WESTON • SPER
Suite 1501, Northbrook Office Court
666 West Dundee Road, Northbrook, IL 60062 • (312) 498-9094

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

Mr. Briand C. Wu, Acting Unit Chief
Emergency Response Section
Western Response Unit
U.S. Environmental Protection Agency
11th Floor
230 South Dearborn Street
Chicago, Illinois 60604

August 4, 1986

TAT-05-F-01043

Reference: Belvidere Landfill, Belvidere Illinois
TDD# 5-8607-11

Dear Mr. Wu:

On July 16, 1986 the Technical Assistance Team (TAT) was tasked by the U.S. Environmental Protection Agency (U.S. EPA) to conduct a site investigation of an abandoned drum site located adjacent to the Belvidere Municipal Landfill #1, in Belvidere, Illinois (Figure 1).

The following letter presents the findings of the Region V TAT pursuant to this task. This letter also includes details of past sampling activities, site photographs, threats posed to human health and the environment, and recommended actions along with their associated costs.

The abandoned drums are located (on property owned by the Boone County Conservation District) approximately 200 yards north of the Kishwaukee River adjacent to the western boundary of the Belvidere Municipal Landfill #1. The municipal landfill is located near Appleton Road just north of Spencer Park, and west of the city of Belvidere. (Figure 2)

On May 20, 1986, the U.S. EPA's Emergency Response Team (ERT) collected six representative samples of the materials present in the drums at this site. Subsequently, as directed by the U.S. EPA, the TAT conducted flash point analysis of these samples. Two of these samples which appeared similar to a paint waste revealed a flash point of 18.31°C and 15.53°C. Both of these samples exhibited ignitability characteristics well below the Resource Conservation Recovery Act (RCRA) standards. However the remaining four samples did not ignite when exposed to an open flame. Compositional analyses of the six samples by ERT are given in Attachment C.

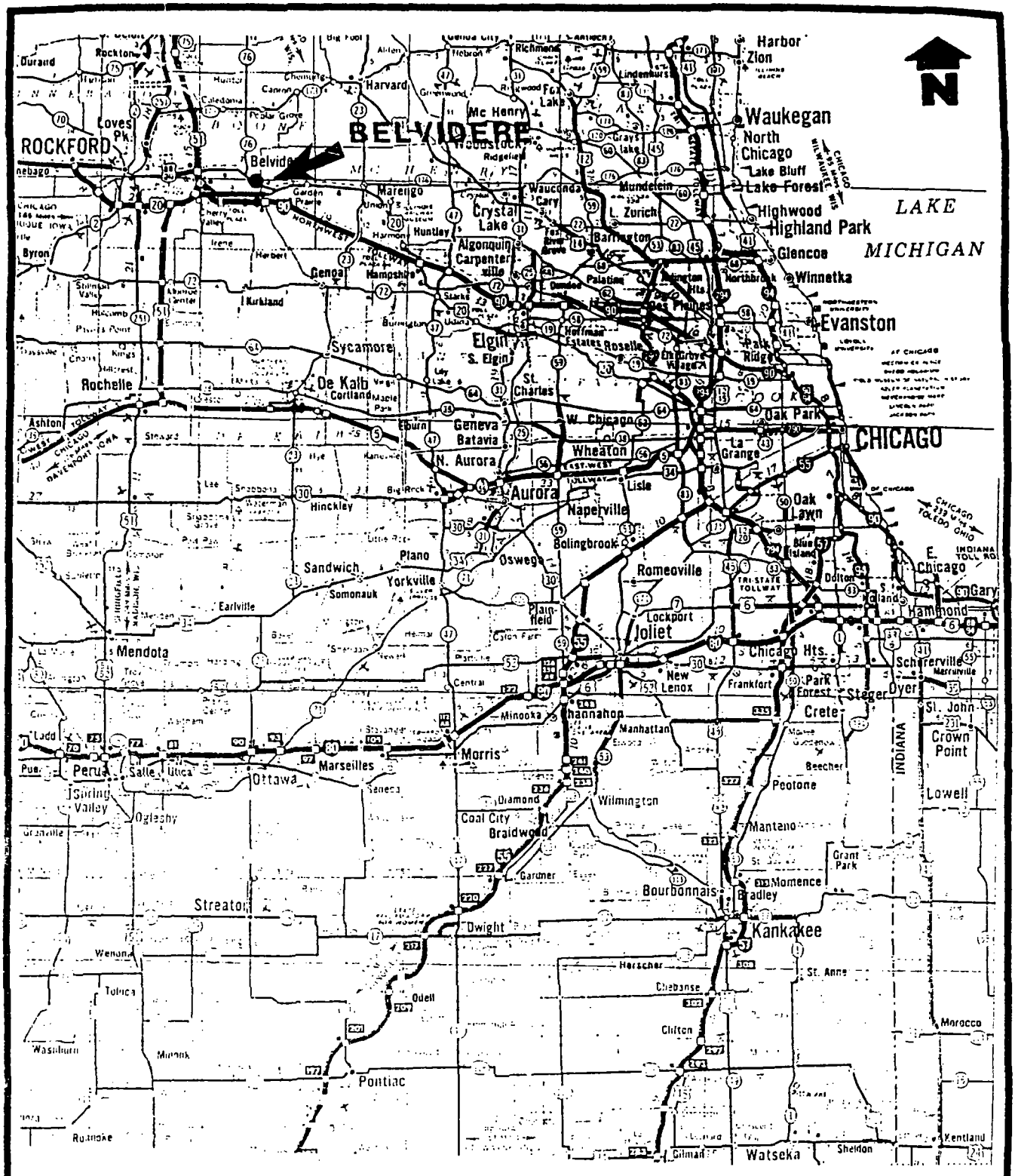


FIGURE 1: LOCATION MAP

SCALE: 1 INCH = 15 MILES

BELVIDERE DRUMS SITE

BELVIDERE, ILLINOIS

WESTON
DESIGNERS CONSULTANTS

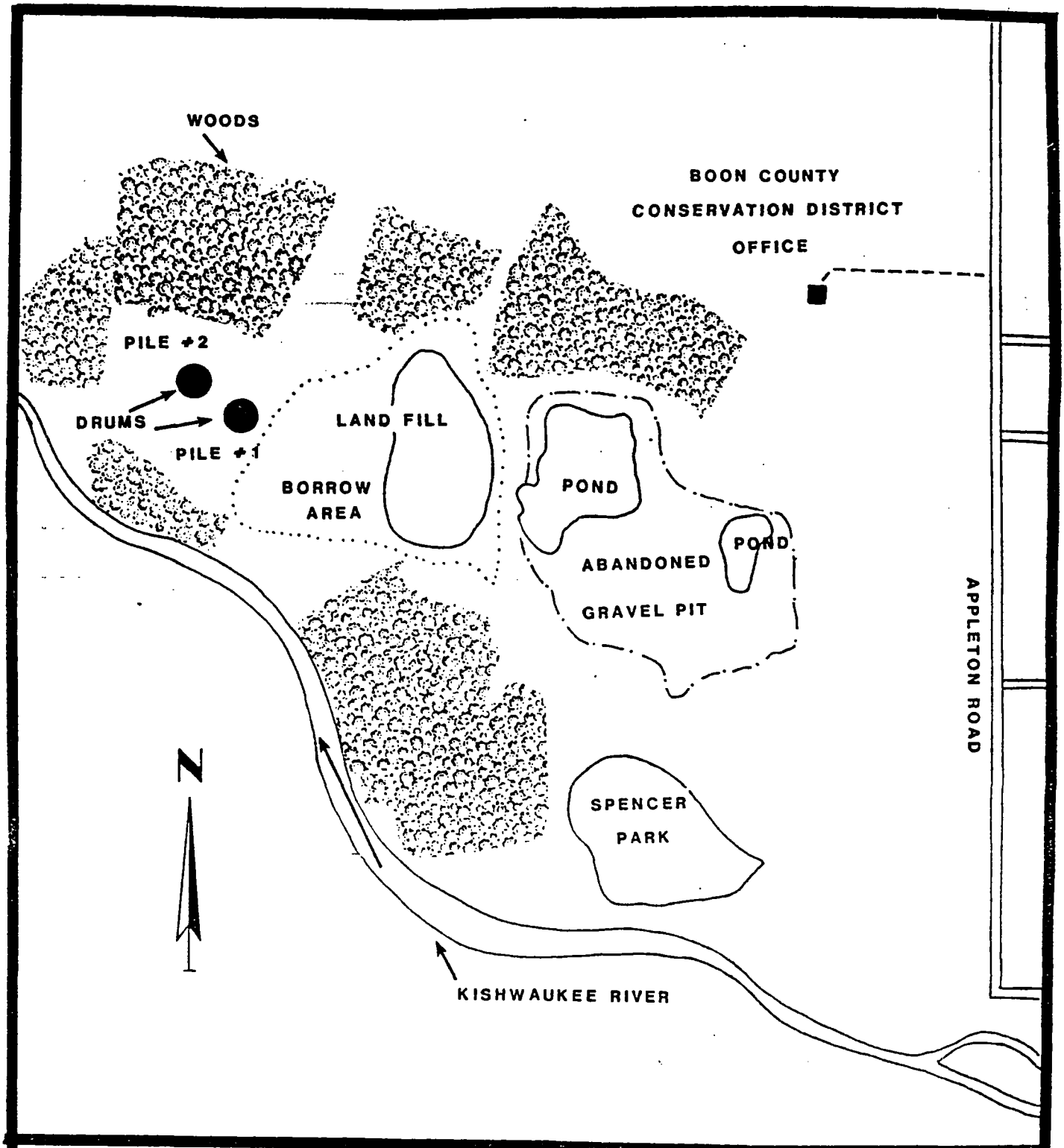


FIGURE 2: SITE MAP

SCALE: 1 INCH = 500 FEET

BELVIDERE DRUMS SITE

BELVIDERE, ILLINOIS

MAP ADAPTED FROM IEPA, 1981

WESTON
DESIGNERS CONSULTANTS

On July 24, 1986, an inspection of the abandoned drums was conducted by TAT members Curt Michols and S. Babusukumar along with U.S. EPA On-Scene Coordinators (OSC) Kenneth Wallace and Allison Hitner. After an initial briefing and a safety meeting, the TAT and the OSC donned Level C protection and conducted a survey of the drums and the surrounding surface soil. The approximately one-acre area containing the drums was heavily vegetated.

Upon entry, it was noted that the drums were in different stages of deterioration and were grouped together in 2 main piles with a distance of approximately 30 yards between the piles.

