US EPA RECORDS CENTER REGION 5
498836

RECEIVED
JAN 26 1988
PLANNING AND CONTRACTS
MANAGEMENT UNIT

SITE INSPECTION REPORT
FOR
JANSON LANDFILL
PEORIA, ILLINOIS

ILD981100423
F05-8707-024
PAN: FIL0449SA

January 25, 1988

Contents.

SITE INSPECTION MEMO 1

2070-13 FORM 2

SITE MAPS 3

SITE PHOTOGRAPHS 4

ANALYTICAL DATA 5

Cardinal

1

Cardinal

ecology and environment, inc.

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

International Specialists in the Environment

MEMORANDUM

DATE: January 22, 1988

TO: File

FROM: Kurt Sims K.S.

SUBJECT: Illinois/F05-8707-024/FIL0449SA
Peoria/Janson Landfill
ILD981100423

Janson Landfill is located in Peoria County, Illinois (T.8N.,R.7E.,sec.13). The site was originally identified by the Illinois Environmental Protection Agency (IEPA) in the form of a preliminary assessment submitted to the United States Environmental Protection Agency (U.S. EPA). The landfill is situated in what had been a quarry that apparently was used to mine a coal seam that is still found in bluffs just north of the site. Landfilling at the site had taken place south of the exposed bluff, and appears to have been placed on the previous existent topography. It is unknown if an actual pit was present prior to landfilling operations. There are two sections of the landfill that extend from the bluff southward to the banks of Kickapoo Creek. Between the east and west lobes of the landfill is a shallow erosional drainage gully. A tributary creek bed which joins Kickapoo Creek at the south end of the landfill is located at the west boundary of the site.

There are no records of any hazardous waste having been accepted at the landfill. Numerous violations have been noted in IEPA inspection reports. The violations noted were for inadequate daily cover, inadequate final cover, no cover, open burning, and operating an unpermitted solid waste disposal site. In 1977, the owner, Mr. Charles Janson, was fined, and in 1979 was ordered to cease operations at the landfill. In January 1980, Janson was sentenced to 60 days in jail for contempt of court. The ruling

recycled paper

was appealed. In March 1982, Janson was fined again, and again appealed the decision. In 1982, many letters from local school officials, local government officials, and local environmental groups urged that Janson be denied a permit to operate the landfill. The landfill site is temporarily closed.

An Ecology and Environment, Inc., Field Investigation Team (E&E-FIT) arrived at the site on September 2, 1987 to perform an inspection of the site. The owner, Janson, was not present; Janson had previously stated that he would be present for the site inspection. E&E-FIT contacted Janson by telephone and received permission to enter the site. Soil samples were collected on each lobe of the landfill and in the erosional drainage gully. Trash was noted as having eroded into Kickapoo Creek and the tributary creek located adjacent to the site. Many bare areas with exposed trash were observed on-site. Photographs were also taken of the site. A background soil sample was collected northwest of the site across Kickapoo Creek Road. The U.S. EPA-approved work plan was followed throughout the site inspection. Samples were not split with site representatives. Sample analysis data indicates that contaminants detected on-site were also detected at similar concentrations in the background sample, with the following exceptions: mercury was detected at 0.23 mg/kg and cadmium was detected at 3.7 mg/kg in samples collected from the east lobe of the landfill and the erosional drainage gully, respectively.

The site is located on an alluvial deposit of Kickapoo Creek. The site is not fenced, but access to the site is restricted by Kickapoo Creek, a gate at the site entrance road, and railroad tracks along the west boundary. No evidence of casual site use was observed. The City of Peoria is located within 1 mile of the site, but is separated from the site by Kickapoo Creek. The geology beneath the landfill consists of clayey tills and shale of the Carbondale Formation (Pennsylvania System) located at approximately 15 to 20 feet in depth. Discharge of wastes from the site would most likely enter the Kickapoo Creek bed. Water sources for the City of Peoria and Peoria County are either beyond a 3-mile radius of the site or are located upgradient and upstream of the site and across Kickapoo Creek. A direct potential contact hazard exists because exposed refuse is located on the banks of Kickapoo Creek.

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING 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 (DL) is estimated because of a Quality Control (QC) protocol. DL 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 DL 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 quantitative
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 semi-quantitative
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value is semi-quantitative
+	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 DL and below CRDL.	Value may be quantitative or semi-quantitative
UJ	DL is estimated because of a QC protocol. DL 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 semi-quantitative

ug/Kg

COMPOUND	JTS	MEP 445	MEP 446	MEP 447	MEP 448						
	OTC	EP 100	EP 401	EP 402	EP 403						
	SAMPLE	S-1	S-2	S-3	S-4 BKG						
chloromethane											
bromomethane											
vinyl chloride											
chloroethane											
methylene chloride		16 B	6 B	16 B	14 B						
acetone		28 B	16 B	67 B	15 B						
carbon disulfide											
1,1-dichloroethene											
1,1-dichloroethane											
trans-1,2,-dichloroethene											
chloroform											
1,2-dichloroethane											
2-butanone											
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											
tetrachloroethene											
toluene				2 J	4 J						
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											
bis(2-chloroethoxy)methane											
2,4-dichlorophenol											
1,2,4-trichlorobenzene											
napthalene			16 J								
4-chloroaniline											
hexachlorobutadiene											
4-chloro-3-methylphenol											
2-methylnapthalene			31 J								
hexachlorocyclopentadiene											
2,4,6-trichlorophenol											
2,4,5-trichlorophenol											
2-chloronaphthalene											
2-nitroaniline											
dimethyl phthalate											
acenapthylene			15 J								
3-nitroaniline											
acenaphthene			120 J		97 J						
2,4-dinitrophenol											
4-nitrophenol											
dibenzofuran			74 J		27 J						
2,4-dinitrotoluene											
2,6-dinitrotoluene											
diethylphthalate											
4-chlorophenyl-phenylether											
fluorene			170 J		90 J						
4-nitroaniline											
4,6-dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-bromophenyl-phenylether											
hexachlorobenzene											

STATE ILLINOIS SITE JANSON LANDFILL TDD FOS-8707-024 PAGE 1 OF 2, SET # 1

COMPOUND											
ITC	MEP 445	MEP 446	MEP 447	MEP 448							
OTC	EP 100	EP 401	EP 402	EP 403							
SAMPLE	S-1	S-2	S-3	S-4 BKG							
pentachlorophenol											
phenanthrene	170 J	2800	110 J	1300							
anthracene	30 J	690		270 J							
di-n-butylphthalate	370 B	710 B	210 BJ	860 B							
fluoranthene	360	4200	120 J	2600							
benzidine	--										
pyrene	340 J	5900	120 J	2200							
butylbenzylphthalate		3600									
3,3'-dichlorobenzidine											
benzo(a)anthracene	150 J	2100	47 J	990							
bis(2-ethylhexyl)phthalate	38 J	2800	58 J								
chrysene	180 J	2300	49 J	1100							
di-n-octylphthalate	170 BJ	510 B	100 BJ								
benzo(b&k)fluoranthene	190 J	2300	41 J	1100							
benzo(a)pyrene	150 J	1700	36 J	930							
indeno(1,2,3-cd)pyrene	76 J	740		430							
dibenzo(a,h)anthracene				72 J							
benzo(g,h,i)perylene	58 J	510		280 J							
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											
chlordane											
toxaphene											
Aroclor-1016											
Aroclor-1221											
Aroclor-1232											
Aroclor-1242											
Aroclor-1248											
Aroclor-1254		1700									
Aroclor-1260											
ELEMENT mg/kg											
aluminum	3300	7180	7030	11300							
antimony											
arsenic		6.0		8.8							
barium	[3.6]	244	[64]	[75]							
beryllium		[0.66]	[0.74]	[0.98]							
cadmium		3.7									
calcium	56900	17700	32500	20000							
chromium	8.5	22	20	20							
cobalt	[4.9]	[12]	[16]	[9.4]							
copper	[13]	111	52	41							
iron	23300	23000	13000	21400							
lead	36 S	467	35 S	106							
magnesium	28100	3390	4780	7610							
manganese	749	488	637	638							
mercury		0.23	0.23								
nickel	[16]	46	58	25							
potassium											
selenium											
silver											
sodium											
thallium											
tin											
vanadium	[16]	[18]	[23]	[26]							
zinc	66	604	54	348							
cyanide CHECK IF ANALYZED ( )											
TENTATIVELY IDENTIFIED ORGANICS											

STATE ILLINOIS SITE JANSON LANDFILL TDD F05-8707-024 PAGE 2 OF 2, SET # 1

2

ardinal®

United States
Environmental Protection
Agency

Emergency and
Remedial Response
Washington, DC 20460

EPA/540/G-81/013
July, 1981

EPA

Potential Hazardous Waste Site

Site Inspection Report

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981100423

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
JANSON LANDFILL	KICKAPOO CREEK ROAD

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

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
40° 40' 24.5	089° 39' 15.0	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
9, 2, 87 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1945 (BEGINNING YEAR), 1980 ? (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☒ B. EPA CONTRACTOR ECOLOGY & ENVIRONMENT (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
KURT SIMS	GEOLOGIST	ECOLOGY & ENVIRONMENT	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
K. NESWICK	ENTOMOLOGIST	"	( ) "
T. OBRIEN	ENVIRONMENTALIST	"	( ) "
M. NESTERENKO	ENVIRONMENTALIST	"	( ) "
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
N A			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	9 AM	CLEAR 80°

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
		( )

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KURT SIMS	USEPA F.I.T	ECLOGY & ENVIRONMENT	312/663-9415	12, 11, 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981100423

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____
CUBIC YARDS UNKNOWN
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

UNK

III. WASTE TYPE

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

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

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

NO RECORDS EXIST OR KNOWLEDGE OF ANY HAZARDOUS WASTE EVER BEING ACCEPTED AT THIS LANDFILL. LANDFILL WAS OPERATED WITHOUT A PERMIT. TRACE AMOUNTS OF HEAVY METALS WERE DETECTED IN ON-SITE SOILS, AS WERE A FEW ORGANICS. THE BACKGROUND SOIL SAMPLE ALSO CONTAINED THESE CONTAMINANTS.

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

- STATE FILES

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~500
04 NARRATIVE DESCRIPTION
SITE IS LOCATED ON A JUNCTION BETWEEN KICKAPOO CREEK & TRIBUTARY. FROM LOCAL WELL LOGS GROUNDWATER MAY BE OVER 100 FT. BELOW THE SURFACE AND MAY HAVE SHALE ABOVE THE AQUIFER. WELLS NEAR BY ARE GENERALLY IN DEEP AQUIFERS

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1000
04 NARRATIVE DESCRIPTION
DUE TO EROSION OF RIVER BANKS AND THE SITE LOCATION BEING ON A POINT BETWEEN TWO FLOWING STREAMS, CONTAMINATION IS HIGHLY PROBABLE.

01 ■ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ■ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
BURNING OF TRASH BROUGHT ABOUT COMPLAINTS FROM LOCAL ORGANIZATIONS.

01 ■ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE NOTED OR REPORTED AT PRESENT TIME. COAL SEAM EXPOSED AT NORTH SIDE OF SITE.

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1000
04 NARRATIVE DESCRIPTION
NO RESTRICTION TO ACCESS WAS OBSERVED. NO FENCES AT THIS SITE. CREEK BORDERS EAST, NORTH & SOUTH. RAILROAD TRACKS FORM WEST BOUNDARY.

01 ■ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 12 (Acres)
04 NARRATIVE DESCRIPTION
LANDFILLING TOOK PLACE IN AN OLD PIT POSSIBLY MINED FOR COAL. NO OPERATING PERMITS ISSUED, THEREFORE PROCEDURES OF OPERATION AND COVER ARE UNKNOWN.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~500
04 NARRATIVE DESCRIPTION
DRINKING WATER WELLS IN THIS AREA ARE PRIVATE AND DRAW FROM AQUIFERS THAT ARE EITHER NOT AVAILABLE AT THE SITE OR ARE MUCH DEEPER AND BELOW CLAY AND/OR SHALE.

01 ■ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ~5
04 NARRATIVE DESCRIPTION
NO WORKERS NOW ON THIS CLOSED SITE.

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1000
04 NARRATIVE DESCRIPTION
EDGES OF THE LANDFILL HAVE BEEN ERODED BY KICKAPOO CREEK AND ADJACENT TRIBUTARY TO EXPOSE TRASH. NO RESTRICTIONS TO ACCESS OTHER THAN A VEHICLE GATE.

EPA

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

I. IDENTIFICATION
01 STATE: ID 02 SITE NUMBER: 981100423

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
SOME BARE AREAS ARE LOCATED ON-SITE AMID WILD LUSH GRASSES.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
NONE OBSERVED OR REPORTED.

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
WASTES ERODED INTO THE CREEK MAY ENTER FOOD CHAIN.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1000 — 04 NARRATIVE DESCRIPTION
NO LINERS NOTED IN FILES. COVER MATERIAL DOES NOT COVER ALL AREA AS SEEN IN J. ALSO EXPOSED ARE THE SLOPES ALONG THE CREEKS.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE NOTED OR REPORTED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE IN AREA.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
THE ONLY RESTRICTION TO THE SITE IS A GATE AT THE ENTRY ROAD BY THE RAILROAD TRACKS. NO ILLEGAL DUMPING NOTED IN FILE.

