EPA Region 5 Records Ctr.
364537

SITE INSPECTION REPORT
FOR
NATIONAL DISPOSAL #1
PEORIA, ILLINOIS
ILD980901581
R05-8410-01D

SEPTEMBER 25, 1986

SITE INSPECTION REPORT

FOR

NATIONAL DISPOSAL #1

PEORIA, ILLINOIS

ILD980901581

R05-8410-01D

SEPTEMBER 25, 1986

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

MEMORANDUM

DATE: September 25, 1986
TO: File
FROM: Kurt Sims K. S
SUBJECT: Illinois/R05-8410-01D/IL0377
Peoria/National Disposal #1
ILD980901581

This site is presently an auto shredding operation. I.B.S. Inc. currently owns the property. National Disposal was the previous operator and began landfilling in 1955. I.B.S. Inc., and National Disposal were both operating on-site at some time. Industrial wastes may have been disposed of on this site due to the proximity of heavy industry in the area. Kickapoo Creek is eroding into the south side of the fill, since a stream bed relocation project was completed by I.D.O.T. A second National Disposal site is directly adjacent and east.

Sampling of creek sediments did not indicate contamination, but the I.E.P.A. took soil samples from on the fill in 1985 and found PCB contamination. The source was presumed to be oil drained from Central Illinois Light Co., transformers that are on-site.

The scrap yard is on-top of the old fill. The land filling operation ended in 1974. The I.E.P.A. determined the cover to be inadequate during an inspection on 7/13/85.

This site was originally identified by the I.E.P.A. in the form of a Preliminary Assessment submitted to the U.S. EPA.

recycled paper

On 8/28/85, Ecology and Environment/F.I.T. conducted an inspection at the National Disposal #1 facility at which time the owners/operators were interviewed. During a subsequent visit on 10/24/85, sediment samples from the Kickapoo Creek were collected. The sample locations (see sample location map) were chosen to attempt to find contaminants leaching into the creek. Upstream and downstream points, as well as points along the eroded bank of fill, were sampled. No contamination was found in these sediments. The I.E.P.A. is investigating the adjacent National Disposal site.

The site is situated on the flood plain of the Illinois River. Soils beneath the site consist of about 150 feet to 200 feet of glacial sand and gravel deposits. Silt and clay pockets and lenses may be encountered within this unit. About 10 to 30 feet of surficial alluvial silt/clay deposits overlie the sand and gravel.

The glacial deposits are highly permeable and contain ample supplies of groundwater. The aquifer recharges rapidly permitting large volume withdrawals. The City of Peoria, local industries and some private residences draw potable water supplies from this unit.

Landfilling activities (i.e., trenching) may have reduced or eliminated the surficial silt/clay layer at the site. It is probable that contaminants from wastes disposed of at the site or dumped on the surface may migrate into the local groundwater. Thus a potential for drinking water contamination does exist.

Other potential hazards posed by this site result from materials which may be exposed on the surface of the site or along the creek. There are no run-on/run-off containment measures to prohibit contaminants being carried off-site. The site is not completely fenced. There is a fence at the front of the site but this does not extend completely around the site. Unauthorized persons could enter by walking along the creek or down from the highway to the south.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980701581

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
National Disposal #1	2424 W. CLARK ST.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
PEORIA	IL	61607	PEORIA	143	18

09 COORDINATES LATITUDE	LONGITUDE
40° 39' 30"	89° 38' 30"

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 (Month Day Year)	02 SITE STATUS	03 YEARS OF OPERATION (Beginning Year, Ending Year)
8/28/85 10/24/85	☒ ACTIVE ☐ INACTIVE	1955, Present ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☒ B. EPA CONTRACTOR Ecology and Environment Inc. (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.
Steven R. Nelson	Zoologist - FIT Team Leader	E+E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
Cindy Pugh	ENVIRONMENTAL SCIENTIST	E+E	(312) 663-9415
Jerry Goode	Geologist	E+E	(312) 663-9415
Ronald Bock	Chemical Engineer	E+E	(312) 663-9415
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Roger W. Sherman	Director Purchases and Safety	Erman - Howell Division Luria Steel + Trading Corporation 2333 Waukegan Rd - Bannockburn, IL	(312) 948-1000
Donald Kincade, Jr.	Yard Foreman	I. Bork + Sons, INC. 2424 W. Clark St. Peoria, IL	(309) 637-4422
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	9:00 CDT (8-28-85) 9:00 CDT (10-24-85)	Clear, 80°F (8-28-85) Clear, 60°F (10-24-85)

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
John Tripses	IEPA / DLPC Central Region - Peoria	(309) 691-2300

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (Month Day Year)
Steven R. Nelson	—	E+E / FIT	312-663-9415	9/29/86

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	D980901581

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
- [x] F. LIQUID
- [ ] G. GAS

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

TONS _____

CUBIC YARDS UnK.

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [x] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [x] D. PERSISTENT
- [x] 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			
OLW	OILY WASTE	UNK.		TRANSFORMER OIL (PCB's)
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

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)

- INTERVIEW WITH SITE REPRESENTATIVES 8-28-85

EPA

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

I. IDENTIFICATION
01 STATE: IL
02 SITE NUMBER: D980901581

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~125,000/3mi
04 NARRATIVE DESCRIPTION
CONTAMINANTS UNRESTRICTED FLOW TO GROUNDWATER IN DRIFT. NO LINERS.

01 [X] B. SURFACE WATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
KICKAPOO CREEK IS CURRENTLY ERODING INTO OLD FILL.

01 [ ] C. CONTAMINATION OF AIR
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NO DATA AVAILABLE

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE REPORTED

01 [X] E. DIRECT CONTACT
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~20,000/2mi
04 NARRATIVE DESCRIPTION
OLD FILL ACCESSIBLE AT CREEK, NO FENCES COMPLETELY SURROUNDING SITE.

01 [X] F. CONTAMINATION OF SOIL
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: ~90 (Acres)
04 NARRATIVE DESCRIPTION
TRANSFORMER OIL SPILLED ON OLD FILL. IEPA NOTED LEACHATE IN 1973 INSPECTION, 4/21/85 SOIL SAMPLES SHOWED PCB CONTAMINATION

01 [X] G. DRINKING WATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~125,000
04 NARRATIVE DESCRIPTION
CITY OF PEORIA IS ON GROUNDWATER & SURFACE WATER. THE CITY WELLS ARE IN THE GLACIAL DRIFT AQUIFER.

01 [ ] H. WORKER EXPOSURE/INJURY
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NO INCIDENTS NOTED

01 [ ] I. POPULATION EXPOSURE/INJURY
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NO INCIDENTS REPORTED

EPA

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

I. IDENTIFICATION
01 STATE: IL
02 SITE NUMBER: D980901581

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

NONE REPORTED

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

NONE REPORTED

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

NONE REPORTED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: 1973) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~20,000/2 mi — 04 NARRATIVE DESCRIPTION

KICKAPOO CREEK IS ERODING THE SOUTH EDGE OF FILL. COVER UNSUITABLE IN IEPA INSPECTION 7-13-85. NO LINER.

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

NONE REPORTED

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

NONE REPORTED, DRAINAGE TO CREEK.

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

UNAUTHORIZED STORAGE OF TRANSFORMER SCRAP

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~125,000

IV. COMMENTS

None

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

- INTERVIEW WITH SITE REPRESENTATIVES 8-28-85
- E&E FILES

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901581

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	APC-205	12-4-84	12-13-79	Incinerator used in
☐ D. RCRA				Conjunction w/ Auto
☐ E. RCRA INTERIM STATUS				Shredder ID #143065AML
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☒ I. OTHER (Specify)	#81060077	10-1-84	8-31-85	for Wire Incinerator
☐ J. NONE				new permit applied for.

III. SITE DESCRIPTION

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

04 TREATMENT (Check all that apply)

- ☒ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☒ H. OTHER AUTO SHREDDER (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE: ~90 (Acres)

07 COMMENTS

LANDFILL COVER- UNSUITABLE TO IEPA 7-13-85.

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.

EROSION OF LANDFILL BY KICKAPOO CREEK.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

FENCE DOES NOT SURROUND SITE.
SECURITY ONLY AT SHREDDER PLANT.

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

- INTERVIEW & SITE INSPECTION OF 8-28-85
- ECOLOGY & ENVIRONMENT FILES

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901581

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE

A. 0.75 (mi)
B. 1.10 (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 ~125,000

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.75 (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
~15 (VARIABLE) (ft)	EASTERLY	~15 (ft)	UNK (gpd)	☐ YES ☒ NO

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

WELLS ARE IN THE DRIFT AQUIFER. THE CLOSEST WELL IS 150' TO 190' DEEP.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS DEPENDANT ON WATER LEVEL OF THE ILL. RIVER	☒ YES ☐ NO	COMMENTS TO RIVER

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
KICKAPOO CREEK	☐	0 (mi)
ILLINOIS RIVER	☐	~1.0 (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. 2000-2500 NO. OF PERSONS	B. 15000-20000 NO. OF PERSONS	C. ~60,000+ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION ~200' (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~4000

04 DISTANCE TO NEAREST OFF-SITE BUILDING ~200' (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)

URBAN INDUSTRIAL AREA DIRECTLY ADJACENT SITE WITH URBAN RESIDENTIAL AND SUBURBAN AREA WITHIN 3 MILE RADIUS.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980901581

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

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)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
~200 (ft)	Unk (ft)	Neutral

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.0 (in)	2.5 (in)	1-2 %	Southerly	2.5 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10 ☐ 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. 1-2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>3.0 (mi)

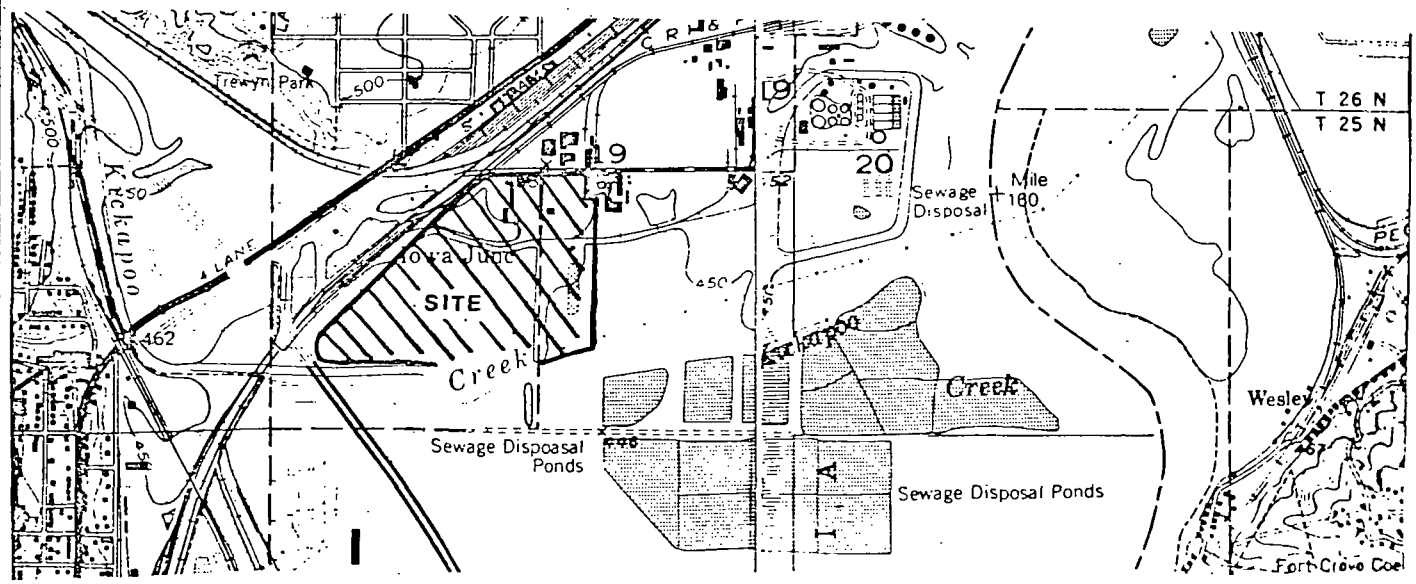
ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. < 1/8 (mi)	B. ~2/3 (mi)	C. ≥2.0 (mi)	D. ≥2.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

Ecology & Environment Files.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980901581

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	5	Organic samples → Mack Laboratories Inorganic samples → Clayton Laboratories	Currently Available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
hNu	No readings above background
Rad-mini	No readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF E&E files
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS E&E files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

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

Ecology & Environment Files
Site inspection of 10/24/85

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	D980901581

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Luria Steel & Trading Corp.		2333 Waukegan Rd., Suite N-200		Bannockburn	IL	60015

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC 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
I. Bork & Sons, Inc.		2424 W. Clarke St.		Peoria	IL	61607
P & PU Railway Co.		Unk.		Unk		

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

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

Interview & Site inspection of 8-28-85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980901581

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
I. B.S., Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2424 W. Clarke St.	