It was estimated that drum pile #1 contained 40 to 45 55-gallon drums and drum pile # 2 contained approximately 30 55-gallon drums. In addition to these two piles, a total of six drums were found scattered in different areas within a 100 yard perimeter of the two piles. Closer inspection of the drums indicated that approximately 25 drums contained material in them, and among these it is estimated that 10 drums contained a black oily liquid. The remaining drums contained various amounts of either solid or sludge-like material. Of the drums that contained material, few had developed holes and were slowly leaking onto the ground. In addition to the drums, an approximatley 50 square yard area of scrap metal which consisted mainly of rusted automobile body parts was also observed. Some of this scrap metal appeared to be stained with material which was similar to the contents of the drums. In addition to inspecting the drums, the ERT performed a Radiological Survey which did not exhibit any responses above the background level established offsite. During this site inspection, it was determined that the samples previously collected by the ERT were representative of the material on site. Therefore, as agreed by both the OSC and the TAT, no other samples were to be collected at this time.

After inspecting the drums, the TAT and OSC conducted a 200 yard perimeter survey of the site. The purpose of this survey was to locate any additional disposal evidence and to ascertain that no additional drums had been disposed of in the surrounding area. During this survey one isolated drum was found on the south bank of the Kishwaukee River approximately 200 yards south of the main drum piles. Due to the difficulty in getting across the river, closer inspection of the drum was not feasible at this time.

The Belvidere Drum site poses an imminent threat to both human health and the environment as defined within 40 CFR, Part 300 of the National Contingency Plan (NCP).

Due to the unrestricted access of the drum site, the close proximity to Spencer Park and the Kishwaukee River, a direct contact threat exists. As a result, children and adults can easily come in contact with and possibly be contaminated by the material within the drums. Due to the characteristics of solvents and paint waste, any human or animal contact with these materials can have adverse affects. In addition, due to the low flashpoints and relative flammability exhibited by the samples obtained by the ERT an imminent threat of fire or explosion exists if external ignition sources such as matches or air borne ashes and sparks from a nearby campfire are present. If material from the drums is ignited and an explosion exists, not only is there a direct threat to human life, but extensive property damage may result due to a rapid spreading of fire to the adjacent woodland area. A threat of impacting the Kishwaukee River exists due to the close proximity of the drum site to the river. During periods of heavy precipitation and snow melt (late winter - spring), when the river is at flood stage, there is a possibility of material from the drum site being flushed into the river. This would result in depositing any non-water soluble contaminants in the sediments and impacting the water quality of the river and aquatic life by downstream migration of contaminants. As this river is widely used for recreational purposes as well as food supply (fishing) any material from the drum site entering into the river can potentially contaminate the food chain and adversely affect both human health and the environment.

Due to the potential hazards associated with the drums at this sight, a removal action should be implemented. This action will include field compatibility testing of the drum material to determine compatible bulking schemes, bulking of the material and transportation and disposal of the contaminated material. This removal action is expected to entail two 10 hour working days at a total cost of approximately $30,300.00 based on Emergency Responses Clean-up Services (ERCS) rates. Table 1 contains a summary of the estimated costs and Attachment A presents an itemized listing of costs associated with the above mentioned removal action.

TABLE 1

SUMMARY OF TOTAL ESTIMATED COSTS
FOR REMOVAL AT BELVIDERE DRUM SITE
BELVIDERE, ILLINOIS

Item	Amount
Personnel	$ 3,745.20
Equipment	3,257.80
Materials	1,410.12
Disposal Analysis, Transportation and Disposal	17,212.50
	$25,625.62
TAT Costs	$ 1,300.00
U.S. EPA	600.00
	$27,525.62
10% Contingency	$ 2,752.56
	$30,278.18
	or say
	$30,300.00

If you should require any further information or have any questions, please contact us.

Very truly yours,

ROY F. WESTON, INC.

S. Babusukumar
Environmental Scientist

Scott D. Springer
Technical Assistance Team
Leader, Region V

SB/kvh

ATTACHMENT A

ITEMIZED COST ESTIMATES FOR REMOVAL ACTION
AT
BELVIDERE LANDFILL
BELVIDERE, ILLINOIS

Personnel

Item	Days	Amount
1 Response Manager @ $58.40/hr, OT $71.30/hr	2	$1,219.60
1 Equipment Operator, Level 2 @ $31.00/hr, OT $42.10/hr	2	664.40
2 Cleanup Technicians, Level 2 @ $25.70/hr, OT $35.10/hr	2	1,103.20
1 Truck Driver @ $21.00/hr, OT $30.40/hr	1	228.80
4 Per Diems @ $66.15/day/ea.	2	529.20
	Subtotal	$3,745.20

Equipment

Item	Days	Amount
1 Response Van @ $142.00/day	2	$ 284.00
Mileage @ 0.21/mile 200 miles round trip		42.00
1 Pickup Truck @ $62.00/day	2	124.00
Mileage @ 0.16/mile 200 miles round trip		32.00
Backhoe, Case 580 @ $236.00/day	2	472.00
1 OTR Tractor @ $301.00/day	1	301.00
Mileage @ 0.85/mile 200 miles round trip		170.00
1 Lowboy @ $60.00/day	1	60.00
1 Cascade System @ $56.00/day	2	112.00
1 Non-sparking Tool Set @ $55.00/day	2	110.00

Equipment (continued)

Item	Days	Amount
1 Barrel Cart @ $44.00/day	1	44.00
1 Drum Punch @ $60.00/day	2	120.00
3 Level B Protection @ $171.00/day/ea.	2	1026.00
Mobilization and Demobilization		360.80
	Subtotal	$3,257.80

Materials

Item	Amount
10 85-gallon overpacks	$1,079.62
2 Rolls of Visqueen @ $100.00/roll	200.00
25 glass tubes @ $2.22/ea.	55.50
300 feet of marking tape @ $25.00/100 ft.	75.00
Subtotal	$1,410.12

Disposal Analysis, Transportation and Disposal

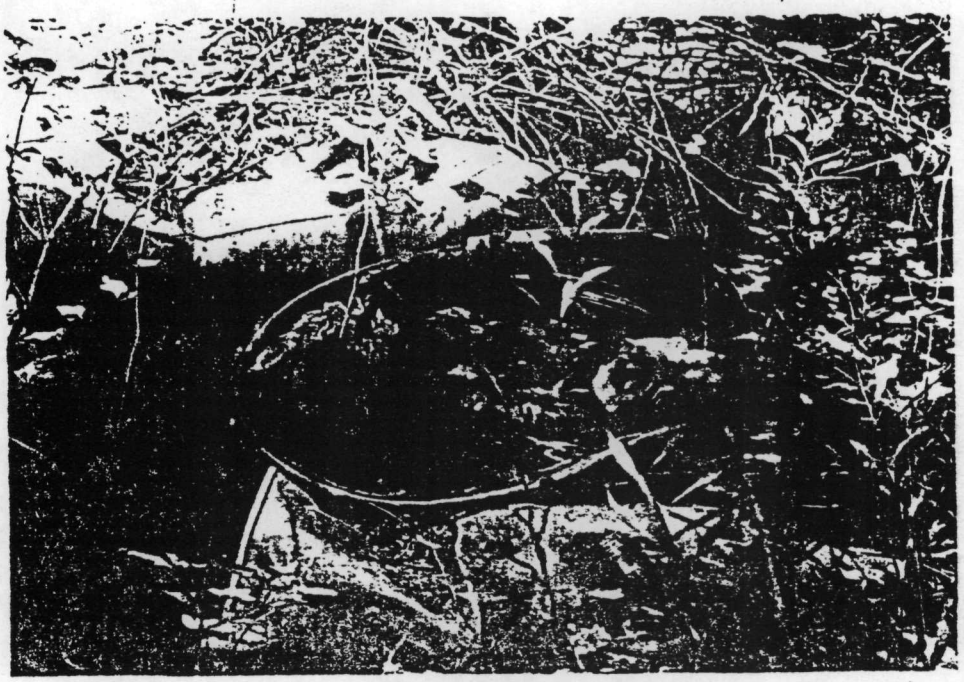
Item	Amount
1 Full scan for priority pollutants analysis for solid material - landfill @ $1,250.00/scan	$ 1,250.00
1 Incineration Analysis - includes incineration parameters and approval analysis for liquids @ $350.00/ea.	350.00
Transportation of Solids 2 loads at 700 mi/load @ $3.75/loaded mile	5,250.00
Transportation of Liquids 1 load at 70 miles @ $3.75/loaded mile	262.50

Disposal Analysis, Transportation and Disposal (continued)

Item	Amount
Disposal of Solid Material 50 cu yds = 60 tons @ $150.00/ton	9,000.00
Disposal of Liquids 550 gal. @ $2.00/gal.	1,100.00
Subtotal	$17,212.50
Total Estimated Costs	$25,625.62