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~1500

IV. COMMENTS
ALL MUNICIPAL WELLS ARE BEYOND THE 3-MILE RADIUS.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
- STATE FILES
- E&E/FIT FILES
- INSPECTION & SAMPLING ON-SITE 9-2-87

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981100423

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
■ G. STATE (Specify) IEPA	1975-41-DE	1975		DEVELOPMENT PERMIT
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

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

04 TREATMENT (Check all that apply): NONE
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ☐ A. BUILDINGS ON SITE: NO

06 AREA OF SITE: ~12 (Acres)

07 COMMENTS

NO OPERATORS PERMIT WAS EVER ISSUED BY THE STATE. ORDERED BY COURTS TO CEASE OPERATION ~1980.

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.

NO LINERS. COVER IS POOR AND ERATIC. EDGES OF LANDFILL ARE ERODED BY CREEKS.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS

NO FENCES AROUND SITE. ROAD ACCESS RESTRICTED BY GATE.

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

- STATE FILES
- E&E/FIT FILES
- ON-SITE

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981100423

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. >3 (mi)
B. 0.75 (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 ~500

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
8-10 (ft)	S/SE	45 (ft)	UNK (gpd)	☐ YES ☒ NO

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

WELLS USE AQUIFERS IN BEDROCK. WELLS WEST & EAST OF SITE ARE APPROXIMATELY 100'-150' ABOVE SITE.

10 RECHARGE AREA

☒ YES ☐ NO

COMMENTS SMALL QUANTITIES OF INFILTRATION FROM PRECIPITATION

11 DISCHARGE AREA

☐ YES ☒ NO

COMMENTS CREEKS ADJACENT SITE ARE PROBABLE DISCHARGE POINTS.

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	☐	10 FT.
KICKAPOO CREEK TRIBUTARY	☐	10 FT.
ILLINOIS RIVER	☐	~2.0 (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. ~1500 NO. OF PERSONS	B. ~37,000 NO. OF PERSONS	C. ~60,000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 600'-800' (FT.)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~10,000

04 DISTANCE TO NEAREST OFF-SITE BUILDING 600 FT.

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)

LOW DENSITY POPULATION IMMEDIATELY AROUND SITE DUE TO HIGH STEEP CLIFFS. SUBDIVISIONS ARE LOCATED ON TOP OF BLUFFS & WEST & NORTH. TO THE EAST ACROSS KICKAPOO CREEK IS THE CITY OF PEORIA.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

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
0-20 (ft)	UNK (ft)	UNK

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35-32=3 (in)	2.5 (in)	0-5 %	S	0-5 %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10 ☒ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. NA (mi)

OTHER: B. ~3 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): NA (mi)

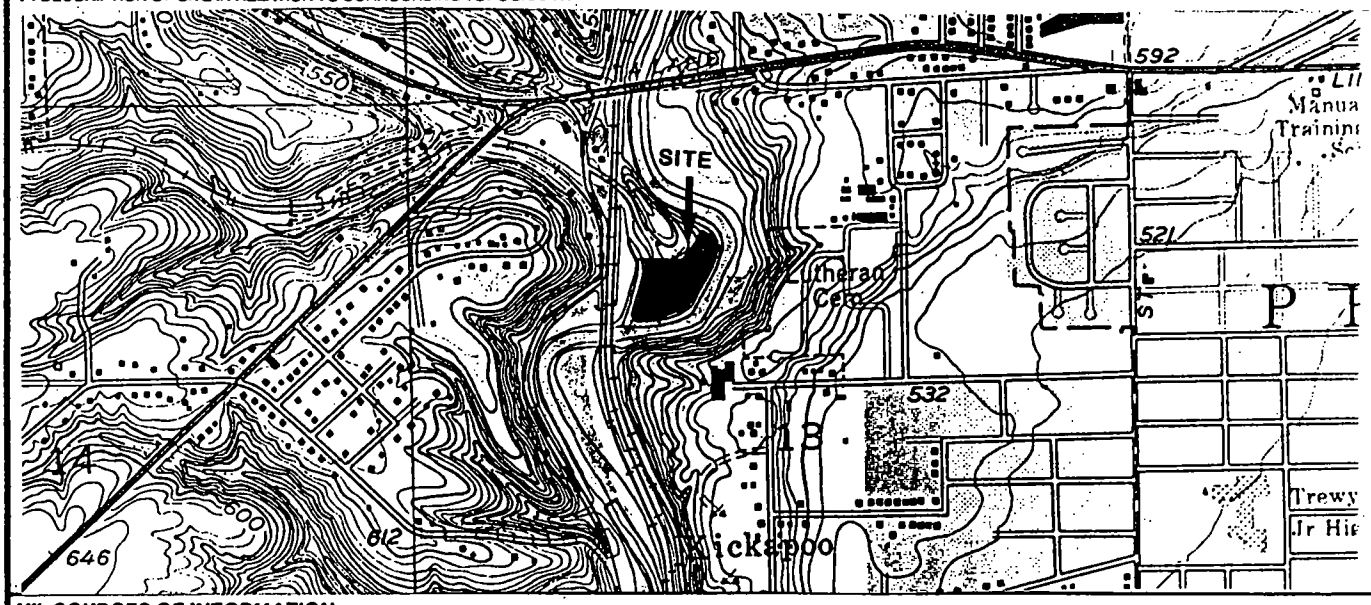
ENDANGERED SPECIES: NA

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. ~1000 FT.	B. ~600 FT.	C. NA (mi)	D. ~3 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

- E&E/FIT FILES
- U.S.G.S. TOPOGRAPHIC MAP, PEORIA WEST, IL.
- LOCAL WELL LOGS

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

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	4	RMAL & HAZLETON	NA
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA	NO READINGS ON ANY INSTRUMENT GREATER THAN BACKGROUND LEVELS
RAD-MINI	
O_2 + EXPLOSIMETER	
MONO TO X	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

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

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS E&E/FIT

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NA

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

- E&E/FIT FILES

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
ILD	981100423

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
MR. CHARLES JANSON	

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

05 CITY	06 STATE	07 ZIP CODE
PEORIA	IL.	61607

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER
NA	

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

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
UNKNOWN	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER
NA	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

- E&E/FIT FILES
- STATE FILES

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME: SAME	02 D+B NUMBER		10 NAME: NA	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION: 1974-1980	09 NAME OF OWNER: CHARLES JANSON				

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME: UNKNOWN	02 D+B NUMBER		10 NAME: NA	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

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

- STATE FILES

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

II. ON-SITE GENERATOR

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

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
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

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

- STATE EPA FILES.
- E & E/FIT FILES

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

II. PAST RESPONSE ACTIVITIES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

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

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

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

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

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

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

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

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

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

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

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

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

- STATE EPA FILES
- E&E/FIT FILES

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981100423

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

AFTER NUMEROUS VIOLATIONS NOTED IN ILLINOIS EPA INSPECTIONS SINCE 1970, VANSON WAS FINED IN 1977, ORDERED TO CEASE OPERATIONS IN JUNE 1979 BY COURT ORDER, SENTENCED FOR CONTEMPT (APPEALED) & FINED AGAIN IN 1982 (APPEALED). SITE IS PRESENTLY CLOSED TEMPORARILY.

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

- STATE FILES

EPA FORM 2070-13 (7-81)

I nediate Removal Action Check Sheet

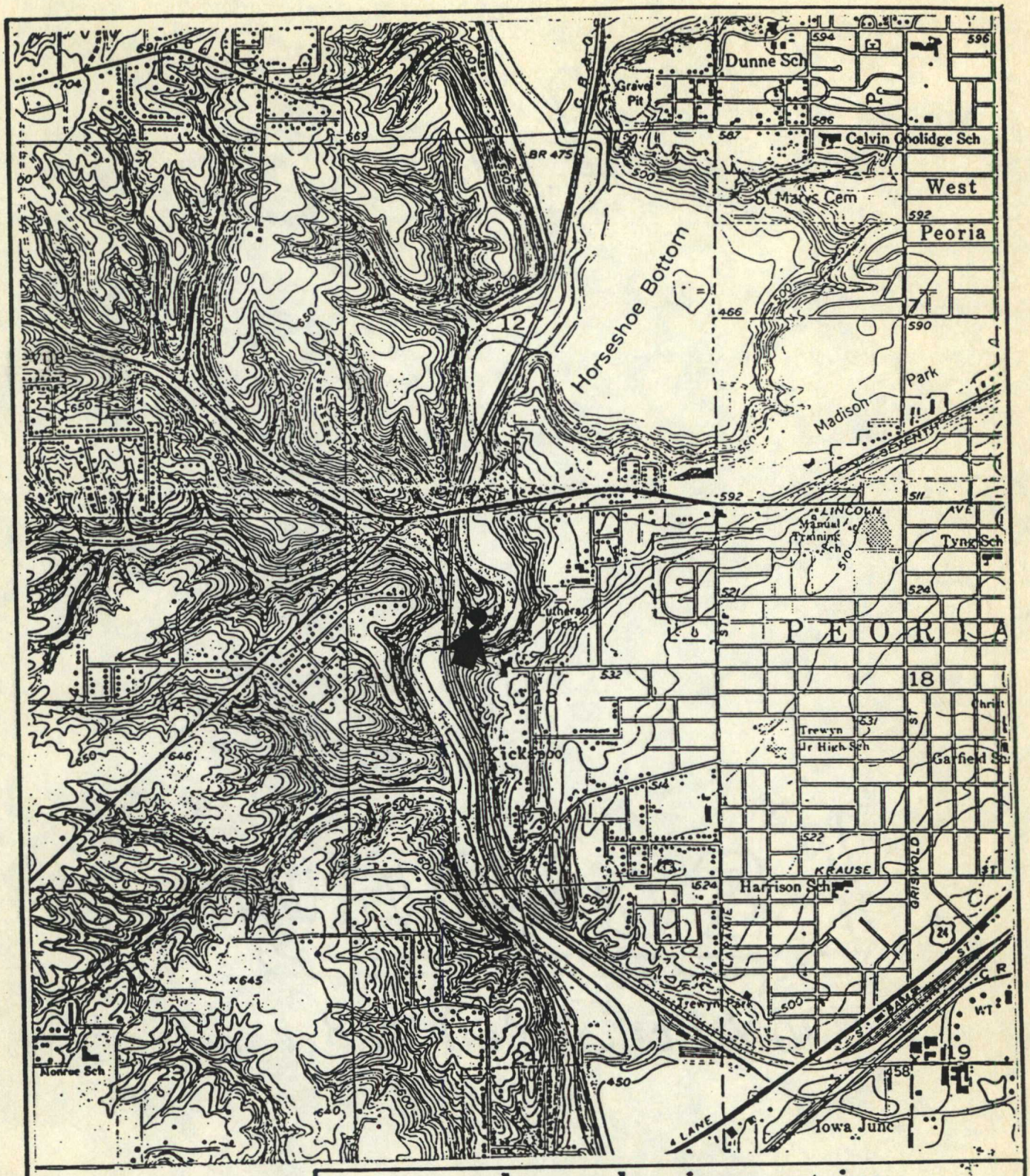
	High	Moderate	Low
Fire and Explosion Hazard			
Flammable Materials NA			✓
Explosives NA			✓
Incompatable Chemicals UNKOWN			✓
Direct Contact with Acutely Toxic Chemicals			
Site Security NONE			
Leaking Drums or Tanks NA			
Open Lagoons or pits NA			
Materials on Surface YES			
Proximity of Population 600'-1000'			
Evidence of Casual Site Use NO			
Contaminated Water Supply			
Exceeds 10 Day Snarl NA			
Gross Taste or Odors NA			
Alternate Water Available YES			
Potential Contamination YES			
Is the site abandoned or active? INACTIVE			

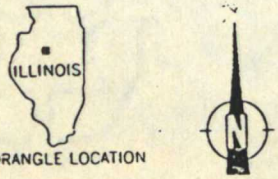
Comments

SITE BORDERED BY CREEK AND TRIBUTARY ON EAST, SOUTH, AND NORTH. RAILROAD TRACKS ARE ALONG WEST SIDE. OUTCROPS OF BEDROCK ALSO FORM NORTH BOUNDARY.