05 CITY	06 STATE	07 ZIP CODE
Peoria	IL	61607

08 YEARS OF OPERATION	09 NAME OF OWNER
1983 - Present	Luria Steel & Trading Co.

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
Luria Steel & Trading Co.	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
2333	

14 CITY	15 STATE	16 ZIP CODE
Bannockburn	IL	60015

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

01 NAME	02 D+B NUMBER
I. Bork & Sons, Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2424 W. Clarke St.	

05 CITY	06 STATE	07 ZIP CODE
Peoria	IL	61607

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1968 - 1983	I. Bork & Sons, Inc.

01 NAME	02 D+B NUMBER
Browning & Ferris Industries	

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

05 CITY	06 STATE	07 ZIP CODE
Unk.		

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
? - 1972	P. & P.U. Railway Co.

01 NAME	02 D+B NUMBER
Peoria National Disposal Service, Inc.	

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

05 CITY	06 STATE	07 ZIP CODE
Unk.		

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1955 - ?	P. & PU Railway Co.

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

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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)

Interview & Site inspection of 8-28-85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980901581

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
I.B.S., Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2424 W. Clarke St.	

05 CITY	06 STATE	07 ZIP CODE
Peoria	IL	61607

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Unknown			

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
I.B.S. Inc.		Browning & Ferris Industries	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2424 W. Clarke St.		Unk.	

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Peoria	IL	61607	Unk.		

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Peoria National Disposal Service	Inc.		

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

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Unk.					

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

- Interview & Site inspection of 8-28-85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980901581

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION N/A.	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION N/A	02 DATE	03 AGENCY

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901581

II PAST RESPONSE ACTIVITIES (Continued)

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

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

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

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

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

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

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

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

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

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

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

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION None

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

- Interview: Site inspection of 8-28-85
- IEPA, DLPC files (Central Region).

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980901581

II. ENFORCEMENT INFORMATION

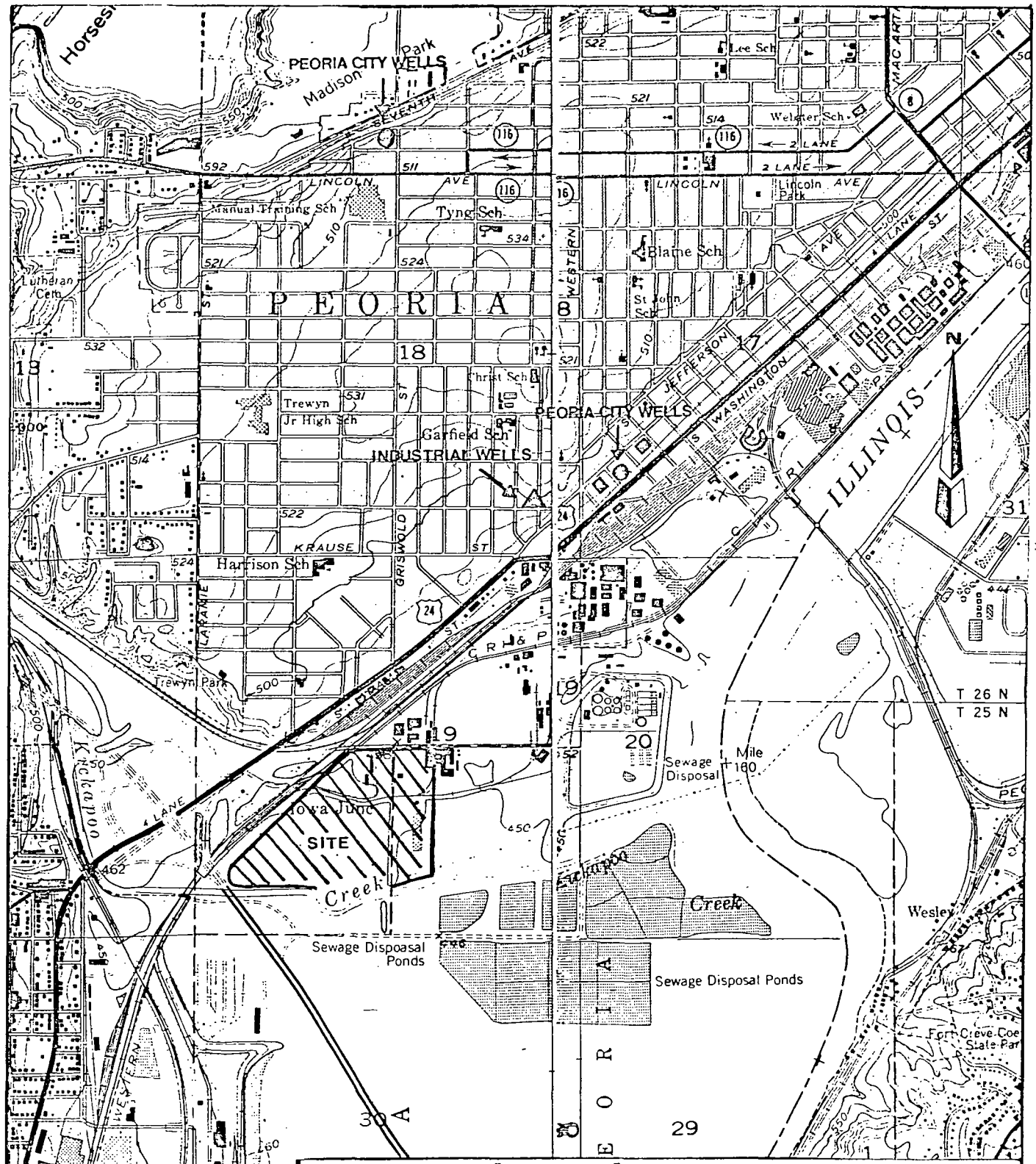
01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

IEPA Enforcement No. 6897: Action regarding erosion of Landfill by Kickapoo Creek.

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

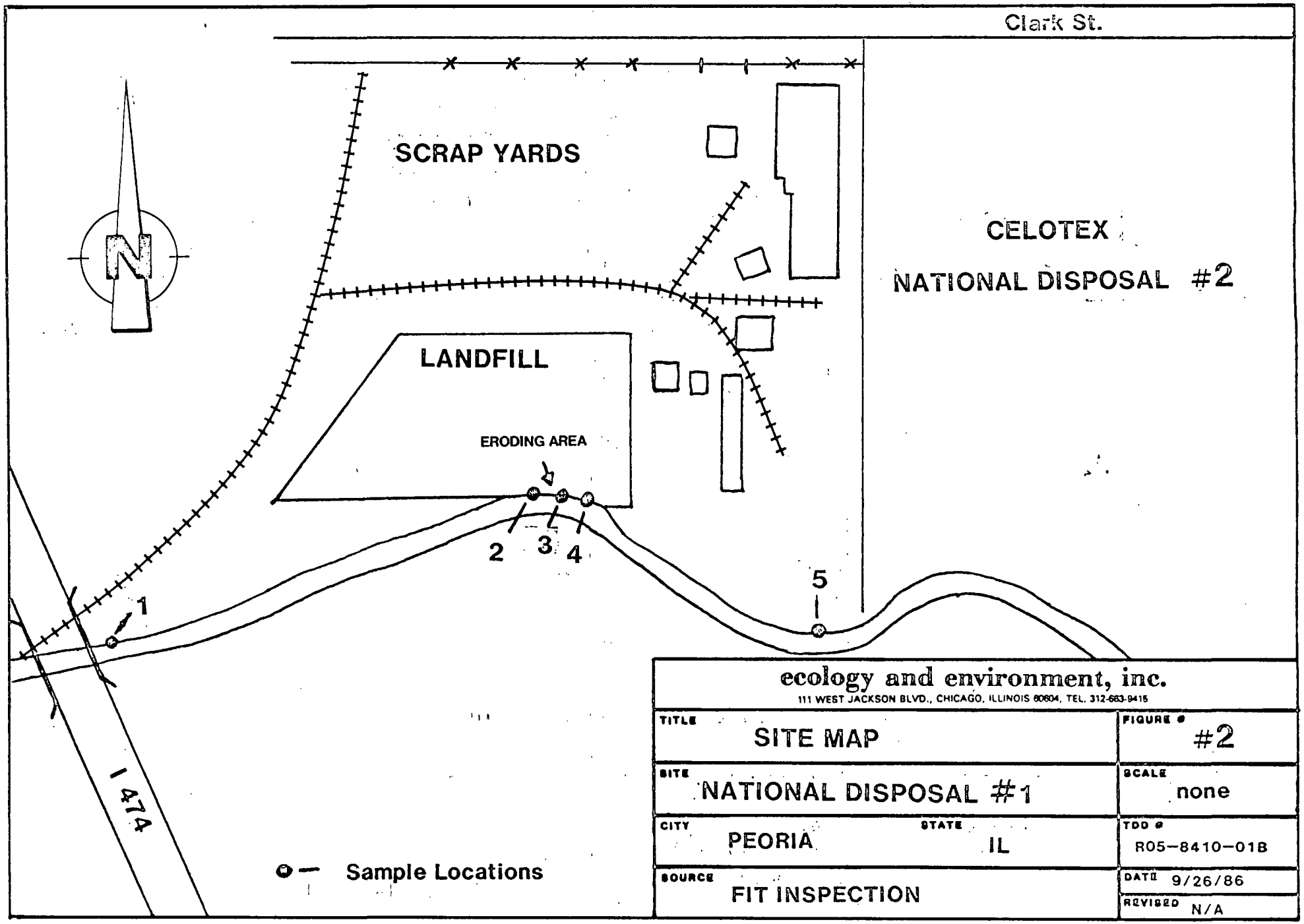
IEPA, DLPC Files (Central Region)