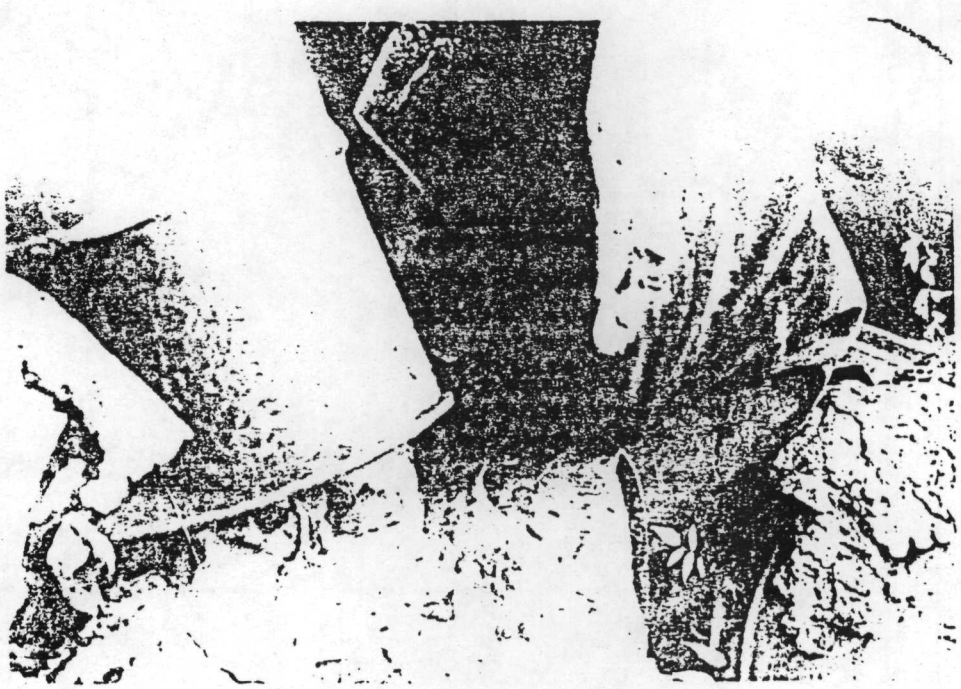
APPENDIX B

PHOTOGRAPHS



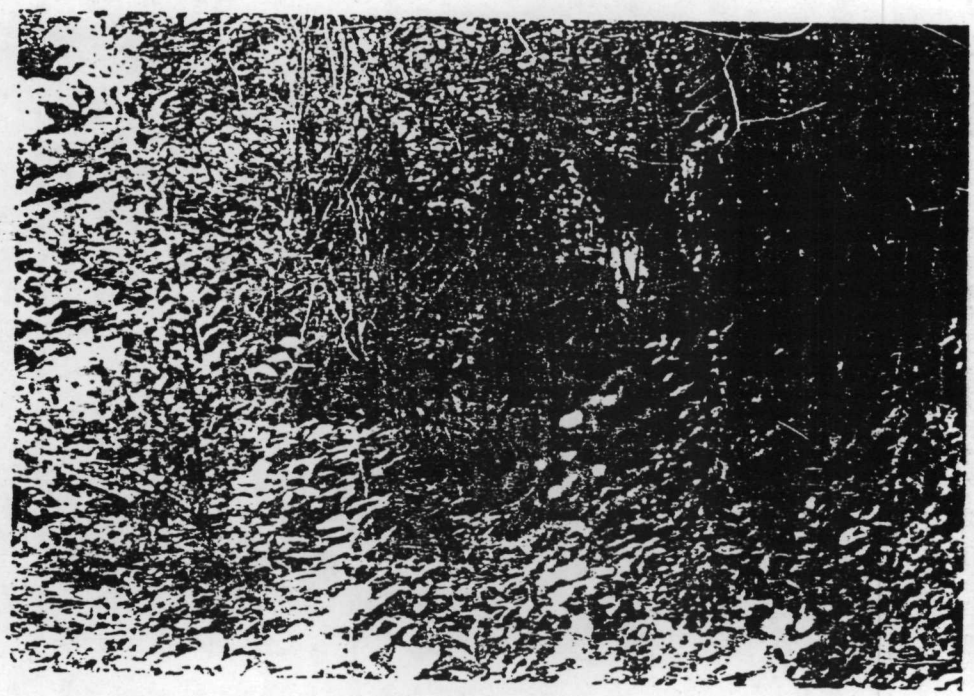
Belvidere Drums Site- Close-up of Drum Pile #1

Photograph by: Curt Michols Date: 07/24/86



Belvider Drums Site- Material in drums spilled on ground from pile #2.

Photograph by : Curt Michols Date: 07/24/86

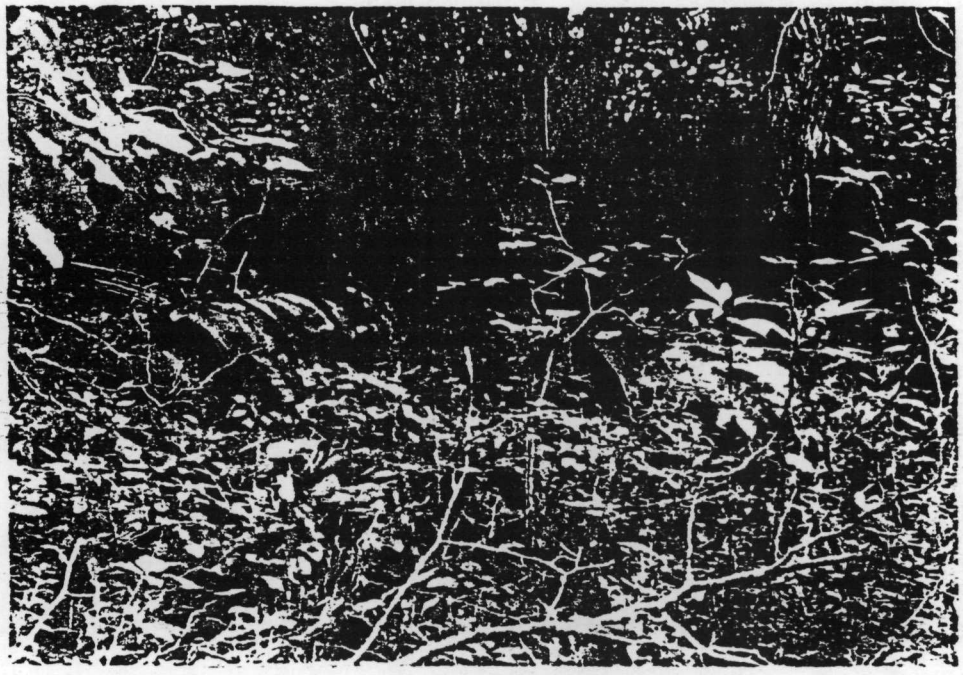


Belvidere Drums Site- Drum Pile #1; Facing north-east

Photograph by: Curt Michols Date: 07/24/86

Belvidere Drums Site- Drum Pile #2, Facing south west

Photograph by: Curt Michols Date: 07/24/86



Belvidere Drums Site- Isolated occurrence of drums approximately 25 yds south of drum pile #1

Photograph by: Curt Michols Date: 07/24/86

ATTACHMENT C

COMPOSITIONAL ANALYSES
OF SAMPLES COLLECTED BY ERT

FIELD DATA SHEET

Environmental Response Team, Environmental Protection Agency
Woodbridge Ave., Edison, N.J. 08837
(201) 321-6660

Location: Belmar

Collectors: South Thirtieth Street

Lab Number (Consec.#'s): NO 5614

Date Collected: Mo 11 Day 21 Yr 72

Time (24 hr): 1145

SOIL

Device	Soil Type
Auger	Rock
Core	Gravel
Split Spoon	Sand
Cylinder Cup	Clay
Spade	Silt
	Muck
	Loam
	Peat
	Color:

Depth: Ft. or In.

LAND

Upland-Dry
Lowland-Dry
Floodplain
Wetland
Gully

Slope > 15°
< 15°

VEGETATION

Old Field Residential
Wooded Industrial
Farmland Commercial

Herbaceous ____ %
Shrubs ____ %
Trees ____ %

DBH ___ In.

GROUNDWATER

Water Table Depth ____ Ft.
Sample Depth ____ Ft.
Color:
Odor:
Oil:
Device:

SURFACE WATER

Color: ____ Temp ____
Odor: ____ pH ____

STREAM Width ____ Ft.
Depth ____ Ft or In.
Velocity ____ Ft/Sec

FLOW DIRECTION ____

Pools ____ % Riffles ____ %

Device	Surface	Bottom %
Kemmerer	Clean	Ooze
Petersen	Oil	Sand
Surber	Garbage	Gravel
Manual	Trash	Clay
Net	Bubbles	Rubble
Seine	Dead Fish	Rock
Trowl	Sewage	Shell
Bucket	Ind. Waste	Organic
	Float. Solids	

SAMPLE PREPARATION

Container	Cleaning Procedure
Glass Jar	Low→High Concentration
Plastic Jar	Detergent Wash
Metal	Water Rinse
Acetate Core	Acetone Rinse
Paper Cap	Hexane Rinse
Teflon Cap	Other Solvent Rinse
Foil Cap	Specify:

Storage
Wet Ice
Ambient
Dry Ice

TRANSECT INFORMATION

Letter	Station #
	2

Compass Direction ____ — ____

Distance Between Stations ____ to ____ is ____ Ft

Remarks and Site Description

INTERNATIONAL TECHNOLOGY CORPORATION

Enviresponse, Inc
GSA Raritan Depot, Woodbridge Ave.
Building 209, Bay F
Edison, N. J. 08837
Attn. of: Ms. Janet Cullinane
N. J. Lab Certification ID# 12064

Job # 5702
Date:
Auth:
Lot #: 0485
Invoice #:
Sample Date: 5/21/86

	Sample #55914 A-05614, Liquid (ppm)	E. P. Toxicity Leachate (mg/L)	EPA Maximum Leachate Concentration (mg/L)
Cyanide	<1	-	-
Sulfide	40	-	-
Flash Point (°F)	73	-	-
Corrosivity (mmpy)	<0.01	-	-
Arsenic	-	0.03	5.0
Barium	-	<0.44	100.0
Cadmium	-	<0.03	1.0
Chromium	-	<0.5	5.0
Lead	-	0.05	5.0
Mercury	-	<0.05	0.2
Selenium	-	<0.01	1.0
Silver	-	2.9	5.0
Endrin	-	<1	0.02
Lindane	-	<1	0.4
Methoxychlor	-	<1	10.0
Toxaphene	-	<1	0.5
2,4-D	-	<0.01	10.0
2,4,5-TP	-	<0.01	1.0

ORGANICS ANALYSIS DATA SHEET SAMPLE #: B05614

LABORATORY: IT/CERR
LABORATORY ID: 36989EB2
MATRIX: ORGANIC LIQUIDS
CASE #/SAS #: IT-PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT-PAS-599999-05-07
DATE RECEIVED: 05/22/86

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS

LEVEL:	MED
DATE EXT/PREP:	06/12/86
DATE ANALYZED:	06/12/86
SPL-->EXTRACT:	4.005G+10ML MEOH--100ul:10 ml--100ul:10 ml 80ul+20ul MEOH:5
PH:	NA
% MOISTURE (NOT DEC.):	N/A
% MOISTURE (DEC.):	N/A
STANDARD ID:	MSVEB124
SENSITIVITY ID:	BFBEB097
UNITS:	UG/KG

* - USED FOR DRY WEIGHT CALCULATION

PP #	CAS #		CONC
45V	74-87-3	CHLOROMETHANE	20000000 U
46V	74-83-9	BROMOMETHANE	20000000 U
88V	75-01-4	VINYL CHLORIDE	20000000 U
16V	75-00-3	CHLOROETHANE	20000.000 U
44V	75-09-2	METHYLENE CHLORIDE	8000000 B
13H	67-64-1	ACETONE	32000.000 B
15H	75-15-0	CARBON DISULFIDE	8000.000 U
29V	75-35-4	1,1-DICHLOROETHENE	8000.000 U
13V	75-34-3	1,1-DICHLOROETHANE	8000.000 U
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	8000.000 U
23V	67-66-3	CHLOROFORM	8000.000 U
10V	107-06-2	1,2-DICHLOROETHANE	8000.000 U
14H	78-93-3	2-BUTANONE	59000.000 B
11V	71-55-6	1,1,1-TRICHLOROETHANE	8000.000 U
6V	56-23-5	CARBON TETRACHLORIDE	8000.000 U
19H	108-05-4	VINYL ACETATE	20000.000 U
48V	75-27-4	BROMODICHLOROMETHANE	8000.000 U
32V	78-87-5	1,2-DICHLOROPROPANE	8000.000 U
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	8000.000 U
87V	79-01-6	TRICHLOROETHENE	8000.000 U
51V	124-48-1	CHLORODIBROMOMETHANE	8000.000 U
14V	79-00-5	1,1,2-TRICHLOROETHANE	8000.000 U
4V	71-43-2	BENZENE	8000.000 U
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	8000.000 U
19V	110-75-8	2-CHLOROETHYLVINYL ETHER	20000.000 U
47V	75-25-2	BROMOFORM	8000.000 U
16H	519-78-6	2-HEXANONE	20000.000 U
17H	108-10-1	4-METHYL-2-PENTANONE	20000.000 U
85V	127-18-4	TETRACHLOROETHENE	8000.000 U
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	8000.000 U
86V	108-88-3	TOLUENE	20000.000 B
7V	108-90-7	CHLOROBENZENE	8000.000 U
38V	100-41-4	ETHYLBENZENE	73000.000 B
18H	100-42-5	STYRENE	8000.000 U
20H	95-47-6	TOTAL XYLENES	240000.000 B