3

Cardinal®

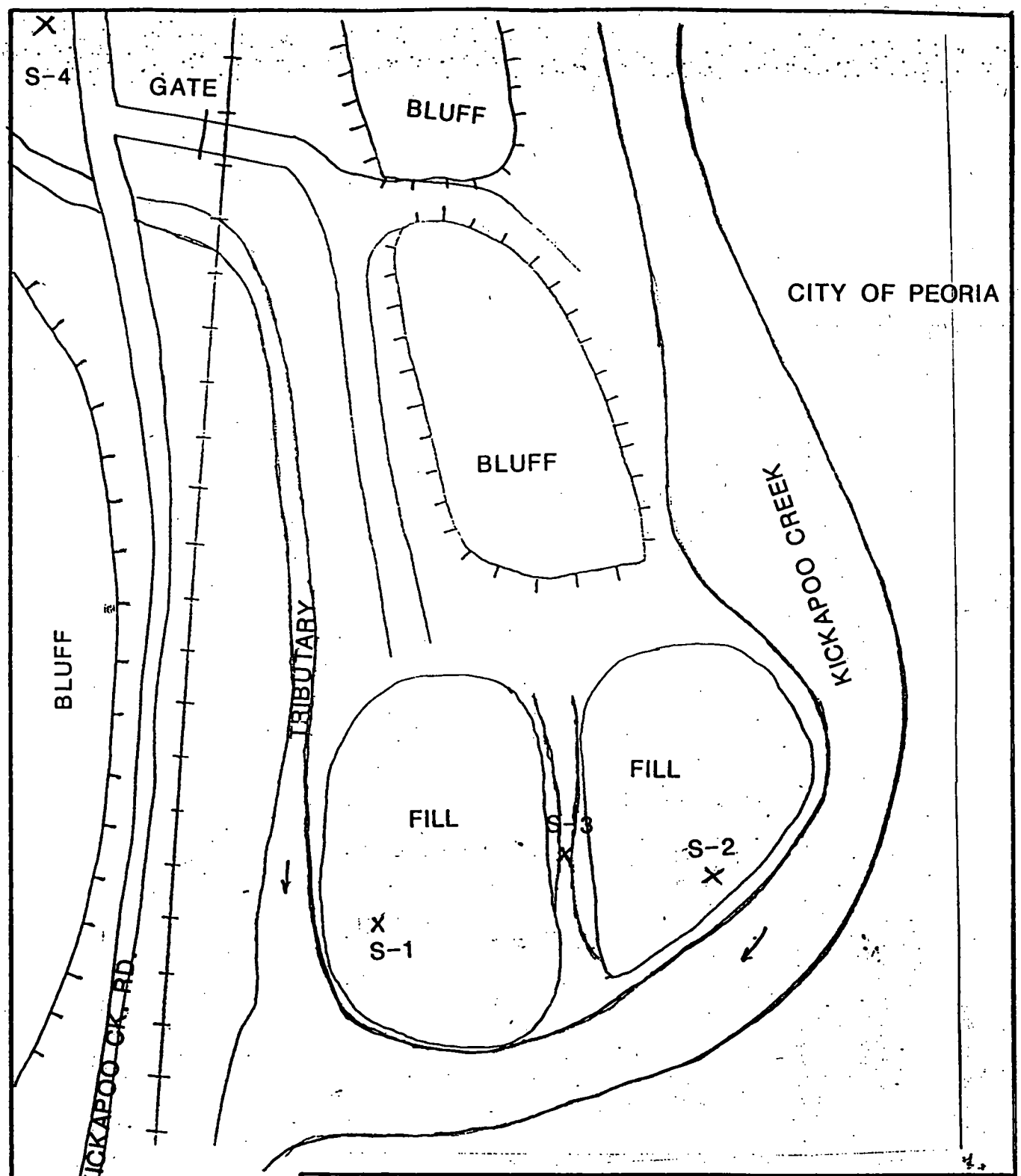




ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-8416

TITLE: SITE LOCATION MAP	FIGURE #: 1
SITE: JANSON LANDFILL	SCALE: 1:24000
CITY: PEORIA STATE: ILLINOIS	TDD #: F05-8707-024
SOURCE: USGS TOPOGRAPHIC MAP	DATE: 1949 REVISED: 1967-1979



ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9416

TITLE: SITE SAMPLE LOCATIONS	FIGURE #: 2
SITE: JANSON LANDFILL	SCALE: N.T.S.
CITY: PEORIA STATE: ILLINOIS	TDD #: FO5-8707-024
SOURCE: ON-SITE INSPECTION	DATE: 1987
	REVISED: NA

4

inal

FIELD PHOTOGRAPHY LOG SHEET

PAGE 1

DATE 9-2-87

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 CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-1

DESCRIPTION: SOIL SAMPLE AT SOUTHWEST CORNER OF SITE, NEAR CONJUNCTION OF KICKAPOO CREEK & TRIBUTARY.

DATE 9-2-87

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 CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-1

DESCRIPTION: BROWN SANDY GRAVEL SAMPLE COLLECTED AT THE SURFACE.

FIELD PHOTOGRAPHY LOG SHEET

PAGE 2

DATE 9-2-87

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 CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-2

DESCRIPTION: SURFACE SOIL COLLECTED IN BARE AREA AT THE SOUTH END OF THE EAST LOBE OF FILL.

DATE 9-2-87

TIME 11:40 (A.M.) P.M.

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

WEATHER CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-2

DESCRIPTION: BARE AREAS IN OVERGROWTH.

FIELD PHOTOGRAPHY LOG SHEET

PAGE 3

DATE 9-2-87

TIME 11:50 A.M. P.M.

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

WEATHER CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-3

DESCRIPTION: SURFACE SOIL SAMPLE COLLECTED IN THE DRAINAGE BETWEEN EAST & WEST LOBES OF FILL.

DATE 9-2-87

TIME 11:51 A.M. P.M.

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

WEATHER CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-3

DESCRIPTION: NOTE BLUFFS IN BACKGROUND.

FIELD PHOTOGRAPHY LOG SHEET

PAGE 4

DATE 9-2-87

TIME 12:20 A.M. P.M.

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

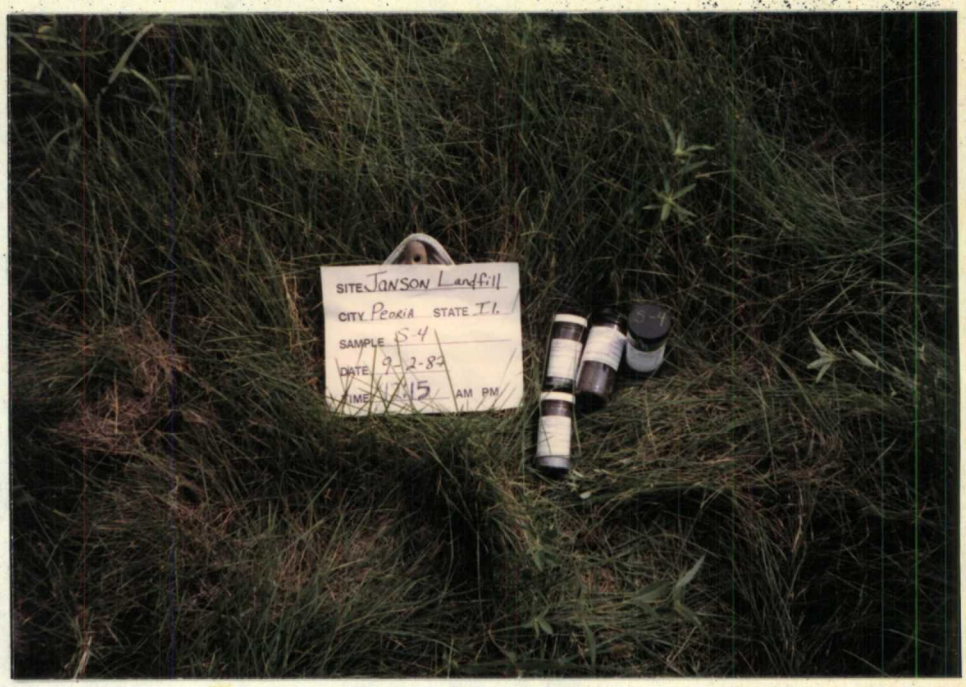
WEATHER CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-4



DESCRIPTION: BACKGROUND SURFACE SOIL SAMPLE COLLECTED NORTHWEST OF SITE ACROSS CREEK RD.

DATE 9-2-87

TIME 12:20 A.M. P.M.

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

WEATHER CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
S-4

DESCRIPTION: NOTE HWY. 116 BRIDGE IN BACKGROUND.

FIELD PHOTOGRAPHY LOG SHEET

PAGE 5

DATE 9-2-87

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 CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
—

DESCRIPTION: GENERAL VIEW NORTH FROM SOUTH END OF EAST LOBE OF FILL. NOTE EXPOSED TRASH.

DATE 9-2-87

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 CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
—

DESCRIPTION: EXPOSED TRASH IN NUMEROUS AREAS OF FILL.

FIELD PHOTOGRAPHY LOG SHEET

PAGE 6

DATE 9-2-87

TIME 12:10 A.M. P.M.

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

WEATHER CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
—

DESCRIPTION: VIEW ALONG NORTH EDGE OF LANDFILL. NOTE BARE ERODED AREAS NEAR BLUFFS AT RIGHT.

DATE 9-2-87

TIME 12:20 A.M. P.M.

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

WEATHER CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
—

DESCRIPTION: EAST LOBE OF LANDFILL. TAKEN FROM ON BLUFF. KICKAPOO CREEK IS IN BACKGROUND AT EDGE OF UNWOODED AREA.

FIELD PHOTOGRAPHY LOG SHEET

PAGE 7

DATE 9-2-87

TIME 12:10 A.M. P.M.

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

WEATHER CLEAR
WARM ~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
—

DESCRIPTION: CENTRAL DRAINAGE BETWEEN LANDFILL LOBES, TAKEN FROM ON BLUFF.

DATE 9-2-87

TIME 12:12 A.M. P.M.

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

WEATHER CLEAR
~80°

SITE JANSON
LANDFILL

TDD# F05-8707-024

PHOTOGRAPHED BY:
K. SIMS

SAMPLE ID# (if applicable)
—

DESCRIPTION: WEST LOBE OF LANDFILL, TAKEN FROM ON BLUFF. CONJUNCTION OF CREEKS IS IN FAR BACKGROUND (RIGHT UPPER CENTER)

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING 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 (DL) is estimated because of a Quality Control (QC) protocol. DL 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 DL 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 quantitative
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 semi-quantitative
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value is semi-quantitative
+	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 DL and below CRDL.	Value may be quantitative or semi-quantitative
UJ	DL is estimated because of a QC protocol. DL 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 semi-quantitative

ug/Kg

COMPOUND	ITC	MEP445	MEP 446	MEP 447	MEP 448							
	OTC	EP 100	EP 401	EP 402	EP 403							
	SAMPLE	S-1	S-2	S-3	S-4 BKG							
chloromethane												
bromomethane												
vinyl chloride												
chloroethane												
methylene chloride		16 B	6 B	16 B	14 B							
acetone		28 B	16 B	67 B	15 B							
carbon disulfide												
1,1-dichloroethene												
1,1-dichloroethane												
trans-1,2,-dichloroethene												
chloroform												
1,2-dichloroethane												
2-butanone												
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												
tetrachloroethene												
toluene				2 J	4 J							
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												
bis(2-chloroethoxy)methane												
2,4-dichlorophenol												
1,2,4-trichlorobenzene												
napthalene			16 J									
4-chloroaniline												
hexachlorobutadiene												
4-chloro-3-methylphenol												
2-methylnapthalene			31 J									
hexachlorocyclopentadiene												
2,4,6-trichlorophenol												
2,4,5-trichlorophenol												
2-chloronaphthalene												
2-nitroaniline												
dimethyl phthalate												
acenapthylene			15 J									
3-nitroaniline												
acenaphthene			120 J		97 J							
2,4-dinitrophenol												
4-nitrophenol												
dibenzofuran			74 J		27 J							
2,4-dinitrotoluene												
2,6-dinitrotoluene												
diethylphthalate												
4-chlorophenyl-phenylether												
fluorene			170 J		90 J							
4-nitroaniline												
4,6-dinitro-2-methylphenol												
N-nitrosodiphenylamine												
4-bromophenyl-phenylether												
hexachlorobenzene												

STATE ILLINOIS SITE JANSON LANDFILL TDD F05-8707-024 PAGE 1 OF 2, SET # 1

COMPOUND											
ITC	MEP 445	MEP 446	MEP 447	MEP 448							
DTC	EP 100	EP 401	EP 402	EP 403							
SAMPLE	S-1	S-2	S-3	S-4 BKG							
pentachlorophenol											
phenanthrene	170 J	2800	110 J	1300							
anthracene	30 J	690		270 J							
di-n-butylphthalate	370 B	710 B	210 BJ	860 B							
fluoranthene	360	4200	120 J	2600							
benzidine	-										
pyrene	340 J	5900	120 J	2200							
butylbenzylphthalate		3600									
3,3'-dichlorobenzidine											
benzo(a)anthracene	150 J	2100	47 J	990							
bis(2-ethylhexyl)phthalate	38 J	2800	58 J								
chrysene	180 J	2300	49 J	1100							
di-n-octylphthalate	170 BJ	510 B	100 BJ								
benzo(bák)fluoranthene	190 J	2300	41 J	1100							
benzo(a)pyrene	150 J	1700	36 J	930							
indeno(1,2,3-cd)pyrene	76 J	740		430							
dibenzo(a,h)anthracene				72 J							
benzo(g,h,i)perylene	58 J	510		280 J							
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											
chlordane											
toxaphene											
Aroclor-1016											
Aroclor-1221											
Aroclor-1232											
Aroclor-1242											
Aroclor-1248											
Aroclor-1254		1700									
Aroclor-1260											
ELEMENT mg/Kg											
aluminum	3300	7180	7030	11300							
antimony											
arsenic		6.0		8.8							
barium	[5.6]	244	[64]	[75]							
beryllium		[0.66]	[0.74]	[0.98]							
cadmium		3.7									
calcium	56900	17700	32500	20000							
chromium	8.5	22	20	20							
cobalt	[4.9]	[12]	[16]	[9.4]							
copper	[13]	111	52	41							
iron	23300	23000	13000	21400							
lead	36 S	467	35 S	106							
magnesium	28100	3390	4780	7610							
manganese	749	488	637	638							
mercury		0.23	0.23								
nickel	[16]	46	58	25							
potassium											
selenium											
silver											
sodium											
thallium											
tin											
vanadium	[16]	[18]	[23]	[26]							
zinc	66	604	54	348							
cyanide CHECK IF ANALYZED ( )											
TENTATIVELY IDENTIFIED ORGANICS											

STATE ILLINOIS SITE JANSON LANDFILL TDD F05-8707-021 PAGE 2 OF 2, SET # 1

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

CRL Receipt Date 10-14-87 FIT Receipt Date 12-10-87 Review Completed 12-14-87

TO: K. Sims

FROM: Jim Mertes

SUBJECT: Janson L.F.