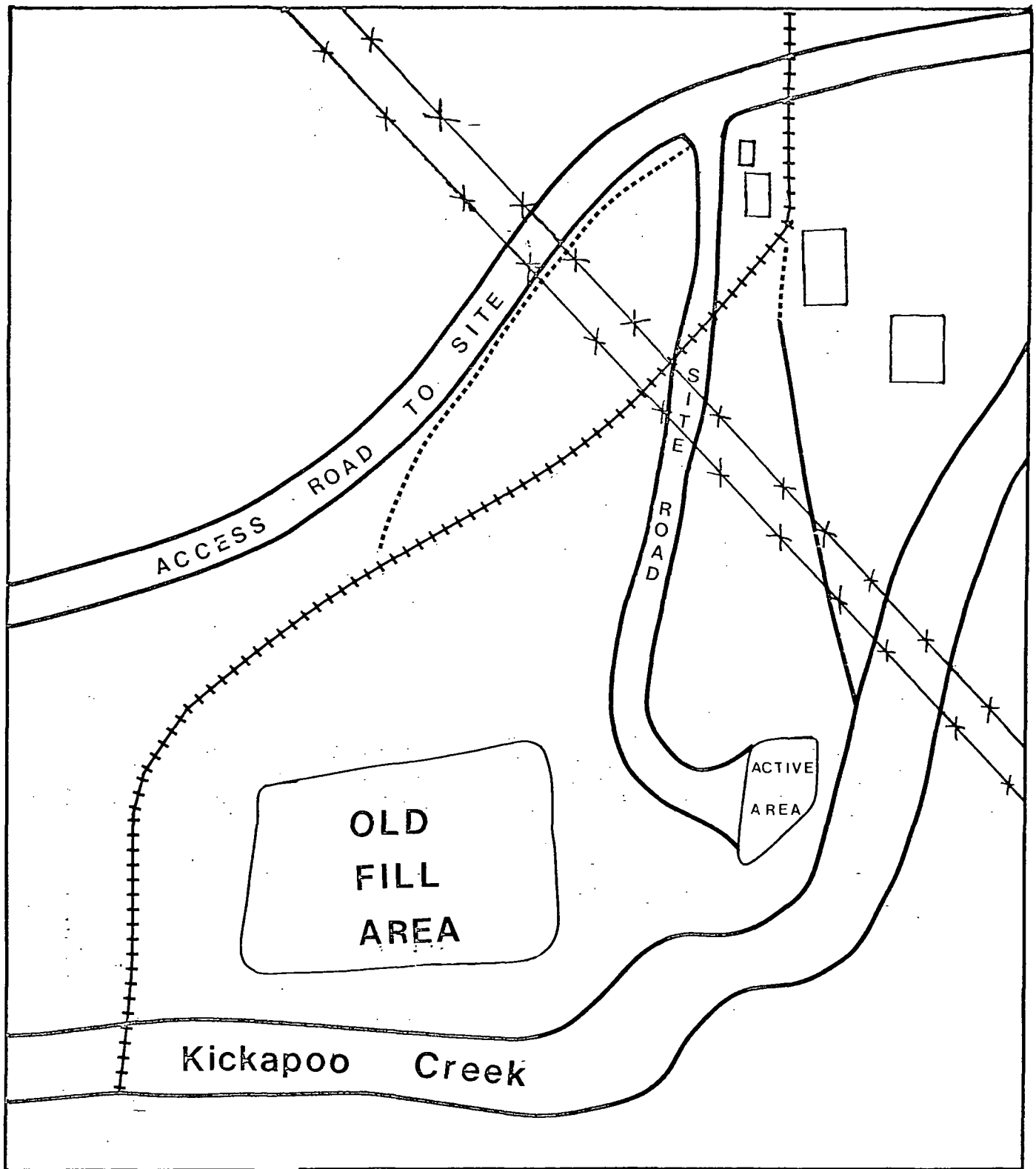


ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: SITE LOCATION MAP	FIGURE #: #1
SITE: NATIONAL DISPOSAL #1	SCALE: 1:24,000
CITY: PEORIA STATE: IL	TDD #: R05-8410-018
SOURCE: U.S.G.S. TOPO—PEORIA EAST & PEORIA WEST QUADS	DATE: 1949 REVISED: 1967 & 1979


Clark St.
SCRAP YARDS
CELOTEX
NATIONAL DISPOSAL #2
LANDFILL
ERODING AREA
1
2
3
4
5
I 474
Sample Locations
ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
TITLE SITE MAP
FIGURE # #2
SITE NATIONAL DISPOSAL #1
SCALE none
CITY PEORIA
STATE IL
TDD # R05-8410-018
SOURCE FIT INSPECTION
DATE 9/26/86
REVISED N/A



= POWER LINES

= RAILROAD

= FENCE

= PROPERTY LINE

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TITLE: PAST CONDITIONS	FIGURE #: 1
SITE: NATIONAL DISPOSAL	SCALE: NONE
CITY: PEORIA STATE: ILLINOIS	TDD #: R5-8410-01D
SOURCE: IEPA SKETCH 1972	DATE: 9-25-86
	REVISED:

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-24-85

TIME 10:50 (A.M.) P.M.

DIRECTION: (N) NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER sunny, 60°F

SITE National Disposal #1

TDD# R05-8410-1B

PHOTOGRAPHED BY:
Ronald Bock

SAMPLE ID# (if applicable)
EE440, MEG 466

DESCRIPTION: Upstream sample location S1 (EE440, MEG466) near viaduct - North view

DATE 10-24-85

TIME 10:50 (A.M.) P.M.

DIRECTION: N NNE NE ENE
(E) ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER sunny, 60°F

SITE National Disposal #1

TDD# R05-8410-1B

PHOTOGRAPHED BY:
Ronald Bock

SAMPLE ID# (if applicable)
EE440, MEG 466

DESCRIPTION: View of sample location S1 from under viaduct. Eroded creek bank in foreground.

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-24-85

TIME 11:15 (A.M.) P.M.

DIRECTION: (N) NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable)

DESCRIPTION: Background view of sample locations S2-S4 from eroded bank

DATE 10-24-85

TIME 11:15 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
(W) WNW NW NNW

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) EE 441, MEG 467

DESCRIPTION: Sample Location S2.

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-24-85

TIME 11:25 (A.M.) P.M

DIRECTION: (N) NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) EE 442, MEG 468

DESCRIPTION: Overview / Background of Sample location S-3

DATE 10-24-85

TIME 11:25 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
(W) WNW NW NNW

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) EE442, MEG 468

DESCRIPTION: Sample Location S-3

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-24-85

TIME 11:35 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
(S) SSW SW WSW
W WNW NW NNW

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) EE443, MEG 469

DESCRIPTION: South View of Sample Location S-4

DATE 10-24-85

TIME 11:45 (A.M) P.M

DIRECTION: N NNE NE ENE
(E) ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) EE444, MEG-470

DESCRIPTION: Sample Location S-5 on bank

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-24-85

TIME 2:00 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW
N/A

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) ORGANIC FRACTION

DESCRIPTION: ORGANIC SAMPLES PACKED IN COOLER w/ ICE

DATE 10-24-86

TIME 2:15 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW
N/A

WEATHER Sunny 60°F

SITE National Disposal #1

TDD# R05-8410-01B

PHOTOGRAPHED BY: Ronald Bock

SAMPLE ID# (if applicable) N/A

DESCRIPTION: Both inorganics/organic coolers sealed w/ custody seals ready for shipment

	ITC	MEG466	MEG467	MEG468	MEG469	MEG470						
	OTC	EE440	EE441	EE442	EE443	EE444						
	SAMPLE	S-1	S-2	S-3	S-4	S-5						
COMPOUND												
pentachlorophenol												
phenanthrene				96 J	180 J							
anthracene												
di-n-butylphthalate		22000BJ	150BJ	120BJ	120 BJ	4300BJ						
fluoranthene				150 J	320 J							
benzidine				270 J								
pyrene					500 J							
butylbenzylphthalate												
3,3'-dichlorobenzidine												
benzo(a)anthracene												
bis(2-ethylhexyl)phthlate		530000 B	85BJ		250BJ	130,000 B						
chrysene												
di-n-octyl phthlate												
benzo(b&k)fluoranthene												
benzo(a)pyrene					130 J							
indeno(1,2,3-cd)pyrene												
dibenzo(a,h)anthracene												
benzo(g,h,i)perylene												
alpha-BHC												
beta-BHC												
delta-BHC												
gamma-BHC(lindane)												
heptachlor												
aldrin												
heptachlor epoxide												
endosulfan I												
dieldrin												
4,4'-DDE												
endrin												
endosulfan II												
4,4'-DDD												
endrin aldehyde												
endosulfan sulfate												
4,4'-DDT												
methoxychlor												
endrin ketone												
chlorodane												
toxaphene												
Aroclor-1016												
Aroclor-1221												
Aroclor-1232												
Aroclor-1242												
Aroclor-1248												
Aroclor-1254												
Aroclor-1260												
ELEMENT		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg						
aluminum		3290	20300	18000	22000	6400						
antimony												
arsenic		[3]	[6]	[5]	[6]	[5]						
barium		1360	1160	1850	1860	2330						
beryllium												
cadmium		7.3	11	3	[2]							
calcium		32200	8920	33900	28200	59600						
chromium		14	29	24	30	14						
cobalt												
copper			[14]	[12]	[11]							
iron		7150	19000	19400	22400	14000						
lead		98.6	37.7	26.3	31.6	15.3						
magnesium		11100	9710	15200	17300	14600						
manganese		328	619	623	690	480						
mercury												
nickel		[16]	26	[26]	[26]	[13]						
potassium		41000	29100	36600	45400	13000						
selenium												
silver												
sodium		45700	27800	33200	43300	15100						
thallium												
tin						[15.3]						
vanadium			[27]	[21]	[18]							
zinc		26.3	200.0	63.0	76.7	58.0						
cyanide CHECK IF ANALYZED ( )												
TENTATIVELY IDENTIFIED ORGANICS												

STATE Illinois SITE National Disposal #1 TDD R05-8410-01B PAGE 2 OF 2, SET # 1

COMPOUND											
ITC	MEG466	MEG467	MEG468	MEG469	MEG470						
OTC	EE440	EE441	EE442	EE443	EE444						
SAMPLE	S-1	S-2	S-3	S-4	S-5						
chloromethane											
bromomethane											
vinyl chloride											
chloroethane											
methylene chloride	11 B	8 B	16 B	21 B	9 B						
acetone	120 B	71 B	190 B	93 B	95 B						
carbon disulfide											
1,1-dichloroethene											
1,1-dichloroethane											
trans-1,2,-dichloroethene											
chloroform											
1,2-dichloroethane											
2-butanone	9 BJ	28 B	10 B	20 B	22 B						
1,1,1-trichloroethane											
carbon tetrachloride											
vinyl acetate											
bromodichloromethane											
1,1,2,2-tetrachloroethane											
1,2-dichloropropane											
trans-1,3-dichloropropene											
trichloroethene											
dibromochloromethane											
1,1,2-trichloroethane											
benzene											
cis-1,3-dichloropropene											
2-chloroethylvinylether											
bromoform											
2-hexanone											
4-methyl-2-pentanone					7 BJ						
tetrachloroethene											
toluene											
chlorobenzene											
ethylbenzene											
styrene											
total xylenes											
N-nitrosodimethylamine											
phenol											
aniline											
bis(2-chloroethyl)ether											
2-chlorophenol											
1,3-dichlorobenzene											
1,4-dichlorobenzene											
benzyl alcohol											
1,2-dichlorobenzene											
2-methylphenol											
bis(2-chloroisopropyl)ether											
4-methylphenol											
N-nitroso-di-n-propylamine											
hexachloroethane											
nitrobenzene											
isophrone											
2-nitrophenol											
2,4-dimethylphenol											
benzoic acid		180 J									
bis(2-chloroethoxy)methane											
2,4-dichlorophenol											
1,2,4-trichlorobenzene											
napthalene											
4-chloroaniline											
hexachlorobutadiene											
4-chloro-3-methylphenol											
2-methylnapthalene											
hexachlorocyclopentadiene											
2,4,6-trichlorophenol											
2,4,5-trichlorophenol											
2-chloronaphthalene											
2-nitroaniline											
dimethyl phthalate											
acenapthylene											
3-nitroaniline											
acenaphthene											
2,4-dinitrophenol											
4-nitrophenol											
dibenzofurnan											
2,4-dinitrotoluene											
2,6-dinitrotoluene											
diethylphthalate											
4-chlorophenyl-phenylether											
flourene											
4-nitroaniline											
4,6-dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-bromophenyl-phenylether											
hexachlorobenzene											

STATE Illinois SITE National Disposal #1 TDD R05-8410-01B PAGE 1 OF 2, SET # 1

A SUMMARY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED, HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC INFORMATION IS PROVIDED IN THE ATTACHED DATA SHEETS.