ORGANICS ANALYSIS DATA SHEET SAMPLE #: B05614

LABORATORY: IT/CERR
LABORATORY ID: 36989CJ10
MATRIX: ~~Soil~~ Organic liquid
DATA RELEASE AUTHORIZED BY: (SN)

CASE #/SAS #: IT/PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT/PAS-599999-05-07
DATE RECEIVED: 05/22/86

SEMIVOLATILE COMPOUNDS (PAGE 1)

ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS

LEVEL:	MEDIUM	GPC	Y_	N✓
DATE EXT/PREP:	05/28/86	SEP. FUNNEL	Y_	N✓
DATE ANALYZED:	06/10/86	CONT. EXT.	Y_	N✓
SPL-->EXTRACT:	1.00G: 10ML--50UL: 1ML			
PH:	NA (SN)			
% MOISTURE (NOT DEC.):	~~0.00~~ ~~NSW~~ N/A			
% MOISTURE (DEC.):	~~NSW~~ N/A			
STANDARD ID:	BDCEJ122			
SENSITIVITY ID:	DFTEJ111			
UNITS:	UG/KG			

* - USED FOR DRY WEIGHT CALCULATION

PP #	CAS #		CONC
65A	108-95-2	PHENOL	2000000.U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	2000000.U
24A	95-57-8	2-CHLOROPHENOL	2000000.U
26B	541-73-1	1,3-DICHLOROBENZENE	2000000.U
27B	106-46-7	1,4-DICHLOROBENZENE	2000000.U
6H	100-51-6	BENZYL ALCOHOL	2000000.U
25B	95-50-1	1,2-DICHLOROBENZENE	2000000.U
2H	95-48-7	2-METHYLPHENOL	2000000.U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	2000000.U
3H	106-44-5	4-METHYLPHENOL	2000000.U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	2000000.U
12B	67-72-1	HEXACHLOROETHANE	2000000.U
56B	98-95-3	NITROBENZENE	2000000.U
54B	78-59-1	ISOPHORONE	2000000.U
57A	88-75-5	2-NITROPHENOL	2000000.U
34A	105-67-9	2,4-DIMETHYLPHENOL	2000000.U
1H	65-85-0	BENZOIC ACID	10000000.U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	2000000.U
31A	120-33-2	2,4-DICHLOROPHENOL	2000000.U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	2000000.U
55B	91-20-3	NAPHTHALENE	2000000.U
7H	106-47-8	4-CHLOROANILINE	2000000.U
52B	87-68-3	HEXACHLOROBUTADIENE	2000000.U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	2000000.U
9H	91-57-6	2-METHYLNAPHTHALENE	2000000.U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	2000000.U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	2000000.U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	10000000.U
20B	91-58-7	2-CHLORONAPHTHALENE	2000000.U
10H	88-74-4	2-NITROANILINE	10000000.U
71B	131-11-3	DIMETHYLPHTHALATE	2000000.U
77B	208-96-8	ACENAPHTHALENE	2000000.U

ORGANICS ANALYSIS DATA SHEET SAMPLE #: B05614

LABORATORY: IT/CERR
LABORATORY ID: 36989CJ10
MATRIX: ~~SOIL~~ Organic Liquid

CASE #/SAS #: IT/PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT/PAS-599999-05.07
DATE RECEIVED: 05/22/86

DATA RELEASE AUTHORIZED BY: (signature)

SEMIVOLATILE COMPOUNDS (PAGE 2)

ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS

LEVEL:	MEDIUM	GPC	Y_ N✓
DATE EXT/PREP:	05/28/86	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	06/10/86	CONT. EXT.	Y_ N✓
SPL-->EXTRACT:	1.00G: 10ML--50UL: 1ML		
PH:	N/A		
% MOISTURE (NOT DEC.):	~~0.00~~ ~~NSW~~ N/A		
% MOISTURE (DEC.):	~~NSW~~ N/A		
STANDARD ID:	BDCEJ122		
SENSITIVITY ID:	DFTEJ111		
UNITS:	UG/KG		

* - USED FOR DRY WEIGHT CALCULATION

PP #	CAS #		CONC
11H	99-09-2	3-NITROANILINE	10000000U
1B	83-32-9	ACENAPHTHENE	2000000U
59A	51-28-5	2,4-DINITROPHENOL	10000000U
58A	100-02-7	4-NITROPHENOL	10000000U
8H	132-64-9	DIBENZOFURAN	2000000U
35B	121-14-2	2,4-DINITROTOLUENE	2000000U
36B	606-20-2	2,6-DINITROTOLUENE	2000000U
70B	84-66-2	DIETHYLPHTHALATE	2000000U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	2000000U
80B	86-73-7	FLUORENE	2000000U
12H	100-01-6	4-NITROANILINE	10000000U
60A	534-52-1	4,6-DINITRO-O-CRESOL	10000000U
62B	86-30-6	N-NITROSODIPHENYLAMINE	2000000U
41B	101-55-3	4-BROMOPHENOXYBENZENE	2000000U
9B	118-74-1	HEXACHLOROBENZENE	2000000U
64A	87-86-5	PENTACHLOROPHENOL	10000000U
81B	85-01-8	PHENANTHRENE	2000000U
78B	120-12-7	ANTHRACENE	2000000U
68B	84-74-2	DI-N-BUTYLPHTHALATE	2000000U
39B	206-44-0	FLUORANTHENE	2000000U
84B	129-00-0	PYRENE	2000000U
67B	85-68-7	BUTYLBENZYLPHTHALATE	2000000U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	4000000U
72B	56-55-3	BENZO (A) ANTHRACENE	2000000U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	2000000U
76B	218-01-9	CHRYSENE	2000000U
69B	117-84-0	DI-N-OCTYLPHTHALATE	2000000U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	2000000U
73B	50-32-8	BENZO (A) PYRENE	2000000U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	2000000U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	2000000U
79B	191-24-2	BENZO (G,H,I) PERYLENE	2000000U

Sample #: B05614

Laboratory: IT/Cerritos
Lab Sample ID: B05614
Sample Matrix: Organic Liquid
Data Release Authorized by: PM

Case #/SAS #: IT PAS121
QC Report #: PAS-33
Contract #: IT/PAS-599999-05-07
Date Rec'd: 5-22-86

Organics Analysis Data Sheet
Pesticide/PCB's

Column # — (for MB's)

Sample Level: Medium
Date Extracted: 5-23-86
Date 1° Analyzed: 6-5-86
Spl->Extract: 2.00g → 10ml 10ml → 10ml
For Dilution: Hg, 4→5; 1→5; none
pH: N/A
% Moisture (Not Dec.): N/A
% Moisture (Decanted): N/A

1° Sample File ID: A5-PD-154-1044
1° Std File ID: A5-PD-154-1005, 1006, 1016
2° Sample File ID: B11-SM-160-1013
2° Std File ID: B11-SM-160-1005, 1006,

GPC Clean-up — Y ✓ N
Sep. Funnel Ext. — Y ✓ N
Cont. L-L Ext. — Y ✓ N
Sonication Ext. ✓ Y — N

Circle Units: (ug/Kg), ug/L

			Q
319-84-6	alpha-BHC	100U	
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I	↓	
60-57-1	Dieldrin	200U	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan Sulfate		
50-29-3	4,4'-DDT	↓	
72-43-5	Methoxychlor	1000U	
53494-70-5	Endrin Ketone	200U	
57-74-9	Chlordane	1000U	
8001-35-2	Toxaphene	2000U	
12674-11-2	Arochlor-1016	1000U	
11104-28-2	Arochlor-1221		
11141-16-5	Arochlor-1232		
53469-21-9	Arochlor-1242		
12672-29-6	Arochlor-1248	↓	
11097-69-1	Arochlor-1254	5300* ~~2000U~~ PM	1°
11096-82-5	Arochlor-1260	2000U	

ALL SOLID RESULTS ARE REPORTED ON DRY WEIGHT BASIS

Additional Sample Specific Qualifiers:
#3 Sample File ID: B11-SM-160-1013
#3 Std File ID: B11-SM-160-1005, 1006, 1016

1° - Primary Analysis
2° - Secondary Analysis
Q - (1° or 2°) Column used for Quantitation

V_i = Vol of ext inj (ul)
V_s = Vol of water ext'd (ml)
W_s = Wt of sample ext'd (g)
V_t = Vol of total ext (ul)

V_s N/A ml or
W_s 2.00 g
V_t 50,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg), ug/L

Compound	Conc. Sample	Q	Conc. Spiked	% Recovery
Dibutyl Chlorendate	~~84~~ 260	#3	500	52

* - Asterisked Values are outside QC Limits.
\# - _____ Recoveries due to Dilution.
s - _____ Recoveries due to Matrix Effects.

NA - Not Analyzed
NR - Not Reported
NS - Not Spiked

SAMPLE #: B03614

LABORATORY: IT/CERR
LABORATORY ID: 36989EB2
MATRIX: ORGANIC LIQUID

CASE #/SAS #: IT-PAS-12
GC REPORT #: PAS-33
CONTRACT #: IT-PAS-599994-05-07
DATE RECEIVED: 05/22/86

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

(ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS)

LEVEL:	MED
DATE EXT/PREP:	06/12/86
DATE ANALYZED:	06/12/86
SPL-->EXTRACT:	4.005G+10ML MEOH -- 100ul:10ml MEOH -- 10ul 10ml MEOH -- 50ul + 20ml MEOH:5ml
PH:	NA
% MOISTURE (NOT DEC.):	N/A
% MOISTURE (DEC.):	N/A
STANDARD ID:	MSVEB124
SENSITIVITY ID:	BFBEB097
UNITS:	UG/KG

* - USED FOR DRY WEIGHT CALCULATION

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	75900000	78100000	97
36989EB2	4-BROMOFLUOROBENZENE	79000000	78100000	101
	1,2-DICHLOROETHANE-D4	89600000	78100000	115

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	—	unknown	29	10,000,000
2	—	unknown	54	8,000,000
3	77-20-4	methylester acetic acid	110	7,000,000
4	—	Hydrocarbon	270	8,000,000
5	—	Hydrocarbon	379	6,000,000
6	—	Hydrocarbon	471	7,000,000
7	—	unknown	486	7,000,000
8	111-65-9	octane	547	20,000,000
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

LABORATORY: IT/CERR
LABORATORY ID: 36989CJ10
MATRIX: ~~SOIL~~ Organic Liquid (SN)