PAN: IL 0449 CASE # 8001

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# 4	Low Soil	#	Low Soil
	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status X Completed!!

Incomplete, awaiting:

FIT Data Review Findings:

- HRS scoreable hits in EP 401 (EP 403) - see Form I O.A.D.S.
- also check instrument detection limits to see if any other hits fall w/in >5x IDL.

Check Data Sheets for Transcription Errors

X Compounds were detected in sample(s); see enclosed sheet.

Book No. 6 Page No. 292 Date Sampled 9-2-87

26U:001

1 hr. charged to above PAN Q
Week ending 12-19-87
J.M.

recycled paper

page 1 of 4

Received 12-10-87 35 pages

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12/9/87

SUBJECT: Review of Region V CLP Data
Received for Review on 10/14/87

FROM: Curtis Ross, Director (5SCRL) Patrick J. Quinlin for
Central Regional Laboratory

TO: Data User: FIT

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

SITE NAME: Janson Landfill SMO Case No. 8001

EPA Data Set No. SF4385 No. of Samples: 4 D.U./Activity Numbers Y905/C72100

CRL No. 87FS17S95 - S98

SMO Traffic No. EP100, 401 - 403

CLP Laboratory: Hazleton Hrs. Required for Review: 4

PAN # IL0449:

Following are our findings:

see attached review
Ezra Hold-Kaufman
12/7/87

( ) 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: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

EPA FORM 1320-6 (Rev. 5/87)

Janson Landfill
PAN # IL0449

This case consists of 4 low soil samples sent in for full organic analysis.

A. Holding Times - Acceptable

B. Surrogates - Acceptable

Volatiles	0 out of 21; outside QC limits
SV	1 out of 42; outside QC limits
Pesticides	2 out of 10; outside QC limits

C. MS/MSD - Acceptable

Recovery

VOAs	0 out of 10; outside QC limits
B/N	4 out of 12; outside QC limits
Acid	1 out of 10; outside QC limits
Pest	1 out of 12; outside QC limits

RPD

VOAs	0 out of 5; outside QC limits
B/N	1 out of 6; outside QC limits
Acid	1 out of 5; outside QC limits
Pest	2 out of 6; outside QC limits

D. Method Blank - Acceptable
Common lab artifacts
Methylene Chloride
Acetone
Di-n-butylphthalate
Di-n-octylphthalate
Unknown TICs
No pesticides or PCBs found

E. Calibrations - Acceptable
Some compounds are outside specifications with respect to RF %D and/or %RSD. These compounds are so noted on calibration outlier form.

F. Tuning - Acceptable

G. Pesticides - Acceptable
Linearity - Acceptable
DBC Shift - Acceptable
DDT retention time - Acceptable (greater than 12 minutes).

ZCK
12/7/87

USER INFORMATION SHEET

Sample	TCL Compounds	TIC Compunds
EP100	See attached listing for compounds detected	VOA - 1 TICs SV - 7 TICs
EP401	See attached listing for compounds detected	VOA - 1 TICs SV - 20 TICs
EP402	See attached listing for compounds detected	VOA - 1 TICs SV - 5 TICs
EP403	See attached listing for compounds detected	VOA - 3 TICs SV - 12 TICs

Numerous PAHs detected above and below CRDL in all samples.

ZGK
12/7/87

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 8001 CONTRACTOR Hazleton

Instrument # HP5993	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/10/87			9/8/87 950											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane					32										
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone					82	J									
Carbon Disulfide					311	J									
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone					38	J									
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate					131	J									
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform					26	J									
4-Methyl-2-Pentanone					65	J									
2-Hexanone					66	J									
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

all samples

EP 100
EP 401
EP 402
EP 403
EP 100 MS
EP MSD

Reviewer's Initials/Date: ZCK 12/3

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 8001 CONTRACTOR Hazleton

Instrument # FINN 4500	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/12			9/10 1634			9/11 1400								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
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															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline					34	J		58	J						
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline								35	J						
Dimethyl Phthalate															
Acenaphthylene								35	J						
3-Nitroaniline								70	J						
Acenaphthene															
2,4-Dinitrophenol					32	J									
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

	EP 100	EP 401
	EP 100 MS	
	EP 100 MSD	
	EP 402	
	EP 403	

Reviewer Initials/Date: ZGK 12/3/87

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 8001 CONTRACTOR Hargeton

Instrument # FINN 4500	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/12			9/10			9/11								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline							63	J							
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: ZCK 12/3/87

	COMPOUND	SAMPLE	DET. LIMIT	S-1 EP100	S-2 EP401	S-3 EP402	S-4 BKG EP403
V	dimethyl phthalate						
	acenaphthylene				15 J		
	3-nitroaniline						
	acenaphthene				120 J		97 J
	2,4-dinitrophenol						
	4-nitrophenol						
	dibenzofuran				74 J		27 J
	2,4-dinitrotoluene						
	2,6-dinitrotoluene						
S	diethylphthalate						
	4-chlorophenyl-phenylether						
	fluorene				170 J		90 J
V	4-nitroaniline						
	4,6-dinitro-2-methylphenol						
	N-nitrosodiphenylamine						
	4-bromophenyl-phenylether						
	hexachlorobenzene						
	pentachlorophenol						
	phenanthrene			170 J	2800	110 J	1300
	anthracene			30 J	690		270 J
	di-n-butylphthalate						
	fluoranthene			360	4200		2600
	benzidine			~~3400 J~~			
	pyrene			340 J	5900	120 J	2200
	butylbenzylphthalate				3600		
	~~3,3'-dichlorobenzidine~~				~~7600~~	111 J	~~1160~~
	benzo(a)anthracene			150 J	2100	47 J	990
	bis(2-ethylhexyl)phthalate			38 J	2500	58 J	
	chrysene			180 J	2300	49 J	1100
	di-n-octylphthalate			170 BJ		100 BJ	
	benzo(b&k)fluoranthene			190 J / 170 J	2300	34 J	890
	benzo(a)pyrene			150 J	1700	36 J	430
	indeno(1,2,3-cd)pyrene			76 J	740		430
	dibenzo(a,h)anthracene						72
↑	benzo(g,h,i)perylene			58 J	510		280
↓	alpha-BHC						
	beta-BHC						
	delta-BHC						
	gamma-BHC(lindane)						
P	heptachlor						
	aldrin						
E	heptachlor epoxide						
	endosulfan I						
S	dieldrin						
T	4,4'-DDE						
	endrin						
	endosulfan II						
	4,4'-DDD						
	endrin aldehyde						
	endosulfan sulfate						
	4,4'-DDT						
	methoxychlor						
	endrin ketone						
	chlordane						
	toxaphene						
P	Aroclor-1016						
	Aroclor-1221						
C	Aroclor-1232						
B	Aroclor-1242						
	Aroclor-1248						
	Aroclor-1254				1700		
	Aroclor-1260						

8001 COMPOUND	SAMPLE	DET. LIMIT	EP100	EP401	EP402	EP403				
chloromethane										
bromomethane										
vinyl chloride										
chloroethane										
methylene chloride										
acetone										
carbon disulfide										
1,1-dichloroethene										
1,1-dichloroethane										
trans-1,2,-dichloroethene										
chloroform										
1,2-dichloroethane										
2-butanone										
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										
tetrachloroethene										
toluene				2J		4J				
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										
bis(2-chloroethoxy)methane										
2,4-dichlorophenol										
1,2,4-trichlorobenzene										
napthalene				16J						
4-chloroaniline										
hexachlorobutadiene										
4-chloro-3-methylphenol										
2-methylnapthalene				31J						
hexachlorocyclopentadiene										
2,4,6-trichlorophenol										
2,4,5-trichlorophenol										
2-chloronaphthalene										

VOA

Case: 8001

Contractor: Hanford

TENTATIVELY IDENTIFIED COMPOUNDS
WATCH ASSESSMENT

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

CRITERIA

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

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

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

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

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

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

Reviewer's Initials/Date: TGK 12

SF 4385

RECEIVED
OCT 13 1987
U.S. EPA CENTRAL REGIONAL LAB

HAZLETON LABORATORIES AMERICA, INC.
3301 KINSMAN BLVD. • P.O. BOX 7545 • MADISON, WI 53707 • (608) 241-4471 • TLX 783956 HAZRAL MDS UD

October 12, 1987

RECEIVED
OCT 13 1987
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Sample Management Office
Viar and Company
209 Madison Street
Alexandria, VA 22314

Enclosed is the data package for Case No. 8001. Under this case number, we received a total of four soil samples, which were received on September 3, 1987 from Region V. All samples were analyzed and reported according to the protocols provided under our Contract No 68-01-7146 bid lot #1.

Please note the following summary comments relating to the contractual quality control in this case:

- <u>GC-MS Tuning.</u> All tuning requirements for both BFB and DFTPP for samples analyzed in this case were within contract criteria.

- <u>Instrumental Calibrations.</u> All instrumental calibrations for all fractions analyzed were within contract criteria for both initial and continuing calibrations.

- <u>Method Blanks.</u> All method blanks analyzed with this case were found to be within contract criteria for all fractions analyzed.

- <u>Surrogate Recoveries.</u> All calculated surrogate recoveries for the volatile, semivolatile and pesticide fractions were found to be within contract criteria with the following exceptions:

  Semivolatile fraction: A single surrogate compound in sample EP401 was found to be out of control (terphenyl d14 @ 164%); no other re-extraction or re-analysis was required.

  Pesticide fraction: The recovery of Dibutylchlorendate was found outside the advisory limits in both Method blank-2, and EP401 at 152% and 273% respectively.

- <u>Pesticide Confirmation Analysis.</u> GC confirmation analysis of samples in this case was performed using a DB-608 Megabore Capillary Column. Please note that a 1.5% DBC shift criteria has been established by Joan Fisk when using Megabore capillary columns.

- <u>Sample Re-extractions.</u> The matrix spike and matrix spike duplicate performed on sample EP100 were re-extracted and re-analyzed for the pesticide fraction; this was done following the analysis of the original extracts which produced no recovery of any pesticide matrix spike compound. We felt it was necessary to perform the re-extraction and re-analysis either to verify an extreme matrix effect or the fact that the original samples were not actually spiked with the pesticides.
  The re-analysis of the re-extracted EP100MS and EP100MSD produced acceptable recoveries for the pesticides, suggesting that the original samples extracted as the MS/MSD were not spiked with the pesticide matrix spiking compounds. We have provided both the data for the original extracts and the re-extracted EP100MS and EP100MSD, and do not consider them as billable. The results and recoveries recorded on Form III for the pesticide fraction represent the re-extracted matrix spikes of EP100.

- <u>Sample Notes (EP401).</u> PCB 1254 was identified and confirmed in sample EP401. In the pattern of PCB 1254, both standard and sample, there is a peak which falls within the retention time window of DDT both on the quantitation column (mixed phase) and the confirmation column (DB-608).
  It is the professional judgement of the analyst that the peak found with the retention time windows for the DDT in sample EP401 was not DDT, but part of the PCB 1254 pattern and was therefore not reported as DDT.

If you have any questions regarding this case or need any further clarifications, please feel free to call.

Sincerely,

David C. Hills

David C. Hills
Manager, Environmental analysis

DCH/sc

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. 8001 Contract Laboratory HAZLETON LABORATORIES Contract No. 68-01-7146

Low ✓ Medium _____

	VOLATILE			SEMI-VOLATILE								PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO-ETHANE-D4 (70-121)	NITRO-BENZENE-D5 (23-120)	2-FLUORO-BIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D6 (24-113)	2-FLUORO-PHENOL (25-121)	2,4,6 TRIBROMO-PHENOL (19-122)	DIBUTYL-CHLORENDATE** (20-150)
EP100	101	90	90	32	46	109			39	33	69	114
EP401	109	89	94	77	81	164*			82	77	100	273*
EP402	109	97	97	45	39	105			50	51	72	195
EP403	110	88	92	67	68	119			66	65	81	126
EP100MS	106	96	95	38	44	111			41	33	66	125
EP100MSD	104	100	96	36	47	112			39	29	64	105
M.Blk-1	101	100	93	75	67	111			69	74	57	123
M.BlK-2	NR	NR	NR	NR	NR	NR			NR	NR	NR	152*
EP100MS-RE	NR	NR	NR	NR	NR	NR			NR	NR	NR	76
EP100MSD-RE	NR	NR	NR	NR	NR	NR			NR	NR	NR	99

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 21 ; outside of QC limits

Semi-Volatiles: 1 out of 42 ; outside of QC limits

Pesticides: 2 out of 10 ; outside of QC limits

7/85

Comments:

FORM II

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 8001 **Contractor** HAZLETON LABORATORIES **Contract No.** 68-01-7146