I) REPORTING UNITS
- A) ORGANICS
  - 1) Water Samples - ug/l or ppb (parts per billion)
  - 2) Soils or Sediments - ug/kg or ppb (parts per billion)
- B) METALS
  - 1) Water Samples - ug/l or ppb
  - 2) Soils or sediments - mg/kg or ppm

II) DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A) ORGANICS

Footnote	Definition	Interpretation
UJ	Detection Limit (D.L.) is estimated because of a Quality Control (QC) protocol. D.L. is possibly above or below Contract Required Detection Limit (CRDL).	Compound was not detected
UB	Compound found in laboratory blank. No Value above CRDL.	Compound was not detected
UJB	Compound found in laboratory blank, but not detected in sample. CRDL is estimated because of a QC protocol.	Compound was not detected
B	Compound found in blank. Two interpretations are possible:	
	a) If sample value is equivalent to D.L. to 5x blank concentration	Compound value is semi-quantitative.
	b) If sample value is greater than 5x the blank concentration	Compound value is quantitative
JB	Compound found in blank, value is estimated because of QC protocol.	Compound value is semi-quantitative
R	Do Not Use Value. Major Violation of QC Protocol	Compound value is not usable.
C	Value adjusted for blank (an unacceptable procedure)	Compound value is semi-quantitative
J	Value is above CRDL and is an estimated value because of a QC protocol	Compound value is semi-quantitative
Q	No Analytical Result	Compound was not detected
N	Presumptive evidence for the presence of a compound as used for a Tentatively Identified Compound (TIC)	Compound value is semi-quantitative

B) METALS

FOOTNOTE	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Compound or element was not detected or value is semi-quantitative
s	Analysis by Method of Standard Additions (Look for a "+" Footnote)	Value is quantative
R	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative
*	Duplicate value outside QC protocols which indicates a possible matrix problem	Value is semiquantitative
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value is biased
[ ]	Value is real, but is above instrument D.L. and below CRDL	Value may be quantitative or semiquantitative
UJ	D.L. is estimated because of a QC protocol. D.L. is possibly above or below CRDL.	Compound or element was not detected
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value is semiquantitative

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

Date Received for Review: 12/19/85 Date Review Completed: 12/31/85

To: Ron Bock

From: Cynthia Pugh / Suzanne Kozlowski

Subject: National Disposal #1 Illinois R05-8410-1B

Sample Description: Case # 5124 5 low soil metals analyses

Project Data Status: waiting for organics

FIT Data Review Findings:
See attached CRL review
Sb and Hg data is estimated
Data acceptable for use

Additional Comments:

Book No. 5
Page No. 60

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12-17-85

SUBJECT: Review of Region V CLP Data Received for Review on 12-2-85 ; 12/16/85

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

RECEIVED DEC 19 1985

TO: Data User: FIT

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

SITE NAME: National Disposal #1 SMO Case No. 5124

EPA Data Set No. SF 2760 No. of Samples: 5 D.U./Activity Numbers 49051C48500

CRL No. 86FN02S16 to 86FN02S20

SMO Traffic No. MEG466 to MEG470

CLP Laboratory: Mack Laboratories Hrs. Required for Review: 7

Following are our findings.

This review covers five low concentration soil samples.
The duplicate precision was poor for Cd, Fe (37=RPD), Pb (27=RPD), Mn (65=RPD), K (44=RPD), Na (44=RPD), and Zn (96=RPD).
The spike recoveries were biased low for Sb (46%) and Hg (37%).
The spike recoveries were biased high for Ag (130%) and Tl (196%).
The Sb and Hg data is estimated (UJ), as the actual detection limit may be higher than that which is reported.

Jan F. Fels
12/17/85

( ) 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 8-73)

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date: November 27, 1985

DEC 2 1985

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mack Laboratories
SOW No.: 784

Case No.: 5124
Q.C. Report No.: 3000/07

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEG 466	3000/150		
MEG 467	3000/151		
MEG 468	3000/152		
MEG 469	3000/153		
MEG 470	3000/154		

Comments:

ICP Interelement and background corrections applied? Yes ____ No ____

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) of F (for furnace).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
s - Indicates value determined by Method of Standard Addition.
R - Indicates spike sample recovery is not within control limits.
* - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

Form I

86FN02516

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.
MEG 466
UPSTREAM SAMPLE

Date: November 27, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Mack Laboratories
SOW NO. 784
LAB SAMPLE ID. NO. 3000/150

CASE NO. 5124
QC REPORT NO.: 3000/07

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

	1.	Aluminum	3,290		P	13.	Magnesium	11,100		P
✓	2.	Antimony	32	UR	P	14.	Manganese	328	*	P
✓	3.	Arsenic	[3]		F	✓ 15.	Mercury	0.03	UR	Hydride
	4.	Barium	1,360		P	✓ 16.	Nickel	[16]		P
✓	5.	Beryllium	2	U	P	17.	Potassium	41,000	*	P
X ✓	6.	Cadmium	7.3*		P	✓ 18.	Selenium	2	U	F
	7.	Calcium	32,200		P	✓ 19.	Silver	2	U R	P
X ✓	8.	Chromium	14		P	20.	Sodium	45,700	*	P
✓	9.	Cobalt	6.7	U	P	✓ 21.	Thallium	4	U R	F
✓	10.	Copper	4	U	P	✓ 22.	Tin	11.5	U	F
	11.	Iron	7,150	*	P	✓ 23.	Vanadium	13	U	F
X ✓	12.	Lead	98.6*		F	24.	Zinc	26.3	*	P
✓	Cyanide		NR			Percent Solids (%)		76.80		

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ✓ toxic metals
* means duplicate analysis wasn't within control limits
see previous page for other symbol's explanation
[X] less than X

Lab Manager John A Mack

Form I

86FN02517

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.
MEG 467

Date: November 27, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Mack Laboratories CASE NO. 5124
SOW NO. 784
LAB SAMPLE ID. NO. 3000/151 QC REPORT NO.: 3000/07

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	20,300	P	13.	Magnesium	9,710	P
2.	Antimony	33 UR	P	14.	Manganese	619 *	P
3.	Arsenic	[5]	F	15.	Mercury	0.03 UR	Hydride
4.	Barium	1,160	P	16.	Nickel	26	P
5.	Beryllium	3 U	P	17.	Potassium	29,100 *	P
6.	Cadmium	11 *	P	18.	Selenium	3 U	F
7.	Calcium	8,920	P	19.	Silver	2 UR	P
8.	Chromium	29	P	20.	Sodium	27,800 *	P
9.	Cobalt	7.0 UP		21.	Thallium	4 UR	F
10.	Copper	[14]	P	22.	Tin	11.5 U	F
11.	Iron	19,000 *	P	23.	Vanadium	[27]	F
12.	Lead	37.7*	F	24.	Zinc	200 *	P
Cyanide		NR		Percent Solids (%)		78.06	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager John D Mack

Form I

86FN02518

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.
MEG 468

Date: November 27, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Mack Laboratories
CASE NO. 5124
SOW NO. 784
LAB SAMPLE ID. NO. 3000/152
QC REPORT NO.: 3000/07

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

	1.	Aluminum	18,000	P	13.	Magnesium	15,200	P
	2.	Antimony	36 UR	P	14.	Manganese	623*	P
	3.	Arsenic	[5]	F	15.	Mercury	0.03UR	Hydride
	4.	Barium	1,850	P	16.	Nickel	[26]	P
	5.	Beryllium	3 U	P	17.	Potassium	36,600 *	P
X	6.	Cadmium	3*	P	18.	Selenium	3 U	F
	7.	Calcium	33,900	P	19.	Silver	2 UR	P
X	8.	Chromium	24	P	20.	Sodium	33,200 *	P
	9.	Cobalt	7.6 U	P	21.	Thallium	4 UR	F
	10.	Copper	[12]	P	22.	Tin	12.1 U.	F
	11.	Iron	19,400 *	P	23.	Vanadium	[21]	F
X	12.	Lead	26.3 *	F	24.	Zinc	63 *	P
	Cyanide		NR			Percent Solids (%)	72.14	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager John D Mack

Form I

86FN02519

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.
MEG 469

Date: November 27, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Mack Laboratories
CASE NO. 5124
SOW NO. 784
LAB SAMPLE ID. NO. 3000/153
QC REPORT NO.: 3000/07

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	22,000	P	13.	Magnesium	17,300	P
2.	Antimony	39 UR	P	14.	Manganese	690*	P
3.	Arsenic	[6]	F	15.	Mercury	0.04UR	Hydride
4.	Barium	1,860	P	16.	Nickel	[26]	P
5.	Beryllium	3 U	P	17.	Potassium	45,400*	P
6.	Cadmium	[2]*	P	18.	Selenium	3 U	F
7.	Calcium	28,200	P	19.	Silver	2 UR	P
8.	Chromium	30	P	20.	Sodium	43,300*	P
9.	Cobalt	8.3 U	P	21.	Thallium	5 UR	F
10.	Copper	[11]	P	22.	Tin	13.5 U	F
11.	Iron	22,400*	P	23.	Vanadium	[18]	F
12.	Lead	31.6*	F	24.	Zinc	76.7*	P
Cyanide		NR		Percent Solids (%)		63.34	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager John D Mack

Form I

86FN02520

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.
MEG 470

Date: November 27, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Mack Laboratories
CASE NO. 5124
SOW NO. 784
LAB SAMPLE ID. NO. 3000/154
QC REPORT NO.: 3000/07

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	6,400	P	13.	Magnesium	14,600	P
2.	Antimony	31 UR	P	14.	Manganese	480 *	P
3.	Arsenic	[5]	F	15.	Mercury	0.03 UR	Hydride
4.	Barium	2,330	P	16.	Nickel	[13]	P
5.	Beryllium	2 U	P	17.	Potassium	13,000 *	P
6.	Cadmium	2 U *	P	18.	Selenium	2 U	F
7.	Calcium	59,600	P	19.	Silver	2 UR	P
8.	Chromium	14	P	20.	Sodium	15,100 *	P
9.	Cobalt	6.5 U	P	21.	Thallium	4 UR	F
10.	Copper	4 U	P	22.	Tin	[15.3]	F
11.	Iron	14,000 *	P	23.	Vanadium	12 U	F
12.	Lead	15.3 *	F	24.	Zinc	58 *	P
Cyanide		NR		Percent Solids (%)		84.56	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager John D Mack

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

Date Received for Review: 1-14-86 Date Review Completed: 1-20-86

To: Steve Nelson

From: Cynthia Pugh

Subject: National Disposal #1 (Illinois)
(R05-8410-01B)

Sample Description: Case # 5124: Low Soil Organics & Review

Project Data Status: COMPLETE

FIT Data Review Findings:

Data Acceptable with comments noted on attached Narrative

Additional Comments:

More QA info. available in original file.

Book No. 5
Page No. 60

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 11/26/85

RECEIVED NOV 2 6 1985

SUBJECT: Review of Region V CLP Data
Received for Review on 11/25/85

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

TO: Data User: Fit

RECEIVED JAN 1 4 1986

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

SITE NAME: National Disposal #1 SMO Case No. 5124

EPA Data Set No. 3F 2760 No. of Samples: 5 D.U./Activity Numbers Y905 / C48500

CRL No. 86EN02516 - 86EN02520

SMO Traffic No. EE440 - EE444

CLP Laboratory: Clayton Hrs. Required for Review:

Following are our findings.

PRELIMINARY PENDING VIAR REVIEW
Patrick J. Chirillo
11-26-85

( ) 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
Don Trees, CLP/Sample Management Office

Review

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

E: 1/17/86

T: Review of Region V CLP Data
Received for Review on 1/16/86

M. Curtis Ross, Director (SSCRL) Francis Thomas
Central Regional Laboratory

O: Data User: Fit

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

SITE NAME: National Disposal #1 SMO Case No. 5124

EPA Data Set No. SF 2760 No. of Samples: 5 D.U./Activity Numbers 4905 | C48500

CRL No. 86FN02516 - 86FN02520

SMO Traffic No. EE440 - EE444

CLP Laboratory: Clayton Hrs. Required for Review: 1

Following are our findings.

See Vial Review.