DATA RELEASE AUTHORIZED BY: [signature]

CASE #/SAS #: IT/PAS-12
QC REPORT #: PAS-53
CONTRACT #: IT/PAS-5999~~/05-0~~ 9-05-
DATE RECEIVED: 05/22/86 (SN)

SEMIVOLATILE COMPOUNDS
(ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS)

LEVEL:	MEDIUM	GPC	Y_ N✓
DATE EXT/PREP:	05/28/86	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	06/10/86	CONT. EXT.	Y_ N✓
SPL-->EXTRACT:	1.00G: 10ML--50UL: 1ML		
PH:	NA (SN)		
% MOISTURE (NOT DEC.):	~~0.00 NSW~~ N/A		
% MOISTURE (DEC.):	~~NSW~~ N/A		
STANDARD ID:	BDCEJ122		
SENSITIVITY ID:	DFTEJ111		
UNITS:	UG/KG		

\# - USED FOR DRY WEIGHT CALCULATION

SURROGATE SPIKE RECOVERIES

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	2000000. U	50900.	0 *#
	2-FLUOROBIPHENYL	2000000. U	50100.	0 *#
36989CJ10	P-TERPHENYL-D14	2000000. U	53000.	0 *#
	PHENOL-D5	2000000. U	103000.	0 *#
	2-FLUOROPHENOL	2000000. U	102000.	0 *#
	2,4,6-TRIBROMOPHENOL	2000000. U	102000.	0 *#

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
\# - U only RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	———	Xylenes	369	30 000 000
2	———	Hydrocarbon	390	20 000 000
3	98-82-8	(1-Methylethyl)-Benzene	471	2 000 000
4	———	Unknown	430	2 000 000
5	———	Hydrocarbon	443	1 000 000
6	———	Ethyl-methyl-Benzene Isomer	477	1 000 000
7				
8				
9				
10		~~Methylene Chloride/Acetone Reaction Products Reported in Method Blank~~		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Laboratory: IT/Carritos

Organics Analysis Data Sheet
Data Reporting Qualifiers

General Data Qualifiers:

Value - Concentration Found (Value ≥ DL)
DL - Detection Limit
U - Analyzed for but not detected (Reported Value is Detection Limit)
J - Estimated Value: Target Compound - 0 < Value < DL; or
Tent. ID's - A 1:1 response is assumed for Quantitation.
B - Compound found in Blank. Sample results are not Blank Corrected.
N/A - Not Analyzed
NR - Not Reported
NS - Not Spiked

Pesticide Qualifiers:

C - Confirmed by GC/MS; GC Quantitation Reported
** - Detected and Confirmed by GC below GC/MS DL;
GC Quantitation Reported
N - Not Confirmed by GC/MS; Attempted and unsuccessful
**N - GC/MS Confirmation attempted and unsuccessful because concentration
is < GC/MS DL; GC Quantitation reported
UN - GC/MS Confirmation attempted and unsuccessful although suspect
compound concentration is >GC/MS DL; GC/MS DL Reported
UNI - GC/MS Confirmation attempted and unsuccessful due to interferences
although suspect compound concentration is >GC/MS DL;
Adjusted GC/MS DL Reported
LID - Lost In Dilution; Sample was diluted so much that Dibutyl chlorendate
was Lost In Dilution.
CEP - Co-Eluting Peak; An apparent shift in Dibutyl chlorendate RT was
caused by a Co-Eluting Peak, not a true unacceptable RT Shift.

Surrogate and Spike Qualifiers:

* - Asterisked Values are outside QC Limits
# - High/Low Recoveries due to Dilution.
@ - High/Low Recoveries due to Matrix Effects.

Soil Sample Result Qualifiers:

% Moisture * - % Moisture value used for Dry Weight Calculations
NOTE: % Moisture(type) used in caluclation should match
Sample weight(type).

NSW - No Standing Water
%M(n) - % Moisture (Not Decanted)
%M(d) - % Moisture (Decanted)
g(n) - Sample weight taken from sample which was Not Decanted
g(d) - Sample weight taken from sample which was Decanted

SOIL MS/MSD RECOVERY

Case #/SAS #: IT/PAS-12 | Laboratory: IT/Cerritos | Contract #: IT/PAS-599999-0
Level: Medium | Quality Control Report
Matrix: (88) Soil Organic liquid (SN) | Matrix Spike(MS and MSD)
QC Report #: PAS-33 | % Recovery and RPD Summary | Units: ug/Kg

Fraction	Compound	ug/Kg Spiked	Conc. Sample	Conc. MS	% Rec MS	Conc. MSD	% Rec MSD	RPD	QC Limits * RPD	QC Limits * Recovery
VOA SMO Sample #	1,1-Dichloroethene								< 14	59-172
	Trichloroethene								< 24	62-137
	Chlorobenzene								< 21	60-133
	Toluene								< 21	59-139
	Benzene								< 21	66-142
B/N SMO Sample # 805614	1,2,4-Trichlorobenzene	113000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 23	38-107
	Acenaphthene	105000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 19	31-137
	2,4-Dinitrotoluene	105000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 47	28- 89
	Pyrene	102000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 36	35-142
	N-Nitroso-di-n-propylamine	106000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 38	41-126
	1,4-Dichlorobenzene	101000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 27	28-104
Acid SMO Sample # 805614	Pentachlorophenol	202000	10,000,000 U	10,000,000 U	0 * #	10,000,000 U	0 * #	0	< 47	17-109
	Phenol	207000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 35	26- 90
	2-Chlorophenol	220000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 50	25-102
	4-Chloro-3-methylphenol	201000	2,000,000 U	2,000,000 U	0 * #	2,000,000 U	0 * #	0	< 33	26-103
	4-Nitrophenol	198000	10,000,000 U	10,000,000 U	0 * #	10,000,000 U	0 * #	0	< 50	11-114
Pest. SMO Sample #	Lindane (gamma-BHC)								< 50	46-127
	Heptachlor								< 31	35-130
	Aldrin								< 43	34-132
	Dieldrin								< 38	31-134
	Endrin								< 45	42-139
	4,4'-DDT								< 50	23-134

* Asterisked Values are outside QC Limits.
# 10 (U) Recoveries due to Dilution.
$ _____ Recoveries due to Matrix Effects.

$$RPD = \frac{|MS - MSD|}{\left(\frac{MS + MSD}{2}\right)} \times 100$$

NA - Not Analyzed
NR - (Spiked but) Not Reported
NS - Not Spiked

RPD: VOA's — out of — outside QC Limits
B/N's 0 out of 6 outside QC Limits
Acids 0 out of 5 outside QC Limits
Pests — out of — outside QC Limits

Recovery: VOA's — out of — outside QC Limits
B/N's 12 out of 12 outside QC Limits
Acids 10 out of 10 outside QC Limits
Pests — out of — outside QC Limits

Comments: _____

Rev 8/85

Case #/SAS #: IT /PAS-12
Level: Medium
Matrix: Organic Liquid
QC Report #: PAS-33

Laboratory: IT/Cerritos
Quality Control Report
Matrix Spike(MS and MSD)
Summary of Unspiked HSL's

Contract #: IT/PAS-599999-05-07
Sample #:
Circle Units: ug/Kg, ug/L

Fraction	Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
BNA	NONE FOUND	2,000,000 u	2,000,000 u	2,000,000 u	Ø

* Asterisked Values are outside QC Limits.

Note: This page lists compounds on the HSL which were nound in the Sample, MS, and/or MSD. It does not include Tentatively Identified compounds which may have been found in the Sample.

$$RPD = \frac{|MS - MSD|}{\left(\frac{MS + MSD}{2}\right)} \times 100$$

Rev 12/84

FIELD DATA SHEET

Environmental Response Team, Environmental Protection Agency
Woodbridge Ave., Edison, N.J. 08837
(201) 321-6660

Location: _____

Collectors: _____

Lab Number (Consec.#'s) NO 5615 | Date Collected Mo / Day / Yr | Time (24 hr)

SOIL

Device	Soil Type
Auger	Rock
Core	Gravel
Split Spoon	Sand
Cylinder Cup	Clay
Spade	Silt
	Muck
	Loam
	Peat
	Color: _____

Depth _____ Ft. or In.

LAND

Upland-Dry
Lowland-Dry
Floodplain
Wetland
Gully

Slope > 15°
Slope < 15°

VEGETATION

Old Field / Residential
Wooded / Industrial
Farmland / Commercial

Herbaceous _____ %
Shrubs _____ %
Trees _____ %

DBH _____ In.

GROUNDWATER

Water Table Depth _____ Ft.

Sample Depth _____ Ft.

Color: _____
Odor: _____
Oil: _____
Device: _____

SURFACE WATER

Color: _____ Temp _____
Odor: _____ pH _____

STREAM Width _____ Ft.
Depth _____ Ft or In.
Velocity _____ Ft/Sec

FLOW DIRECTION _____

Pools _____ % Riffles _____ %

Device	Surface	Bottom %
Kemmerer	Clean	Ooze
Petersen	Oil	Sand
Surber	Garbage	Gravel
Manual	Trash	Clay
Net	Bubbles	Rubble
Seine	Dead Fish	Rock
Trowl	Sewage	Shell
Bucket	Ind. Waste	Organic
	Float. Solids	

SAMPLE PREPARATION

Container	Cleaning Procedure
Glass Jar	Low → High Concentration
Plastic Jar	Detergent Wash
Metal	Water Rinse
Acetate Core	Acetone Rinse
Paper Cap	Hexane Rinse
Teflon Cap	Other Solvent Rinse
Foil Cap	Specify:

Storage
Wet Ice
Ambient
Dry Ice

TRANSECT INFORMATION

Letter	Station #

Compass Direction _____ — _____

Distance Between Stations _____ to _____ is _____ Ft

Remarks and Site Description

INTERNATIONAL TECHNOLOGY CORPORATION

Envisponse, Inc
GSA Raritan Depot, Woodbridge Ave.
Building 209, Bay F
Edison, N. J. 08837
Attn. of: Ms. Janet Cullinane
N. J. Lab Certification ID# 12064

Job # 5702
Date:
Auth:
Lot #: 0485
Invoice #:
Sample Date: 5/21/86

	Sample #55915 A-05615, Liquid (ppm)	E. P. Toxicity Leachate (mg/L)	EPA Maximum Leachate Concentration (mg/L)
Cyanide	<1	-	-
Sulfide	24	-	-
Flash Point (°F)	<69	-	-
Corrosivity (mmpy)	<0.01	-	-
Arsenic	-	<0.01	5.0
Barium	-	0.17	100.0
Cadmium	-	0.02	1.0
Chromium	-	4.8	5.0
Lead	-	<0.05	5.0
Mercury	-	<0.002	0.2
Selenium	-	<0.01	1.0
Silver	-	0.01	5.0
Endrin	-	<0.01	0.02
Lindane	-	<0.01	0.4
Methoxychlor	-	<0.01	10.0
Toxaphene	-	<0.01	0.5
2,4-D	-	<0.01	10.0
2,4,5-TP	-	<0.01	1.0