Low Level ✓ **Medium Level** _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. EP100	1,1-Dicholorethene	53.0	0	54.0	102	52.0	98	4	22	59-172
	Trichloroethene			51.1	96	53.0	100	4	24	62-137
	Chlorobenzene			51.1	96	57.8	109	12	21	60-133
	Toluene			61.4	116	60.3	114	2	21	59-139
	Benzene			59.4	112	51.9	98	13	21	66-142
B/N SMO SAMPLE NO. EP100	1,2,4-Trichlorobenzene	1773		506	29*	419	24*	19	23	38-107
	Acenaphthene			913	51	950	54	4	19	31-137
	2,4 Dinitrotoluene			1343	76	1332	75	1	47	28-89
	Pyrene		335	2371	115	2154	103	10	36	35-142
	N-Nitrosodi-n-Propylamine		0	744	42	764	43	3	38	41-126
	1,4-Dichlorobenzene			232	13*	103	6*	77*	27	28-104
ACID SMO SAMPLE NO. EP100	Pentachlorophenol	3546		187	5*	820	23	126*	47	17-109
	Phenol			1405	40	1453	41	3	35	26-90
	2-Chlorophenol			1274	36	1263	36	1	50	25-102
	4-Chloro-3-Methylphenol			2116	60	2161	61	2	33	26-103
	4-Nitrophenol			2673	75	2593	73	3	50	11-114
PEST SMO SAMPLE NO. EP100	Lindane	28.3	0.8	17.5	59	12.4	41*	36	50	46-127
	Heptachlor		9.5	26.1	59	22.1	45	27	31	35-130
	Aldrin		1.0	21.1	71	14.5	48	39	43	34-132
	Dieldrin	70.7	9.9	54.7	63	39.6	42	40*	38	31-134
	Endrin		0	69.5	98	52.6	74	28	45	42-139
	4,4'-DDT		9.1	56.5	67	36.2	38	55*	50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5 ; outside QC limits
B/N 1 out of 6 ; outside QC limits
ACID 1 out of 5 ; outside QC limits
PEST 2 out of 6 ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/N 4 out of 12 ; outside QC limits
ACID 1 out of 10 ; outside QC limits
PEST 1 out of 12 ; outside QC limits

Comments: _____

FORM III

7/85

METHOD BLANK SUMMARY

Case No. 8001 Region 5 Contractor HAZLETON LABORATORIES Contract No. 68-01-7146

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (INCL. TIC OR UNKNOWN)	CONC.	UNITS	CRQL
M.BLK-126152	9-8-87	VOA	SOIL	LOW	HP5993	75-09-2	Methylene chloride	5	µg/kg	5
↓	↓	↓	↓	↓	↓	67-64-1	Acetone	11	↓	10
M.BLK-1SV2701	9-10-87	BNA	SOIL	LOW	FINN 4500	84-74-2	Di-n-butylphthalate	490	µg/kg	330
						117-84-0	Di-n-Octylphthalate	330J		330
							Unknown	1500		—
						3648-21-3	1,2-Benzenedicarboxylic acid, diheptyl ester	180		—
							Unknown	240		—
						603-11-2	1,2-Benzenedicarboxylic acid, 3-nitro-	290		—
							Unknown	220		—
						36482-24-3	6H-dibenzo[B,D]Pyran-1-ol, 3-hexyl-6-A,7,8,10A-tetrahydro-6,6,9-trime	300		—
						603-11-2	1,2-Benzenedicarboxylic acid, 3-nitro-	330		—
						36482-24-3	6H-dibenzo[B,D] Pyran-1-ol, 3-hexyl-6 A,7,8,10A-tetrahydro-6,6,9-trime	390		—
						26761-40-0	1,2-benzenedicarboxylic acid, diisodecyl ester	200		—
							Unknown	460		—
↓	↓	↓	↓	↓	↓		Unknown	200	↓	—
M.BLK-1 3357	9-26-87	PEST	SOIL	LOW	5779		NO PESTICIDE/PCB's FOUND	—	—	—
M.BLK-2 3473.31	10-5-87	↓	↓	↓	↓		NO PESTICIDE/PCB's FOUND	—	—	—

Comments:

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

INSTRUMENT DETECTION LIMITS

HP 5993

Organics Analysis Data Sheet
(Page 1)

VOLATILE COMPOUNDS

HAZLETON LABORATORIES AMERICA

CAS Number		ug/L
74-87-3	Chloromethane	4
74-83-9	Bromomethane	5
75-01-4	Vinyl Chloride	6
75-00-3	Chloroethane	4
75-09-2	Methylene Chloride	8
67-64-1	Acetone	39
75-15-0	Carbon Disulfide	5
75-35-4	1, 1-Dichloroethene	5
75-34-3	1, 1-Dichloroethane	1
156-60-5	Trans-1, 2-Dichloroethene	3
67-66-3	Chloroform	3
107-06-2	1, 2-Dichloroethane	2
78-93-3	2-Butanone	3
71-55-6	1, 1, 1-Trichloroethane	5
56-23-5	Carbon Tetrachloride	6
108-05-4	Vinyl Acetate	4
75-27-4	Bromodichloromethane	5

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

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

INSTRUMENT DETECTION LIMITS

FINNIGAN 4500

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

HAZLETON LABORATORIES AMERICA

CAS Number		ug/L
108-95-2	Phenol	6
111-44-4	bis(-2-Chloroethyl)Ether	6
95-57-8	2-Chlorophenol	3
541-73-1	1, 3-Dichlorobenzene	3
106-46-7	1, 4-Dichlorobenzene	9
100-51-6	Benzyl Alcohol	9
95-50-1	1, 2-Dichlorobenzene	3
95-48-7	2-Methylphenol	9
39638-32-9	bis(2-chloroisopropyl)Ether	26
106-44-5	4-Methylphenol	18
621-64-7	N-Nitroso-Di-n-Propylamine	19
67-72-1	Hexachloroethane	7
98-95-3	Nitrobenzene	7
78-59-1	Isophorone	12
88-75-5	2-Nitrophenol	9
105-67-9	2, 4-Dimethylphenol	12
65-85-0	Benzoic Acid	18
111-91-1	bis(-2-Chloroethoxyl)Methane	18
120-83-2	2, 4-Dichlorophenol	9
120-82-1	1, 2, 4-Trichlorobenzene	9
91-20-3	Naphthalene	12
106-47-8	4-Chloroaniline	27
87-68-3	Hexachlorobutadiene	9
59-50-7	4-Chloro-3-Methylphenol	9
91-57-6	2-Methylnaphthalene	9
77-47-4	Hexachlorocyclopentadiene	25
88-06-2	2, 4, 6-Trichlorophenol	26
95-95-4	2, 4, 5-Trichlorophenol	4
91-58-7	2-Chloronaphthalene	15
88-74-4	2-Nitroaniline	10
131-11-3	Dimethyl Phthalate	6
208-96-8	Acenaphthylene	10
99-09-2	3-Nitroaniline	7

CAS Number		ug/L
83-32-9	Acenaphthene	12
51-28-5	2, 4-Dinitrophenol	36
100-02-7	4-Nitrophenol	9
132-64-9	Dibenzofuran	7
121-14-2	2, 4-Dinitrotoluene	18
606-20-2	2, 6-Dinitrotoluene	4
84-66-2	Diethylphthalate	10
7005-72-3	4-Chlorophenyl-phenylether	9
86-73-7	Fluorene	22
100-01-6	4-Nitroaniline	36
534-52-1	4, 6-Dinitro-2-Methylphenol	15
86-30-6	N-Nitrosodiphenylamine (1)	12
101-55-3	4-Bromophenyl-phenylether	10
118-74-1	Hexachlorobenzene	24
87-86-5	Pentachlorophenol	30
85-01-8	Phenanthrene	12
120-12-7	Anthracene	10
84-74-2	Di-n-Butylphthalate	30
206-44-0	Fluoranthene	12
129-00-0	Pyrene	6
85-68-7	Butylbenzylphthalate	16
91-94-1	3, 3'-Dichlorobenzidine	3
56-55-3	Benzo(a)Anthracene	30
117-81-7	bis(2-Ethylhexyl)Phthalate	6
218-01-9	Chrysene	6
117-84-0	Di-n-Octyl Phthalate	32
205-99-2	Benzo(b)Fluoranthene	18
207-08-9	Benzo(k)Fluoranthene	12
50-32-8	Benzo(a)Pyrene	12
193-39-5	Indeno(1, 2, 3-cd)Pyrene	32
53-70-3	Dibenzo(a, h)Anthracene	30
191-24-2	Benzo(g, h, i)Perylene	22

(1)-Cannot be separated from diphenylamine

Hazleton Laboratories America

Instrument Detection Limits
HP 5779
1.5% SP 2250
1.95% SP 2401

ORGANICS ANALYSIS DATA SHEET
Pesticide/PCBs

CAS Number	Compound	µg/mL	H_2O µg/L	Soil µg/kg
319-84-6	Alpha-BHC	0.00086	0.0086	0.57
319-85-7	Beta-BHC	0.00049	0.0049	0.33
319-86-8	Delta-BHC	0.00042	0.0042	0.28
56-89-9	Gamma-BHC (lindane)	0.0062	0.062	4.1
76-44-8	Heptachlor	0.00049	0.0049	0.33
309-00-2	Aldrin	0.00042	0.0042	0.28
1024-57-3	Heptachlor Epoxide	0.00028	0.0028	0.19
959-98-8	Endosulfan I	0.00042	0.0042	0.28
60-57-1	Dieldrin	0.00042	0.0042	0.28
72-55-9	4-4-DDE	0.00028	0.0028	0.19
72-20-8	Endrin	0.0030	0.030	2.0
33213-65-9	Endosulfan II	0.0021	0.021	1.4
72-54-8	4-4-DDD	0.00057	0.0057	0.38
1031-07-8	Endosulfan Sulfate	0.0011	0.011	0.73
50-29-3	4-4-DDT	0.00014	0.0014	0.93
72-43-5	Methoxychlor	0.031	0.31	21
53494-70-6	Endrin Ketone	0.00085	0.0085	0.57
57-74-9	Chlordane	0.0085	0.085	5.7
8001-35-2	Toxaphene	0.0049	0.049	3.3
12674-11-2	Aroclor-1016	0.0085	0.085	5.7
11104-28-2	Aroclor-1221	0.025	0.25	17
11141-16-5	Aroclor-1232	0.025	0.25	17
53469-21-9	Aroclor-1242	0.025	0.25	17
12672-29-6	Aroclor-1248	0.025	0.25	17
11097-69-1	Aroclor-1254	0.025	0.25	17
11096-82-5	Aroclor-1260	0.025	0.25	17

H_2O: (10 x µg/mL) reflects on 100 x concentration factor for waters per CLP protocol.

Soil: $\left(\frac{1,000}{1.5} \times \mu g/mL\right)$ reflects on normal concentration factor for soils per CLP protocol.

Date Analyzed: 03/14/86

(0361b/lma)

Hazleton Laboratories America

Instrument Detection Limits
HP 10802
DB608

ORGANICS ANALYSIS
DATA SHEET
Pesticide/PCBs

CAS Number	Compound	µg/mL	H_2O µg/L	Soil µg/kg
319-84-6	Alpha-BHC	0.0015	0.015	1.0
319-85-7	Beta-BHC	0.0011	0.011	0.73
319-86-8	Delta-BHC	0.0016	0.016	1.10
56-89-9	Gamma-BHC (lindane)	0.0020	0.020	1.3
76-44-8	Heptachlor	0.0017	0.017	1.1
309-00-2	Aldrin	0.0020	0.020	1.3
1024-57-3	Heptachlor Epoxide	0.0006	0.006	0.40
959-98-8	Endosulfan I	0.0008	0.008	0.53
60-57-1	Dieldrin	0.0023	0.023	1.5
72-55-9	4-4-DDE	0.0020	0.020	1.3
72-20-8	Endrin	0.0028	0.028	1.9
33213-65-9	Endosulfan II	0.0030	0.030	2.0
72-54-8	4-4-DDE	0.0025	0.025	1.7
1031-07-8	Endosulfan Sulfate	0.0030	0.030	2.0
50-29-3	4-4-DDT	0.0018	0.018	1.2
72-43-5	Methoxychlor	0.0048	0.048	3.2
53494-70-6	Endrin Ketone	0.0080	0.080	5.3
57-74-9	Chlordane	0.035	0.35	23
8001-35-2	Toxaphene	0.039	0.39	26
12674-11-2	Aroclor-1016	0.035	0.35	23
11104-28-2	Aroclor-1221	0.002	0.02	1.3
11141-16-5	Aroclor-1232	0.015	0.15	10
53469-21-9	Aroclor-1242	0.025	0.25	17
12672-29-6	Aroclor-1248	0.012	0.12	8
11097-69-1	Aroclor-1254	0.005	0.05	3.3
11096-82-5	Aroclor-1260	0.014	0.14	9.3

H_2O: (10 x µg/mL) reflects on 100 x concentration factor for waters per CLP protocol.

Soil: $(\frac{1,000}{1.5} \times \mu g/mL)$ reflects on normal concentration factor for soils per CLP protocol.

