISED
SCALE: none
DATE: 11/25/85
CHAMPAIGN MUNICIPAL Champaign, Illinois
DRAWING NUMBER
1



ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

SCALE: 1=24000		DRAWN BY USGS
DATE: 1975		REVISED

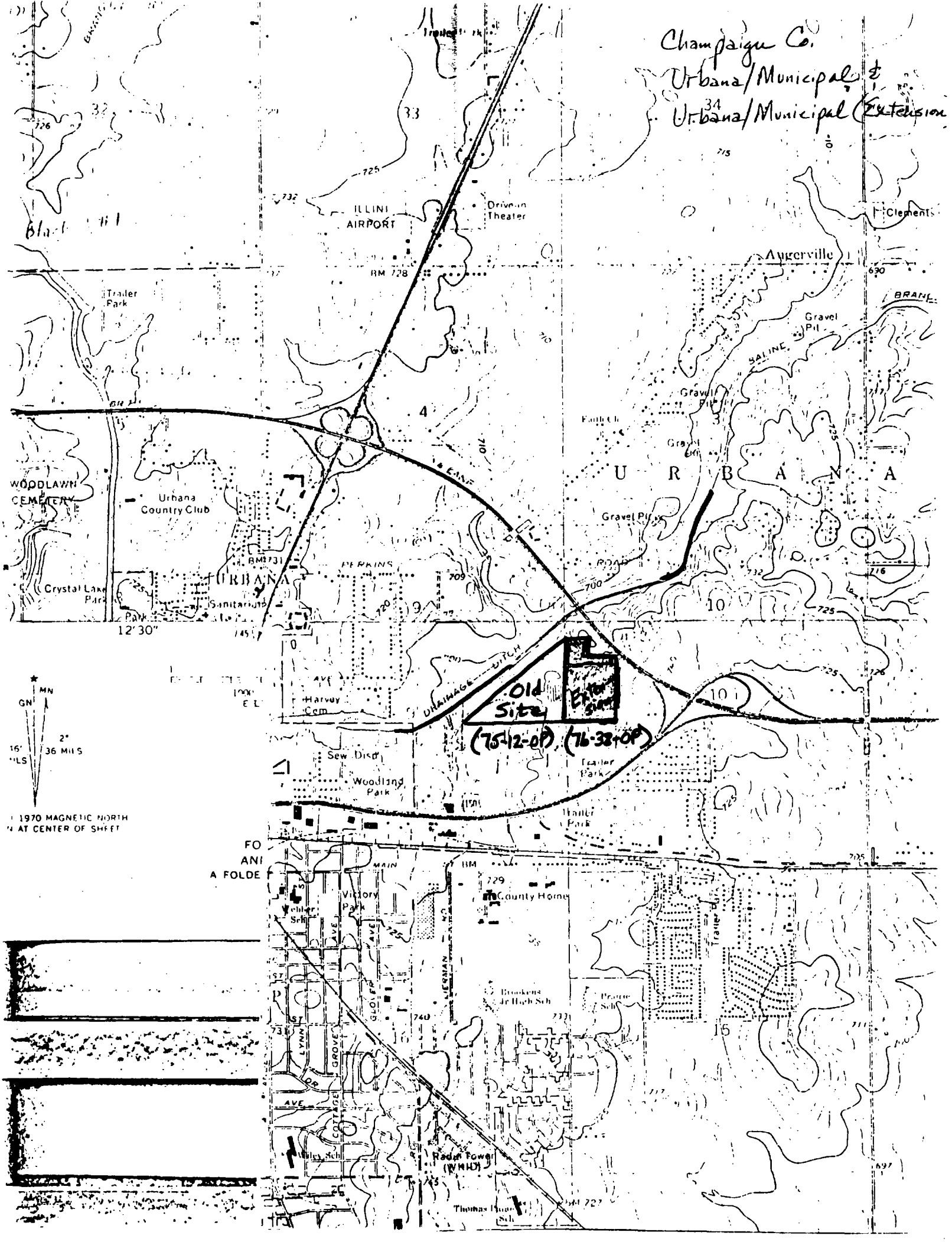
CHAMPAIGN MUNICIPAL
Champaign, Illinois

usgs rising quad

DRAWING NUMBER
2

4

Champaign Co.
Urbana/Municipal &
Urbana/Municipal (Extension



SD 83/2

Not RCRA

Omit 4/2/85

LPC#0198090 Champaign/Municipal

EPA POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901409

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Champaign Municipal	Highway 150 East

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Champaign	IL	61821	Champaign	019	19

09 COORDINATES LATITUDE	LONGITUDE	
40 09 55.0	088 18 22.0	Rising Quadrangle 7.5' (1970)

10 DIRECTIONS TO SITE (Starting from nearest public road)
2½ miles east of intersection of Highway 150 and I-57 on Highway 150 then north on all weather access road

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
City of Champaign, IL	102 North Neil

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Champaign	IL	61820	(217) 337-2451

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as above	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☐ YES DATE __/__/__ (MONTH DAY YEAR)
☒ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1965 (BEGINNING YEAR) | 1976 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Sludge (Toxic/Persistant)
Other Organic (Ignitable)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Groundwater (Population/Environment)
Surface Water (Population/Environment)

RECEIVED
MAR 15 1985
IEPA-DLPC

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Clifford L. Wheeler	IEPA DLPC/FOS	(217) 786-6892

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Clifford L. Wheeler	IEPA	DLPC/FOS	(217) 786-6892	03 07 85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901409

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

A SOLID
B POWDER, FINES
C SLUDGE
D OTHER _____ (Specify)
E SLURRY
F LIQUID
G GAS

02 WASTE QUANTITY AT SITE
Measures of waste quantities must be independent

TONS
CUBIC YARDS Unknown
NO OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

A TOXIC
B CORROSIVE
C PERSISTENT
D
E SOLUBLE
F INFECTIOUS
G FLAMMABLE
H IGNITABLE
I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Unknown		Septic waste
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		Wood Debris
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

- DLPC/FOS Files LPC#01980901 Champaign Co. Champaign/Municipal
- Steve Johnson IEPA/PWS Champaign, IL. 217/333-8361

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901409

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 95,000
04 NARRATIVE DESCRIPTION
Cities of Champaign and Urbana have one(1) water plant and four(4) wells within a three(3) mile radius. There are five(5) private wells within a one(1) mile radius.

01 ☐ B SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE 6-8-82) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
Leachate is flowing into a nearby drainage ditch. There are no known surface water intakes within a two(2) mile radius.

01 ☐ C CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

01 ☐ D FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

01 ☐ E DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

01 ☐ F CONTAMINATION OF SOIL — 02 X OBSERVED (DATE 2-21-83) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 15 (Acres)
04 NARRATIVE DESCRIPTION
The landfill covers about 15 acres, the surface is covered with vegetation and there is leachate flowing from the landfill

01 ☐ G DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 95,000
04 NARRATIVE DESCRIPTION
Cities of Champaign and Urbana have one(1) water plant and four(4) wells within a three(3) mile radius. There are five(5) private wells within a one(1) mile radius

01 ☐ H WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

01 ☐ I POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: IL
02 SITE NUMBER: D980901409

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None Known

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None Known

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None Known

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills runoff standing liquids leaking drums) — 02 ☒ OBSERVED (DATE 6-8-82) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION

Leachate is flowing into a nearby drainage ditch.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None Known

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None Known

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None Known

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None Known

III. TOTAL POPULATION POTENTIALLY AFFECTED: 95,000

IV. COMMENTS

The landfill is closed not covered and shows a potential for contamination because there is leachate flowing from it.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See VI under Part 2

EPA FORM 2070-12 (7-81)

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION W1 / W1 (well 107)

SAMPLING DATE 9/24/85 SAMPLING TIME 1445

ORGANIC TRAFFIC NUMBER EE 324

INORGANIC TRAFFIC NUMBER MEG158

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
80 oz	ext. Organics	5-39015	15133062
80 oz	ext. Organics	5-39016	
40 ml	VOA	5-39017	251577212
40 ml	VOA	5-39018	
1 liter	metals/inorganics	5-39019	34277012 (filtered into 35134062)

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: filtered prior to acidification of metals sample.

INSTRUMENT READINGS ~~None~~ ~~Temp 20°c~~

pH 7.0

CONDUCTIVITY over 20K mmhos

TEMPERATURE 20°c

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION W3 / W3 (well 109)

SAMPLING DATE 9/26/85 SAMPLING TIME 1510

ORGANIC TRAFFIC NUMBER EE 326

INORGANIC TRAFFIC NUMBER MEG 16D

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
80 oz	ext. Organics	5-39025	15133062
80 oz	ext. Organics	5-39026	15133062
40 ml	VOA	5-39027	25157212
40 ml	VOA	5-39028	25157212
1 liter	metals/inorganics	5-39029	34284102 (filtered into 35134062)

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: Metals sample filtered prior to acidification

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION W4 / W11 (Well 110)

SAMPLING DATE 9/26/85 SAMPLING TIME 1530

ORGANIC TRAFFIC NUMBER EE 327

INORGANIC TRAFFIC NUMBER MEG 161

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
80 oz	ext. Organics	5-39030	15133062
80 oz	ext. Organics	5-39031	15133062
40 ml	VOA	5-39032	25152212
40 ml	VOA	5-39033	25152212
1 liter	metals/inorganics	5-39034	35134062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: Metal sample filtered prior to acidification.

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION WS / WD (Well 112)

SAMPLING DATE 9/26/85 SAMPLING TIME 1505

ORGANIC TRAFFIC NUMBER EE 328

INORGANIC TRAFFIC NUMBER MEG 162

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
80 oz	ext. Organics	5-39035	15133062
80 oz	ext. Organics	5-39036	15133062
40 ml	VOA	5-39037	25157212
40 ml	VOA	5-39038	25157212
1 liter	metals/inorganics	5-39039	35134062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: Metals sample filtered prior to acidification

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal OS-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION W6 / W6 (Well 117)
Includes Matrix Spike Duplicate

SAMPLING DATE 9/26/85 SAMPLING TIME 1420

ORGANIC TRAFFIC NUMBER EE 329

INORGANIC TRAFFIC NUMBER MEG 163

BOTTLE	ANALYSIS	TAG NUMBERS / MSD	LOT NUMBER / MSD-S
80 oz	ext. Organics	5-39040 / 5-39071	15133062 / same
80 oz	ext. Organics	5-39041 / 5-39072	15133062 / same
40 ml	VOA	5-39042 / 5-39073	25157212 / same
40 ml	VOA	5-39043 / 5-39073	25157212 / same
1 liter	metals / inorganics	5-39044	35134062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: Metals samples filtered prior to acidification.

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION BLANK / Blank

SAMPLING DATE 9/26/85 SAMPLING TIME 1730

ORGANIC TRAFFIC NUMBER EE 331

INORGANIC TRAFFIC NUMBER ME 6 165

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
80 oz	ext. Organics	5-39050	15133062
80 oz	ext. Organics	5-39051	
40 ml	VOA	5-39052	25157212
40 ml	VOA	5-39053	
1 liter	metals/inorganics	5-39054	35134062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Blank

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: Metal sample filtered prior to acidification.

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION S1 / S1 (Soil from leachate seep) near WS, (112)

SAMPLING DATE 9/26/85 SAMPLING TIME 1250

ORGANIC TRAFFIC NUMBER EE 332

INORGANIC TRAFFIC NUMBER MEG 166

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120 ml	VOA	5-39057	45161072
120 ml	VOA	5-39058	45161072
8 oz	ext. organics	5-39055	65159062
8 oz	metals/inorganics	5-39056	65159062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil sample from an active leachate seep.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION W7 / W7 (Duplicate of well 112)

SAMPLING DATE 9/ /85 SAMPLING TIME 1515

ORGANIC TRAFFIC NUMBER EE 330

INORGANIC TRAFFIC NUMBER MEG 164

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
80 oz	ext. Organics	5-39045	15133062
80 oz	ext. Organics	5-39046	15133062
40 ml	VOA	5-39047	25157212
40 ml	VOA	5-39048	25157212
1 liter	metals/inorganics	5-39049	35134062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: Metals sample filtered prior to acidification.