ORGANICS ANALYSIS DATA SHEET SAMPLE #: B05615

LABORATORY: IT/CERR
LABORATORY ID: 36989EB12
MATRIX: ORGANIC LIQUIDS

CASE #/SAS #: IT-PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT-PAS-599999-05-07
DATE RECEIVED: 05/22/86

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS

LEVEL:	MED
DATE EXT/PREP:	06/13/86
DATE ANALYZED:	06/13/86
SPL-->EXTRACT:	4.015G+10ML MEOH--100ul:10ml MEOH--100
PH:	NA
% MOISTURE (NOT DEC.):	N/A
% MOISTURE (DEC.):	N/A
STANDARD ID:	MSVEB130
SENSITIVITY ID:	BFBEB101
UNITS:	UG/KG

10ml--5ml+5ml

* - USED FOR DRY WEIGHT CALCULATION

PP #	CAS #		CONC
45V	74-87-3	CHLOROMETHANE	30000000 U
46V	74-83-9	BROMOMETHANE	30000000 U
88V	75-01-4	VINYL CHLORIDE	30000000 U
16V	75-00-3	CHLOROETHANE	30000000 U
44V	75-09-2	METHYLENE CHLORIDE	6100000 JB
13H	67-64-1	ACETONE	44000000 B
15H	75-15-0	CARBON DISULFIDE	10000000 U
29V	75-35-4	1,1-DICHLOROETHENE	10000000 U
13V	75-34-3	1,1-DICHLOROETHANE	10000000 U
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	10000000 U
23V	67-66-3	CHLOROFORM	10000000 U
10V	107-06-2	1,2-DICHLOROETHANE	10000000 U
14H	78-93-3	2-BUTANONE	65000000 B
11V	71-55-6	1,1,1-TRICHLOROETHANE	10000000 U
6V	56-23-5	CARBON TETRACHLORIDE	10000000 U
19H	108-05-4	VINYL ACETATE	30000000 U
48V	75-27-4	BROMODICHLOROMETHANE	10000000 U
32V	78-87-5	1,2-DICHLOROPROPANE	10000000 U
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	10000000 U
87V	79-01-6	TRICHLOROETHENE	10000000 U
51V	124-48-1	CHLORODIBROMOMETHANE	10000000 U
14V	79-00-5	1,1,2-TRICHLOROETHANE	10000000 U
4V	71-43-2	BENZENE	10000000 U
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	10000000 U
19V	110-75-8	2-CHLOROETHYLVINYL ETHER	30000000 U
47V	75-25-2	BROMOFORM	10000000 U
16H	519-78-6	2-HEXANONE	30000000 U
17H	108-10-1	4-METHYL-2-PENTANONE	30000000 U
85V	127-18-4	TETRACHLOROETHENE	10000000 U
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	10000000 U
86V	108-88-3	TOLUENE	30000000 B
7V	108-90-7	CHLOROBENZENE	10000000 U
38V	100-41-4	ETHYLBENZENE	51000000
18H	100-42-5	STYRENE	10000000 U
20H	95-47-6	TOTAL XYLENES	270000000

ORGANIC ANALYSIS DATA SHEET SAMPLE #: 505615

LABORATORY: IT/CERR
LABORATORY ID: 36989CJ13
MATRIX: ~~SOIL~~ Organic liquid SN
DATA RELEASE AUTHORIZED BY: [signature]

CASE #/SAS #: IT/PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT/PAS-599999-05-07
DATE RECEIVED: 05/22/86

SEMIVOLATILE COMPOUNDS (PAGE 1)

ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS

LEVEL: MEDIUM
DATE EXT/PREP: 05/28/86
DATE ANALYZED: 06/10/86
SPL-->EXTRACT: 100.G:10ML--50UL:1ML
PH: NA N/A SN
% MOISTURE (NOT DEC.): ~~0.00~~ ~~NS~~
% MOISTURE (DEC.): ~~NSW~~ N/A
STANDARD ID: BDCEJ122
SENSITIVITY ID: DFTEJ111
UNITS: UG/KG

GPC Y_ N✓
SEP. FUNNEL Y_ N✓
CONT. EXT. Y_ N✓

* - USED FOR DRY WEIGHT CALCULATION

PP #	CAS #		CONC
====	=====		====
65A	108-95-2	PHENOL	2000000U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	2000000U
24A	95-57-8	2-CHLOROPHENOL	2000000U
26B	541-73-1	1,3-DICHLOROBENZENE	2000000U
27B	106-46-7	1,4-DICHLOROBENZENE	2000000U
6H	100-51-6	BENZYL ALCOHOL	2000000U
25B	95-50-1	1,2-DICHLOROBENZENE	2000000U
2H	95-48-7	2-METHYLPHENOL	2000000U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	2000000U
3H	106-44-5	4-METHYLPHENOL	2000000U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	2000000U
12B	67-72-1	HEXACHLOROETHANE	2000000U
56B	98-95-3	NITROBENZENE	2000000U
54B	78-59-1	ISOPHORONE	2000000U
57A	88-75-5	2-NITROPHENOL	2000000U
34A	105-67-9	2,4-DIMETHYLPHENOL	2000000U
1H	65-85-0	BENZOIC ACID	10000000U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	2000000U
31A	120-83-2	2,4-DICHLOROPHENOL	2000000U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	2000000U
55B	91-20-3	NAPHTHALENE	2000000U
7H	106-47-8	4-CHLOROANILINE	2000000U
52B	87-68-3	HEXACHLOROBUTADIENE	2000000U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	2000000U
9H	91-57-6	2-METHYLNAPHTHALENE	2000000U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	2000000U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	2000000U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	10000000U
20B	91-58-7	2-CHLORONAPHTHALENE	2000000U
10H	88-74-4	2-NITROANILINE	10000000U
71B	131-11-3	DIMETHYLPHTHALATE	2000000U
77B	208-96-8	ACENAPHTHALENE	2000000U

ORGANICS ANALYSIS DATA SHEET SAMPLE #: 036613

LABORATORY: IT/CERR
LABORATORY ID: 36989CJ13
MATRIX: SN ~~SOIL~~ Organic liquid

CASE #/SAS #: IT/PAS-12
GC REPORT #: PAS-33
CONTRACT #: IT/PAS-599999-05-07
DATE RECEIVED: 05/22/86

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 2)

ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS

LEVEL:	MEDIUM	GPC	Y_ N✓
DATE EXT/PREP:	05/28/86	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	06/10/86	CONT. EXT.	Y_ N✓
SPL-->EXTRACT:	100. G: 10ML--50UL: 1ML		
PH:	NA		
% MOISTURE (NOT DEC.):	~~0.00~~ ~~NSW~~ N/A (SN)		
% MOISTURE (DEC.):	~~NSW~~ N/A		
STANDARD ID:	BDCEJ122		
SENSITIVITY ID:	DFTEJ111		
UNITS:	UG/KG		

* - USED FOR DRY WEIGHT CALCULATION

PP #	CAS #		CONC
11H	99-09-2	3-NITROANILINE	10000000U
1B	83-32-9	ACENAPHTHENE	2000000U
59A	51-28-5	2,4-DINITROPHENOL	10000000U
58A	100-02-7	4-NITROPHENOL	10000000U
8H	132-64-9	DIBENZOFURAN	2000000U
35B	121-14-2	2,4-DINITROTOLUENE	2000000U
36B	606-20-2	2,6-DINITROTOLUENE	2000000U
70B	84-66-2	DIETHYLPHTHALATE	2000000U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	2000000U
80B	86-73-7	FLUORENE	2000000U
12H	100-01-6	4-NITROANILINE	10000000U
60A	534-52-1	4,6-DINITRO-O-CRESOL	10000000U
62B	86-30-6	N-NITROSODIPHENYLAMINE	2000000U
41B	101-55-3	4-BROMOPHENOXYBENZENE	2000000U
9B	118-74-1	HEXACHLOROBENZENE	2000000U
64A	87-86-5	PENTACHLOROPHENOL	10000000U
81B	85-01-8	PHENANTHRENE	2000000U
78B	120-12-7	ANTHRACENE	2000000U
68B	84-74-2	DI-N-BUTYLPHTHALATE	2000000U
39B	206-44-0	FLUORANTHENE	2000000U
84B	129-00-0	PYRENE	2000000U
67B	85-68-7	BUTYLBENZYLPHTHALATE	2000000U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	4000000U
72B	56-55-3	BENZO (A) ANTHRACENE	2000000U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	2000000U
76B	218-01-9	CHRYSENE	2000000U
69B	117-84-0	DI-N-OCTYLPHTHALATE	2000000U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	2000000U
73B	50-32-8	BENZO (A) PYRENE	2000000U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	2000000U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	2000000U
79B	191-24-2	BENZO (G,H,I) PERYLENE	2000000U

Sample #: B05615

Laboratory: IT/Carritos
Lab Sample ID: B05615
Sample Matrix: ~~Soil~~ Organic Liquid
Data Release Authorized by: PM/MS

Case #/SAS #: ITPAS-121
QC Report #: PAS-33
Contract #: ITPAS-599999-05-07
Date Rec'd: 5-28-96

Organics Analysis Data Sheet
Pesticide/PCB's

Column # — (for HB's)

Sample Level: Medium
Date Extracted: 5-29-96
Date 1° Analyzed: 6-4-96
Spl->Extract: 2.01g →10ml; 10ml →10ml
For Dilution: Hg; Y → 10
pH: N/A
% Moisture (Not Dec.): N/A
% Moisture (Decanted): N/A

1° Sample File ID: AS-90-154-1037
1° Std File ID: AS-90-154-1005, 100.
2° Sample File ID: N/A
2° Std File ID:

GPC Clean-up __ Y ✓ N
Sep. Funnel Ext. __ Y ✓ N
Cont. L-L Ext. __ Y ✓ N
Sonication Ext. ✓ Y __ N

Circle Units: (ug/Kg), ug/L

			Q
319-84-6	alpha-BHC	200U	
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin	500U	
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan Sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor	2000U	
53494-70-5	Endrin Ketone	500U	
57-74-9	Chlordane	20000U	
8001-35-2	Toxaphene	5000U	
12674-11-2	Arochlor-1016	20000U	
11104-28-2	Arochlor-1221		
11141-16-5	Arochlor-1232		
53469-21-9	Arochlor-1242		
11672-29-6	Arochlor-1248		
11097-69-1	Arochlor-1254	5000U	
11096-82-5	Arochlor-1260		

ALL SOLID RESULTS ARE REPORTED ON DRY WEIGHT BASIS

Additional Sample Specific Qualifiers:

1° - Primary Analysis
2° - Secondary Analysis
Q - (1° or 2°) Column used for Quantitation

V_i = Vol of ext inj (ul)
V_a = Vol of water ext'd (ml)
W_s = Wt of sample ext'd (g)
V_t = Vol of total ext (ul)

V_a N/A ml or
W_s 2.01 g
V_t 100,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg), ug/L

Compound	Conc. Sample	Q	Conc. Spiked	% Recovery
Dibutyl Chlorendate	510	1°	500	102

* - Asterisked Values are outside QC Limits.
\- _____ Recoveries due to Dilution.
\- _____ Recoveries due to Matrix Effects.