Date Analyzed: 04/21/87

(0361b/lma)

Sample Number
EP 100

S-1

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES

Case No: 8001

Lab Sample ID No: 70901023

QC Report No:

Sample Matrix: Soil

Contract No: 68-01-7146

Data Release Authorized By: David C. Gilb

Date Sample Received: 9-3-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 09/08/87

Date Analyzed: 09/08/87

Conc/Dil Factor: 1 pH

Percent Moisture: (Not Decanted) 6.0

C.F. = 1.06

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	16 B
67-64-1	Acetone	28 B
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	11U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	11U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	11U
75-25-2	Bromoform	5U
108-10-1	4-Methyl-2-Pentanone	11U
591-78-6	2-Hexanone	11U
127-18-4	Tetrachloroethene	5U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	5U

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

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number
EP100

S-1

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-10-87

Conc/Dil Factor: 1

Percent Moisture (Decanted): 6.0

C.F. 1.06

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	350U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1. 3-Dichlorobenzene	
106-46-7	1. 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1. 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2. 4-Dimethylphenol	
65-85-0	Benzoic Acid	1800U
111-91-1	bis(-2-Chloroethoxy)Methane	350U
120-83-2	2. 4-Dichlorophenol	
120-82-1	1. 2. 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2. 4. 6-Trichlorophenol	
95-95-4	2. 4. 5-Trichlorophenol	1800U
91-58-7	2-Chloronaphthalene	350U
88-74-4	2-Nitroaniline	1800U
131-11-3	Dimethyl Phthalate	350U
208-96-8	Acenaphthylene	350U
99-09-2	3-Nitroaniline	1800U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	350U
51-28-5	2. 4-Dinitrophenol	1800U
100-02-7	4-Nitrophenol	1800U
132-64-9	Dibenzofuran	350U
121-14-2	2 4-Dinitrotoluene	
606-20-2	2. 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1800U
534-52-1	4. 6-Dinitro-2-Methylphenol	1800U
86-30-6	N-Nitrosodiphenylamine (1)	350U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1800U
85-01-8	Phenanthrene	170J
120-12-7	Anthracene	30J
84-74-2	Di-n-Butylphthalate	370B
206-44-0	Fluoranthene	360
129-00-0	Pyrene	340J
85-68-7	Butylbenzylphthalate	350U
91-94-1	3 3'-Dichlorobenzidine	700U
56-55-3	Benzo(a)Anthracene	150J
117-81-7	bis(2-Ethylhexyl)Phthalate	38J
218-01-9	Chrysene	180J
117-84-0	Di-n-Octyl Phthalate	170BJ
205-99-2	Benzo(b)Fluoranthene	190J
207-08-9	Benzo(k)Fluoranthene	170J
50-32-8	Benzo(a)Pyrene	150J
193-39-5	Indeno(1. 2. 3-cd)Pyrene	76J
53-70-3	Dibenzo(a,h)Anthracene	350U
191-24-2	Benzo(g. h. i)Perylene	58J

(1)-Cannot be seperated from diphenylamine

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number EP 100

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-26-87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 6.0

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	8.5	U
319-85-7	Beta-BHC	8.5	U
319-86-8	Delta-BHC	8.5	U
58-89-9	Gamma-BHC (Lindane)	8.5	U
76-44-8	Heptachlor	8.5	U
309-00-2	Aldrin	8.5	U
1024-57-3	Heptachlor Epoxide	8.5	U
959-98-8	Endosulfan I	8.5	U
60-57-1	Dieldrin	17	U
72-55-9	4, 4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4, 4'-DDD	17	U
1031-07-8	Endosulfan Sulfate	17	U
50-29-3	4, 4'-DDT	17	U
72-43-5	Methoxychlor	85	U
53494-70-5	Endrin Ketone	17	U
57-74-9	Chlordane	85	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	85	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	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 28.2g dry wt V_t 20,000 µl V_i 4.0 µl

LABORATORY NAME: HAZLETON LABORATORIES

CASE NO: 8001

SAMPLE NUMBER

EP100

ORGANIC ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRAC-TION	SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L or UG/KG)
1.	------	UNKNOWN	BNA	474	530.
2.	------	UNKNOWN	BNA	2310	220.
3.	------	UNKNOWN Branched alkane or phthalate	BNA	2369	180.
4.	------	UNKNOWN " " "	BNA	2374	160.
5.	------	UNKNOWN " " "	BNA	2386	180.
6.	205-99-2	BENZ[E]ACEPHENANTHRYLENE	BNA	2405	170.
7.	119-07-3	1,2-BENZENEDICARBOXYLIC ACID, DECYL OCTYL ESTER	BNA	2444	220.
8.					
9.	—	Unknown	VOA	173	6
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Sample Number
EP 401

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES

Case No: 8001

Lab Sample ID No: 70901024

QC Report No:

Sample Matrix: Soil

Contract No: 68-01-7146

Data Release Authorized By: David C. Gill

Date Sample Received: 9-3-87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/08/87

Date Analyzed: 09/08/87

Conc/Dil Factor: 1 pH

Percent Moisture: (Not Decanted) 9.9 C.F. = 1.11

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	6 B
67-64-1	Acetone	16 B
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	6U
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	11U
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	11U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	6U
79-01-6	Trichloroethene	6U
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	6U
71-43-2	Benzene	6U
10061-01-5	cis-1, 3-Dichloropropene	6U
110-75-8	2-Chloroethylvinylether	11U
75-25-2	Bromoform	6U
108-10-1	4-Methyl-2-Pentanone	11U
591-78-6	2-Hexanone	11U
127-18-4	Tetrachloroethene	6U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	6U
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	6U
100-42-5	Styrene	6U
	Total Xylenes	6U

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

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number EP 401

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-12-87

Conc/Dil Factor: 1

Percent Moisture (Decanted) 9.8

C.F. 1.11

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	370U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	1800U
111-91-1	bis(-2-Chloroethoxy)Methane	370U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	16J
106-47-8	4-Chloroaniline	370U
87-68-3	Hexachlorobutadiene	370U
59-50-7	4-Chloro-3-Methylphenol	370U
91-57-6	2-Methylnaphthalene	31J
77-47-4	Hexachlorocyclopentadiene	370U
88-06-2	2, 4, 6-Trichlorophenol	370U
95-95-4	2, 4, 5-Trichlorophenol	1800U
91-58-7	2-Chloronaphthalene	370U
88-74-4	2-Nitroaniline	1800U
131-11-3	Dimethyl Phthalate	370U
208-96-8	Acenaphthylene	15J
99-09-2	3-Nitroaniline	1800U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	120J
51-28-5	2, 4-Dinitrophenol	1800U
100-02-7	4-Nitrophenol	1800U
132-64-9	Dibenzofuran	74J
121-14-2	2, 4-Dinitrotoluene	370U
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	170J
100-01-6	4-Nitroaniline	1800U
534-52-1	4, 6-Dinitro-2-Methylphenol	1800U
86-30-6	N-Nitrosodiphenylamine (1)	370U
101-55-3	4-Bromophenyl-phenylether	370U
118-74-1	Hexachlorobenzene	370U
87-86-5	Pentachlorophenol	1800U
85-01-8	Phenanthrene	2800
120-12-7	Anthracene	690
84-74-2	Di-n-Butylphthalate	710B
206-44-0	Fluoranthene	4200
129-00-0	Pyrene	5900
85-68-7	Butylbenzylphthalate	3600
91-94-1	3, 3'-Dichlorobenzidine	740U
56-55-3	Benzo(a)Anthracene	2100
117-81-7	bis(2-Ethylhexyl)Phthalate	2800
218-01-9	Chrysene	2300
117-84-0	Di-n-Octyl Phthalate	510B
205-99-2	Benzo(b)Fluoranthene	2300
207-08-9	Benzo(k)Fluoranthene	1600
50-32-8	Benzo(a)Pyrene	1700
193-39-5	Indeno(1, 2, 3-cd)Pyrene	740
53-70-3	Dibenzo(a, h)Anthracene	370U
191-24-2	Benzo(g, h, i)Perylene	510

* HR

370 CR

* HRS

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number
EP401

S-2

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-29-87

Conc/Dil Factor: 7.0

Percent Moisture (decanted) 9.8

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	62	U
319-85-7	Beta-BHC	62	U
319-86-8	Delta-BHC	62	U
58-89-9	Gamma-BHC (Lindane)	62	U
76-44-8	Heptachlor	62	U
309-00-2	Aldrin	62	U
1024-57-3	Heptachlor Epoxide	62	U
959-98-8	Endosulfan I	62	U
60-57-1	Dieldrin	120	U
72-55-9	4, 4'-DDE	120	U
72-20-8	Endrin	120	U
33213-65-9	Endosulfan II	120	U
72-54-8	4, 4'-DDD	120	U
1031-07-8	Endosulfan Sulfate	120	U
50-29-3	4, 4'-DDT	120	U
72-43-5	Methoxychlor	620	U
53494-70-5	Endrin Ketone	120	U
57-74-9	Chlordane	620	U
8001-35-2	Toxaphene	1200	U
12674-11-2	Aroclor-1016	620	U
11104-28-2	Aroclor-1221	620	U
11141-16-5	Aroclor-1232	620	U
53469-21-9	Aroclor-1242	620	U
12672-29-6	Aroclor-1248	~~620~~	U
11097-69-1	Aroclor-1254	1700	
11096-82-5	Aroclor-1260	~~1200~~	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 27.1 g dry wt V_t 20,000 µl V_i 4.0 µl

LABORATORY NAME: HAZLETON LABORATORIES

CASE NO: 8001

SAMPLE NUMBER
EP 901 ~~1UL~~

9/21/87

ORGANIC ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRAC-TION	SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L ~~UG/KG~~)
1.	------	UNKNOWN	BNA	475	1400.
2.	2788-23-0	9H-CARBAZOLE, 9-NITROSO-	BNA	1601	230.
3.	2531-84-2	PHENANTHRENE, 2-METHYL-	BNA	1656	240.
4.	2531-84-2	PHENANTHRENE, 2-METHYL-	BNA	1661	270.
5.	203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRENE	BNA	1678	590.
6.	612-94-2	NAPHTHALENE, 2-PHENYL-	BNA	1726	280.
7.	10544-50-0	SULFUR, MOL. (S8)	BNA	1791	630.
8.	------	UNKNOWN	BNA	1875	820.
9.	------	UNKNOWN	BNA	1889	650.
10.	2381-21-7	PYRENE, 1-METHYL-	BNA	1938	2200.
11.	3353-12-6	PYRENE, 4-METHYL-	BNA	1952	940.
12.	82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	BNA	2052	740.
13.	239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPHENE	BNA	2074	640.
14.	------	UNKNOWN PNA's	BNA	2083	1200.
15.	------	UNKNOWN PNA's	BNA	2153	920.
16.	------	UNKNOWN PNA's	BNA	2250	610.
17.	------	UNKNOWN PNA's	BNA	2376	940.
18.	205-82-3	BENZO[J]FLUORANTHENE	BNA	2409	2600.
19.	119-07-3	1,2-BENZENEDICARBOXYLIC ACID, DECYL OCTYL ESTER	BNA	2443	610.
20.	17301-31-4	UNDECANE, 3,9-DIMETHYL-	BNA	2575	640.
21.	110-54-3	Hexane	VOA	300	9
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Sample Number
EP 402

3-2

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES

Case No: 8001

Lab Sample ID No: 70901025

QC Report No:

Sample Matrix: Soil

Contract No: 68-01-7146

Date Release Authorized By: David C. Gibbs

Date Sample Received: 9-3-87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/08/87

Date Analyzed: 09/08/87

Conc/Dil Factor: 1 pH

Percent Moisture: (Not Decanted) 21.2 CF = 1.27

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

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

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

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number ED 402

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-10-87

Conc/Dil Factor: 1

Percent Moisture (Decanted) - 21.2

C.F. 1.27

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

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	420U
51-28-5	2. 4-Dinitrophenol	2100U
100-02-7	4-Nitrophenol	2100U
132-64-9	Dibenzofuran	420U
121-14-2	2 4-Dinitrotoluene	
606-20-2	2. 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	2100U
534-52-1	4. 6-Dinitro-2-Methylphenol	2100U
86-30-6	N-Nitrosodiphenylamine (1)	420U
101-55-3	4-Bromophenyl-phenylether	420U
118-74-1	Hexachlorobenzene	420U
87-86-5	Pentachlorophenol	2100U
85-01-8	Phenanthrene	110J
120-12-7	Anthracene	420U
84-74-2	Di-n-Butylphthalate	210BJ
206-44-0	Fluoranthene	120J
129-00-0	Pyrene	120J
85-68-7	Butylbenzylphthalate	420U
91-94-1	3. 3'-Dichlorobenzidine	840U
56-55-3	Benzo(a)Anthracene	47J
117-81-7	bis(2-Ethylhexyl)Phthalate	58J
218-01-9	Chrysene	49J
117-84-0	Di-n-Octyl Phthalate	100BJ
205-99-2	Benzo(b)Fluoranthene	34J
207-08-9	Benzo(k)Fluoranthene	41J
50-32-8	Benzo(a)Pyrene	36J
193-39-5	Indeno(1. 2. 3-cd)Pyrene	420U
53-70-3	Dibenzo(a. h)Anthracene	420U
191-24-2	Benzo(g. h. i)Perylene	420U

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number
EP402

S-5

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-26-87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 21.2

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 23.6 g dry wt. V_t 20,000 µl V_i 4.0 µl

LABORATORY NAME: HAZLETON LABORATORIES

CASE NO: 8001

SAMPLE NUMBER

EP402

ORGANIC ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRAC-TION	SCAN NUMBER	ESTIMATED CONCENTRATI. (UG/L UG/KG
1.	------	UNKNOWN	BNA	474	1100.
2.	3021-94-1	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-	BNA	584	380.
3.	------	UNKNOWN Branched alkane or phthalate	BNA	2372	240.
4.	630-02-4	OCTACOSANE	BNA	2409	730.
5.	1002-17-1	DECANE, 2,9-DIMETHYL-	BNA	2572	190.
6.	109-66-0	Pentane	VOA	202	7
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Sample Number
EP 403

S-4 ZKG

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES

Case No: 8001

Lab Sample ID No: 70901026

QC Report No:

Sample Matrix: soil

Contract No: 68-01-7146

Data Release Authorized By: David C. Gill

Date Sample Received: 9-3-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 09/08/87

Date Analyzed: 09/08/87

Conc/Dil Factor: 1 pH

Percent Moisture: (Not Decanted) 15.0 CF = 1.18

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	12U
74-83-9	Bromomethane	12U
75-01-4	Vinyl Chloride	12U
75-00-3	Chloroethane	12U
75-09-2	Methylene Chloride	14B
67-64-1	Acetone	15B
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	6U
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	12U
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	12U
75-27-4	Bromodichloromethane	6U