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION S2 / S2 (soil from leachate seep) near foot bridge, south central

SAMPLING DATE 9/26/85 SAMPLING TIME 1320

ORGANIC TRAFFIC NUMBER EE 333

INORGANIC TRAFFIC NUMBER MEG 167

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120 ml	VOA	5-39061	45161072
120 ml	VOA	5-39062	45161072
8 oz	ext. organics	5-39059	65159062
8 oz	metals/inorganics	5-39060	65159062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil Sample from a leachate seep.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION S3 / S3 (from background)
Agricultural field South of site

SAMPLING DATE 9/26/85 SAMPLING TIME 1300

ORGANIC TRAFFIC NUMBER EE 334

INORGANIC TRAFFIC NUMBER MEG 168

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120 ml	VOA	5-39065	45161022
120 ml	VOA	5-39066	45161022
8 oz	ext. organics	5-39063	65159062
8 oz	metals/inorganics	5-39064	65159062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil sample from cornfield south of landfill. Collected as a background sample.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Champaign Municipal 05-8505-06

CASE NUMBER 4999

SAMPLE #/STATION LOCATION S4 / S4 (From low hole seep)

near W6(117) newly worked area; Fresh seep

SAMPLING DATE 9/26/85 SAMPLING TIME 1450

ORGANIC TRAFFIC NUMBER EE 335

INORGANIC TRAFFIC NUMBER MEG 169

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120 ml	VOA	5-39069	45161072
120 ml	VOA	5-39070	45161072
8 oz	ext. organics	5-39067	65159062
8 oz	metals/inorganics	5-39068	65159062

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil sample

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH

CONDUCTIVITY

TEMPERATURE

"HIT" SUMMARY SHEET

ELEMENTS IDENTIFIED AND MEASURED

CASE # 4999 TAS# R05-8505-06 SITE CHAMPAIGN MUNICIPAL

	Compound												
			W1	W2	W3	W4	W5	W6	W7*	BLANK			
		MEG/EE	158/324	159/325	160/326	161/327	162/328	163/329	164/330	165/331			
INORGANIC WATERS	ARSENIC	ug/l	15.6	—	63.9	u	52.8	u	52.5	u			
	BARIUM	ug/l	517	—	4252	(59)	1402	(118)	1407	u			
ORGANIC WATERS	BENZENE	ug/l	5.3	u	9.1	u	8.3	u	9.0	u			
	TRICHLOROETHANE	ug/l	u	6.5	u	u	u	7.7	u	u			
	CHLORO BENZENE	ug/l	u	u	14.0	u	6.1	u	6.5	u			
		MEG/EE	166/332	167/333	168/334	169/335							
			S1	S2	S3	S4							
INORGANIC SOILS	ARSENIC	mg/kg	u	7.4	u	u							
	CHROMIUM	mg/kg	9	10	11	13							
ORGANIC SOILS	Toluene	ug/kg	u	3.0 J	3.4 J	u							
	Dieldrin	ug/kg	u	u	449	u							
	Ethylbenzene	ug/kg	u	u	u	2.6 J							
	Phenanthrene	ug/kg	u	u	u	430 J							
	Anthracene	ug/kg	u	u	u	130 J							
	Pyrene	ug/kg	u	u	u	550							
	Chrysene	ug/kg	u	u	u	220 J							
	Flouranthene	ug/kg	u	u	u	1000							

W-1, W-2 upgradient, may be affected by mounding.

u = analyzed for but not detected

J = detected; estimated value

W-7 = Duplicate of W5

S3 = Soil from cornfield adjacent to site – fertilizer + pesticides added by farming operations

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

Date Received for Review: 11/9/85 Date Review Completed: 11/13/85

To: Dave Curnock

From: Cynthia Pugh

Subject: Champaign Municipal (Illinois)
(RS-8505-06)

Sample Description: Case # 4999: Low Water and Low Soil Metals

Project Data Status: Still awaiting Low Water and Low Soil Organics

FIT Data Review Findings:

Inorganic Soil Data acceptable with qualifications noted on attached review sheet.

Inorganic Water Data acceptable with qualifications noted below and on review sheet:

The field blank (ME6165) contains 423 ug/l Ca, 41 ug/l Fe, 491 ug/l Mg, 2 ug/l Mn, 1026 ug/l Na, and 4 ug/l Zn. Use data for those elements with caution-

Additional Comments: Sample values within an order of magnitude of the value for a metal found in a blank are unusable.

The following % differences existed between the amount of Zn and Ni detected in the sample ME6162 and Dup ME6164: Ni 20 %, Zn 16 %. Ni data should be used with caution.

Book No. 5
Page No. 38

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 11-5-85

SUBJECT: Review of Region V CLP Data
Received for Review on 10/21/85

RECEIVED NOV 0 5 1985

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

TO: Data User: Fit

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

SITE NAME: Champaign Municipal SMO Case No. 4999

EPA Data Set No. SF 2703 No. of Samples: 11 D.U./Activity Numbers 19051 C48500

CRL No. 85FC13375 - 85FC13384

SMO Traffic No. MEG158; MEG160 - MEG169

CLP Laboratory: Cal Hrs. Required for Review: 6 1/2

Following are our findings.

This review covers seven water samples and four soil samples.

The spike recovery for Sb in the soil spike sample was biased low (41%). No Sb was reported in the soil samples; the detection limits may be biased low. The reported Sb values for the soil samples should be considered estimates (UJ). The spike recoveries for Se (49%) and Tl (72%) in the soil sample are also biased low; the values reported for these elements should be considered estimates (UJ).

The spike recoveries for Hg (70%) and Se (73%) were biased low in the water spike sample. Reported values for these elements in the water samples should be considered estimates (UJ).

The duplicate analysis of soil sample MEG168 had a high RPD for Mn (24%) and for Pb (75%). The RPD for Pb was calculated using values obtained by two different furnace AA procedures and should not be considered valid.

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

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

EPA FORM 1320-6 (REV 3-76)

— Continued on Data Qualifiers sheet

DATA QUALIFIERS

RECEIVED NOV 0 9 1985

Contractor: CAL

Case 4999

- Continued from Data Review Sheet -

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

This sample (MEG168) had a high concentration of Pb. The original sample and duplicate analyses (prior to dilution) had comparable analyte concentrations (53 ppb and 50 ppb). The concentration after the single spike exceeded the standards range, necessitating a dilution. However, due to the spike recoveries on this original sample and duplicate, the sample required the MSA and the duplicate did not. The resulting values are those reported on form VI. The sample value for Pb in this sample (MEG168) should be considered an estimate.

Reviewed by: Jan Pelo

Phone: 353-2735

Date: 10/29/85

In Reference to Case No(s):
4999

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

RECEIVED NOV 0 9 1985

Date of Call: 10/28/85

Laboratory Name: CAL

Lab Contact: Sandi Buechler; John Barnett

Region: V

Regional Contact: Jan Pels

Call Initiated By: ___ Laboratory X Region

In reference to data for the following sample number(s):

1) MEG169
2) MEG168

Summary of Questions/Issues Discussed:

1) The raw ICP data for this sample is missing.
2) The duplicate analysis for Pb on this sample was done differently than the sample analysis and a high RPD exists. It is not clear how and why this was done.

Summary of Resolution:

1) Sandi will send this. Received 11/5/85 JPP
2) The sample contained a large amount of Pb; according to the furnace AA flow chart, the MSA was required for the sample analysis but not for the duplicate analysis. Both sample and duplicate were diluted. The resulting values were very different. It was suggested by the regional contact that in this sort of situation, the sample and duplicate should be treated in the same way in order to compare the data.

Jan Pels
Signature

10/29/85
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

U.S. EPA CONTRACT LABORATORY PROGRAM 85FC13375
SAMPLE MANAGEMENT OFFICE EPA SAMPLE NO:
P.O. BOX 818 ALEXANDRIA,VA 22313 MEG158
703/557-2490 FTS:8-557-2490 DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2904

RECEIVED NOV 0 9 1985

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

ELEMENTS..METHOD	UG/L	
1. ALUMINIUM...P	<187 U	
2. ANTIMONY....P	<23 U	
3. ARSENIC.....F	15.6	
4. BARIUM.....P	517	
5. BERYLLIUM...P	<0.40 U	
6. CADMIUM.....P	<4.8 U	
7. CALCIUM.....P	178400	
8. CHROMIUM....P	<2.4 U	
9. COBALT.....P	<4.0 U	
10.COPPER.....P	<2.6 U	
11.IRON.....P	33700	
12.LEAD.....F	<5.0 U	
13.MAGNESIUM...P	95860	
14.MANGANESE...P	246	
15.MERCURY....CV	<0.2 U	R
16.NICKEL.....P	<24 U	
17.POTASSIUM...P	60060	
18.SELENIUM....F	<25 U	R
19.SILVER.....P	<2.1 U	
20.SODIUM.....P	114900	
21.THALLIUM....F	<50 U	
22.TIN.....P	<60 U	
23.VANADIUM....P	<3.1 U	
24.ZINC.....P	[17]	
25.CYANIDE.....C	N/R	

COMMENTS:

LAB MANAGER: JPP

U.S. EPA CONTRACT LABORATORY PROGRAM 85FC13377
SAMPLE MANAGEMENT OFFICE EPA SAMPLE NO:
P.O. BOX 818 ALEXANDRIA,VA 22313 MEG160
703/557-2490 FTS:8-557-2490 DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2905

ELEMENTS IDENTIFIED AND MEASURED RECEIVED NOV 0 9 1985

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

ELEMENTS..METHOD	UG/L	
1. ALUMINIUM...P	<187 U	
2. ANTIMONY....P	<23 U	
3. ARSENIC.....F	63.9	
4. BARIUM.....P	4252	
5. BERYLLIUM...P	<0.40 U	
6. CADMIUM.....P	<4.8 U	
7. CALCIUM.....P	162600	
8. CHROMIUM....P	<2.4 U	
9. COBALT.....P	[21]	
10.COPPER.....P	<2.6 U	
11.IRON.....P	11540	
12.LEAD.....F	<5.0 U	
13.MAGNESIUM...P	223900	
14.MANGANESE...P	550	
15.MERCURY....CV	<0.2 U	R
16.NICKEL.....P	50	
17.POTASSIUM...P	109300	
18,SELENIUM....F	<25 U	R
19.SILVER.....P	<2.1 U	
20.SODIUM.....P	381400	
21.THALLIUM....F	<50 U	
22.TIN.....P	<60 U	
23.VANADIUM....P	<3.1 U	
24.ZINC.....P	[12]	
25.CYANIDE.....C	N/R	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM 85-C13511
SAMPLE MANAGEMENT OFFICE EPA SAMPLE NO:
P.O. BOX 818 ALEXANDRIA,VA 22313 MEG161
703/557-2490 FTS:8-557-2490 DATE:10/17/85

INORGANCC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2906

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

RECEIVED NOV 0 9 1985

ELEMENTS..METHOD		UG/L	
1. ALUMINIUM...P		<187 U	
2. ANTIMONY....P		<23 U	
3. ARSENIC.....F		<10 U	
4. BARIUM.....P	[	59]	
5. BERYLLIUM...P		<0.40 U	
6. CADMIUM.....P		<4.8 U	
7. CALCIUM.....P		66230	
8. CHROMIUM....P		<2.4 U	
9. COBALT.....P		<4.0 U	
10.COPPER.....P		<2.6 U	
11.IRON.....P	[	48]	
12.LEAD.....F		<5.0 U	
13.MAGNESIUM...P		31920	
14.MANGANESE...P		399	
15.MERCURY....CV		<0.4 U	R
16.NICKEL.....P		<24 U	
17.POTASSIUM...P		<542 U	
18.SELENIUM....F		<5.0 U	R
19.SILVER.....P		<2.1 U	
20.SODIUM.....P		19910	
21.THALLIUM....F		<10 U	
22.TIN.....P		<60 U	
23.VANADIUM....P		<3.1 U	
24.ZINC.....P	[	11]	
25.CYANIDE.....C		N/R	

COMMENTS:

LAB MANAGER: JRB

85FC13579

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

EPA SAMPLE NO:
MEG162
DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2907

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

RECEIVED NOV 0 9 1985

ELEMENTS..METHOD	UG/L	
1. ALUMINIUM...P	<187 U	
2. ANTIMONY....P	<23 U	
3. ARSENIC.....F	52.8	S
4. BARIUM.....P	1402	
5. BERYLLIUM...P	<0.40 U	
6. CADMIUM.....P	<4.8 U	
7. CALCIUM.....P	166200	
8. CHROMIUM....P	<2.4 U	
9. COBALT.....P	[14]	
10.COPPER.....P	<2.6 U	
11.IRON.....P	13990	
12.LEAD.....F	<5.0 U	
13.MAGNESIUM...P	220300	
14.MANGANESE...P	869	
15.MERCURY....CV	<0.2 U	R
16.NICKEL.....P	55	
17.POTASSIUM...P	130700	
18,SELENIUM....F	<25 U	R
19.SILVER.....P	<2.1 U	
20.SODIUM.....P	437400	
21.THALLIUM....F	<50 U	
22.TIN.....P	<60 U	
23.VANADIUM....P	<3.1 U	
24.ZINC.....P	[16]	
25.CYANIDE.....C	N/R	

COMMENTS:

LAB MANAGER: JRB

85FC13079

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

EPA SAMPLE NO:
MEG164
DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2909

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

RECEIVED NOV 0 9 1985

ELEMENTS..METHOD	UG/L	
1. ALUMINIUM...P	<187 U	
2. ANTIMONY....P	<23 U	
3. ARSENIC.....F	53.5	S
4. BARIUM.....P	1407	
5. BERYLLIUM...P	<0.40 U	
6. CADMIUM.....P	<4.8 U	
7. CALCIUM.....P	163900	
8. CHROMIUM....P	<2.4 U	
9. COBALT.....P	[13]	
10.COPPER.....P	<2.6 U	
11.IRON.....P	14500	
12.LEAD.....F	<5.0 U	
13.MAGNESIUM...P	217400	
14.MANGANESE...P	860	
15.MERCURY....CV	<0.2 U	R
16.NICKEL.....P	69	
17.POTASSIUM...P	129300	
18,SELENIUM....F	<25 U	R
19.SILVER.....P	<2.1 U	
20.SODIUM.....P	428400	
21.THALLIUM....F	<50 U	
22.TIN.....P	<60 U	
23.VANADIUM....P	<3.1 U	
24.ZINC.....P	[19]	
25.CYANIDE.....C	N/R	