NA - Not Analyzed
NR - Not Reported
NS - Not Spiked

VOLATILE ANALYSIS DATA SHEET SAMPLE #: EB3612

LABORATORY: IT/CERR
LABORATORY ID: 36989EB12
MATRIX: ORGANIC LIQUIDS

CASE #/SAS #: IT-PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT-PAS-599999-05-07
DATE RECEIVED: 05/22/86

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

(ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS)

LEVEL:	MED
DATE EXT/PREP:	06/13/86
DATE ANALYZED:	06/13/86
SPL-->EXTRACT:	4.015G+10ML MEOH -- 100ul: 10ml MEOH -- 100 ul
PH:	NA — 10ml MEOH -- 50ul + 50ul
% MOISTURE (NOT DEC.):	NA — MEOH: 5ml
% MOISTURE (DEC.):	NA
STANDARD ID:	MSVEB130
SENSITIVITY ID:	BFBEB101
UNITS:	UG/KG

* - USED FOR DRY WEIGHT CALCULATION

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	118000000	125000000	94
36989EB12	4-BROMOFLUOROBENZENE	120000000	125000000	96
	1,2-DICHLOROETHANE-D4	133000000	125000000	106

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	—	unknown	35	20,000,000
2	—	unknown	57	10,000,000
3	—	unknown	271	25,000,000
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

LABORATORY: IT/CERR
LABORATORY ID: 36989CJ13
MATRIX: ~~SOIL~~ (SN) Organic liquid

DATA RELEASE AUTHORIZED BY:

CASE #/SAS #: IT/PAS-12
QC REPORT #: PAS-33
CONTRACT #: IT/PAS-599999-05-(
DATE RECEIVED: 05/22/86

SEMIVOLATILE COMPOUNDS
(ALL SOLID RESULTS REPORTED ON A DRY WEIGHT BASIS)

LEVEL:	MEDIUM	GPC	Y_ N✓
DATE EXT/PREP:	05/28/86	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	06/10/86	CONT. EXT.	Y_ N✓
SPL-->EXTRACT:	100. G: 10ML--50UL: 1ML		
PH:	NA		
% MOISTURE (NOT DEC.):	~~0.00~~ ~~N/A~~		(SN)
% MOISTURE (DEC.):	~~NSW~~ N/A		
STANDARD ID:	BDCEJ122		
SENSITIVITY ID:	DFTEJ111		
UNITS:	UG/KG		

* - USED FOR DRY WEIGHT CALCULATION

SURROGATE SPIKE RECOVERIES

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	2000000. U	50900.	0 * #
	2-FLUOROBIPHENYL	2000000. U	50100.	0 * #
36989CJ13	P-TERPHENYL-D14	2000000. U	53000.	0 * #
	PHENOL-D5	2000000. U	103000.	0 * #
	2-FLUOROPHENOL	2000000. U	102000.	0 * #
	2,4,6-TRIBROMOPHENOL	2000000. U	102000.	0 * #

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - LOW RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	100-41-4	Ethyl benzene	365	40,000
2	-	xylenes	381	80,000
3	-	Hydrocarbon	384	5,000
4	-	xylenes	410	8,000
5	-	Hydrocarbon	424	5,000
6	-	Unknown	459	2,000
7				
8				
9				
10		Methylene Chloride/Acetone Reaction Products		
11		Reported in Method Blank		
12				
13				
14				
15				
16				
17				
18				
19				
20				

Laboratory: IT/Carritos

Organics Analysis Data Sheet
Data Reporting Qualifiers

General Data Qualifiers:

Value - Concentration Found (Value ≥ DL)
DL - Detection Limit
U - Analyzed for but not detected (Reported Value is Detection Limit)
J - Estimated Value: Target Compound - 0 < Value < DL; or
Tent. ID's - A 1:1 response is assumed for Quantitation.
B - Compound found in Blank. Sample results are not Blank Corrected.
N/A - Not Analyzed
NR - Not Reported
NS - Not Spiked

Pesticide Qualifiers:

C - Confirmed by GC/MS; GC Quantitation Reported
** - Detected and Confirmed by GC below GC/MS DL;
GC Quantitation Reported
N - Not Confirmed by GC/MS; Attempted and unsuccessful
**N - GC/MS Confirmation attempted and unsuccessful because concentration is < GC/MS DL; GC Quantitation reported
UN - GC/MS Confirmation attempted and unsuccessful although suspect compound concentration is >GC/MS DL; GC/MS DL Reported
UNI - GC/MS Confirmation attempted and unsuccessful due to interferences although suspect compound concentration is >GC/MS DL;
Adjusted GC/MS DL Reported
LID - Lost In Dilution; Sample was diluted so much that Dibutyl chlorendate was Lost In Dilution.
CEP - Co-Eluting Peak; An apparent shift in Dibutyl chlorendate RT was caused by a Co-Eluting Peak, not a true unacceptable RT Shift.

Surrogate and Spike Qualifiers:

* - Asterisked Values are outside QC Limits
# - High/Low Recoveries due to Dilution.
@ - High/Low Recoveries due to Matrix Effects.

Soil Sample Result Qualifiers:

% Moisture * - % Moisture value used for Dry Weight Calculations
NOTE: % Moisture(type) used in caluclation should match Sample weight(type).

NSW - No Standing Water
%M(n) - % Moisture (Not Decanted)
%M(d) - % Moisture (Decanted)
g(n) - Sample weight taken from sample which was Not Decanted
g(d) - Sample weight taken from sample which was Decanted

Case #/SAS #: IT PAS-17
Level: Medium
Matrix: (Soil) Organic Liquid
QC Report #: PAS-33

Laboratory: IT/Cerritos
Quality Control Report
Matrix Spike(MS and MSD)
% Recovery and RPD Summary

Contract #: IT/PAS-59999-05-
Sample #: B05615 2E
Units: ug/kg

Fraction	Compound	ug/Kg Spiked	Conc. Sample	Conc. MS	% Rec. MS	Conc. MSD	% Rec. MSD	RPD	QC Limits * RPD	QC Limits * Recovery
Pest. SMO Sample # B05615C6	Lindane (gamma-BHC)	1005	0 (200U)	1090	109	1090	109	0	<50	46-127
	Heptachlor	1040	0 (200U)	906	87	932	90	3	<31	35-130
	Aldrin	1005	0 (200U)	900	90	906	90	0	<43	34-132
	Dieldrin	2550	0 (500U)	2780	109	2730	107	2	<38	31-134
	Endrin	2505	0 (500U)	2450	98	2460	98	0	<45	42-139
	4,4'-DDT	2490	0 (500U)	2430	100	2560	103	3	<50	23-134
	Dibutyl chlorendate **	506	510	250J	50	3000U	0 #	100	—	20-150

* Asterisked Values are outside QC Limits.
** Advisory Limits.
\# Low Recoveries due to Dilution.
$ _____ Recoveries due to Matrix Effects.

$$RPD = \frac{|MS - MSD|}{\left(\frac{MS + MSD}{2}\right)} \times 100$$

NA - Not Analyzed
NR - (Spiked but) Not Reported
NS - Not Spiked

RPD: Pests 0 out of 7 outside QC Limits

Recovery: Pests 1 out of 14 outside QC Limits

Comments: _____

Summary of Unspiked HSL's

Fraction	Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
Pest.	B-BHC	200U	700	710	15

Note: This section lists compounds on the HSL which were found in the Sample, MS, and/or MSD. It does not include Tentatively Identified compounds which may have been found in the Sample.

Rev 8/85

FIELD DATA SHEET

Environmental Response Team, Environmental Protection Agency
Woodbridge Ave., Edison, N.J. 08837
(201) 321-6660

Location: _____

Collectors: _____

Lab Number (Consec.#'s) NO [ ]

Date Collected Mo [ ] Day [ ] Yr [ ]

Time (24 hr) [ ]

SOIL

Device	Soil Type
Auger	Rock
Core	Gravel
Split Spoon	Sand
Cylinder Cup	Clay
Spade	Silt
	Muck
	Loam
	Peat
	Color: _____

Depth [ ] Ft. or In.

LAND

Upland-Dry
Lowland-Dry
Floodplain
Wetland
Gully

Slope > 15°
Slope < 15°

VEGETATION

Old Field Residential
Wooded Industrial
Farmland Commercial

Herbaceous _____ %
Shrubs _____ %
Trees _____ %

DBH [ ] In.

GROUNDWATER

Water Table Depth [ ] Ft.

Sample Depth [ ] Ft.

Color: _____
Odor: _____
Oil: _____
Device: _____

SURFACE WATER

Color: _____ Temp _____
Odor: _____ pH _____

STREAM Width [ ] Ft.
Depth [ ] Ft or In.
Velocity [ ] Ft/Sec

FLOW DIRECTION _____

Pools _____ % Riffles _____ %

Device	Surface	Bottom %
Kemmerer	Clean	Ooze
Petersen	Oil	Sand
Surber	Garbage	Gravel
Manual	Trash	Clay
Net	Bubbles	Rubble
Seine	Dead Fish	Rock
Trawl	Sewage	Shell
Bucket	Ind. Waste	Organic
	Float. Solids	

SAMPLE PREPARATION

Container	Cleaning Procedure
Glass Jar	Low → High Concentration
Plastic Jar	Detergent Wash
Metal	Water Rinse
Acetate Core	Acetone Rinse
Paper Cap	Hexane Rinse
Teflon Cap	Other Solvent Rinse
Foil Cap	Specify

Storage
Wet Ice
Ambient
Dry Ice

TRANSECT INFORMATION

Letter	Station #

Compass Direction _____ — _____

Distance Between Stations [ ] to [ ] is [ ] Ft

Remarks and Site Description

INTERNATIONAL TECHNOLOGY CORPORATION

Envisresponse, Inc
GSA Raritan Depot, Woodbridge Ave.
Building 209, Bay F
Edison, N. J. 08837
Attn. of: Ms. Janet Cullinane
N. J. Lab Certification ID# 12064

Job # 5702
Date:
Auth:
Lot #: 0485
Invoice #:
Sample Date: 5/21/86

	Sample #55910 A-05610, Solid (ppm)	E. P. Toxicity Leachate (mg/L)	EPA Maximum Leachate Concentration (mg/L)
Cyanide	3.2	-	-
Sulfide	<4	-	-
Ignitability	Non-Ignitable	-	-
Corrosivity (mmpy)	0.06	-	-
Arsenic	-	<0.01	5.0
Barium	-	0.19	100.0
Cadmium	-	0.01	1.0
Chromium	-	<0.18	5.0
Lead	-	<0.05	5.0
Mercury	-	<0.002	0.2
Selenium	-	<0.01	1.0
Silver	-	0.02	5.0
Endrin	-	<0.01	0.02
Lindane	-	<0.01	0.4
Methoxychlor	-	<0.01	10.0
Toxaphene	-	<0.01	0.5
2,4-D	-	<0.01	10.0
2,4,5-TP	-	<0.01	1.0

FIELD DATA SHEET

Environmental Response Team, Environmental Protection Agency
Woodbridge Ave., Edison, N.J. 08837
(201) 321-6660

Location: _____

Collectors: _____

Lab Number (Consec.#'s) NO 561_

Date Collected: Mo | Day | Yr

Time (24 hr)

SOIL

Device	Soil Type
Auger	Rock
Core	Gravel
Split Spoon	Sand
Cylinder Cup	Clay
Spade	Silt
	Muck
	Loam
	Peat
	Color: _____

Depth: ____ Ft. or In.

LAND

Upland-Dry
Lowland-Dry
Floodplain
Wetland
Gully
Slope > 15°
Slope < 15°

VEGETATION

Old Field Residential
Wooded Industrial
Farmland Commercial

Herbaceous ____ %
Shrubs ____ %
Trees ____ %

DBH ____ In.

GROUNDWATER

Water Table Depth ____ Ft.

Sample Depth ____ Ft.

Color: _____
Odor: _____
Oil: _____
Device: _____

SURFACE WATER

Color: _____ Temp _____
Odor: _____ pH _____

STREAM Width ____ Ft.
Depth ____ Ft or In.
Velocity ____ Ft/Sec

FLOW DIRECTION _____

Pools ____ % Riffles ____ %

Device	Surface	Bottom %
Kemmerer	Clean	Ooze
Petersen	Oil	Sand
Surber	Garbage	Gravel
Manual	Trash	Clay
Net	Bubbles	Rubble
Seine	Dead Fish	Rock
Trawl	Sewage	Shell
Bucket	Ind. Waste	Organic
	Float. Solids	

SAMPLE PREPARATION

Container	Cleaning Procedure
Glass Jar	Low→High Concentrat
Plastic Jar	Detergent Wash
Metal	Water Rinse
Acetate Core	Acetone Rinse
Paper Cap	Hexane Rinse
Teflon Cap	Other Solvent Rinse
Foil Cap	Specify

Storage
Wet Ice
Ambient
Dry Ice

TRANSECT INFORMATION

Letter	Station #

Compass Direction _____ — _____

Distance Between Stations ____ to ____ is ____ Ft

Remarks and Site Description

INTERNATIONAL TECHNOLOGY CORPORATION

Envisresponse, Inc
GSA Raritan Depot, Woodbridge Ave.
Building 209, Bay F
Edison, N. J. 08837
Attn. of: Ms. Janet Cullinane
N. J. Lab Certification ID# 12064

Job # 5702
Date:
Auth:
Lot #: 0485
Invoice #:
Sample Date: 5/21/86

	Sample #55912 A-05612,Solid (ppm)	E. P. Toxicity Leachate (mg/L)	EPA Maximum Leachate Concentration (mg/L)
Cyanide	<1	-	-
Sulfide	<4	-	-
Ignitability	Non-Ignitable	-	-
Corrosivity (mmpy)	<0.01	-	-
Arsenic	-	<0.01	5.0
Barium	-	0.32	100.0
Cadmium	-	<0.008	1.0
Chromium	-	0.22	5.0
Lead	-	2.4	5.0
Mercury	-	<0.002	0.2
Selenium	-	<0.01	1.0
Silver	-	0.02	5.0
Endrin	-	<0.01	0.02
Lindane	-	<0.01	0.4
Methoxychlor	-	<0.01	10.0
Toxaphene	-	<0.01	0.5
2,4-D	-	<0.01	10.0
2,4,5-TP	-	<0.01	1.0

FIELD DATA SHEET

Environmental Response Team, Environmental Protection Agency
Woodbridge Ave., Edison, N.J. 08837
(201) 321-6660

Location: _____

Collectors: _____

Lab Number (Consec.#'s) NO [5611]

Date Collected: Mo | Day | Yr

Time (24 hr)

SOIL

Device	Soil Type
Auger	Rock
Core	Gravel
Split Spoon	Sand
Cylinder Cup	Clay
Spade	Silt
	Muck
	Loam
	Peat
	Color: _____

Depth [ ] Ft. or In.

LAND

- Upland-Dry
- Lowland-Dry
- Floodplain
- Wetland
- Gully

Slope > 15° / < 15°

VEGETATION

Old Field / Residential
Wooded / Industrial
Farmland / Commercial

Herbaceous _____ %
Shrubs _____ %
Trees _____ %

DBH [ ] In.

GROUNDWATER

Water Table Depth [ ] Ft.

Sample Depth [ ] Ft.

Color: _____
Odor: _____
Oil: _____
Device: _____

SURFACE WATER

Color: _____ Temp _____
Odor: _____ pH _____

STREAM Width [ ] Ft.
Depth [ ] Ft or In.
Velocity [ ] Ft/Sec

FLOW DIRECTION _____

Pools _____ % Riffles _____ %

Device	Surface	Bottom %
Kemmerer	Clean	Ooze
Petersen	Oil	Sand
Surber	Garbage	Gravel
Manual	Trash	Clay
Net	Bubbles	Rubble
Seine	Dead Fish	Rock
Trowl	Sewage	Shell
Bucket	Ind. Waste	Organic
	Float. Solids	

SAMPLE PREPARATION

Container	Cleaning Procedure
Glass Jar	Low → High Concentration
Plastic Jar	Detergent Wash
Metal	Water Rinse
Acetate Core	Acetone Rinse
Paper Cap	Hexane Rinse
Teflon Cap	Other Solvent Rinse
Foil Cap	Specify:

Storage
Wet Ice
Ambient
Dry Ice

TRANSECT INFORMATION

Letter	Station #

Compass Direction _____ — _____

Distance Between Stations [ ] to [ ] is [ ] Ft

Remarks and Site Description

INTERNATIONAL TECHNOLOGY CORPORATION

Enviresponse, Inc
GSA Raritan Depot, Woodbridge Ave.
Building 209, Bay F
Edison, N. J. 08837
Attn. of: Ms. Janet Cullinane
N. J. Lab Certification ID# 12064

Job # 5702
Date:
Auth:
Lot #: 0485
Invoice #:
Sample Date: 5/21/86

	Sample #55911 A-05611, Solid (ppm)	E. P. Toxicity Leachate (mg/L)	EPA Maximum Leachate Concentration (mg/L)
Cyanide	<1	-	-
Sulfide	<4	-	-
Ignitablity	Non-Ignitable	-	-
Corrosivity (mmpy)	0.01	-	-
Arsenic	-	<0.01	5.0
Barium	-	<0.09	100.0
Cadmium	-	<0.008	1.0
Chromium	-	<0.18	5.0
Lead	-	<0.05	5.0
Mercury	-	<0.002	0.2
Selenium	-	<0.01	1.0
Silver	-	0.01	5.0
Endrin	-	<0.01	0.02
Lindane	-	<0.01	0.4
Methoxychlor	-	<0.01	10.0
Toxaphene	-	<0.01	0.5
2,4-D	-	<0.01	10.0
2,4,5-TP	-	<0.01	1.0

INTERNATIONAL TECHNOLOGY CORPORATION

Enviresponse, Inc
GSA Raritan Depot, Woodbridge Ave.
Building 209, Bay F
Edison, N. J. 08837
Attn. of: Ms. Janet Cullinane
N. J. Lab Certification ID# 12064

Job # 5702
Date:
Auth:
Lot #: 0485
Invoice #:
Sample Date: 5/21/86

	Sample #55913 A-05613, Semi-Solids (ppm)	E. P. Toxicity Leachate (mg/L)	EPA Maximum Leachate Concentration (mg/L)
Cyanide	<1	-	-
Sulfide	<4	-	-
Ignitability	Non-Ignitable	-	-
Corrosivity (mmpy)	<0.01	-	-
Arsenic	-	<0.01	5.0
Barium	-	31	100.0
Cadmium	-	<0.008	1.0
Chromium	-	<0.16	5.0
Lead	-	0.09	5.0
Mercury	-	<0.002	0.2
Selenium	-	<0.01	1.0
Silver	-	0.01	5.0
Endrin	-	<0.01	0.02
Lindane	-	<0.01	0.4
Methoxychlor	-	<0.01	10.0
Toxaphene	-	<0.01	0.5
2,4-D	-	<0.01	10.0
2,4,5-TP	-	<0.01	1.0

FIELD DATA SHEET

Environmental Response Team, Environmental Protection Agency
Woodbridge Ave., Edison, N.J. 08837
(201) 321-6660

Location: _____

Collectors: _____

Lab Number (Consec.#'s) NO 5013

Date Collected: Mo | Day | Yr

Time (24 hr)

SOIL

Device	Soil Type
Auger	Rock
Core	Gravel
Split Spoon	Sand
Cylinder Cup	Clay
Spade	Silt
	Muck
	Loam
	Peat
	Color: _____

Depth: _____ Ft. or In.

LAND

Upland-Dry
Lowland-Dry
Floodplain
Wetland
Gully

Slope > 15°
Slope < 15°

VEGETATION

Old Field Residential
Wooded Industrial
Farmland Commercial

Herbaceous _____ %
Shrubs _____ %
Trees _____ %

DBH _____ In.

GROUNDWATER

Water Table Depth _____ Ft.

Sample Depth _____ Ft.

Color: _____
Odor: _____
Oil: _____
Device: _____

SURFACE WATER

Color: _____ Temp _____
Odor: _____ pH _____

STREAM Width _____ Ft.
Depth _____ Ft or In.
Velocity _____ Ft/Sec

FLOW DIRECTION _____

Pools _____ % Riffles _____ %

Device	Surface	Bottom %
Kemmerer	Clean	Ooze
Petersen	Oil	Sand
Surber	Garbage	Gravel
Manual	Trash	Clay
Net	Bubbles	Rubble
Seine	Dead Fish	Rock
Trowl	Sewage	Shell
Bucket	Ind. Waste	Organic
	Float. Solids	

SAMPLE PREPARATION

Container	Cleaning Procedure
Glass Jar	Low→High Concentration
Plastic Jar	Detergent Wash
Metal	Water Rinse
Acetate Core	Acetone Rinse
Paper Cap	Hexane Rinse
Teflon Cap	Other Solvent Rinse
Foil Cap	Specify

Storage
Wet Ice
Ambient
Dry Ice

TRANSECT INFORMATION

Letter	Station #

Compass Direction _____ — _____

Distance Between Stations _____ to _____ is _____ Ft

Remarks and Site Description