Patrick J. Chinillo
1-17-86

( ) 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

FORM 1320-6 REV 5-83

Renée Hicks

MEMORANDUM

JAN 1 4 1986

DATE: January 6, 1986

TO: Chuck Elly

USEPA Region V

RECEIVED JAN 1 4 1986

FROM: Peter J. Isaacson

SMO Data Review Team

SUBJECT: QA/QC Compliance Review Summary for a Contract Laboratory Organic Sample Data Package: Case No. 5124

As requested, quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Volatiles	II B/N/A	III Pesticide
Acceptable as Submitted			✓
Acceptable with Comments	✓	✓	
Unacceptable, Action Pending			
Unacceptable			

Data Prepared by: Zohreh Hamid Date: 1.6.86

Reviewier's Name: Peter J. Isaacson Date: 1/6/86.

Reviewer's Signature: Peter Isaacson

Area Code/Phone No.: 703-557-2490

FTS Line: 8-557-2490

NARRATIVE

Case No. 5124

Site Name: National Disposal #1

Laboratory Name: Clayton

RECEIVED JAN 1 4 1986

Introduction

The laboratory's portion of this Case consisted of five (5) soil samples collected on October 24, 1985.

The laboratory reported two problems with the receipt of these samples. Shipping was delayed one day. The Case consisted of five (5) instead of six (6) samples.

The laboratory reported a few problems with the analyses of semi-volatile compounds.

a. Higher than the maximum % RSD for Pentachlorophenol and N-Nitrosodiphenylamine.

b. Surrogates for two (2) samples and QC samples were diluted due to a large concentration of bis(2-Ethylhexyl)Phthalate in BNA fraction.

c. High level of bis(2-Ethylhexyl)Phthalate was present in the sample and matrix spike, but not in the matrix spike duplicate. This discrepancy was not due to the blank, so it could not be directly attributed to contamination.

The evaluator has commented on the criteria specified under each fraction heading. Details relevant to these comments are given on the forms in Appendix A. Amounts of detected compounds are summarized in Appendix B.

Evaluation by Fraction

I. Volatiles

___ Holding Times
___ GC/MS Tuning
X Calibration, Initial
___ Calibration, Continuing
X Blank
___ Surrogate Recovery
___ MS/MSD
X Compound ID (HSL, TIC)
___ Spectra Quality
___ Standards
___ Chromatography
___ Data Completeness

RECEIVED JAN 1 4 1986

Comments:

Eight (8) HSL compounds and one (1) tentatively-identified compound (TIC) were found in the samples. All of the HSL (three aliphatic ketones and five aliphatic chlorinated hydrocarbon) compounds were found at comparable levels in the field blank. Except acetone, the results for these compounds should be used as detection limits. The only TIC was carbon dioxide which was also found in the blank.

Vinyl acetate had % RSD equal to 96 (greater than 30%) in VOA initial calibration, and is flagged UJ for estimated detection limit in Appendix B. Also, this compound had average RF less than 0.3. As this compound is rarely detected at quantifiable levels in CLP data, it is considered not analyzed (R) here.

II. Base/Neutral/Acids

___ Holding Times
___ GC/MS Tuning
X Calibration, Initial
X Calibration, Continuing
X Blank
___ Surrogate Recovery
___ MS/MSD
X Compound ID (HSL, TIC)
___ Standards
___ Chromatography
___ Data Completeness

Comments:

Nine (9) HSL and a maximum thirteen (13) TIC compounds were reported in the samples. Some of the TIC compounds were reported as unknown and many of these compounds are derivatives of acetic acid, ketones and hydrocarbons. All HSL compounds occurred in the method blank at a comparable level and should be considered as detection limits, except bis(2-Ethylhexyl)Phthalate. This compound, which was found at 62 ppb (dilution factor = 1) in the field blank, is considered a true hit in EE 440 and EE 444, at 530,000 and 130,000 ppb (dilution factors are 200 and 80, respectively). Compounds which had % RSD over 30% or 25% in the calibration are marked UJ for estimated detection limit in Appendix B.

III. Pesticides/PCBs

___ Holding Times
___ Instrument Performance
___ DDT RT/12 Minute
___ Retention Time Window
___ Analytical Sequence
___ DDT/Endrin Degradation
___ RT Check for DBC
___ Resolution Check
___ Calibration Linearity
___ Calibration, Continuing
___ Blank
___ Surrogate Recovery
___ MS/MSD
___ Compound ID (HSL, TIC)
___ Standards
___ Chromatography
___ Data Completeness

RECEIVED JAN 1 4 1986

Comments:

No HSL pesticides were detected. The analysis met all required QC criteria.

Additional Comments

None.

5124-5-021-01

RECEIVED NOV 2 6 1985

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CASE NARRATIVE

CASE # 5124, REGION 5
SMO # EE440-EE444
CONTRACT # 68-01-7100

ADDITIONAL FLAGS

N = Instrument detection limit exceeded CRDL, therefore instrument detection limit was used.
M = Matrix spike compound.
A = Indicates a pesticide value less than the dilution corrected limit of detection but greater than the CRDL.
DL= Diluted out

GC/MS DATA

STANDARDS

Volatile Initial Calibration Data were all within acceptance windows.

Continuing Calibration Data for volatiles at 11:06 on October 28,1985 were all within acceptance windows.

Continuing Calibration Data for volatiles at 23:10 on October 28,1985 were all within acceptance windows.

Semi-volatile Initial Calibration Data on November 7,1985 were within acceptance windows, except data for pentachlorophenol, %RSD=37; the maximum %RSD for CCC compounds is 30.

Continuing Calibration Data for semi-volatiles on November 8,1985 were within acceptance windows, except data for pentachlorophenol, %RSD=41; the maximum %RSD for CCC compounds is 25.

Semi-volatile Initial Calibration Data on November 13,1985 were within acceptance windows, except data for N-nitrosodiphenylamine, %RSD=34; and di-n-octylphthalate, %RSD=36; the maximum %RSD for CCC compounds is 30.

Continuing Calibration Data for semi-volatiles on November 18,1985 were within acceptance windows, except data for pentachlorophenol, %RSD=50; the maximum %RSD for CCC compounds is 25.

5124-5-021-02

RECEIVED NOV 2 6 1985

SURROGATE RECOVERIES

GC/MS surrogate recoveries for volatiles and semi-volatiles were all within contract required QC limits. Semi-volatile surrogates for sample numbers EE440, EE440MS, EE440MSD, and EE444 were all diluted out due to a large concentration of bis(2-ethylhexyl)phthalate. The samples were all characterized as low level.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix spike recoveries were all within the QC limits. Matrix Spike data for the base-neutrals and acids could not be calculated since the matrix spike compounds were diluted out because of the high concentration of bis(2-ethylhexyl)phthalate in the sample.

BLANKS

Soil:

The volatiles method blank I analyzed on October 28,1985 contained 10ug/Kg methylene chloride, 17ug/Kg acetone, 8ug/Kg 2-butanone, 4ug/Kg 2-hexanone, 6ug/Kg 4-methyl-2-pentanone, and 6ug/Kg unknown. Methylene chloride and acetone were detected at a concentration greater than the CRDL.

The volatiles method blank II analyzed on October 28,1985 contained 14ug/Kg methylene chloride, 36ug/Kg acetone, 24ug/Kg 2-butanone, 3ug/Kg 4-methyl-2-pentanone, and 3ug/Kg 2-hexanone. Methylene chloride, acetone, and 2-butanone were detected at a concentration greater than the CRDL.

The semi-volatiles method blank I analyzed on November 8,1985 contained 110ug/Kg di-n-butylphthalate, 62ug/Kg bis(2-ethylhexyl)phthalate, 700ug/Kg unknown, 3000ug/Kg 1-methylethyl ester acetic acid, 40000ug/Kg 4-hydroxy-4-methyl-2-pentanone, 100ug/Kg 2,6-dimethylheptane, and 800ug/Kg unknown. No compounds were detected at concentrations exceeding the CRDL's.

DFTPP AND BFB TUNE

All data and standard files were acquired with the instrument in both DFTPP or BFB tune as required by the contract.

5124-5-021-03

RECEIVED NOV 2 6 1985

ADDITIONAL COMMENTS

High levels of bis(2-ethylhexyl)phthalate was found in EE440, EE440MS, and EE444. Much lower levels of bis(2-ethylhexyl)phthalate was found in EE440MSD. Mr. Frank Thomas of Region 5 was consulted November 12,1985 on this discrepency, he suggested that we do not reextract the samples. A possible explaination is a non-homogeneous sample. The bis(2-ethylhexyl)phthalate could not be readily attributed to contamination because only trace levels were found in the method blank.

PESTICIDE RESULTS

STANDARDS

Pesticides standards data were within contract required QC limits for the packed (primary) and capillary (confirmation) column.

SURROGATE RECOVERIES

Surrogate recoveries of dibutyl chlorendate (DBC) were within the advisory windows, except data for EE442, %REC=155. The advisory window for DBC is 20-150.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix spike and matrix spike duplicate recovery data were within QC limits. Lindane recovery data could not be calculated due to a matrix interference.

BLANKS

No pesticides or PCB's were detected in the matrix blanks.

Daryl Strandbergh

DARYL STRANDBERGH
PROJECT MANAGER,CLP

DATE: 11-22-85

RECEIVED NOV 2 6 1985

Sample Number
EE-440

5124.5-028-01

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: [redacted] Case No: 5124

Lab Sample ID No: A 3146 (423001) QC Report No: (N/A)

Sample Matrix: Soil Contract No: 68-01-7100

Data Release Authorized By: [signature] Date Sample Received: 10/25/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: —

Date Analyzed: 10/28/85

Conc/Dil Factor: 1 pH 7.7

Percent Moisture: (Not Decanted) 17.46

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	15 N
74-83-9	Bromomethane	12 U
75-01-4	Vinyl Chloride	12 U
75-00-3	Chloroethane	12 U
75-09-2	Methylene Chloride	(11 B)
67-64-1	Acetone	(120 B)
75-15-0	Carbon Disulfide	6 U
75-35-4	1, 1-Dichloroethene	7 N
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	(9 BJ)
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

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	19 N
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	15 N
75-25-2	Bromoform	6 U
108-10-1	4-Methyl-2-Pentanone	17 N
591-78-6	2-Hexanone	12 U
127-18-4	Tetrachloroethene	6 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6 U
108-88-3	Toluene	6 U
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 action. (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 indicated 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). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

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

N Matrix spike compound

H Instrument limit of detection was used because it was higher than the CRDL

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

Laboratory Name: [illegible], Inc.

Case No: 5124

Sample Number
EE 440

5124-S-028-02

Organics Analysis Data Sheet
(Page 2)

RECEIVED NOV 2 6 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10/28/85

Date Analyzed: 11/18/85

Conc/(Dil) Factor: 200

Percent Moisture (Decanted) 17.46

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	80000 U
111-44-4	bis(-2-Chloroethyl)Ether	80000 U
95-57-8	2-Chlorophenol	80000 U
541-73-1	1 3-Dichlorobenzene	80000 U
106-46-7	1. 4-Dichlorobenzene	80000 U
100-51-6	Benzyl Alcohol	80000 U
95-50-1	1. 2-Dichlorobenzene	80000 U
95-48-7	2-Methylphenol	80000 U
39638-32-9	bis(2-chloroisopropyl)Ether	160000 N
106-44-5	4-Methylpheno	80000 U
621-64-7	N-Nitroso-Di-n-Propylamine	80000 U
67-72-1	Hexachloroethane	80000 U
98-95-3	Nitrobenzene	80000 U
78-59-1	Isophorone	80000 U
88-75-5	2-Nitrophenol	80000 U
105-67-9	2. 4-Dimethylphenol	80000 U
65-85-0	Benzoic Acid	390000 U
111-91-1	bis(-2-Chloroethoxy)Methane	80000 U
120-83-2	2. 4-Dichlorophenol	80000 U
120-82-1	1. 2. 4-Trichlorobenzene	80000 U
91-20-3	Naphthalene	80000 U
106-47-8	4-Chloroaniline	80000 U
87-68-3	Hexachlorobutadiene	80000 U
59-50-7	4-Chloro-3-Methylphenol	80000 U
91-57-6	2-Methylnaphthalene	80000 U
77-47-4	Hexachlorocyclopentadiene	80000 U
88-06-2	2. 4 6-Trichlorophenol	80000 U
95-95-4	2. 4. 5-Trichlorophenol	390000 U
91-58-7	2-Chloronaphthalene	80000 U
88-74-4	2-Nitroaniline	390000 U
131-11-3	Dimethyl Phthalate	80000 U
208-96-8	Acenaphthylene	80000 U
99-09-2	3-Nitroaniline	390000 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	80000 U
51-28-5	2. 4-Dinitrophenol	390000 U
100-02-7	4-Nitrophenol	390000 U
132-64-9	Dibenzofuran	80000 U
121-14-2	2. 4-Dinitrotoluene	80000 U
606-20-2	2. 6-Dinitrotoluene	80000 U
84-66-2	Diethylphthalate	80000 U
7005-72-3	4-Chlorophenyl-phenylether	80000 U
86-73-7	Fluorene	80000 U
100-01-6	4-Nitroaniline	390000 U
534-52-1	4. 6-Dinitro-2-Methylphenol	390000 U
86-30-6	N-Nitrosodiphenylamine (1)	80000 U
101-55-3	4-Bromophenyl-phenylether	80000 U
118-74-1	Hexachlorobenzene	80000 U
87-86-5	Pentachlorophenol	390000 U
85-01-8	Phenanthrene	80000 U
120-12-7	Anthracene	80000 U
84-74-2	Di-n-Butylphthalate	22000 BJ
206-44-0	Fluoranthene	80000 U
129-00-0	Pyrene	170000 N
85-68-7	Butylbenzylphthalate	80000 U
91-94-1	3. 3'-Dichlorobenzidine	160000 U
56-55-3	Benzo(a)Anthracene	80000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	530000 B
218-01-9	Chrysene	80000 U
117-84-0	Di-n-Octyl Phthalate	80000 U
205-99-2	Benzo(b)Fluoranthene	80000 U
207-08-9	Benzo(k)Fluoranthene	120000 N
50-32-8	Benzo(a)Pyrene	80000 U
193-39-5	Indeno(1 2. 3-cd)Pyrene	80000 U
53-70-3	Dibenzo(a h)Anthracene	80000 U
191-24-2	Benzo(g. h i)Perylene	80000 U

(1)-Cannot be separated from diphenylamine

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-440

RECEIVED NOV 2 6 1985

Organics Analysis Data Sheet
(Page 3)

5124-5-028-03

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 28 OCTOBER 1985

Date Analyzed: 7-8 NOVEMBER 1985

Conc/Dil Factor: 1. (EXCEPT AS INDICATED)

Percent Moisture (decanted) 17.46

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	9.7u
319-85-7	Beta-BHC	9.7u
319-86-8	Delta-BHC	9.7u
58-89-9	Gamma-BHC (Lindane)	9.7u
76-44-8	Heptachlor	9.7u
309-00-2	Aldrin	9.7u
1024-57-3	Heptachlor Epoxide	9.7u
959-98-8	Endosulfan I	9.7u
60-57-1	Dieldrin	19.u
72-55-9	4,4'-DDE	19.u
72-20-8	Endrin	19.u
33213-65-9	Endosulfan II	19.u
72-54-8	4,4'-DDD	19.u
1031-07-8	Endosulfan Sulfate	19.u
50-29-3	4,4'-DDT	19.u
72-43-5	Methoxychlor	970u
53494-70-5	Endrin Ketone	190u
57-74-9	Chlordane	97.u
8001-35-2	Toxaphene	190u
12674-11-2	Aroclor-1016	97.u
11104-28-2	Aroclor-1221	97.u
11141-16-5	Aroclor-1232	97.u
53469-21-9	Aroclor-1242	97.u
12672-29-6	Aroclor-1248	97.u
11097-69-1	Aroclor-1254	190u
11096-82-5	Aroclor-1260	190u

} 1/10 DILUTION

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 30.03g V_t 20000 ul V_i 1.0 ul

J Smith 11-2-85

092

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-440

5124-5-029-01

Organics Analysis Data Sheet
(Page 4)

RECEIVED NOV 26 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	No volatile compounds found	VOA	—	—
2. —	unknown	BNA	5.47	100 000 J
3. 928949	2-Hexen-1-ol	BNA	6.42	40 000 J
4. 542187	Chlorocyclohexane	BNA	6.49	40 000 J
5. 822877	2-chlorocyclohexanone	BNA	10.16	50 000 J
6. 24955633	1,3-dichlorocyclohexane-cis	BNA	10.42	80 000 J
7. —	unknown	BNA	36.48	60 000 J
8. —	unknown	BNA	37.08	300 000 J
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Sample Number
EE-441

5124-5-028-04

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: [redacted] Case No: 5124

Sample ID No: A 3160 (423004) QC Report No: (N/A)

Sample Matrix: Soil Contract No: 68-01-7100

Data Release Authorized By: [signature] Date Sample Received: 10/25/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: —

Date Analyzed: 10/29/85

Conc/Dil Factor: 1 pH 7.8

Percent Moisture: (Not Decanted) 21.23

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	15 N
74-83-9	Bromomethane	13 U
75-01-4	Vinyl Chloride	13 U
75-00-3	Chloroethane	13 U
75-09-2	Methylene Chloride	(8 B)
67-64-1	Acetone	(71 B)
75-15-0	Carbon Disulfide	6 U
75-35-4	1, 1-Dichloroethene	8 N
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	(28 B)
71-55-6	1, 1, 1-Trichloroethane	6 U
56-23-5	Carbon Tetrachloride	6 U
108-05-4	Vinyl Acetate	13 U
75-27-4	Bromodichloromethane	6 U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	20 N
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	15 N
75-25-2	Bromoform	6 U
108-10-1	4-Methyl-2-Pentanone	18 N
591-78-6	2-Hexanone	13 U
127-18-4	Tetrachloroethene	6 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6 U
108-88-3	Toluene	6 U
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 action. (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 indicated 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). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

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.

M — Matrix spike compound

N — Instrument limit of detection was used because it was higher than the CRDL

A — Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No: 5124-5

Sample Number
EE-441

5124-5-028-05

Organics Analysis Data Sheet
(Page 2)

RECEIVED NOV 26 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10/28/85

Date Analyzed: 11/18/85

Conc/(Dil) Factor: 1

Percent Moisture (Decanted) 21.23

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	420 U
111-44-4	bis(-2-Chloroethyl)Ether	420 U
95-57-8	2-Chlorophenol	420 U
541-73-1	1 3-Dichlorobenzene	420 U
106-46-7	1. 4-Dichlorobenzene	420 U
100-51-6	Benzyl Alcohol	420 U
95-50-1	1. 2-Dichlorobenzene	420 U
95-48-7	2-Methylphenol	420 U
39638-32-9	bis(2-chloroisopropyl)Ether	540 N
106-44-5	4-Methylpheno	420 U
621-64-7	N-Nitroso-Di-n-Propylamine	420 U
67-72-1	Hexachloroethane	420 U
98-95-3	Nitrobenzene	420 U
78-59-1	Isophorone	420 U
88-75-5	2-Nitrophenol	420 U
105-67-9	2. 4-Dimethylphenol	420 U
65-85-0	Benzoic Acid	(180 J)
111-91-1	bis(-2-Chloroethoxyl)Methane	420 U
120-83-2	2. 4-Dichlorophenol	420 U
120-82-1	1. 2. 4-Trichlorobenzene	420 U
91-20-3	Naphthalene	420 U
106-47-8	4-Chloroaniline	420 U
87-68-3	Hexachlorobutadiene	420 U
59-50-7	4-Chloro-3-Methylphenol	420 U
91-57-6	2-Methylnaphthalene	420 U
77-47-4	Hexachlorocyclopentadiene	420 U
88-06-2	2. 4 6-Trichlorophenol	420 U
95-95-4	2. 4. 5-Trichlorophenol	2000 U
91-58-7	2-Chloronaphthalene	420 U
88-74-4	2-Nitroaniline	2000 U
131-11-3	Dimethyl Phthalate	420 U
208-96-8	Acenaphthylene	420 U
99-09-2	3-Nitroaniline	2000 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	420 U
51-28-5	2. 4-Dinitrophenol	2000 U
100-02-7	4-Nitrophenol	2000 U
132-64-9	Dibenzofuran	420 U
121-14-2	2. 4-Dinitrotoluene	420 U
606-20-2	2. 6-Dinitrotoluene	420 U
84-66-2	Diethylphthalate	420 U
7005-72-3	4-Chlorophenyl-phenylether	420 U
86-73-7	Fluorene	420 U
100-01-6	4-Nitroaniline	2000 U
534-52-1	4. 6-Dinitro-2-Methylphenol	2000 U
86-30-6	N-Nitrosodiphenylamine (1)	420 U
101-55-3	4-Bromophenyl-phenylether	420 U
118-74-1	Hexachlorobenzene	420 U
87-86-5	Pentachlorophenol	2000 U
85-01-8	Phenanthrene	420 U
120-12-7	Anthracene	420 U
84-74-2	Di-n-Butylphthalate	(150 BJ)
206-44-0	Fluoranthene	420 U
129-00-0	Pyrene	590 N
85-68-7	Butylbenzylphthalate	420 U
91-94-1	3. 3'-Dichlorobenzidine	840 U
56-55-3	Benzo(a)Anthracene	420 U
117-81-7	bis(2-Ethylhexyl)Phthalate	(85 BJ)
218-01-9	Chrysene	420 U
117-84-0	Di-n-Octyl Phthalate	420 U
205-99-2	Benzo(b)Fluoranthene	420 U
207-08-9	Benzo(k)Fluoranthene	630 N
50-32-8	Benzo(a)Pyrene	420 U
193-39-5	Indeno(1. 2. 3-cd)Pyrene	420 U
53-70-3	Dibenzo(a. h)Anthracene	420 U
191-24-2	Benzo(g. h. i)Perylene	420 U

(1)-Cannot be separated from diphenylamine

Form I

7 85

JAM

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-441

Organics Analysis Data Sheet
(Page 3)

5124-5-028-06

RECEIVED NOV 26 1985

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared: 28 OCTOBER 1985

Date Analyzed: 7 NOVEMBER 1985

Conc/Dil Factor: 1.

Percent Moisture (decanted) 21.23

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	10. u
319-85-7	Beta-BHC	10. u
319-86-8	Delta-BHC	10. u
58-89-9	Gamma-BHC (Lindane)	10. u
76-44-8	Heptachlor	10. u
309-00-2	Aldrin	10. u
1024-57-3	Heptachlor Epoxide	10. u
959-98-8	Endosulfan I	10. u
60-57-1	Dieldrin	20. u
72-55-9	4,4'-DDE	20. u
72-20-8	Endrin	20. u
33213-65-9	Endosulfan II	20. u
72-54-8	4,4'-DDD	20. u
1031-07-8	Endosulfan Sulfate	20. u
50-29-3	4,4'-DDT	20. u
72-43-5	Methoxychlor	100 u
53494-70-5	Endrin Ketone	20. u
57-74-9	Chlordane	100 u
8001-35-2	Toxaphene	200 u
12674-11-2	Aroclor-1016	100 u
11104-28-2	Aroclor-1221	100 u
11141-16-5	Aroclor-1232	100 u
53469-21-9	Aroclor-1242	100 u
12672-29-6	Aroclor-1248	100 u
11097-69-1	Aroclor-1254	200 u
11096-82-5	Aroclor-1260	200 u

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 30.02g V_t 2000 ul V_i 1.0 ul

Form 1

7 85

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-441

5124.5-029-02

Organics Analysis Data Sheet
(Page 4)

RECEIVED NOV 2 6 1985

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	No Volatile compounds found	VOA	—	—
2.	—	Unknown	BNA	5.08	10 000 J
3.	123422	4-hydroxy-4-methyl-2-Pentanone*	BNA	5.72	80 000 BJ
4.	—	Unknown	BNA	5.80	400 J
5.	—	Unknown (C_8H_{18} and C_9H_{20} hydrocarbons)	BNA	6.00	200 J
6.	—	Unknown	BNA	7.17	2000 J
7.	—	Unknown	BNA	8.92	200 J
8.	—	Unknown	BNA	10.12	600 J
9.	57103	Hexadecanoic Acid	BNA	24.85	300 J
10.	—	Unknown Hydrocarbon	BNA	34.60	600 J
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* possible aldo condensation of acetone

Sample Number
EE-442

5124-5-028-07

RECEIVED NOV 2 6 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: [redacted] Case No: 5124

Lab Sample ID No: A 3144 (423005) QC Report No: (N/A)

Sample Matrix: SOIL Contract No: 68-01-7100

Data Release Authorized By: [signature] Date Sample Received: 10/25/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: —

Date Analyzed: 10/28/85

Conc/Dil Factor: 1 pH 7.7

Percent Moisture: (Not Decanted) 26.36

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	16 N
74-83-9	Bromomethane	14 U
75-01-4	Vinyl Chloride	14 U
75-00-3	Chloroethane	14 U
75-09-2	Methylene Chloride	(16 B)
67-64-1	Acetone	(190 B)
75-15-0	Carbon Disulfide	7 U
75-35-4	1, 1-Dichloroethene	8 N
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	(10 B)
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)
78-87-5	1, 2-Dichloropropane	22 N
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	16 N
75-25-2	Bromoform	7 U
108-10-1	4-Methyl-2-Pentanone	19 N
591-78-6	2-Hexanone	14 U
127-18-4	Tetrachloroethene	7 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	7 U
108-88-3	Toluene	7 U
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 action. (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 indicated 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). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

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.

N Matrix spike compound

N Instrument limit of detection was used because it was higher than the CRDL

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No: 5124

Sample Number: EE-442

RECEIVED NOV 26 1985

Organics Analysis Data Sheet
(Page 2)

5124-5-028-08

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10/28/85

Date Analyzed: 11/8/85

Conc/(Dil) Factor: 1

Percent Moisture (Decanted) 26.36

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	410 U
111-44-4	bis(-2-Chloroethyl)Ether	410 U
95-57-8	2-Chlorophenol	410 U
541-73-1	1 3-Dichlorobenzene	410 U
106-46-7	1. 4-Dichlorobenzene	410 U
100-51-6	Benzyl Alcohol	410 U
95-50-1	1. 2-Dichlorobenzene	410 U
95-48-7	2-Methylphenol	410 U
39638-32-9	bis(2-chloroisopropyl)Ether	810 N
106-44-5	4-Methylpheno	410 U
621-64-7	N-Nitroso-Di-n-Propylamine	410 U
67-72-1	Hexachloroethane	410 U
98-95-3	Nitrobenzene	410 U
78-59-1	Isophorone	410 U
88-75-5	2-Nitrophenol	410 U
105-67-9	2. 4-Dimethylphenol	410 U
65-85-0	Benzoic Acid	2000 U
111-91-1	bis(-2-Chloroethoxy)Methane	410 U
120-83-2	2. 4-Dichlorophenol	410 U
120-82-1	1. 2. 4-Trichlorobenzene	410 U
91-20-3	Naphthalene	410 U
106-47-8	4-Chloroaniline	410 U
87-68-3	Hexachlorobutadiene	410 U
59-50-7	4-Chloro-3-Methylphenol	410 U
91-57-6	2-Methylnaphthalene	410 U
77-47-4	Hexachlorocyclopentadiene	410 U
88-06-2	2. 4 6-Trichlorophenol	410 U
95-95-4	2. 4. 5-Trichlorophenol	2000 U
91-58-7	2-Chloronaphthalene	410 U
88-74-4	2-Nitroaniline	2000 U
131-11-3	Dimethyl Phthalate	410 U
208-96-8	Acenaphthylene	410 U
99-09-2	3-Nitroaniline	2000 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	410 U
51-28-5	2. 4-Dinitrophenol	2000 U
100-02-7	4-Nitrophenol	2000 U
132-64-9	Dibenzofuran	410 U
121-14-2	2. 4-Dinitrotoluene	410 U
606-20-2	2. 6-Dinitrotoluene	410 U
84-66-2	Diethylphthalate	410 U
7005-72-3	4-Chlorophenyl-phenylether	410 U
86-73-7	Fluorene	410 U
100-01-6	4-Nitroaniline	2000 U
534-52-1	4. 6-Dinitro-2-Methylphenol	2000 U
86-30-6	N-Nitrosodiphenylamine (1)	410 U
101-55-3	4-Bromophenyl-phenylether	410 U
118-74-1	Hexachlorobenzene	410 U
87-86-5	Pentachlorophenol	2000 U
85-01-8	Phenanthrene	96 J
120-12-7	Anthracene	410 U
84-74-2	Di-n-Butylphthalate	120 BJ
206-44-0	Fluoranthene	150 J
129-00-0	Pyrene	270 J
85-68-7	Butylbenzylphthalate	410 U
91-94-1	3. 3'-Dichlorobenzidine	810 U
56-55-3	Benzo(a)Anthracene	410 U
117-81-7	bis(2-Ethylhexyl)Phthalate	410 U
218-01-9	Chrysene	410 U
117-84-0	Di-n-Octyl Phthalate	410 U
205-99-2	Benzo(b)Fluoranthene	410 U
207-08-9	Benzo(k)Fluoranthene	620 N
50-32-8	Benzo(a)Pyrene	410 U
193-39-5	Indeno(1. 2. 3-cd)Pyrene	410 U
53-70-3	Dibenz(a h)Anthracene	410 U
191-24-2	Benzo(g h. i)Perylene	410 U

(1)-Cannot be separated from diphenylamine

Laboratory Name DAVION ENVIRONMENTAL CONSULTANTS, INC.

Case No. 5124

Sample Number
EE-442

RECEIVED NOV 26 1985

Organics Analysis Data Sheet
(Page 3)

5124-5-028-09

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 28 OCTOBER 1985

Date Analyzed 7 NOVEMBER 1985

Conc/Dil Factor 1.

Percent Moisture (Received) 26.36

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	11. u
319-85-7	Beta-BHC	11. u
319-86-8	Delta-BHC	11. u
58-89-9	Gamma-BHC (Lindane)	11. u
76-44-8	Heptachlor	11. u
309-00-2	Aldrin	11. u
1024-57-3	Heptachlor Epoxide	11. u
959-98-8	Endosulfan I	11. u
60-57-1	Dieldrin	22. u
72-55-9	4,4'-DDE	22. u
72-20-8	Endrin	22. u
33213-65-9	Endosulfan II	22. u
72-54-8	4,4'-DDD	22. u
1031-07-8	Endosulfan Sulfate	22. u
50-29-3	4,4'-DDT	22. u
72-43-5	Methoxychlor	110 u
53494-70-5	Endrin Ketone	22. u
57-74-9	Chlordane	110 u
8001-35-2	Toxaphene	220 u
12674-11-2	Aroclor-1016	110 u
11104-28-2	Aroclor-1221	110 u
11141-16-5	Aroclor-1232	110 u
53469-21-9	Aroclor-1242	110 u
12672-29-6	Aroclor-1248	110 u
11097-69-1	Aroclor-1254	220 u
11096-82-5	Aroclor-1260	220 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 30.22 g V_t 2000 ul V_i 1.0 ul

11-26-85

Form 1

7 85

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-442

5124.5-029-03

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Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	~~Unknown~~ Carbon dioxide	VOA	4.90	90 J
2.	—	Unknown (Possible C_8H_{16})	BNA	3.66	800 J
3.	—	Unknown	BNA	4.62	10000 J
4.	—	Unknown	BNA	4.88	200 J
5.	123422	4-hydroxy-4-methyl-2-Pentanone*	BNA	5.39	100000 BJ
6.	—	Unknown	BNA	5.49	200 J
7.	2216344	4-methyl Octane	BNA	5.65	300 J
8.	—	Unknown	BNA	7.02	2000 J
9.	—	Unknown	BNA	8.92	200 J
10.	—	Unknown	BNA	10.17	400 J
11.	—	Unknown	BNA	26.27	200 J
12.	—	Unknown hydrocarbon	BNA	34.77	1000 J
13.	—	Unknown hydrocarbon	BNA	36.52	600 J
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* possible aldol condensation product

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Sample Number
EE 443

5124-5-028-10

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: [illegible] Case No: 5124

Lab Sample ID No: A 3143 (423007) QC Report No: (N/A)

Sample Matrix: Soil Contract No: 68-01-7100

Data Release Authorized By: [signature] Date Sample Received: 10/25/85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: —

Date Analyzed: 10/28/85

Conc/Dil Factor: 1 pH 7.4

Percent Moisture: (Not Decanted) 31.13

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	17 N
74-83-9	Bromomethane	15 U
75-01-4	Vinyl Chloride	15 U
75-00-3	Chloroethane	15 U
75-09-2	Methylene Chloride	21 B
67-64-1	Acetone	93 B
75-15-0	Carbon Disulfide	7 U
75-35-4	1, 1-Dichloroethene	9 N
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	20 B
71-55-6	1, 1, 1-Trichloroethane	7 U
56-23-5	Carbon Tetrachloride	7 U
108-05-4	Vinyl Acetate	15 U
75-27-4	Bromodichloromethane	7 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	23 N
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	17 N
75-25-2	Bromoform	7 U
108-10-1	4-Methyl-2-Pentanone	20 N
591-78-6	2-Hexanone	15 U
127-18-4	Tetrachloroethene	7 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	7 U
108-88-3	Toluene	7 U
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 action. (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 indicated 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). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

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

M Matrix spike compound

N Instrument limit of detection was used because it was higher than the CRDL

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

Laboratory Name: CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No: 5124

Sample Number: EE-443

5124.5-028-11

Organics Analysis Data Sheet
(Page 2)

RECEIVED NOV 2 6 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10/28/85

Date Analyzed: 11/18/85

Conc/(Dil) Factor: 1

Percent Moisture (Decanted) 31.13

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	500 U
111-44-4	bis(-2-Chloroethyl)Ether	500 U
95-57-8	2-Chlorophenol	500 U
541-73-1	1, 3-Dichlorobenzene	500 U
106-46-7	1, 4-Dichlorobenzene	500 U
100-51-6	Benzyl Alcohol	500 U
95-50-1	1, 2-Dichlorobenzene	500 U
95-48-7	2-Methylphenol	500 U
39638-32-9	bis(2-chloroisopropyl)Ether	960 N
106-44-5	4-Methylpheno	500 U
621-64-7	N-Nitroso-Di-n-Propylamine	500 U
67-72-1	Hexachloroethane	500 U
98-95-3	Nitrobenzene	500 U
78-59-1	Isophorone	500 U
88-75-5	2-Nitrophenol	500 U
105-67-9	2, 4-Dimethylphenol	500 U
65-85-0	Benzoic Acid	2300 U
111-91-1	bis(-2-Chloroethoxy)Methane	500 U
120-83-2	2, 4-Dichlorophenol	500 U
120-82-1	1, 2, 4-Trichlorobenzene	500 U
91-20-3	Naphthalene	500 U
106-47-8	4-Chloroaniline	500 U
87-68-3	Hexachlorobutadiene	500 U
59-50-7	4-Chloro-3-Methylphenol	500 U
91-57-6	2-Methylnaphthalene	500 U
77-47-4	Hexachlorocyclopentadiene	500 U
88-06-2	2, 4, 6-Trichlorophenol	500 U
95-95-4	2, 4, 5-Trichlorophenol	2300 U
91-58-7	2-Chloronaphthalene	500 U
88-74-4	2-Nitroaniline	2300 U
131-11-3	Dimethyl Phthalate	500 U
208-96-8	Acenaphthylene	500 U
99-09-2	3-Nitroaniline	2300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	500 U
51-28-5	2, 4-Dinitrophenol	2300 U
100-02-7	4-Nitrophenol	2300 U
132-64-9	Dibenzofuran	500 U
121-14-2	2, 4-Dinitrotoluene	500 U
606-20-2	2, 6-Dinitrotoluene	500 U
84-66-2	Diethylphthalate	500 U
7005-72-3	4-Chlorophenyl-phenylether	500 U
86-73-7	Fluorene	500 U
100-01-6	4-Nitroaniline	2300 U
534-52-1	4, 6-Dinitro-2-Methylphenol	2300 U
86-30-6	N-Nitrosodiphenylamine (1)	500 U
101-55-3	4-Bromophenyl-phenylether	500 U
118-74-1	Hexachlorobenzene	500 U
87-86-5	Pentachlorophenol	2300 U
85-01-8	Phenanthrene	180 J
120-12-7	Anthracene	500 U
84-74-2	Di-n-Butylphthalate	120 BJ
206-44-0	Fluoranthene	320 J
129-00-0	Pyrene	500 J
85-68-7	Butylbenzylphthalate	500 U
91-94-1	3, 3'-Dichlorobenzidine	960 U
56-55-3	Benzo(a)Anthracene	500 U
117-81-7	bis(2-Ethylhexyl)Phthalate	250 BJ
218-01-9	Chrysene	500 U
117-84-0	Di-n-Octyl Phthalate	500 U
205-99-2	Benzo(b)Fluoranthene	500 U
207-08-9	Benzo(k)Fluoranthene	730 N
50-32-8	Benzo(a)Pyrene	130 J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	500 U
53-70-3	Dibenz(a, h)Anthracene	500 U
191-24-2	Benzo(g, h, i)Perylene	500 U