COMMENTS:

LAB MANAGER: JRB

85FC13580

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

EPA SAMPLE NO:
MEG163
DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2908

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

RECEIVED NOV 0 9 1985

ELEMENTS..METHOD	UG/L	
1. ALUMINIUM...P	<187 U	
2. ANTIMONY....P	<23 U	
3. ARSENIC.....F	<10 U	
4. BARIUM.....P	[118]	
5. BERYLLIUM...P	<0.40 U	
6. CADMIUM.....P	<4.8 U	
7. CALCIUM.....P	192700	
8. CHROMIUM....P	<2.4 U	
9. COBALT.....P	<4.0 U	
10.COPPER.....P	<2.6 U	
11.IRON.....P	[93]	
12.LEAD.....F	<5.0 U	
13.MAGNESIUM...P	92480	
14.MANGANESE...P	2318	
15.MERCURY....CV	<0.2 U	R
16.NICKEL.....P	<24 U	
17.POTASSIUM...P	<542 U	
18.SELENIUM....F	<5.0 U	R
19.SILVER.....P	<2.1 U	
20.SODIUM.....P	22150	
21.THALLIUM....F	<50 U	
22.TIN.....P	<60 U	
23.VANADIUM....P	<3.1 U	
24.ZINC.....P	[7]	
25.CYANIDE.....C	N/R	

COMMENTS:

LAB MANAGER: JRB

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

95FC13R10

EPA SAMPLE NO:
MEG165
DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2910

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

RECEIVED NOV 0 9 1985

ELEMENTS..METHOD	UG/L	
1. ALUMINIUM...P	<187 U	
2. ANTIMONY....P	<23 U	
3. ARSENIC.....F	<10 U	
4. BARIUM.....P	<11 U	
5. BERYLLIUM...P	<0.40 U	
6. CADMIUM.....P	<4.8 U	
7. CALCIUM.....P	[423]	
8. CHROMIUM....P	<2.4 U	
9. COBALT.....P	<4.0 U	
10.COPPER.....P	<2.6 U	
11.IRON.....P	[41]	
12.LEAD.....F	<5.0 U	
13.MAGNESIUM...P	[491]	
14.MANGANESE...P	[2]	
15.MERCURY....CV	<0.2 U	R
16.NICKEL.....P	<24 U	
17.POTASSIUM...P	<542 U	
18.SELENIUM....F	<5.0 U	R
19.SILVER.....P	<2.1 U	
20.SODIUM.....P	[1026]	
21.THALLIUM....F	<10 U	
22.TIN.....P	<60 U	
23.VANADIUM....P	<3.1 U	
24.ZINC.....P	[4]	
25.CYANIDE.....C	N/R	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM 85FC1358/
SAMPLE MANAGEMENT OFFICE EPA SAMPLE NO:
P.O. BOX 818 ALEXANDRIA,VA 22313 MEG166
703/557-2490 FTS:8-557-2490 DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2911

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

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ELEMENTS..METHOD		MG/KG		DRY WEIGHT
1. ALUMINIUM...P		5567		
2. ANTIMONY....P	<	16U		R
3. ARSENIC.....F	<	6.8U		
4. BARIUM.....P	[	76]	E	
5. BERYLLIUM...P	[	0.3]		
6. CADMIUM.....P	<	3.3U		
7. CALCIUM.....P		45651	E	
8. CHROMIUM....P		9		
9. COBALT.....P	[	16]		
10.COPPER.....P	<	2U		
11.IRON.....P		148219		
12.LEAD.....F		16.6		*
13.MAGNESIUM...P		4676		
14.MANGANESE...P		1381		*
15.MERCURY....CV	<	0.1U		
16.NICKEL.....P	<	16U		
17.POTASSIUM...P	[	1392]		
18.SELENIUM....F		17.1		R
19.SILVER.....P	<	1.4U		
20.SODIUM.....P	[	1414]		
21.THALLIUM....F	<	7U		R
22.TIN.....P	<	41U		
23.VANADIUM....P	[	12.3]		
24.ZINC.....P		6328		
% SOLID		73		

COMMENTS:

LAB MANAGER: JRB

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

BFC13572

EPA SAMPLE NO:
MEG167
DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2912

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

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ELEMENTS..METHOD		MG/KG DRY WEIGHT	
1. ALUMINIUM...P		9118	
2. ANTIMONY....P	<	16U	R
3. ARSENIC.....F		7.4	
4. BARIUM.....P		128	E
5. BERYLLIUM...P	[	0.4]	
6. CADMIUM.....P	<	3.3U	
7. CALCIUM.....P		10368	E
8. CHROMIUM....P		10	
9. COBALT.....P	[	11]	
10.COPPER.....P	[	11]	
11.IRON.....P		19056	
12.LEAD.....F		21.9	*
13.MAGNESIUM...P		6902	
14.MANGANESE...P		1142	*
15.MERCURY....CV	<	0.1U	
16.NICKEL.....P	<	17U	
17.POTASSIUM...P	[	1986]	
18.SELENIUM....F	<	3.5U	R
19.SILVER.....P	<	1.5U	
20.SODIUM.....P	[	697]	
21.THALLIUM....F	<	7U	R
22.TIN.....P	<	42U	
23.VANADIUM....P	[	19.6]	
24.ZINC.....P		59	
% SOLID		72	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM 85FC13583
SAMPLE MANAGEMENT OFFICE EPA SAMPLE NO:
P.O. BOX 818 ALEXANDRIA,VA 22313 MEG168
703/557-2490 FTS:8-557-2490 DATE:10/17/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2913

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG		DRY WEIGHT
1. ALUMINIUM...P		9909		
2. ANTIMONY....P	<	14U		R
3. ARSENIC.....F	<	6.1U		
4. BARIUM.....P		138	E	
5. BERYLLIUM...P	[	0.7]		
6. CADMIUM.....P	<	2.9U		
7. CALCIUM.....P		3429	E	
8. CHROMIUM....P		11		
9. COBALT.....P	[	10]		
10.COPPER.....P		15		
11.IRON.....P		15854		
12.LEAD.....F		38.6	S	*
13.MAGNESIUM...P	[	1872]		
14.MANGANESE...P		868		*
15.MERCURY....CV	<	0.0U		
16.NICKEL.....P	<	15U		
17.POTASSIUM...P		2624		
18.SELENIUM....F	<	3.0U		R
19.SILVER.....P	<	1.3U		
20.SODIUM.....P	[	538]		
21.THALLIUM....F	<	6U		R
22.TIN.....P	<	37U		
23.VANADIUM....P	[	23.1]		
24.ZINC.....P		54		
% SOLID		82		

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COMMENTS:

LAB MANAGER: JCB

85FC13584

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

EPA SAMPLE NO:
MEG169
DATE:10/17/85

INORGANIC ANALYSIS SHEET

11

LAB NAME: CALIF.ANAL.LAB. CASE NO:4999
SOW NO.: 784 QC RPT.#4999
LAB.SAMPLE NO.: P2914

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG		DRY WEIGHT
1. ALUMINIUM...P		7267		
2. ANTIMONY....P	<	15U		R
3. ARSENIC.....F	<	6.7U		
4. BARIUM.....P	[	42]	E	
5. BERYLLIUM...P	[	0.5]		
6. CADMIUM.....P	<	3.2U		
7. CALCIUM.....P		40107	E	
8. CHROMIUM....P		13		
9. COBALT.....P	[	8]		
10.COPPER.....P		14		
11.IRON.....P		18240		
12.LEAD.....F		16.7		*
13.MAGNESIUM...P		22740		
14.MANGANESE...P		586		*
15.MERCURY....CV	<	0.1U		
16.NICKEL.....P		22		
17.POTASSIUM...P	[	2205]		
18.SELENIUM....F	<	3.3U		R
19.SILVER.....P	<	1.4U		
20.SODIUM.....P	[	795]		
21.THALLIUM....F	<	7U		R
22.TIN.....P	<	40U		
23.VANADIUM....P	[	14.4]		
24.ZINC.....P		58		
% SOLID		75		

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COMMENTS:

LAB MANAGER: JRB

DATA REVIEW SHEET

CASE # 4999
DATA SET # SF 2703
LAB Q.C.# 4999
DATE: 10/28/85

SITE Champaign Municipal
LAB CAL
REVIEWED BY Jan Ails

MATRIX: W(7); S(4)
CONC. : L(7); L(4)

WATER SAMPLE SPK. MEG161
WATER SAMPLE DUP. MEG161
SOIL SAMPLE SPK. MEG168
SOIL SAMPLE DUP. MEG168

Metals:	CALIBRATION ICV	CCV	CCV	CCV	BLANKS ICB	PREP	PREP	ICP INTER. SPIKE INT	FINAL	WATER	SOIL	DUPLICATE WATER	SOIL	LCS WATER	SOIL			
1. Aluminum																		
2. Antimony											41							
3. Arsenic																		
4. Barium																		
5. Beryllium																		
6. Cadmium																		
7. Calcium																		
8. Chromium																		
9. Cobalt																		
10. Copper																		
11. Iron																		
12. Lead													*75					
13. Magnesium																		
14. Manganese													24					
15. Mercury										*70								
16. Nickel																		
17. Potassium																		
18. Selenium										73	49							
19. Silver																		
20. Sodium																		
21. Thallium											72							
22. Vanadium																		
23. Zinc																		
24. Cyanide																		
Other:																		

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Case: 4999

Contractor: CAL

DATA PACKAGE COMPLETENESS AUDIT

I. Cover Page

✓ The cover page must include general comments, Statement of Work Number, QC Report #, EPA cross reference numbers, footnotes used in the data package, and the statement on ICP corrections.

II. Inorganic Data Report Sheet - Form I

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A completed Form I must be submitted for every sample in that case.

✓ Proper matrix and concentration level indicated.

✓ % solids reported for solid samples.

✓ Analytical method code for each parameter. "P" for ICP/flame AA or "F" for furnace.

✓ Any dilutions affecting the IDL explained in the comment section.

Not done correctly For positive values less than the contract required detection limit, the value is put in brackets. [ ].

✓ For not detected, the detection limit is reported, followed by a "U".

✓ Lab manager's signature.

III. QA/QC Data

The following forms must be submitted. A check for completeness and and compliance follows in this audit.

✓ Initial and Continuing Calibration Verification - Form II.

✓ Blank data - Form III

✓ ICP Interference Check Sample - Form IV

✓ Spike Sample Recovery - Form V

✓ Duplicate Data - Form VI

✓ Instrument Detection Limit and Laboratory Control Sample - Form VII.

✓ Standard Addition Results - Form VIII

IV. Raw Data

A legible photocopy of raw data consisting of the sequential measurement readout record, such as an instrument tape or printout, clearly labeled with sufficient information to identify both the sample identity and the final result must be submitted for each of the following.

✓ calibration standards, with prep date.

✓ calibration and preparation blanks

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✓ initial and continuing calibration

✓ interference check samples, initial and continuing.

✓ duplicates

✓ spikes - indicating standard solutions used, final spike concentrations and volumes involved.

waiting for ICP data on sample #EG 169. 10/29/85

* ✓ samples - including all weights, dilutions and volumes used to obtain the reported value.

✓ instrument adjustments or corrections, if any.

✓ raw furnace data for:

- initial single spike data
- single spike % recovery, if used
- full method of standard addition, if performed.
- method of standard addition correlation coefficient, slope and intercept of linear fit.

V. Sample Traffic Report

✓ Copy of SMO Sample Traffic Report with lab receipt information and original contractor signature.

FORM V
QC REPT NUMBER: 4999
SPIKE SAMPLE RECOVERY

LAB NAME: CALIF. ANAL. LABS.