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

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

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number EP 403

S-4 BKG

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-10-87

Conc/Dil Factor: 1

Percent Moisture (Decanted) 15.0

C.F. 1.18

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	390U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	2000U
111-91-1	bis(-2-Chloroethoxy)Methane	390U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	2000U
91-58-7	2-Chloronaphthalene	390U
88-74-4	2-Nitroaniline	2000U
131-11-3	Dimethyl Phthalate	390U
208-96-8	Acenaphthylene	390U
99-09-2	3-Nitroaniline	2000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	97J
51-28-5	2, 4-Dinitrophenol	2000U
100-02-7	4-Nitrophenol	2000U
132-64-9	Dibenzofuran	27J
121-14-2	2, 4-Dinitrotoluene	390U
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	90J
100-01-6	4-Nitroaniline	2000U
534-52-1	4, 6-Dinitro-2-Methylphenol	2000U
86-30-6	N-Nitrosodiphenylamine (1)	390U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	2000U
85-01-8	Phenanthrene	1300
120-12-7	Anthracene	270J
84-74-2	Di-n-Butylphthalate	860B
206-44-0	Fluoranthene	2600
129-00-0	Pyrene	2200
85-68-7	Butylbenzylphthalate	390U
91-94-1	3, 3'-Dichlorobenzidine	780U
56-55-3	Benzo(a)Anthracene	990
117-81-7	bis(2-Ethylhexyl)Phthalate	390U
218-01-9	Chrysene	1100
117-84-0	Di-n-Octyl Phthalate	390U
205-99-2	Benzo(b)Fluoranthene	880
207-08-9	Benzo(k)Fluoranthene	1100
50-32-8	Benzo(a)Pyrene	930
193-39-5	Indeno(1, 2, 3-cd)Pyrene	430
53-70-3	Dibenzo(a, h)Anthracene	72J
191-24-2	Benzo(g, h, i)Perylene	280J

HRS

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON LABORATORIES

Case No 8001

Sample Number
EP403

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-9-87

Date Analyzed: 9-26-87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 15.0

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	9.4	U
319-85-7	Beta-BHC	9.4	U
319-86-8	Delta-BHC	9.4	U
58-89-9	Gamma-BHC (Lindane)	9.4	U
76-44-8	Heptachlor	9.4	U
309-00-2	Aldrin	9.4	U
1024-57-3	Heptachlor Epoxide	9.4	U
959-98-8	Endosulfan I	9.4	U
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	94	U
53494-70-5	Endrin Ketone	19	U
57-74-9	Chlordane	94	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	94	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	94	U
53469-21-9	Aroclor-1242	94	U
12672-29-6	Aroclor-1248	94	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	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 25.5 g dry wt V_t 20,000 µl V_i 4.0 µl

LABORATORY NAME: HAZLETON LABORATORIES

CASE NO: 8001

SAMPLE NUMBER

EP403

ORGANIC ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRAC-TION	SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L UG/KG)
1.	------	UNKNOWN	BNA	476	1300.
2.	------	UNKNOWN	BNA	496	190.
3.	3021-94-1	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-	BNA	585	280.
4.	------	UNKNOWN	BNA	1677	250.
5.	10544-50-0	SULFUR, MOL. (S8)	BNA	1790	480.
6.	3353-12-6	PYRENE, 4-METHYL-	BNA	1937	250.
7.	3353-12-6	PYRENE, 4-METHYL-	BNA	1951	180.
8.	195-19-7	BENZO[C]PHENANTHRENE	BNA	2151	160.
9.	638-66-4	OCTADECANAL	BNA	2372	660.
10.	205-82-3	BENZO[J]FLUORANTHENE	BNA	2406	460.
11.	630-02-4	OCTACOSANE	BNA	2410	240.
12.	629-97-0	DOCOSANE	BNA	2573	480.
13.		Unknown	VOA	173	10
14.	109-66-0	Pentane	↓	205	7
15.		Unknown	↓	444	42
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

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

CRL Receipt Date 10/15/87 FIT Receipt Date 11/10/87 Review Completed 11/15/87

TO: Kurt Sims

FROM: Brenda R. Jones

SUBJECT: Janson Landfill

PAN: IL 0449 CASE # 8001

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	# 4	Low Soil
	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status _____ Completed!!

✓ Incomplete, awaiting: _____

FIT Data Review Findings:

Check Data Sheets for Transcription Errors

✓ Compounds were detected in sample(s); see enclosed sheet.

Book No. 6 Page No. 293 Date Sampled 1/2/87

26U:001

ecology and environment, inc.
CHICAGO, ILLINOIS

CHEMICAL EVALUATION FORM

SITE NAME: Janson Landfill PAN# DATE: 11/15/87

CASE # 8001 UNITS- mg/kg REVIEWER: BRJ

TOX/ PERS	COMPOUND	CRDL	3-5xCRDL	MEP 445	446	447	448			
	ALUMINUM									
	ANTIMONY									
	ARSENIC	2			6.0		8.8			
	BARIUM									
	BERYLLIUM	1			0.66	0.74	0.98			
	CADMIUM	1			3.7					
	CHROMIUM	2		8.5	22	20	20			
	COBALT	10		4.9	12	16	9.4			
	COPPER	5		13	111	52	41			
	LEAD	1		36	467	35	106			
	MERCURY	.008			0.23	0.23				
	NICKEL	8		16	46	58	25			
	SELENIUM									
	SILVER									
	THALLIUM									
	TIN									
	VANADIUM	10		16	18	23	26			
	ZINC									
	CYANIDE									

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

NOV 10 1987

DATE: 11-6-87

SUBJECT: Review of Region V CLP Data
Received for Review on 10-16-87

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

TO: Data User: FIT

Rec: 19 pages

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

SITE NAME: JANSON LANDFILL SMO case No. S001

EPA Data Set No. SF 4385 No. of Samples: 4 D.U./Activity Numbers Y905/C72100

CRL No. 87FS17595 - 598

SMO Traffic No. MEP445 - 448

CLP Laboratory: RMAL Hrs. Required for Review: 1

Following are our findings: This review covers 4 loc soil samples analyzed for metals. Spike recoveries for Se (60%), Pb_F (10%) are shown above. Detection limit for Se could be elevated. All Se data are estimated.
All Pb data are estimated.
Duplicate analysis gave high RPD for Hg (24%). Limits of ±35% apply for soil duplicate analysis.
All other QC audits are acceptable

Data Rev
11.6.87

( ) 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: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

EPA FORM 1320-6 (Rev. 5/87)

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

000001

Date 10-2-87

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 8001
QC Report No. 87263

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEP445D			
MEP445			
MEP445S			
MEP446			
MEP447			
MEP448			
[MEP999]			

RECEIVED
OCT 05 1987
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Comments: 4 LOW SOILS FOR TOTAL METALS ANALYSIS
SERIAL DILUTION OF SAMPLE ~~MEP488~~ MEP448 IS IDENTIFIED AS [MEP999]

ICP Interelement and background corrections applied? Yes X No ___.
If yes, corrections applied before X 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 method used with P (for ICP/Flame AA) or 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.
X - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is Less than 0.995
CV - Indicates Cold Vapor
AS - Indicates Automated Spectrophotometric

NARRATIVE

RMA QC#: 87263

CASE #: 8001

COMMENTS: The ICP prep blank had Lead contamination at 23 ppb, and the CCV had 36 ppb for Lead. Therefore all 4 samples were analyzed for Lead by furnace. The furnace prep blank had no contamination.

LAB MANAGER: KLD

000003

Form I

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

S-1

EPA Sample No. MEP445

Date 10-2-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 8001
QC REPORT NO. 87263

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	3300	P	13.	MAGNESIUM	28100	P *
2.	ANTIMONY	13u	P	14.	MANGANESE	749	P
3.	ARSENIC	5.3u	F	15.	MERCURY	0.11u	CV
4.	BARIUM	[56]	P	16.	NICKEL	[16]	P
5.	BERYLLIUM	0.53u	P	17.	POTASSIUM	[579]	P
6.	CADMIUM	2.1u	P	18.	SELENIUM	2.6u	F RU
7.	CALCIUM	56900	P	19.	SILVER	2.1u	P
8.	CHROMIUM	8.5	P	20.	SODIUM	574u	P
9.	COBALT	[4.9]	P	21.	THALLIUM	5.3u	F
10.	COPPER	[13]	P	22.	TIN	12u	P
11.	IRON	23300	P	23.	VANADIUM	[16]	P
12.	LEAD	[36] S	F RJ	24.	ZINC	66	P

Cyanide NR AS Percent Solids (%) 95

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

Comments: Pb RESULT DETERMINED BY MSA

Lab Manager [illegible]

000004

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

S-2

EPA Sample No.
MEP446

Date 10-2-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 8001
QC REPORT NO. 87263

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	7180	P	13.	MAGNESIUM	3390	P X
2.	ANTIMONY	14U	P	14.	MANGANESE	488	P
3.	ARSENIC	6.0	F	15.	MERCURY	0.23	CV
4.	BARIUM	244	P	16.	NICKEL	46	P
5.	BERYLLIUM	[0.66]	P	17.	POTASSIUM	[1730]	P
6.	CADMIUM	3.7	P	18.	SELENIUM	2.7U	F R UJ
7.	CALCIUM	17700	P	19.	SILVER	2.2U	P
8.	CHROMIUM	22	P	20.	SODIUM	599U	P
9.	COBALT	[12]	P	21.	THALLIUM	5.5U	F
10.	COPPER	111	P	22.	TIN	12U	P
11.	IRON	23000	P	23.	VANADIUM	[18]	P
12.	LEAD	467 ~~869~~ UO	UP ~~F~~ FR J	24.	ZINC	604	P

Cyanide NR Percent Solids (%) 91

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 UO

000005

Form I

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. MEP447

Date 10-2-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 8001
QC REPORT NO. 87263

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	7030	P	13.	MAGNESIUM	4780	P *
2.	ANTIMONY	15u	P	14.	MANGANESE	637	P
3.	ARSENIC	6.2u	F	15.	MERCURY	0.23	CV
4.	BARIUM	[64]	P	16.	NICKEL	58	P
5.	BERYLLIUM	[0.74]	P	17.	POTASSIUM	[2650]	P
6.	CADMIUM	2.5u	P	18.	SELENIUM	3.1u	F RUJ
7.	CALCIUM	32500	P	19.	SILVER	2.5u	P
8.	CHROMIUM	20	P	20.	SODIUM	673u	P
9.	COBALT	[16]	P	21.	THALLIUM	6.2u	F
10.	COPPER	52	P	22.	TIN	14u	P
11.	IRON	13000	P	23.	VANADIUM	[23]	P
12.	LEAD	[35] S	F R	24.	ZINC	54	P
Cyanide		NR	AS	Percent Solids (%)		81	

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

Comments: Pb RESULT DETERMINED BY MSA

Lab Manager [signature]

Form I

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

S-4 EKG

EPA Sample No. MEP448

Date 10-2-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 8001
QC REPORT NO. 87263

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	11300	P	13.	MAGNESIUM	7610	P*
2.	ANTIMONY	15W	P	14.	MANGANESE	638	P
3.	ARSENIC	8.8	F	15.	MERCURY	0.12u	CV
4.	BARIUM	[75]	P	16.	NICKEL	25	P
5.	BERYLLIUM	[0.98]	P	17.	POTASSIUM	[1620]	P
6.	CADMIUM	2.4u	P	18.	SELENIUM	2.9u	F RU
7.	CALCIUM	20000	P	19.	SILVER	2.4u	P
8.	CHROMIUM	20	P	20.	SODIUM	641u	P
9.	COBALT	[9.4]	P	21.	THALLIUM	5.9u	F
10.	COPPER	41	P	22.	TIN	13u	P
11.	IRON	21400	P	23.	VANADIUM	[26]	P
12.	LEAD	[106]	F RJ	24.	ZINC	348	P

Cyanide NR AS Percent Solids (%) 85

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

Comments: Pb RESULT REPORTED AT AN ADDITIONAL 10X DILUTION.