(1)-Cannot be separated from diphenylamine

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-443

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5124-5-028-12

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 28 OCTOBER 1985

Date Analyzed 7 NOVEMBER 1985

Conc/Dil Factor 1 (EXCEPT AS INDICATED)

Percent Moisture (decanted) 31.13

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	58.u
319-85-7	Beta-BHC	58.u
319-86-8	Delta-BHC	58.u
58-89-9	Gamma-BHC (Lindane)	58.u
76-44-8	Heptachlor	58.u
309-00-2	Aldrin	58.u
1024-57-3	Heptachlor Epoxide	58.u
959-98-8	Endosulfan I	58.u
60-57-1	Dieldrin	23.u
72-55-9	4,4'-DDE	23.u
72-20-8	Endrin	23.u
33213-65-9	Endosulfan II	23.u
72-54-8	4,4'-DDD	23.u
1031-07-8	Endosulfan Sulfate	23.u
50-29-3	4,4'-DDT	23.u
72-43-5	Methoxychlor	120u
53494-70-5	Endrin Ketone	23.u
57-74-9	Chlordane	120u
8001-35-2	Toxaphene	230u
12674-11-2	Aroclor-1016	120u
11104-28-2	Aroclor-1221	120u
11141-16-5	Aroclor-1232	120u
53469-21-9	Aroclor-1242	120u
12672-29-6	Aroclor-1248	120u
11097-69-1	Aroclor-1254	230u
11096-82-5	Aroclor-1260	230u

1/5 DILUTION

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 30.00g V_t 20000 ul V_i 1.0 ul

Form 1 7 85

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No. 5124

Sample Number EE-443

5124-5-629-04

Organics Analysis Data Sheet
(Page 4)

RECEIVED NOV 26 1985

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	No volatile compounds found	VOA	—	—
2.	—	Unknown	BNA	4.59	7000 J
3.	123427	4-hydroxy-4-methyl-2-Pentanone*	BNA	5.36	70,000 BJ
4.	~~3744622~~	~~4-Pentan-2-one, 4-methyl~~	~~BNA~~	~~7.00~~	
5.	—	Unknown	BNA	7.00	2000 J
6.	—	Unknown hydrocarbon	BNA	21.51	300 J
7.	15869940	3,6-dimethyl-Octane	BNA	21.60	300 J
8.	—	Unknown	BNA	24.01	300 J
9.	10544500	Sulfur	BNA	26.26	3000 J
10.	—	Unknown hydrocarbon	BNA	31.02	600 J
11.	—	Unknown hydrocarbon	BNA	32.95	600 J
12.	—	Unknown compound	BNA	34.22	700 J
13.	—	Unknown hydrocarbon	BNA	34.74	900 J
14.	—	Unknown compound	BNA	35.99	400 J
15.	—	Unknown compound	BNA	36.49	500 J
16.					
17.					
18.					
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20.					
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* possible Aldol condensation product

Form 1, Part B

7 85

Sample Number
44

5124.5-028-013

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: [redacted] Case No: 5124

Lab Sample ID No: A 3142 (423009) QC Report No: (N/A)

Sample Matrix: Soil Contract No: 68-01-7100

Data Release Authorized By: [signature] Date Sample Received: 10/25/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: —

Date Analyzed: 10/28-85

Conc/Dil Factor: 1 pH 8.1

Percent Moisture: (Not Decanted) 16.22

RECEIVED NOV 26 1985

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	14 N
74-83-9	Bromomethane	12 U
75-01-4	Vinyl Chloride	12 U
75-00-3	Chloroethane	12 U
75-09-2	Methylene Chloride	(9 B)
67-64-1	Acetone	(95 B)
75-15-0	Carbon Disulfide	6 U
75-35-4	1, 1-Dichloroethene	6 N
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	(22 B)
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

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	19 N
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	14 N
75-25-2	Bromoform	6 U
108-10-1	4-Methyl-2-Pentanone	(7 BJ)
591-78-6	2-Hexanone	12 U
127-18-4	Tetrachloroethene	6 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6 U
108-88-3	Toluene	6 U
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 action. (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 indicated 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). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

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

M Matrix spike compound

N Instrument limit of detection was used because it was higher than the CRDL

A Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

Laboratory Name: [illegible], INC.

Case No: 5124

Sample Number: EE-444

Organics Analysis Data Sheet
(Page 2)

5124.5-028-14

RECEIVED NOV 26 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 10/28/85

Date Analyzed: 11/18/85

Conc/Dil Factor: 80

Percent Moisture (Decanted) 16.72

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	32000U
111-44-4	bis(-2-Chloroethyl)Ether	32000U
95-57-8	2-Chlorophenol	32000U
541-73-1	1 3-Dichlorobenzene	32000U
106-46-7	1. 4-Dichlorobenzene	32000U
100-51-6	Benzyl Alcohol	32000U
95-50-1	1. 2-Dichlorobenzene	32000U
95-48-7	2-Methylphenol	32000U
39638-32-9	bis(2-chloroisopropyl)Ether	63000N
106-44-5	4-Methylpheno	32000U
621-64-7	N-Nitroso-Di-n-Propylamine	32000U
67-72-1	Hexachloroethane	32000U
98-95-3	Nitrobenzene	32000U
78-59-1	Isophorone	32000U
88-75-5	2-Nitrophenol	32000U
105-67-9	2. 4-Dimethylphenol	32000U
65-85-0	Benzoic Acid	150000U
111-91-1	bis(-2-Chloroethoxy)Methane	32000U
120-83-2	2. 4-Dichlorophenol	32000U
120-82-1	1. 2. 4-Trichlorobenzene	32000U
91-20-3	Naphthalene	32000U
106-47-8	4-Chloroaniline	32000U
87-68-3	Hexachlorobutadiene	32000U
59-50-7	4-Chloro-3-Methylphenol	32000U
91-57-6	2-Methylnaphthalene	32000U
77-47-4	Hexachlorocyclopentadiene	32000U
88-06-2	2. 4. 6-Trichlorophenol	32000U
95-35-4	2. 4. 5-Trichlorophenol	150000U
91-58-7	2-Chloronaphthalene	32000U
88-74-4	2-Nitroaniline	150000U
131-11-3	Dimethyl Phthalate	32000U
208-96-8	Acenaphthylene	32000U
99-09-2	3-Nitroaniline	150000U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	32000U
51-28-5	2. 4-Dinitrophenol	150000U
100-02-7	4-Nitrophenol	150000U
132-64-9	Dibenzofuran	32000U
121-14-2	2. 4-Dinitrotoluene	32000U
606-20-2	2. 6-Dinitrotoluene	32000U
84-66-2	Diethylphthalate	32000U
7005-72-3	4-Chlorophenyl-phenylether	32000U
86-73-7	Fluorene	32000U
100-01-6	4-Nitroaniline	150000U
534-52-1	4. 6-Dinitro-2-Methylphenol	150000U
86-30-6	N-Nitrosodiphenylamine (1)	32000U
101-55-3	4-Bromophenyl-phenylether	32000U
118-74-1	Hexachlorobenzene	32000U
87-86-5	Pentachlorophenol	150000U
85-01-8	Phenanthrene	32000U
120-12-7	Anthracene	32000U
84-74-2	Di-n-Butylphthalate	(4300BJ)
206-44-0	Fluoranthene	32000U
129-00-0	Pyrene	67000N
85-68-7	Butylbenzylphthalate	32000U
91-94-1	3. 3'-Dichlorobenzidine	63000U
56-55-3	Benzo(a)Anthracene	32000U
117-81-7	bis(2-Ethylhexyl)Phthalate	(130000B)
218-01-9	Chrysene	32000U
117-84-0	Di-n-Octyl Phthalate	32000U
205-99-2	Benzo(b)Fluoranthene	32000U
207-08-9	Benzo(k)Fluoranthene	48000N
50-32-8	Benzo(a)Pyrene	32000U
193-39-5	Indeno(1. 2. 3-cd)Pyrene	32000U
53-70-3	Dibenzo(a h)Anthracene	32000U
191-24-2	Benzo(g h i)Perylene	32000U

(1)-Cannot be separated from diphenylamine

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124

Sample Number EE-444

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Organics Analysis Data Sheet
(Page 3)

5124.5-028-15

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared: 28 OCTOBER 1985

Date Analyzed: 7 NOVEMBER 1985

Conc/Dil Factor: 1. (EXCEPT AS INDICATED)

Percent Moisture (decanted) 16.22

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒~~Yes~~ No Ans

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	9.5u
319-85-7	Beta-BHC	9.5u
319-86-8	Delta-BHC	9.5u
58-89-9	Gamma-BHC (Lindane)	9.5u
76-44-8	Heptachlor	9.5u
309-00-2	Aldrin	9.5u
1024-57-3	Heptachlor Epoxide	9.5u
959-98-8	Endosulfan I	9.5u
60-57-1	Dieldrin	19.u
72-55-9	4,4'-DDE	19.u
72-20-8	Endrin	19.u
33213-65-9	Endosulfan II	19.u
72-54-8	4,4'-DDD	19.u
1031-07-8	Endosulfan Sulfate	19.u
50-29-3	4,4'-DDT	19.u
72-43-5	Methoxychlor	950u
53494-70-5	Endrin Ketone	190u
57-74-9	Chlordane	95.u
8001-35-2	Toxaphene	190u
12674-11-2	Aroclor-1016	95.u
11104-28-2	Aroclor-1221	95.u
11141-16-5	Aroclor-1232	95.u
53469-21-9	Aroclor-1242	95.u
12672-29-6	Aroclor-1248	95.u
11097-69-1	Aroclor-1254	190u
11096-82-5	Aroclor-1260	190u

1/10 DILUTION

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 30.09g V_t 2000ul V_i 1.0ul

Laboratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Case No 5124-5

Sample Number EE-444

5124-5-029-05

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~~ Carbon dioxide	VOA	3.90	70 J
2. 123422	4-hydroxy-4-methyl-2-Pentanone*	BNA	5.48	80000 BJ
3. 822877	2-chlorocyclohexanone	BNA	10.16	10000 J
4. 24955-33	Cis-1,3-dichlorocyclohexene	BNA	10.42	20000 J
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* possible aldol condensation product

JDC