CASE NO.: 4999
EPA SAMPLE #:MEG161
LAB SAMPLE #: P2906

DATE: 10/17/85
MATRIX: LOW WATER

UNITS: UG/L

RECEIVED NOV 0 9 1985

COMPOUNDS METALS:	CONTROL LIMIT % R	SPIKED SAMPLE RESULT (SSR)	SAMPLE RESULT (SR)	SPIKED ADDED (SA)	% R
ELEMENTS..METHOD					
1. ALUMINIUM...P	75 TO 125	2046	0	2000	102
2. ANTIMONY....P	75 TO 125	566.7	0	600	94
3. ARSENIC.....F	75 TO 125	22.4	0	20	112
4. BARIUM.....P	75 TO 125	1962	0	2000	98
5. BERYLLIUM...P	75 TO 125	48.1	0	50	96
6. CADMIUM.....P	75 TO 125	53.9	0	50	108
7. CALCIUM.....P	75 TO 125	163900	66230	100000	98
8. CHROMIUM....P	75 TO 125	181.5	0	200	91
9. COBALT.....P	75 TO 125	444.3	0	500	89
10.COPPER.....P	75 TO 125	241.8	0	250	97
11.IRON.....P	75 TO 125	1005	0	1000	101
				500	
12.LEAD.....F	75 TO 125	18.9	0	20	95
13.MAGNESIUM...P	75 TO 125	78680	31920	50000	94
14.MANGANESE...P	75 TO 125	574.5	398.7	200	88
15.MERCURY....CV	75 TO 125	0.7	0	1	70R
16.NICKEL.....P	75 TO 125	372.9	0	400	93
17.POTASSIUM...P	75 TO 125	48750	0	50000	98
18.SELENIUM....F	75 TO 125	7.3	0	10	73R
19.SILVER.....P	75 TO 125	39.7	0	50	79
20.SODIUM.....P	75 TO 125	123600	19910	100000	104
21.THALLIUM....F	75 TO 125	37.8	0	50	76
22.TIN.....P	75 TO 125	402.2	0	400	101
23.VANADIUM....P	75 TO 125	455.7	0	500	91
24.ZINC.....P	75 TO 125	193.9	0	200	97
25.CYANIDE.....C	75 TO 125	N/R	N/R		

COMMENTS:

FORM V
QC REPT NUMBER: 4999
SPIKE SAMPLE RECOVERY

LAB NAME: CALIF. ANAL. LABS.

CASE NO.: 4999
EPA SAMPLE #:MEG168
LAB SAMPLE #:P2913

DATE: 10/17/85
MATRIX: LOW SOIL

UNITS: UG/L

RECEIVED NOV 0 9 1985

COMPOUNDS METALS:	CONTROL LIMIT % R	SPIKED SAMPLE RESULT (SSR)	SAMPLE RESULT (SR)	SPIKED ADDED (SA)	% R
ELEMENTS..METHOD					
1. ALUMINIUM...P	75 TO 125	N/R	N/R		
2. ANTIMONY....P	75 TO 125	248	0	600	41R
3. ARSENIC.....F	75 TO 125	46	0	40	115
4. BARIUM.....P	75 TO 125	2097	226.8	2000	94
5. BERYLLIUM...P	75 TO 125	49.2	0	50	98
6. CADMIUM.....P	75 TO 125	56.5	0	50	113
7. CALCIUM.....P	75 TO 125	N/R	N/R		
8. CHROMIUM....P	75 TO 125	204.5	18.7	200	93
9. COBALT.....P	75 TO 125	477	0	500	95
10.COPPER.....P	75 TO 125	266.1	25.2	250	96
11.IRON.....P	75 TO 125	N/R	N/R		
12.LEAD.....F	75 TO 125	46.9	63.3	20	82
13.MAGNESIUM...P	75 TO 125	N/R	N/R		
14.MANGANESE...P	75 TO 125	1855	1423	500	86
15.MERCURY....CV	75 TO 125	1	0	1	100
16.NICKEL.....P	75 TO 125	467.7	0	500	94
17.POTASSIUM...P	75 TO 125	N/R	N/R		
18.SELENIUM....F	75 TO 125	4.9	0	10	49R
19.SILVER.....P	75 TO 125	47.7	0	50	95
20.SODIUM.....P	75 TO 125	N/R	N/R		
21.THALLIUM....F	75 TO 125	36	0	50	72R
22.TIN.....P	75 TO 125	469.5	0	500	94
23.VANADIUM....P	75 TO 125	501.5	0	500	100
24.ZINC.....P	75 TO 125	553.2	88.1	500	93

COMMENTS:

FORM VI
QC REPORT NUMBER: 4999
DUPLICATE SAMPLE RECOVERY

LAB NAME: CALIF. ANAL. LABS.

CASE NO.: 4999
EPA SAMPLE NO.: MEG161
LAB SAMPLE NO.: P2906

DATE: 10/17/85
MATRIX: LOW WATER

UNITS: UG/L

RECEIVED NOV 0 9 1985

COMPOUNDS METALS:	CONTROL LIMIT	SAMPLE(S)	DUPLICATES(D)	RPD
ELEMENTS..METHOD				
1. ALUMINIUM...P		0	0	NC
2. ANTIMONY....P		0	0	NC
3.ARSENIC.....F		0	0	NC
4. BARIUM.....P		0	0	NC
5. BERYLLIUM...P		0	0	NC
6. CADMIUM.....P		0	0	NC
7. CALCIUM.....P		66230	67900	2
8. CHROMIUM....P		0	0	NC
9. COBALT.....P		0	0	NC
10.COPPER.....P		0	0	NC
11.IRON.....P		0	0	NC
12.LEAD.....F		0	0	NC
13.MAGNESIUM...P		31920	32620	2
14.MANGANESE...P		398.7	408.6	2
15.MERCURY....CV		0	0	NC
16.NICKEL.....P		0	0	NC
17.POTASSIUM...P		0	0	NC
18.SELENIUM....F		0	0	NC
19.SILVER.....P		0	0	NC
20.SODIUM.....P		19910	20420	3
21.THALLIUM....F		0	0	NC
22.TIN.....P		0	0	NC
23.VANADIUM....P		0	0	NC
24.ZINC.....P		0	0	NC
25.CYANIDE.....C		N/R	N/R	NC

COMMENTS:

FM VI
QC REPT NUMBER: 4999
DUPLICATE SAMPLE RECOVERY

LAB NAME: CALIF. ANAL. LABS.

CASE NO.: 4999
EPA SAMPLE NO.:MEG168
LAB SAMPLE NO.:P2913

DATE: 10/17/85
MATRIX: LOW SOIL

UNITS: UG/L

RECEIVED NOV 0 9 1985

COMPOUNDS METALS:	CONTROL LIMIT	SAMPLE(S)	DUPLICATES(D)	RPD
ELEMENTS..METHOD				
1. ALUMINIUM...P		16250	15280	6
2. ANTIMONY....P		0	0	NC
3. ARSENIC.....P		0	0	NC
4. BARIUM.....P		226.8	236.9	4
5. BERYLLIUM...P		0	0	NC
6. CADMIUM.....P		0	0	NC
7. CALCIUM.....P		5623	5506	2
8. CHROMIUM....P		18.7	17.8	5
9. COBALT.....P		0	0	NC
10.COPPER.....P		25.2	0	NC
11.IRON.....P		26000	25510	2
12.LEAD.....F		63.3	28.7	75*
13.MAGNESIUM...P		0	0	NC
14.MANGANESE...P		1423	1813	24*
15.MERCURY....CV		0	0	NC
16.NICKEL.....P		0	0	NC
17.POTASSIUM...P		0	0	NC
18.SELENIUM....P		0	5.2	NC
19.SILVER.....P		0	0	NC
20.SODIUM.....P		0	0	NC
21.THALLIUM....F		0	0	NC
22.TIN.....P		0	0	NC
23.VANADIUM....P		0	0	NC
24.ZINC.....P		88.1	85.8	3

COMMENTS:

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

Date Received for Review: 12-5-85 Date Review Completed: 12-10-85

To: Dave Curnock

From: Cynthia Pugh

Subject: Champaign Municipal Illinois R05-8505-06

Sample Description: Case # 4999 12 low water organics

Project Data Status: Complete

FIT Data Review Findings:

See attached CRL review.
Blank was clean. (EE331)
The relative percent difference for total xylenes between the sample EE328 and its duplicate EE330 was 35%. Acceptable limits are ≤15%. Hexahydro-2H-Azepin-2-one is a contaminant from nylon rope. This was found as a TIC.

Additional Comments:

Book No. 5
Page No. 38

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12/2/85

RECEIVED DEC 0 5 1985

SUBJECT: Review of Region V CLP Data
Received for Review on 11-8-85

FROM: Curtis Ross, Director
Central Regional Laboratory
J. Francis Thomas

TO: Data User: FIT

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

SITE NAME Champaign Municipal SMO Case No. 4999

EPA Data Set No. SF2703 No. of Samples 12 D.U./Activity Numbers 9905 1C48500

CRL No. 85FC13575-85FC13584

SMO Traffic No. EE324-EE335

Contract Laboratory: HPZ ELTON Hours Required for Review: 14.5

Following are our findings.

1. Holding times, surrogates, matrix spikes and reagent blanks were acceptable
2. Field blanks and duplicates were acceptable
3. All initial and continuing calibration criteria were met
4. For samples EE332 to EE335 there was chromatographic evidence that several pesticides may be present at less than the detection limit.

Patricia J. Chunelle
11-29-85

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

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

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NOV 25 1985

US EPA CENTRAL REGIONAL LAB
539 S. CLARK STREET
CHICAGO, ILLINOIS 60605

SF 2703

In Reference to Case No(s):

4[illegible]

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

RECEIVED DEC 0 5 1985

Date of Call: 11-21-85

Laboratory Name: [illegible]

Lab Contact: [illegible]

Region: V

Regional Contact: PAT [illegible]

Call Initiated By: ____ Laboratory ___Y___ Region

In reference to data for the following sample number(s):

EE332, EE 333 EE334 EE 335

Summary of Questions/Issues Discussed:

(1) PAT questioned the dilutions that the pesticides were analyzed at. The dilutions ranged from 1-3 to 1-10.

(2) Incorrect time of DFTPP tune noted on form II dated 10-1-85.

Summary of Resolution:

(1) EE334 was diluted 1:10 to bring dieldrin on scale. This compound was confirmed and reported on form I. The other samples were diluted 1-3 ~ 1-4 to bring early peaks on scale and were found to be pesticides. Please refer to all lab data review for conversion of calculated diluted hits to undiluted DL's.

(2) Form II is resubmitted with corrected time (1ETC)

David C [illegible] 11-21-85

Signature **Date**

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

Case 4999 (Soils)

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Samples in Question: EE 332 (1→3), EE 333 (1→4), EE 334 (1→10), EE 335 (1→

from the contract (3.6.2.3.2) "If the response for any compound is greater than 100% of full scale, dilute the extract so that the peak will be between 50 and 100% full scale and reanalyze on the packed column."

EE 334 was diluted (1→10) to bring the Dieldrin peak on scale.

EE 332, EE 333, and EE 335 were diluted to bring 3 early peaks on scale. These peaks were not found to be ~~compounds~~ pesticides analyzed for.

The data for EE 332, EE 333 and EE 335 has been reviewed and the concentrations of those compounds found at less than the calculated detection limit are compared to the detection limit if not diluted. The results are as follows:

EE 332 (1→3)

Compound	*Concentration	Detection Limit No Dilution	Detection Limit with Dilution
β-BHC	**5.01 µg/kg	10.3 µg/kg	31.0 µg/kg
Heptachlor Epoxide	1.9 µg/kg	10.3 µg/kg	31.0 µg/kg
Dieldrin	4.7 µg/kg	20.7 µg/kg	62.1 µg/kg
Endrin	2.4 µg/kg	20.7 µg/kg	62.1 µg/kg
Endosulfan II	2.9 µg/kg	20.7 µg/kg	62.1 µg/kg
Endosulfan Sulfate	13.4 µg/kg	20.7 µg/kg	62.1 µg/kg

5F2703

HAZLETON LABORATORIES AMERICA, INC

3301 KINSMAN BLVD. • P.O. BOX 7545 • MADISON, WI 53707 • (608) 241-4471 • TLX 703956 HAZRAL MDS UD

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U.S. EPA CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

November 4, 1985

Sample Management Office
Viar and Company
300 North Lee Street
Alexandria, VA 22314

Enclosed please find the data packages for Case 4999 which was received on September 27, 1985 from Region V. This case contained seven waters and four soils for full analysis and one water for VOA analysis only. All samples were analyzed and reported according to the protocols provided under our contract 68-01-7146.

Please note the following summary comments relating to the quality control requirements for this case:

- GC-MS Tuning - Both BFB and DFTPP tuning reqirements were met for all samples analyzed in this case.

- Instrumental Calibrations - Instrunental calibrations for all fractions analyzed were found within contract criteria for all initial and continuing calibration reqirements. Please note that on the Pesticide Evaluation Standards Summary (Form VIII), DBC was not added to our Individual Mix B, Toxaphene, or PCB 1260 due to coelution problems with either a specific target compound or major identifying peak. We also use an extra standard we call "Column Check" which contains only DDT and Endrin and is used for the calculations of breakdown.

- Blanks - All instrument, method, and holding blanks analyzed for all fractions in this case are within contract criteria with one exception. In the VOA blank analyzed on 10-1-85 2-butanone was found at a concentration of 11 ppb which exceeds the CRDL by 1 ppb. We are investigating the source of this contaminant, but felt that due to holding time criteria that to proceed with this analysis was justified.

- o Surrogate Recoveries - All recoveries of surrogate compounds in the volatile fraction were within contract criteria. One sample (EE329) analyzed for the BNA fraction required re-extraction/reanalysis due to poor acid surrogate recovery. The reanalysis generated the same poor recovery and therefore is considered a matrix problem. The recovery of DBC was found to be high in three water samples and low (16%) in one soil.

You will note that we have not started using forms and criteria from the July 1985 modifications yet. Since we did not receive them until late September and no summary of changes was provided or implementation date stated our final review of the SOW was not completed until late October. These modifications will be used starting with samples received on or after Octeber 22, 1985.

If you have any questions regarding the case or require further clairification, please feel free to call me at (608)-241-4471.

Sincerely,

David C. Hills

David C. Hills
Manager, Environmental Analysis

RECEIVED DEC 0 5 1985

DCH/mw

cc: USEPA Region V
USEPA EMSL-LV
Central File

RECEIVED DEC 0 5 1985

Case: 4799

Contractor: HAZELTON

TENTATIVELY IDENTIFIED COMPOUNDS
MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

85FC13575

Sample Number
EE - 324

Environmental Protection Agency. CLP Sample Management Office
P O Box 818. Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 49
Lab Sample ID No: SC907291
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By: David C Lyle
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-30-85 FRN 29013
Date Analyzed: 9-30-85 1600
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5.3 ~~5 U~~
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	1.2 J ~~5 U~~
108-90-7	Chlorobenzene	3.1 J ~~5 U~~
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	4.8 J ~~5 U~~

PJC 11-27-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R = UNUSABLE

Laboratory Name HALETON

Case No 4999

Sample Number
EE 324

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26492

Date Analyzed: 10-1-85 2014

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(-2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxyl)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON

Case No 4999

Sample Number

EE 324

Organics Analysis Data Sheet
(Page 3)

RECEIVED DEC 0 5 1985

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-10-85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	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
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 4.0 ul

Laboratory Name: HAZLETON

Case No: 4990

Sample Number: EE324

Organics Analysis Data Sheet
(Page 4)

RECEIVED DEC 0 5 1985

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	Unknown	BAN	760	14
2.	—	Unknown	|	1079	24
3.	105602	hexahydro-2H-Azepin-2-one	|	1423	570
4.	—	Unknown	↓	2773	20
5.					
6.	629-14-1	1,2-diethoxyethane	VOA	151	5.3J
7.	—	Unknown	VOA	170	17J
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
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25.					
26.					
27.					
28.					
29.					
30.					

85FC13576

Sample Number
EE 325

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818. Alexandria. Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 4999
Lab Sample ID No: 50907306
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By:
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9-30-85 FRN 29014
Date Analyzed: 9-30-85 1645
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	6.5 ~~5 U~~
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC 11-27-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R = UNUSABLE

Laboratory Name HAZLETON

Case No 4999

Sample Number EE325

Organics Analysis Data Sheet
(Page 4)

RECEIVED DEC 0 5 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 109-99-9	Tetrahydrofuran	VOA	150	6.9 J
2.				
3.				
4.				
5.				
6.				
7.				
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9.				
10.				
11.				
12.				
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28.				
29.				
30.				

85FC13577

Sample Number
EE 326

Environmental Protection Agency CLP Sample Management Office.
P O Box 818 Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 4997
Lab Sample ID No: 50907292
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By: David C Wild
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-30-85 FRN 29015
Date Analyzed: 9-30-85 1725
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	9.1 ~~5 U~~
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	14 ~~5 U~~
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

RJC 11-27-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution factors. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R=UNUSABLE

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: EE 326

Organics Analysis Data Sheet
(Page 4)

RECEIVED DEC 0 5 1985

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	–	Unknown	BAN	730	10
2.	–	Unknown	|	1061	23
3.	–	Unknown	|	1078	12
4.	–	Unknown	|	1089	19
5.	–	Unknown	|	1198	14
6.	105602	hexahydro- 2H- Azepin-2-one	|	1390	13
7.	–	Unknown	|	1442	10
8.	–	Unknown	|	1685	9.2
9.	–	Unknown	↓	2094	23
10.					
11.	109-99-9	Tetrahydro Furan	VOA	147	11
12.	629-41-1	1,2-diethoxy-ethane	|	166	37
13.	–	Unknown - No match found	↓	547	15
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

85FC13578

Sample Number
EE 327

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 4999
Lab Sample ID No: 50907293
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By: David C Uhl
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9-30-85 FRN 29016
Date Analyzed: 9-30-85 1810
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PSC 11-29-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R=UNUSABLE

Laboratory Name: HAZLETON

Case No: 4999

Sample Number
EE327

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26494

Date Analyzed: 10-1-85 2150

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(-2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxy)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

Laboratory Name: HAZLETON

Case No: 4990

Sample Number: EE 327

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

RECEIVED DEC 0 5 1985

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-10-85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	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
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 4.0 ul

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: EE327

Organics Analysis Data Sheet
(Page 4)

RECEIVED DEC 0 5 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or ug/kg)
1. 105602	hexahydro-2H-Azepin-2-one	BAN	1469	1300
2.				
3. 109-99-9	Tetrahydro-furan	VOA	148	34
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

85FC13579

Sample Number
EE 328

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818. Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 4999
Lab Sample ID No: 50907294
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By: David C. Hill
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-30-85 FRN 29017
Date Analyzed: 9-30-85 1850
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	8.3 ~~5 U~~
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	6.1 ~~5 U~~
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	20 ~~5 U~~

PJC 11-27-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R=UNUSABLE

Laboratory Name HAZLETON

Case No. 4999

Sample Number
EE328

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85 ERN 26495

Date Analyzed: 10-1-85 2238

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(-2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxyl)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	6J ~~20 U~~
106-47-8	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

LOW WATER

Laboratory Name HAZLETON

Case No 4999

Sample Number EE 338

Organics Analysis Data Sheet
(Page 3)

RECEIVED DEC 0 5 1985

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-10-85

Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	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
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10.000 ul V_i 4.0 ul

Laboratory Name: HARLETON

Case No: 4999

Sample Number: EE328

Organics Analysis Data Sheet
(Page 4)

RECEIVED DEC 0 5 1985

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or ug/kg)
1.	—	Unknown	BAN	40	25
2.	—	Unknown		729	9.0
3.	—	Unknown		759	9.8
4.	—	Unknown		928	20
5.	—	Unknown		1060	21
6.	76222	1,7,7- trimethyl- bicyclo[2.2.1] heptan - 2-one		1078	120
7.	—	Unknown		1087	9.4
8.	105662	hexahydro- 2H- Azepin - 2-one		1369	170
9.	—	Unknown		1441	8.2
10.	—	Unknown	↓	2091	9.7
11.					
12.	109-99-9	Tetrahydro furan	VOA	149	19 J
13.	629-14-1	1,2-diethoxyethane		168	38 J
14.	1066-40-6	trimethylsilanol		418	5.4 J
15.	462-95-3	1,1'-[methylene bis(oxy)]bis-ethane		314	4.8 J
16.	—	Unknown		507	16 J
17.	—	Unknown - no match found	↓	553	10 J
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

85FC13580

Sample Number
EE329

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 4999
Lab Sample ID No: 50907295
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By: [signature]
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9-30-85 FRN 29018
Date Analyzed: 9-30-85 1935
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	7.7 ~~5 U~~
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

JSC 11-27-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R = UNUSABLE

Laboratory Name HAZLETON

Case No 4999

Sample Number EE329

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26496

Date Analyzed: 10-1-85 2326

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(-2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxy)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON

Case No 4999

Sample Number

EE 329

Organics Analysis Data Sheet
(Page 3)

RECEIVED DEC 0 5 1985

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-10-85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	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
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 4.0 ul

Laboratory Name: HAZLETON

Case No: 4990

Sample Number: EE 329

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	Unknown	BAN	1227	82
2. 51422754	cis-1-bromo-2-chloro-cyclohexane	|	1338	9.7
3. 105602	hexahydro-2H-Azepin-2-one	↓	1403	250
4.				
5. 60-29-7	1,1'-oxybis-ethane	VOA	163	6.0
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Environmental Protection Agency CLP Sample Management Office
P O Box 818 Alexandria Virginia 22313 703 557-2490

Sample Number
EE 329 RE

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No. 4999
Lab Sample ID No: 50907295
QC Report No:
Sample Matrix: Water
Contract No: 68-01-7146
Data Release Authorized By: David C. Gilb
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed:
Conc/Dil Factor: pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1, 1-Dichloroethene	5 U
75-34-3	1, 1-Dichloroethane	5 U
156-60-5	Trans-1, 2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	5 U
10061-02-6	Trans-1, 3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1, 1, 2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other *Other specific flags and footnotes may be required to* properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name HAZLETON

Case No. 4999

RECEIVED DEC 0 5 1985

Sample Number
EE 329 RE

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10-3-85 FRN 2658

Date Analyzed: 10-7-85 2027

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(-2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxyl)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: EE329 RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. –	Unknown	BAN	435	9.6
2. –	Unknown		1209	26
3. 105602	hexahydro- 2H-azepin-2-one		1376	200
4.				
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85FC13D79

Sample Number
EE 330

Environmental Protection Agency CLP Sample Management Office
P O Box 818, Alexandria Virginia 22313 703-557-2490

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON LABORATORIES
Case No: 4999
Lab Sample ID No: 50907296
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By:
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 10-1-85 FRN 29024
Date Analyzed: 10-1-85 0010
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	J
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	J
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U	
78-87-5	1, 2-Dichloropropane	5 U	
10061-02-6	Trans-1, 3-Dichloropropene	5 U	
79-01-6	Trichloroethene	5 U	
124-48-1	Dibromochloromethane	5 U	
79-00-5	1, 1, 2-Trichloroethane	5 U	
71-43-2	Benzene	9.0 ~~5 U~~	
10061-01-5	cis-1, 3-Dichloropropene	5 U	
110-75-8	2-Chloroethylvinylether	10 U	
75-25-2	Bromoform	5 U	
591-78-6	2-Hexanone	10 U	
108-10-1	4-Methyl-2-Pentanone	10 U	
127-18-4	Tetrachloroethene	5 U	J PSC
108-88-3	Toluene	5 U	
108-90-7	Chlorobenzene	6.5 ~~5 U~~	
100-41-4	Ethylbenzene	5 U	
100-42-5	Styrene	5 U	
	Total Xylenes	13 ~~5 U~~	

RJC 11-27-85

Data Reporting Qualifiers

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C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

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R=UNUSABLE

Laboratory Name HAZLETON

Case No. 4999

Sample Number
EE330

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26499

Date Analyzed: 10-2-85 0150

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(-2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxyl)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	5 J ~~20 U~~
106-47-6	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

LOW WATER

Laboratory Name HAZLETON

Case No 2000

Sample Number
EE 330

Organics Analysis Data Sheet
(Page 3)

RECEIVED DEC 0 5 1985

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-10-85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	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
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 4.0 ul

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: EE 33C

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	565695	2-methyl-3-pentanone	BAN	40	22
2.	—	Unknown		759	9.9
3.	—	Unknown		923	17
4.	—	Unknown		1060	23
5.	76222	1,7,7-trimethyl-bicyclo[2.2.1]heptan-2-one		1079	120
6.	—	Unknown		1237	14
7.	105602	hexahydro-3H-Azepin-2-one		1367	200
8.	—	Unknown		1441	9.7
9.	—	Unknown	↓	2090	8.9
10.					
11.	109-99-9	tetrahydrofuran	VOA	150	22J
12.		*Above T.I.C. spectrum matches that of			
13.		scan #140 FRN 29017 sample EE328			
14.	629-14-1	1,2-diethoxyethane	VOA	170	40J
15.		*Spectrum matches that of scan #168			
16.		of FRN 29017 sample EE328			
17.	106-40-6	trimethylsilanol	VOA	221	7.1 J
18.		*Spectrum matches that of scan #218			
19.		of FRN 29017 sample EE328			
20.	462-95-3	1,1'-[methylene bis(oxy)] bis-ethane	VOA	315	6.3J
21.		*Spectrum matches that of scan # 314			
22.		of FRN 29017 sample EE328			
23.	76-22-2	Bicyclo[2.2.1]heptan-2-one, 1,7,7-	VOA	505	14J
24.		trimetyl-			
25.	—	Unknown - no match found	VOA	545	11J
26.					
27.		*Please see referenced FRN for			
28.		library search info.			
29.					
30.					

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Sample Number
EB331

85FC13R10

Organics Analysis Data Sheet
(Page 1)

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Laboratory Name: HAZLETON LABORATORIES
Case No: 4999
Lab Sample ID No: [illegible]7297
GC Report No:
Sample Matrix: WATER
Contract No: 68-01-7146
Data Release Authorized By: [signature]
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 10-1-85 ERN 29025
Date Analyzed: 10-1-85 0105
Conc/Dil Factor: 1 pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	J
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	J
75-09-2	Methylene Chloride	5 U	
67-64-1	Acetone	10 U	J
75-15-0	Carbon Disulfide	5 U	J
75-35-4	1, 1-Dichloroethene	5 U	
75-34-3	1, 1-Dichloroethane	5 U	
156-60-5	Trans-1, 2-Dichloroethene	5 U	
67-66-3	Chloroform	5 U	
107-06-2	1, 2-Dichloroethane	5 U	
78-93-3	2-Butanone	10 U	R
71-55-6	1, 1, 1-Trichloroethane	5 U	
56-23-5	Carbon Tetrachloride	5 U	
108-05-4	Vinyl Acetate	10 U	
75-27-4	Bromodichloromethane	5 U	

PJC 11-27-85

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U	
78-87-5	1, 2-Dichloropropane	5 U	
10061-02-6	Trans-1, 3-Dichloropropene	5 U	
79-01-6	Trichloroethene	5 U	
124-48-1	Dibromochloromethane	5 U	
79-00-5	1, 1, 2-Trichloroethane	5 U	
71-43-2	Benzene	5 U	
10061-01-5	cis-1, 3-Dichloropropene	5 U	
110-75-8	2-Chloroethylvinylether	10 U	
75-25-2	Bromoform	5 U	
591-78-6	2-Hexanone	10 U	
108-10-1	4-Methyl-2-Pentanone	10 U	
127-18-4	Tetrachloroethene	5 U	J PJC
108-88-3	Toluene	5 U	
108-90-7	Chlorobenzene	5 U	
100-41-4	Ethylbenzene	5 U	
100-42-5	Styrene	5 U	
	Total Xylenes	5 U	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution factors. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R = UNUSABLE

Laboratory Name HAZLETON

Case No: 4999

Sample Number
EE331

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26500

Date Analyzed: 10-2-85 0238

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 U
108-95-2	Phenol	20 U
62-53-3	Aniline	20 U
111-44-4	bis(2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1, 3-Dichlorobenzene	20 U
106-46-7	1, 4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1, 2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	20 U
105-67-9	2, 4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(-2-Chloroethoxy)Methane	20 U
120-83-2	2, 4-Dichlorophenol	20 U
120-82-1	1, 2, 4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	20 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-Methylphenol	20 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	20 U
88-06-2	2, 4, 6-Trichlorophenol	20 U
95-95-4	2, 4, 5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 U
51-28-5	2, 4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
121-14-2	2, 4-Dinitrotoluene	20 U
606-20-2	2, 6-Dinitrotoluene	20 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	100 U
86-30-6	N-Nitrosodiphenylamine (1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	20 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	20 U
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3, 3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	20 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 U
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	Benzo(b)Fluoranthene	20 U
207-08-9	Benzo(k)Fluoranthene	20 U
50-32-8	Benzo(a)Pyrene	20 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20 U
53-70-3	Dibenz(a, h)Anthracene	20 U
191-24-2	Benzo(g, h, i)Perylene	20 U

(1)-Cannot be separated from diphenylamine

LOW WATER

Laboratory Name: HAZLETON

Case No: 4999

Sample Number
SE 33

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-10-85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4, 4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4, 4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	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
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 4.0 ul

Laboratory Name HAZLETON

Case No 4000

Sample Number EE331

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	none found	BAN	—	—
2.				
3.	None Found	VOA	—	—
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

85FC13581

Sample Number
EE 332

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON

Case No: 4999

Lab Sample ID No: 50907298

QC Report No:

Sample Matrix: SOIL

Contract No: 68-01-7146

Data Release Authorized By: [signature]

Date Sample Received: 9-27-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10-1-85 FRN 29029

Date Analyzed: 10-1-85 1005

Conc/Dil Factor: 1 pH 7.6

Percent Moisture: 22.6% C.F. = 1.29

Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	13 U	
74-83-9	Bromomethane	13 U	J
75-01-4	Vinyl Chloride	13 U	
75-00-3	Chloroethane	13 U	J
75-09-2	Methylene Chloride	19	
67-64-1	Acetone	34	J
75-15-0	Carbon Disulfide	6.5 U	J
75-35-4	1,1-Dichloroethene	6.5 U	
75-34-3	1,1-Dichloroethane	6.5 U	
156-60-5	Trans-1,2-Dichloroethene	6.5 U	
67-66-3	Chloroform	6.5 U	
107-06-2	1,2-Dichloroethane	6.5 U	
78-93-3	2-Butanone	11 J	R
71-55-6	1,1,1-Trichloroethane	6.5 U	
56-23-5	Carbon Tetrachloride	6.5 U	
108-05-4	Vinyl Acetate	13 U	
75-27-4	Bromodichloromethane	6.5 U	

JSC 11-27-85

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1,1,2,2-Tetrachloroethane	6.5 U	
78-87-5	1,2-Dichloropropane	6.5 U	
10061-02-6	Trans-1,3-Dichloropropene	6.5 U	
79-01-6	Trichloroethene	6.5 U	
124-48-1	Dibromochloromethane	6.5 U	
79-00-5	1,1,2-Trichloroethane	6.5 U	
71-43-2	Benzene	6.5 U	
10061-01-5	cis-1,3-Dichloropropene	6.5 U	
110-75-8	2-Chloroethylvinylether	13 U	
75-25-2	Bromoform	6.5 U	
591-78-6	2-Hexanone	13 U	
108-10-1	4-Methyl-2-Pentanone	13 U	
127-18-4	Tetrachloroethene	6.5 U	J JSC
108-88-3	Toluene	6.5 U	
108-90-7	Chlorobenzene	6.5 U	
100-41-4	Ethylbenzene	6.5 U	
100-42-5	Styrene	6.5 U	
	Total Xylenes	6.5 U	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The features should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R = UNUSABLE

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: EE 332

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26512 1538

Date Analyzed: ~~10-4-85~~ 10/7/85 (OB) 10/11/85

Conc/Dil Factor: 1 C.F. = 1.29

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	430U
108-95-2	Phenol	430U
62-53-3	Aniline	430U
111-44-4	bis(-2-Chloroethyl)Ether	430U
95-57-8	2-Chlorophenol	430U
541-73-1	1, 3-Dichlorobenzene	430U
106-46-7	1, 4-Dichlorobenzene	430U
100-51-6	Benzyl Alcohol	430U
95-50-1	1, 2-Dichlorobenzene	430U
95-48-7	2-Methylphenol	430U
39638-32-9	bis(2-chloroisopropyl)Ether	430U
106-44-5	4-Methylphenol	430U
621-64-7	N-Nitroso-Di-n-Propylamine	430U
67-72-1	Hexachloroethane	430U
98-95-3	Nitrobenzene	430U
78-59-1	Isophorone	430U
88-75-5	2-Nitrophenol	430U
105-67-9	2, 4-Dimethylphenol	430U
65-85-0	Benzoic Acid	2200U
111-91-1	bis(-2-Chloroethoxy)Methane	430U
120-83-2	2, 4-Dichlorophenol	430U
120-82-1	1, 2, 4-Trichlorobenzene	430U
91-20-3	Naphthalene	430U
106-47-8	4-Chloroaniline	430U
87-68-3	Hexachlorobutadiene	430U
59-50-7	4-Chloro-3-Methylphenol	430U
91-57-6	2-Methylnaphthalene	430U
77-47-4	Hexachlorocyclopentadiene	430U
88-06-2	2, 4, 6-Trichlorophenol	430U
95-95-4	2, 4, 5-Trichlorophenol	2200U
91-58-7	2-Chloronaphthalene	430U
88-74-4	2-Nitroaniline	2200U
131-11-3	Dimethyl Phthalate	430U
208-96-8	Acenaphthylene	430U
99-09-2	3-Nitroaniline	2200U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	430U
51-28-5	2, 4-Dinitrophenol	2200U
100-02-7	4-Nitrophenol	2200U
132-64-9	Dibenzofuran	430U
121-14-2	2, 4-Dinitrotoluene	430U
606-20-2	2, 6-Dinitrotoluene	430U
84-66-2	Diethylphthalate	430U
7005-72-3	4-Chlorophenyl-phenylether	430U
86-73-7	Fluorene	430U
100-01-6	4-Nitroaniline	2200U
534-52-1	4, 6-Dinitro-2-Methylphenol	2200U
86-30-6	N-Nitrosodiphenylamine (1)	430U
101-55-3	4-Bromophenyl-phenylether	430U
118-74-1	Hexachlorobenzene	430U
87-86-5	Pentachlorophenol	2200U
85-01-8	Phenanthrene	430U
120-12-7	Anthracene	430U
84-74-2	Di-n-Butylphthalate	1200 B
206-44-0	Fluoranthene	430U
92-87-5	Benzidine	2200U
129-00-0	Pyrene	430U
85-68-7	Butylbenzylphthalate	430U
91-94-1	3, 3'-Dichlorobenzidine	430U
56-55-3	Benzo(a)Anthracene	430U
117-81-7	bis(2-Ethylhexyl)Phthalate	430U
218-01-9	Chrysene	430U
117-84-0	Di-n-Octyl Phthalate	430U
205-99-2	Benzo(b)Fluoranthene	430U
207-08-9	Benzo(k)Fluoranthene	430U
50-32-8	Benzo(a)Pyrene	430U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	430U
53-70-3	Dibenz(a, h)Anthracene	430U
191-24-2	Benzo(g, h, i)Perylene	430U

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818 Alexandria Virginia 22313 703/557-2490

HAZLETON LABORATORIES

CASE 4999

Organics Analysis Data Sheet
(Page 3)

Sample Number
EE332

Pesticide/PCBs

RECEIVED DEC 0 5 1985

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-29-85

Conc/Dil Factor: 3.0

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	31 U
319-85-7	Beta-BHC	31 U
319-86-8	Delta-BHC	31 U
58-89-9	Gamma-BHC (Lindane)	31 U
76-44-8	Heptachlor	31 U
309-00-2	Aldrin	31 U
1024-57-3	Heptachlor Epoxide	31 U
959-98-8	Endosulfan I	31 U
60-57-1	Dieldrin	62 U
72-55-9	4,4'-DDE	62 U
72-20-8	Endrin	62 U
33213-65-9	Endosulfan II	62 U
72-54-8	4,4'-DDD	62 U
7421-93-4	Endrin Aldehyde	62 U
1031-07-8	Endosulfan Sulfate	62 U
50-29-3	4,4'-DDT	62 U
72-43-5	Methoxychlor	310 U
53494-70-5	Endrin Ketone	62 U
57-74-9	Chlordane	310 U
8001-35-2	Toxaphene	620 U
12674-11-2	Aroclor-1016	310 U
11104-28-2	Aroclor-1221	310 U
11141-16-5	Aroclor-1232	310 U
53469-21-9	Aroclor-1242	310 U
12672-29-6	Aroclor-1248	310 U
11097-69-1	Aroclor-1254	620 U
11096-82-5	Aroclor-1260	620 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 30.0g 23.2g dry wt. V_t 1000 µL V_i 4.0 µL

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: EE332

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	Unknown	BAN	70	210
2.	108214	1-methyl ethyl ester acetic acid		194	1700 B
3.	123422	4-hydroxy-4-methyl-2-pentanone *		243	24000 B
4.	111466	2,2'-oxybis ethanol		632	~~1600~~ 700
5.	—	Unknown		1588	660
6.	—	Unknown		2480	1500
7.	—	Unknown cinnamate		2602	470 B
8.	10544506	Molecular Sulfur		2757	12000
9.	—	Unknown		2375	230
10.	—	Unknown		2383	420
11.	—	Unknown	↓	3132	320
12.					
13.	109-66-0	Pentane	VOA	206	241
14.		Spectrum matches that of scan #206			
15.		of FRN 29033, see that sample			
16.		EE334 for library search info			
17.	—	Unknown - no match found	VOA	356	8.5.1
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

NSW 10-25

* product of the aldol condensation of acetone

85FC13582

Sample Number
EE 333

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON
Case No: 4999
Lab Sample ID No: 50007299
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7146
Data Release Authorized By: David C Nelle
Date Sample Received: 9-27-85

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Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 10-1-85 FRN 29032
Date Analyzed: 10-1-85 1305
Conc/Dil Factor: 1 pH 7.7
Percent Moisture: 30.9% C.F.=1.45
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	14 U	
74-83-9	Bromomethane	14 U	J
75-01-4	Vinyl Chloride	14 U	
75-00-3	Chloroethane	14 U	J
75-09-2	Methylene Chloride	5.7 J	
67-64-1	Acetone	14 U	J
75-15-0	Carbon Disulfide	7 U	J
75-35-4	1, 1-Dichloroethene	7 U	
75-34-3	1, 1-Dichloroethane	7 U	
156-60-5	Trans-1, 2-Dichloroethene	7 U	
67-66-3	Chloroform	7 U	
107-06-2	1, 2-Dichloroethane	7 U	
78-93-3	2-Butanone	14 U	R
71-55-6	1, 1, 1-Trichloroethane	7 U	
56-23-5	Carbon Tetrachloride	7 U	
108-05-4	Vinyl Acetate	14 U	
75-27-4	Bromodichloromethane	7 U	

PJC 11-27-85

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1, 1, 2, 2-Tetrachloroethane	7 U	
78-87-5	1, 2-Dichloropropane	7 U	
10061-02-6	Trans-1, 3-Dichloropropene	7 U	
79-01-6	Trichloroethene	7 U	
124-48-1	Dibromochloromethane	7 U	
79-00-5	1, 1, 2-Trichloroethane	7 U	
71-43-2	Benzene	7 U	
10061-01-5	cis-1, 3-Dichloropropene	7 U	
110-75-8	2-Chloroethylvinylether	14 U	
75-25-2	Bromoform	7 U	
591-78-6	2-Hexanone	14 U	
108-10-1	4-Methyl-2-Pentanone	14 U	
127-18-4	Tetrachloroethene	7 U	J PJC
108-88-3	Toluene	3.0 J	
108-90-7	Chlorobenzene	7 U	
100-41-4	Ethylbenzene	7 U	
100-42-5	Styrene	7 U	
	Total Xylenes	7 U	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R=UNUSABLE

Laboratory Name: HAZLETON

Case No: 4990

Sample Number
EE333

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26515

Date Analyzed: ~~10-11-85~~ 10/7/85 (DB) 10/11/85 1902

Conc/Dil Factor: 1 C.F. = 1.45

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	490U
108-95-2	Phenol	490U
62-53-3	Aniline	490U
111-44-4	bis(-2-Chloroethyl)Ether	490U
95-57-8	2-Chlorophenol	490U
541-73-1	1, 3-Dichlorobenzene	490U
106-46-7	1, 4-Dichlorobenzene	490U
100-51-6	Benzyl Alcohol	490U
95-50-1	1, 2-Dichlorobenzene	490U
95-48-7	2-Methylphenol	490U
39638-32-9	bis(2-chloroisopropyl)Ether	490U
106-44-5	4-Methylphenol	490U
621-64-7	N-Nitroso-Di-n-Propylamine	490U
67-72-1	Hexachloroethane	490U
98-95-3	Nitrobenzene	490U
78-59-1	Isophorone	490U
88-75-5	2-Nitrophenol	490U
105-67-9	2, 4-Dimethylphenol	490U
65-85-0	Benzoic Acid	2400U
111-91-1	bis(-2-ChlorpethoxyMethane)	490U
120-83-2	2, 4-Dichlorophenol	490U
120-82-1	1, 2, 4-Trichlorobenzene	490U
91-20-3	Naphthalene	490U
106-47-8	4-Chloroaniline	490U
87-68-3	Hexachlorobutadiene	490U
59-50-7	4-Chloro-3-Methylphenol	490U
91-57-6	2-Methylnaphthalene	490U
77-47-4	Hexachlorocyclopentadiene	490U
88-06-2	2, 4, 6-Trichlorophenol	490U
95-95-4	2, 4, 5-Trichlorophenol	2400U
91-58-7	2-Chloronaphthalene	490U
88-74-4	2-Nitroaniline	2400U
131-11-3	Dimethyl Phthalate	480U
208-96-8	Acenaphthylene	480U
99-09-2	3-Nitroaniline	2400U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	490U
51-28-5	2, 4-Dinitrophenol	2400U
100-02-7	4-Nitrophenol	2400U
132-64-9	Dibenzofuran	490U
121-14-2	2, 4-Dinitrotoluene	490U
606-20-2	2, 6-Dinitrotoluene	490U
84-66-2	Diethylphthalate	490U
7005-72-3	4-Chlorophenyl-phenylether	490U
86-73-7	Fluorene	490U
100-01-6	4-Nitroaniline	2400U
534-52-1	4, 6-Dinitro-2-Methylphenol	2400U
86-30-6	N-Nitrosodiphenylamine (1)	490U
101-55-3	4-Bromophenyl-phenylether	490U
118-74-1	Hexachlorobenzene	490U
87-86-5	Pentachlorophenol	2400U
85-01-8	Phenanthrene	490U
120-12-7	Anthracene	490U
84-74-2	Di-n-Butylphthalate	1900 B
206-44-0	Fluoranthene	490U
92-87-5	Benzidine	2400U
129-00-0	Pyrene	490U
85-68-7	Butylbenzylphthalate	490U
91-94-1	3, 3'-Dichlorobenzidine	490U
56-55-3	Benzo(a)Anthracene	490U
117-81-7	bis(2-Ethylhexyl)Phthalate	490U
218-01-9	Chrysene	490U
117-84-0	Di-n-Octyl Phthalate	490U
205-99-2	Benzo(b)Fluoranthene	490U
207-08-9	Benzo(k)Fluoranthene	490U
50-32-8	Benzo(a)Pyrene	490U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	490U
53-70-3	Dibenz(a, h)Anthracene	490U
191-24-2	Benzo(g, h, i)Perylene	490U

(1)-Cannot be separated from diphenylamine

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HAZLETON LABORATORIES

CASE 4999

Organics Analysis Data Sheet
(Page 3)

Sample Number
EE333

Pesticide/PCBs

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Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-29-85

Conc/Dil Factor: 4.0

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	47 U
319-85-7	Beta-BHC	47 U
319-86-8	Delta-BHC	47 U
58-89-9	Gamma-BHC (Lindane)	47 U
76-44-8	Heptachlor	47 U
309-00-2	Aldrin	47 U
1024-57-3	Heptachlor Epoxide	47 U
959-98-8	Endosulfan I	47 U
60-57-1	Dieldrin	93 U
72-55-9	4, 4'-DDE	93 U
72-20-8	Endrin	93 U
33213-65-9	Endosulfan II	93 U
72-54-8	4, 4'-DDD	93 U
7421-93-4	Endrin Aldehyde	93 U
1031-07-8	Endosulfan Sulfate	93 U
50-29-3	4, 4'-DDT	93 U
72-43-5	Methoxychlor	470 U
53494-70-5	Endrin Ketone	93 U
57-74-9	Chlordane	470 U
8001-35-2	Toxaphene	930 U
12674-11-2	Aroclor-1016	470 U
11104-28-2	Aroclor-1221	470 U
11141-16-5	Aroclor-1232	470 U
53469-21-9	Aroclor-1242	470 U
12672-29-6	Aroclor-1248	470 U
11097-69-1	Aroclor-1254	930 U
11096-82-5	Aroclor-1260	930 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 30.0g 20.6g dry wt. V_t 1000 uL V_i 4.0 uL

Laboratory Name: HAZLETON

Case No: 4999

Sample Number
EE 333

Organics Analysis Data Sheet
(Page 4)

RECEIVED DEC 0 5 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1. 109660	Pentane *	VOA	204	23	JB
2. -	Unknown	1	217	13	J
3. 562492	3,3-dimethyl pentane	1	314	10	J
4. 565593	Pentane 2,3-dimethyl- *	1	338	14	J
5. 589344	3-methyl hexane	1	360	17	J
6. 594821	Butane 2,2,3,3-tetramethyl-*	1	380	8.0	J
7. 100527	Benzaldehyde **	↓	490	210.	J
8.					
9.					
10.					
11.					
12.	* See fr. 29033 sample EE334				
13.	for lib search info. Spectra				
14.	for sample EE333 compare well				
15.	with 'respective scans' in sample				
16.	EE334.				
17.					
18.					
19.					
20.	** Quantitation based on major				
21.	ions from T.I.C. and 3rd I.S.				
22.	due to interference from surr.				
23.	std.				
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Laboratory Name: HAZLETON

Case No: 4999

Sample Number: E E 333

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED DEC 0 5 1985

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	Unknown	BAN	66	580
2.	109211	1-methylethyl ester acetic acid		192	2900 B
3.	2216333	3-methyl octane		302	280
4.	—	Unknown		542	330
5.	—	Unknown		633	2000
6.	3973226	2,3-dihydro-5-methyl-p-Dioxin		668	240
7.	—	Unknown		819	340
8.	—	Unknown		1567	300
9.	123422	4-hydroxy-4-methyl-2-pentanone *		258	33000 B
10.	—	Unknown		2468	240
11.	—	Unknown phthalate		2601	1100 B
12.	629969	1-eicosanol		2663	750
13.	—	Unknown		2932	200
14.	—	Unknown		2950	920
15.	—	Unknown		2967	380
16.	—	Unknown		3132	270
17.	—	Unknown		3158	330
18.	630013	hexacosane		3268	520
19.	—	Unknown	↓	3319	1100
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

* product of the aldol condensation of acetone

85FC13583

Sample Number
EE 334

Organics Analysis Data Sheet
(Page 1)

RECEIVED DEC 0 5 1985

Laboratory Name: HAZLETON

Case No: 4999

Lab Sample ID No: 50907300

QC Report No:

Sample Matrix: SOIL

Contract No: 68-01-7146

Data Release Authorized By: David C. Wall

Date Sample Received: 9-27-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10-1-85 FRN 29033

Date Analyzed: 10-1-85 1400

Conc/Dil Factor: 1 pH 5.8

Percent Moisture: 20.2% C.F. = 1.25

Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	12 U	
74-83-9	Bromomethane	12 U	J
75-01-4	Vinyl Chloride	12 U	
75-00-3	Chloroethane	12 U	J
75-09-2	Methylene Chloride	23	
67-64-1	Acetone	18	J
75-15-0	Carbon Disulfide	6 U	J
75-35-4	1, 1-Dichloroethene	6 U	
75-34-3	1, 1-Dichloroethane	6 U	
156-60-5	Trans-1, 2-Dichloroethene	6 U	
67-66-3	Chloroform	6 U	
107-06-2	1, 2-Dichloroethane	6 U	
78-93-3	2-Butanone	12 J	R
71-55-6	1, 1, 1-Trichloroethane	6 U	
56-23-5	Carbon Tetrachloride	6 U	
108-05-4	Vinyl Acetate	12 U	
75-27-4	Bromodichloromethane	6 U	PJC 1427-85

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1, 1, 2, 2-Tetrachloroethane	6 U	
78-87-5	1, 2-Dichloropropane	6 U	
10061-02-6	Trans-1, 3-Dichloropropene	6 U	
79-01-6	Trichloroethene	6 U	
124-48-1	Dibromochloromethane	6 U	
79-00-5	1, 1, 2-Trichloroethane	6 U	
71-43-2	Benzene	6 U	
10061-01-5	cis-1, 3-Dichloropropene	6 U	
110-75-8	2-Chloroethylvinylether	12 U	
75-25-2	Bromoform	6 U	
591-78-6	2-Hexanone	12 U	
108-10-1	4-Methyl-2-Pentanone	12 U	
127-18-4	Tetrachloroethene	6 U	J PJC
108-88-3	Toluene	3.4 J	
108-90-7	Chlorobenzene	6 U	
100-41-4	Ethylbenzene	6 U	
100-42-5	Styrene	6 U	
	Total Xylenes	6 U	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R=UNUSABLE

Laboratory Name: HAZLETON

Case No.: 4993

Sample Number
EE334

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26516

Date Analyzed: ~~10-1-85~~ 10/7/85 (23) 10/11/85 1950

Conc/Dil Factor: 1 C.F. = 1.25

CAS Number		ug/l or (ug/Kg) (Circle One)
62-75-9	N-Nitrosodimethylamine	420U
108-95-2	Phenol	420U
62-53-3	Aniline	420U
111-44-4	bis(-2-Chloroethyl)Ether	420U
95-57-8	2-Chlorophenol	420U
541-73-1	1, 3-Dichlorobenzene	420U
106-46-7	1, 4-Dichlorobenzene	420U
100-51-6	Benzyl Alcohol	420U
95-50-1	1, 2-Dichlorobenzene	420U
95-48-7	2-Methylphenol	420U
39638-32-9	bis(2-chloroisopropyl)Ether	420U
106-44-5	4-Methylphenol	420U
621-64-7	N-Nitroso-Di-n-Propylamine	420U
67-72-1	Hexachloroethane	420U
98-95-3	Nitrobenzene	420U
78-59-1	Isophorone	420U
88-75-5	2-Nitrophenol	420U
105-67-9	2, 4-Dimethylphenol	420U
65-85-0	Benzoic Acid	2100U
111-91-1	bis(-2-Chloroethoxy)Methane	420U
120-83-2	2, 4-Dichlorophenol	420U
120-82-1	1, 2, 4-Trichlorobenzene	420U
91-20-3	Naphthalene	420U
106-47-8	4-Chloroaniline	420U
87-68-3	Hexachlorobutadiene	420U
59-50-7	4-Chloro-3-Methylphenol	420U
91-57-6	2-Methylnaphthalene	420U
77-47-4	Hexachlorocyclopentadiene	420U
88-06-2	2, 4, 6-Trichlorophenol	420U
95-95-4	2, 4, 5-Trichlorophenol	2100U
91-58-7	2-Chloronaphthalene	420U
88-74-4	2-Nitroaniline	2100U
131-11-3	Dimethyl Phthalate	420U
208-96-8	Acenaphthylene	420U
99-09-2	3-Nitroaniline	2100U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	420U
51-28-5	2, 4-Dinitrophenol	2100U
100-02-7	4-Nitrophenol	2100U
132-64-9	Dibenzofuran	420U
121-14-2	2, 4-Dinitrotoluene	420U
606-20-2	2, 6-Dinitrotoluene	420U
84-66-2	Diethylphthalate	420U
7005-72-3	4-Chlorophenyl-phenylether	420U
86-73-7	Fluorene	420U
100-01-6	4-Nitroaniline	2100U
534-52-1	4, 6-Dinitro-2-Methylphenol	2100U
86-30-6	N-Nitrosodiphenylamine (1)	420U
101-55-3	4-Bromophenyl-phenylether	420U
118-74-1	Hexachlorobenzene	420
87-86-5	Pentachlorophenol	2100U
85-01-8	Phenanthrene	420U
120-12-7	Anthracene	420U
84-74-2	Di-n-Butylphthalate	250 BJ
206-44-0	Fluoranthene	420U
92-87-5	Benzidine	2100U
129-00-0	Pyrene	420U
85-68-7	Butylbenzylphthalate	420U
91-94-1	3, 3'-Dichlorobenzidine	420U
56-55-3	Benzo(a)Anthracene	420U
117-81-7	bis(2-Ethylhexyl)Phthalate	420U
218-01-9	Chrysene	420U
117-84-0	Di-n-Octyl Phthalate	420U
205-99-2	Benzo(b)Fluoranthene	420U
207-08-9	Benzo(k)Fluoranthene	420U
50-32-8	Benzo(a)Pyrene	420U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	420U
53-70-3	Dibenz(a, h)Anthracene	420U
191-24-2	Benzo(g, h, i)Perylene	420U

(1)-Cannot be separated from diphenylamine

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HAZLETON LABORATORIES

CASE 4999

Organics Analysis Data Sheet
(Page 3)

Sample Number
EE334

Pesticide/PCBs

RECEIVED DEC 0 5 1985

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-29-85

Conc/Dil Factor: 10.0

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	100 U
319-85-7	Beta-BHC	100 U
319-86-8	Delta-BHC	100 U
58-89-9	Gamma-BHC (Lindane)	100 U
76-44-8	Heptachlor	100 U
309-00-2	Aldrin	100 U
1024-57-3	Heptachlor Epoxide	100 U
959-98-8	Endosulfan I	100 U
60-57-1	Dieldrin	499
72-55-9	4, 4'-DDE	200 U
72-20-8	Endrin	200 U
33213-65-9	Endosulfan II	200 U
72-54-8	4, 4'-DDD	200 U
7421-93-4	Endrin Aldehyde	200 U
1031-07-8	Endosulfan Sulfate	200 U
50-29-3	4, 4'-DDT	200 U
72-43-5	Methoxychlor	1000 U
53494-70-5	Endrin Ketone	200 U
57-74-9	Chlordane	1000 U
8001-35-2	Toxaphene	2000 U
12674-11-2	Aroclor-1016	1000 U
11104-28-2	Aroclor-1221	1000 U
11141-16-5	Aroclor-1232	1000 U
53469-21-9	Aroclor-1242	1000 U
12672-29-6	Aroclor-1248	1000 U
11097-69-1	Aroclor-1254	2000 U
11096-82-5	Aroclor-1260	2000 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 30.0g 24.0g dry wt. V_t 1000 µL V_i 4.0 µL

Laboratory Name: HAZLETON

Case No: 4202

Sample Number
EE 334

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 544252	1,3,5-cyclopentatriene	BAN	67	220
2. 109214	1-methylethyl ester acetic acid		193	2000 B
3. 123422	4-hydroxy-4-methyl-2-pentanone *		259	29000 B
4. 2213222	2,4-dimethyl-heptane		283	330
5. 2216300	3-methyl octane		302	300
6. —	Unknown		442	340
7. —	Unknown		542	190
8. 3073226	2,3-dihydro-5-methyl-p-dioxin		669	200
9. —	Unknown		815	170
10. —	Unknown		2928	2400
11. —	Unknown		2944	440
12. —	Unknown		2964	250
13. —	Unknown		3070	170
14. —	Unknown		3261	280
15. —	Unknown	↓	3415	420
16.				
17. —	Unknown - no match found	VOA	173	7.1 J
18. 109-66-0	Pentane		206	12 BJ
19. —	Unknown - no match found		220	8.6 J
20. 565-59-3	2,3-dimethyl-pentane		338	9.2 J
21. —	Unknown		360	15 J
22. 594-82-1	Butane, 2,2,3,3-tetramethyl-	↓	382	9.1 J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

* product of the aldol condensation of acetone

85FC13514

Sample Number
EE 335

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON
Case No: 4999 RECEIVED DEC 0 5 1985
Lab Sample ID No: EC007301
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7146
Data Release Authorized By: David C. [illegible]
Date Sample Received: 9-27-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 10-1-85 FRN 29034
Date Analyzed: 10-1-85 1455
Conc/Dil Factor: 1 pH 8.7
Percent Moisture: 30.4% C.F. = 1.44
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	14 U	
74-83-9	Bromomethane	14 U	J
75-01-4	Vinyl Chloride	14 U	
75-00-3	Chloroethane	14 U	J
75-09-2	Methylene Chloride	16	
67-64-1	Acetone	29	J
75-15-0	Carbon Disulfide	7 U	J
75-35-4	1,1-Dichloroethene	7 U	
75-34-3	1,1-Dichloroethane	7 U	
156-60-5	Trans-1,2-Dichloroethene	7 U	
67-66-3	Chloroform	7 U	
107-06-2	1,2-Dichloroethane	7 U	
78-93-3	2-Butanone	13 J	R
71-55-6	1,1,1-Trichloroethane	7 U	
56-23-5	Carbon Tetrachloride	7 U	
108-05-4	Vinyl Acetate	14 U	
75-27-4	Bromodichloromethane	7 U	

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1,1,2,2-Tetrachloroethane	7 U	
78-87-5	1,2-Dichloropropane	7 U	
10061-02-6	Trans-1,3-Dichloropropene	7 U	
79-01-6	Trichloroethene	7 U	
124-48-1	Dibromochloromethane	7 U	
79-00-5	1,1,2-Trichloroethane	7 U	
71-43-2	Benzene	7 U	
10061-01-5	cis-1,3-Dichloropropene	7 U	
110-75-8	2-Chloroethylvinylether	14 U	
75-25-2	Bromoform	7 U	
591-78-6	2-Hexanone	14 U	
108-10-1	4-Methyl-2-Pentanone	14 U	
127-18-4	Tetrachloroethene	7 U	J PJC
108-88-3	Toluene	7 U	
108-90-7	Chlorobenzene	7 U	
100-41-4	Ethylbenzene	2.6 J	
100-42-5	Styrene	7 U	
	Total Xylenes	3.7 J	

PJC 11-27-85

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. R indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R=UNUSABLE

Laboratory Name: HAZLETON

Case No: 4990

Sample Number: EE335

Organics Analysis Data Sheet
(Page 2)

RECEIVED DEC 0 5 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-30-85 FRN 26517

Date Analyzed: 10-7-85 1939

Conc/Dil Factor: 1 C.F = 1.44

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	490U
108-95-2	Phenol	490U
62-53-3	Aniline	490U
111-44-4	bis(-2-Chloroethyl)Ether	490U
95-57-8	2-Chlorophenol	490U
541-73-1	1, 3-Dichlorobenzene	490U
106-46-7	1, 4-Dichlorobenzene	490U
100-51-6	Benzyl Alcohol	490U
95-50-1	1, 2-Dichlorobenzene	490U
95-48-7	2-Methylphenol	490U
39638-32-9	bis(2-chloroisopropyl)Ether	490U
106-44-5	4-Methylphenol	490U
621-64-7	N-Nitroso-Di-n-Propylamine	490U
67-72-1	Hexachloroethane	490U
98-95-3	Nitrobenzene	490U
78-59-1	Isophorone	490U
88-75-5	2-Nitrophenol	490U
105-67-9	2, 4-Dimethylphenol	490U
65-85-0	Benzoic Acid	2400U
111-91-1	bis(-2-Chloroethoxy)Methane	490U
120-83-2	2, 4-Dichlorophenol	490U
120-82-1	1, 2, 4-Trichlorobenzene	490U
91-20-3	Naphthalene	490U
106-47-8	4-Chloroaniline	490U
87-68-3	Hexachlorobutadiene	490U
59-50-7	4-Chloro-3-Methylphenol	490U
91-57-6	2-Methylnaphthalene	490U
77-47-4	Hexachlorocyclopentadiene	490U
88-06-2	2, 4, 6-Trichlorophenol	490U
95-95-4	2, 4, 5-Trichlorophenol	2400U
91-58-7	2-Chloronaphthalene	490U
88-74-4	2-Nitroaniline	2400U
131-11-3	Dimethyl Phthalate	490U
208-96-8	Acenaphthylene	490U
99-09-2	3-Nitroaniline	2400U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	160J
51-28-5	2, 4-Dinitrophenol	2400U
100-02-7	4-Nitrophenol	2400U
132-64-9	Dibenzofuran	490U
121-14-2	2, 4-Dinitrotoluene	490U
606-20-2	2, 6-Dinitrotoluene	490U
84-66-2	Diethylphthalate	490U
7005-72-3	4-Chlorophenyl-phenylether	490U
86-73-7	Fluorene	490U
100-01-6	4-Nitroaniline	2400U
534-52-1	4, 6-Dinitro-2-Methylphenol	2400U
86-30-6	N-Nitrosodiphenylamine (1)	490U
101-55-3	4-Bromophenyl-phenylether	490U
118-74-1	Hexachlorobenzene	490U
87-86-5	Pentachlorophenol	2400U
85-01-8	Phenanthrene	420J
120-12-7	Anthracene	130J
84-74-2	Di-n-Butylphthalate	1300B
206-44-0	Fluoranthene	1000
92-87-5	Benzidine	2400U
129-00-0	Pyrene	550
85-68-7	Butylbenzylphthalate	490U
91-94-1	3, 3'-Dichlorobenzidine	490U
56-55-3	Benzo(a)Anthracene	210J
117-81-7	bis(2-Ethylhexyl)Phthalate	490U
218-01-9	Chrysene	220J
117-84-0	Di-n-Octyl Phthalate	490U
205-99-2	Benzo(b)Fluoranthene	230J
207-08-9	Benzo(k)Fluoranthene	230J
50-32-8	Benzo(a)Pyrene	490U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	490U
53-70-3	Dibenz(a, h)Anthracene	490U
191-24-2	Benzo(g, h, i)Perylene	490U

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

HAZLETON LABORATORIES

CASE 4999

Sample Number
EE335

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

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Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-30-85

Date Analyzed: 10-29-85

Conc/Dil Factor: 3.0

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	35 U
319-85-7	Beta-BHC	35 U
319-86-8	Delta-BHC	35 U
58-89-9	Gamma-BHC (Lindane)	35 U
76-44-8	Heptachlor	35 U
309-00-2	Aldrin	35 U
1024-57-3	Heptachlor Epoxide	35 U
959-98-8	Endosulfan I	35 U
60-57-1	Dieldrin	69 U
72-55-9	4,4'-DDE	69 U
72-20-8	Endrin	69 U
33213-65-9	Endosulfan II	69 U
72-54-8	4,4'-DDD	69 U
7421-93-4	Endrin Aldehyde	69 U
1031-07-8	Endosulfan Sulfate	69 U
50-29-3	4,4'-DDT	69 U
72-43-5	Methoxychlor	350 U
53494-70-5	Endrin Ketone	690 U
57-74-9	Chlordane	350 U
8001-35-2	Toxaphene	350 U
12674-11-2	Aroclor-1016	350 U
11104-28-2	Aroclor-1221	350 U
11141-16-5	Aroclor-1232	350 U
53469-21-9	Aroclor-1242	350 U
12672-29-6	Aroclor-1248	350 U
11097-69-1	Aroclor-1254	690 U
11096-82-5	Aroclor-1260	690 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 30.0g 20.8g dry wt. V_t 1000 µL V_i 4.0 µL

Laboratory Name HALLETTON

Case No 4000

Sample Number EE 335

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED DEC 0 5 1985

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	Unknown	BAN	61	500
2.	109214	1-methylethyl ester acetic acid		189	2000
3.	123422	4-hydroxy-4-methyl-2-pentanone *		250	39000 B
4.	2213232	2,4-dimethyl heptane		291	200
5.	17302339	6-methyl-undecane		299	300 B
6.	—	Unknown		440	400
7.	—	Unknown		540	550
8.	111466	2,2'-oxybis-ethanol		624	240
9.	542-09	diacetate 1,1-ethanediol		700	370
10.	—	Unknown		1665	600
11.	—	Unknown phthalate		2601	570
12.	—	Unknown		2600	230
13.					
14.	506525	1-hexacosanol		3000	340
15.	630024	octacosane		3139	780
16.	506525	1-hexacosanol or isomer		3141	1000
17.	—	Unknown		3214	620
18.	630035	Nonacosane		3246	590
19.	52783-34	Nonadecanol	↓	3253	1200
20.					
21.	109-99-9	tetrahydrofuran	VOA	154	12 J
22.	—	Unknown		173	12 J
23.	—	Unknown		437	7.9 J
24.	109-66-0	Pentane	↓	706	26 JB
25.		Spectra matches scan 206 of FRN			
26.		29033 sample EE344 see that			
27.		sample for library search			
28.					
29.					
30.					

* product of the aldol condensation of acetone