Lab Manager [illegible]

Form III

Q.C. Report No. 87263

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 8001
DATE 10-2-87 UNITS ug/L
Matrix SOIL

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM	15U	15U				15U	
2. ANTIMONY	25U	25U				25U	
3. ARSENIC	10u	10u	10u			10u	
4. BARIUM	3U	[3.7]				3U	
5. BERYLLIUM	1U	1U				[2.2]	
6. CADMIUM	4U	4U				4U	
7. CALCIUM	179U	179U				[232]	
8. CHROMIUM	4U	[4.4]				4U	
9. COBALT	9U	9U				9U	
10. COPPER	6U	6U				6U	
11. IRON	24U	24U				24U	
12. ~~LEAD~~	~~20U~~	~~36~~				~~23~~	(P)
13. MAGNESIUM	153U	153U				[305]	
14. MANGANESE	[4.5]	[5.9]				[6.4]	
15. MERCURY	0.2u	0.2u				0.2u	
16. NICKEL	8U	8U				8U	
17. POTASSIUM	175U	175U				[262]	
18. SELENIUM	5u	5u	5u			5u	
19. SILVER	[4.3]	4U				4U	
20. SODIUM	1090U	1090U				1090U	
21. THALLIUM	10u	10u	10u			10u	
22. TIN	22U	22U				22U	
23. VANADIUM	7U	7U				7U	
24. ZINC	3U	[4.3]				[5.5]	
Other:							
Cyanide							

Form III

Q.C. Report No. 87263

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 8001

DATE 10-2-87 UNITS ug/L

Matrix Soil

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM							
2. ANTIMONY							
3. ARSENIC							
4. BARIUM							
5. BERYLLIUM							
6. CADMIUM							
7. CALCIUM							
8. CHROMIUM							
9. COBALT							
10. COPPER							
11. IRON							
12. LEAD	5u	5u	5u	5u		5u	
13. MAGNESIUM							
14. MANGANESE							
15. MERCURY							
16. NICKEL							
17. POTASSIUM							
18. SELENIUM							
19. SILVER							
20. SODIUM							
21. THALLIUM							
22. TIN							
23. VANADIUM							
24. ZINC							
Other:							
Cyanide							

Form III

Q.C. Report No. 87263

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 8001

DATE 10-2-87 UNITS ug/L

Matrix Soil

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM							
2. ANTIMONY							
3. ARSENIC							
4. BARIUM							
5. BERYLLIUM							
6. CADMIUM							
7. CALCIUM							
8. CHROMIUM							
9. COBALT							
10. COPPER							
11. IRON							
12. LEAD	5u	5u					
13. MAGNESIUM							
14. MANGANESE							
15. MERCURY							
16. NICKEL							
17. POTASSIUM							
18. SELENIUM							
19. SILVER							
20. SODIUM							
21. THALLIUM							
22. TIN							
23. VANADIUM							
24. ZINC							
Other:							
Cyanide							

Form III

Q.C. Report No. 87263

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 8001

DATE 10-2-87 UNITS ug/L

Matrix SOIL

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM							
2. ANTIMONY							
3. ARSENIC							
4. BARIUM							
5. BERYLLIUM							
6. CADMIUM							
7. CALCIUM							
8. CHROMIUM							
9. COBALT							
10. COPPER							
11. IRON							
12. LEAD	5u	5u					
13. MAGNESIUM							
14. MANGANESE							
15. MERCURY							
16. NICKEL							
17. POTASSIUM							
18. SELENIUM							
19. SILVER							
20. SODIUM							
21. THALLIUM							
22. TIN							
23. VANADIUM							
24. ZINC							
Other:							
Cyanide							

1 of 54

Form III

Q.C. Report No. 87263

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 8001

DATE 10-2-87 UNITS ug/L

Matrix Soil

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM		15u					
2. ANTIMONY		25u					
3. ARSENIC							
4. BARIUM		[4.0]					
5. BERYLLIUM		1u					
6. CADMIUM		4u					
7. CALCIUM		179u					
8. CHROMIUM		6u					
9. COBALT		9u					
10. COPPER		6u					
11. IRON		24u					
12. ~~LEAD~~		~~20u~~					
13. MAGNESIUM		153u					
14. MANGANESE		[5.5]					
15. MERCURY							
16. NICKEL		8u					
17. POTASSIUM		175u					
18. SELENIUM							
19. SILVER		4u					
20. SODIUM		1090u					
21. THALLIUM							
22. TIN		22u					
23. VANADIUM		7u					
24. ZINC		[5.0]					
Other:							
Cyanide							

mw ~~1 of 2~~ 1 of 2

000019

Form V

Q.C. Report No. 87263

SPIKE SAMPLE RECOVERY

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 10-2-87

CASE NO. 8001
EPA Sample No. MEP445
Lab Sample ID No. -
Units mg/kg

MATRIX SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R[1]	
Metals:						
1. ALUMINUM	75-125	2780	3130	NR		
2. ANTIMONY	75-125	190	12U	250	76	
3. ARSENIC	75-125	19 S	5U	20	95	
4. BARIUM	75-125	1010	[54]	1000	96	
5. BERYLLIUM	75-125	23	0.5U	25	92	
6. CADMIUM	75-125	23	2U	25	92	
7. CALCIUM	75-125	44900	54100	NR		
8. CHROMIUM	75-125	109	8.1	100	101	
9. COBALT	75-125	250	[4.7]	250	98	
10. COPPER	75-125	134	[12]	125	98	
11. IRON	75-125	18000	22100	NR		
12. ~~LEAD~~	~~75-125~~	~~274~~	~~52~~	~~250~~	~~89~~	
13. MAGNESIUM	75-125	22600	26700	NR		
14. MANGANESE	75-125	920	711	250	84	
15. MERCURY	75-125	0.54	0.1U	0.5	108	
16. NICKEL	75-125	255	[15]	250	96	
17. POTASSIUM	75-125	[562]	[550]	NR		
18. SELENIUM	75-125	3.0	2.5U	5	60	R
19. SILVER	75-125	25	2U	25	100	
20. SODIUM	75-125	545U	545U	NR		
21. THALLIUM	75-125	20	5U	25	80	
22. TIN	75-125	238	11U	250	95	
23. VANADIUM	75-125	251	[16]	250	94	
24. ZINC	75-125	311	63	250	99	
Other:						
Cyanide	75-125					

[1] %R = [(SSR - SR)/SA] x 100
"R" - out of control

Comments: S-Determined by MSA

Form V

Q.C. Report No. 87263

SPIKE SAMPLE RECOVERY

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 10-2-87

CASE NO. 8001
EPA Sample No. MEP445
Lab Sample ID No. -
Units mg/kg

MATRIX Soil

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R'
Metals:					
1. ALUMINUM	75-125				
2. ANTIMONY	75-125				
3. ARSENIC	75-125				
4. BARIUM	75-125				
5. BERYLLIUM	75-125				
6. CADMIUM	75-125				
7. CALCIUM	75-125				
8. CHROMIUM	75-125				
9. COBALT	75-125				
10. COPPER	75-125				
11. IRON	75-125				
12. LEAD	75-125	33	34.5	10	7.10
13. MAGNESIUM	75-125				
14. MANGANESE	75-125				
15. MERCURY	75-125				
16. NICKEL	75-125				
17. POTASSIUM	75-125				
18. SELENIUM	75-125				
19. SILVER	75-125				
20. SODIUM	75-125				
21. THALLIUM	75-125				
22. TIN	75-125				
23. VANADIUM	75-125				
24. ZINC	75-125				
Other:					
Cyanide	75-125				

' %R = [(SSR - SR)/SA] x 100
"R" - out of control
Comments: S-Determined by MSA

Form VI

Q.C. Report No. 87263

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 10-2-87

CASE NO. 8001
EPA Sample No. MEP445
Lab Sample ID No. -
Units mg/kg

Matrix SOIL

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]	
Metals:					
1. ALUMINUM		3130	2800	11	
2. ANTIMONY		12U	12U	NC	
3. ARSENIC		5U	5U	NC	
4. BARIUM		[54]	[51]	NC	
5. BERYLLIUM		0.5U	0.5U	NC	
6. CADMIUM		2U	2U	NC	
7. CALCIUM		54100	45800	17	
8. CHROMIUM		8.1	9.3	14	
9. COBALT		[4.7]	[4.9]	NC	
10. COPPER		[12]	14	NC	
11. IRON		22100	19300	14	
12. ~~LEAD~~		~~52~~	~~45~~	~~14~~	(P)
13. MAGNESIUM		26700	20900	24	X
14. MANGANESE		711	688	3.3	
15. MERCURY		0.1U	0.1U	NC	
16. NICKEL		[15]	[13]	NC	
17. POTASSIUM		[550]	[520]	NC	
18. SELENIUM		2.5U	2.5U	NC	
19. SILVER		2U	2U	NC	
20. SODIUM		545U	545U	NC	
21. THALLIUM		5U	5U	NC	
22. TIN		11U	11U	NC	
23. VANADIUM		[16]	[13]	NC	
24. ZINC		63	65	3.1	
Other: % Solids		95	95	Ø	
Cyanide					

X Out of Control
[1] To be added at a later date.
[2] RPD = [|S-D|/((S+D)/2)] x 100
NC - Non calculable RPD due to value(s) less than CRDL

000022

Form VI

Q.C. Report No. 87263

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 10-2-87

CASE NO. 8001
EPA Sample No. MEP 445
Lab Sample ID No. -
Units mg/kg

MATRIX Soil

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. ALUMINUM				
2. ANTIMONY				
3. ARSENIC				
4. BARIUM				
5. BERYLLIUM				
6. CADMIUM				
7. CALCIUM				
8. CHROMIUM				
9. COBALT				
10. COPPER				
11. IRON				
12. LEAD		34 S	38	11 (E)
13. MAGNESIUM				
14. MANGANESE				
15. MERCURY				
16. NICKEL				
17. POTASSIUM				
18. SELENIUM				
19. SILVER				
20. SODIUM				
21. THALLIUM				
22. TIN				
23. VANADIUM				
24. ZINC				
Other:				
Cyanide				

* Out of Control
[1] To be added at a later date.
[2] RPD = [|S-D|/((S+D)/2)] x 100
NC - Non calculable RPD due to value(s) less than CRDL

S - DETERMINED BY MSA

NW ~~1 of 2~~ 1/2

Form VII

Q.C. Report No. 87263
INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO 8001
DATE 10-2-87 UNITS ug/L

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. ALUMINUM	200	15		1980	2150	109
2. ANTIMONY	60	25		1010	1100	108
3. ARSENIC	10	31	2	49	48	98
4. BARIUM	200	3		1980	1960	99
5. BERYLLIUM	5	1		481	499	104
6. CADMIUM	5	4		489	479	98
7. CALCIUM	5000	179		49800	51300	103
8. CHROMIUM	10	4		506	515	102
9. COBALT	50	9		474	500	105
10. COPPER	25	6		542	557	103
11. IRON	100	24		1990	2060	104
12. LEAD	5	20	1	~~4510~~	~~4150~~	~~92~~ (P)
13. MAGNESIUM	5000	153		25000	25100	100
14. MANGANESE	15	4		513	528	103
15. MERCURY	0.2		0.2CV	1.0	1.0	100
16. NICKEL	40	8		496	497	100
17. POTASSIUM	5000	175		50200	51200	102
18. SELENIUM	5		1	98	108	110
19. SILVER	10	4		509	484	95
20. SODIUM	5000	1090		50700	51800	102
21. THALLIUM	10		1	97	100	103
22. TIN	40	22		2000	1950	98
23. VANADIUM	50	7		511	503	98
24. ZINC	20	3		3100	2930	94
Other:						
Cyanide	10		10AS	58		

CV - Cold Vapor
AS - Automated Spectrophotometric

Form VII

Q.C. Report No. 87263
INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO 8001
DATE 10-2-87 UNITS ug/L

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. ALUMINUM	200	15		1980		
2. ANTIMONY	60	25		1010		
3. ARSENIC	10	31	2	49		
4. BARIUM	200	3		1980		
5. BERYLLIUM	5	1		481		
6. CADMIUM	5	4		489		
7. CALCIUM	5000	179		49800		
8. CHROMIUM	10	4		506		
9. COBALT	50	9		474		
10. COPPER	25	6		542		
11. IRON	100	24		1990		
12. LEAD	5	20	1	98	116 S	118 (E)
13. MAGNESIUM	5000	153		25000		
14. MANGANESE	15	4		513		
15. MERCURY	.2		0.2CV	1.0		
16. NICKEL	40	8		496		
17. POTASSIUM	5000	175		50200		
18. SELENIUM	5		1	98		
19. SILVER	10	4		509		
20. SODIUM	5000	1090		50700		
21. THALLIUM	10		1	97		
22. TIN	40	22		2000		
23. VANADIUM	50	7		511		
24. ZINC	20	3		3100		
Other:						
Cyanide	10		10AS			

CV - Cold Vapor
AS - Automated Spectrophotometric
S - Determined by MSA

SAMPLE DESCRIPTION

SITE NAME/TDD# Janson landfill / F05-8707-024

CASE NUMBER 8001

SAMPLE #/STATION LOCATION S-1

SAMPLING DATE 9/2/87 SAMPLING TIME 11:23

ORGANIC TRAFFIC NUMBER E0100

INORGANIC TRAFFIC NUMBER MEP 445

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 - 8oz	Organics	5-016828	F2231252
2 - 120ml	VOAs	29 30	D7188081
1 - 8oz	metals	31	C7198142

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Fill material - brown sandy gravel

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Janson landfill / F05-8707-024

CASE NUMBER 8001

SAMPLE #/STATION LOCATION S-2

SAMPLING DATE 9/2/87 SAMPLING TIME 11:33

ORGANIC TRAFFIC NUMBER E0401

INORGANIC TRAFFIC NUMBER MEP 446

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 - 8oz	Organics	5-016832	F2231252
2 - 120ml	VOAs	33 34	D7188081
1 - 8oz	metals	35	C7198142

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: fill material
Gray brown, granular, loose

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Janson landfill / F05-8707-024

CASE NUMBER 8001

SAMPLE #/STATION LOCATION S-3

SAMPLING DATE 9/2/87 SAMPLING TIME 11:40

ORGANIC TRAFFIC NUMBER E P 402

INORGANIC TRAFFIC NUMBER ME P 447

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 - 8oz	Organics	5-016836	F2231252
2 - 120ml	VOAS	37 38	D7188081
1 - 8oz	metals	39	C7198142

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Black, clay soil

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Janson landfill / F05-8707-024

CASE NUMBER 8001

SAMPLE #/STATION LOCATION S-4

SAMPLING DATE 9/2/87 SAMPLING TIME 12:15

ORGANIC TRAFFIC NUMBER E P 403

INORGANIC TRAFFIC NUMBER ME P 448

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 - 8oz	Organics	5-016840	F2231252
2 - 120ml	VOAS	41 42	D7188081
1 - 8oz	metals	43	C7198142

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Background

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE