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Jennison-Wright Corp.
ILD006282479
Volume 1 of 2
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CERCLA
Screening Site Inspection Report

969691

Illinois Environmental
Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

US EPA RECORDS CENTER REGION 5

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GD:jab/991k/34-37

1. INTRODUCTION

Illinois Environmental Protection Agency's Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (USEPA) to conduct a screening site inspection of the Jennison-Wright Corporation facility.

The site was initially discovered by the USEPA in December of 1983. The site was evaluated in the form of a Preliminary Assessment (PA) that was completed by Kenneth Page of the Illinois EPA and submitted to USEPA. IEPA's Pre-Remedial Unit prepared a screening site inspection (SSI) work plan for the Jennison-Wright facility that was approved by USEPA. The SSI was conducted on November 29, 1988 with the collection of fourteen samples (ten soil, two groundwater, and two wipe).

The purposes of an SSI have been stated by USEPA in a directive outlining Pre-Remedial program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U.S. EPA 1988).

U.S. EPA Region V has also instructed IEPA to identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from the SSI work plan preparation.

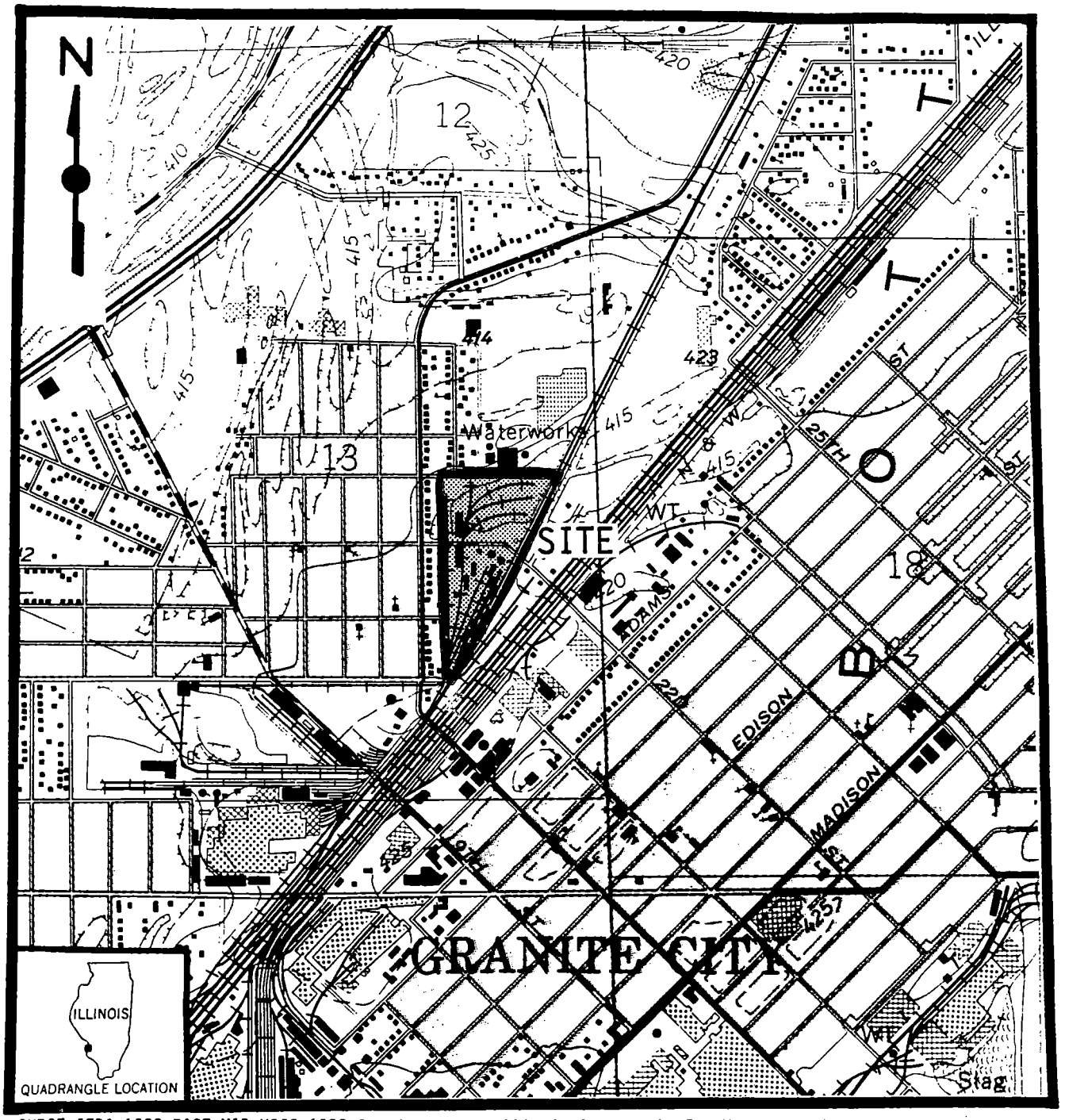
2.2 SITE DESCRIPTION

The Jennison-Wright Corporation site is an active facility where railroad ties and wood blocks are treated. The northern part of the site is used for tie trimming, treated tie off-loading and treated tie storage. The southern half of the facility is where the railroad ties and wood blocks go through either the creosote or zinc naphthenate processes.

The site is located on approximately 26 acres of land in Granite City, Illinois (see Figure 2-1) in Madison County (SE 1/4, Section 13, T.3N., R.10W.). A 4-mile radius map of the Jennison-Wright facility is provided in Appendix A.

2.3 SITE HISTORY

The facility began operations around 1915 under the name of Midland Creosote, with Midland Creosote selling the site in 1951 to Jennison-Wright Creosote (Jennison-Wright Liquidating Trust). A purchase agreement was negotiated in October, 1981 between Jennison-Wright Liquidating Trust and the



SOURCE:IEPA,1988.BASE MAP:USGS 1982 Granite City, Illinois Quadrangle,7.5 Minute Series

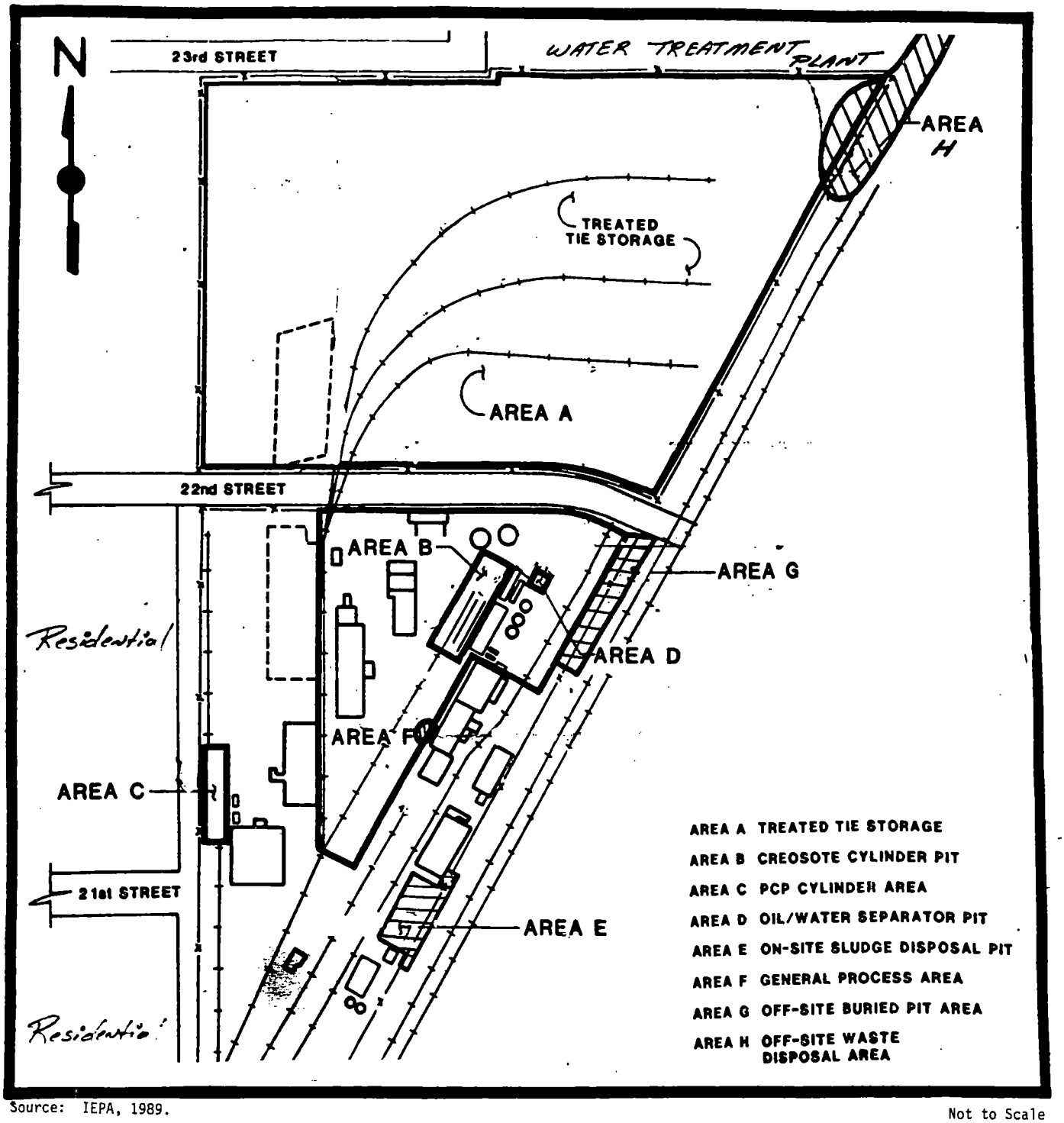
1000 0 1000 2000 FEET

FIGURE 2-1 SITE LOCATION

Jennison-Wright Corporation. The Jennison-Wright facility is presently owned and operated by the Jennison-Wright Corporation of Pepper Pike, Ohio. The facility has been treating railroad ties and wood blocks since the early 1900's.

The facility has been involved in the treatment of wood products (railroad ties and block flooring) with creosote and pentachlorophenol. "Jennite", a trade name for asphalt driveway sealer, is also manufactured at the facility, utilizing coal tar derivatives and montmorillonitic clay in the process. The creosote process has been virtually the same since the 1900's, except for the modernization of the process area in 1987. The PCP process began in the early 1970's and operated until 1984, when the PCP process was replaced with a zinc naphthenate process. The "Jennite" product, manufactured at the facility since the early 1960's, is still manufactured on-site but is now operated by another company (Neyra Industries).

During the period of ownership by J. W. Liquidating Corporation (prior to 1981), several areas of waste disposal were utilized by the company. Prior to 1970 and lasting through 1972, an area on the eastern edge of the facility and south of 22nd Street was used for the disposal of creosote contaminated wastewater. This lagoon area was filled in with dirt, bricks and other materials sometime in 1972 (Area G on Figure 2-2). In 1973 a second area was filled with creosote contaminated wastewater, waste coal tar pitch and other materials. This area is located on the eastern boundary near the "Jennite" process area (Area E on Figure 2-2). The disposal Area E was used from 1973



Source: IEPA, 1989.

Not to Scale

FIGURE 2-2 PAST WASTE DISPOSAL AREAS

prior to 1981, before being filled in with soil. The last area, also used for the disposal of creosote contaminated water, is on the northeast corner of the site and includes the railroad ditch. This area is no longer used directly by the facility, but creosote contaminated run-off water still collects in the ditch (Area H on Figure 2-2).

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3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI at the Jennison-Wright Corporation site. Individual subsections address the site representative interview, reconnaissance inspection, sampling procedures and the on-site site assessment. The SSI was conducted in accordance with the USEPA-approved workplan.

The USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Jennison-Wright site is provided in Appendix B. The USEPA Immediate Removal Action Checksheet for the site is provided in Appendix C.

3.2 SITE REPRESENTATIVE INTERVIEW

No interviews were conducted with site representatives, however Mr. Pat Patrella of the Jennison-Wright Corporation was present during the sampling on November 29, 1988.

3.3 RECONNAISSANCE INSPECTION

IEPA personnel conducted a reconnaissance inspection of the Jennison-Wright Corporation facility and surrounding area on October 13, 1988. The recon inspection included a drive around the facility to determine off-site sample locations and appropriate health and safety requirements.

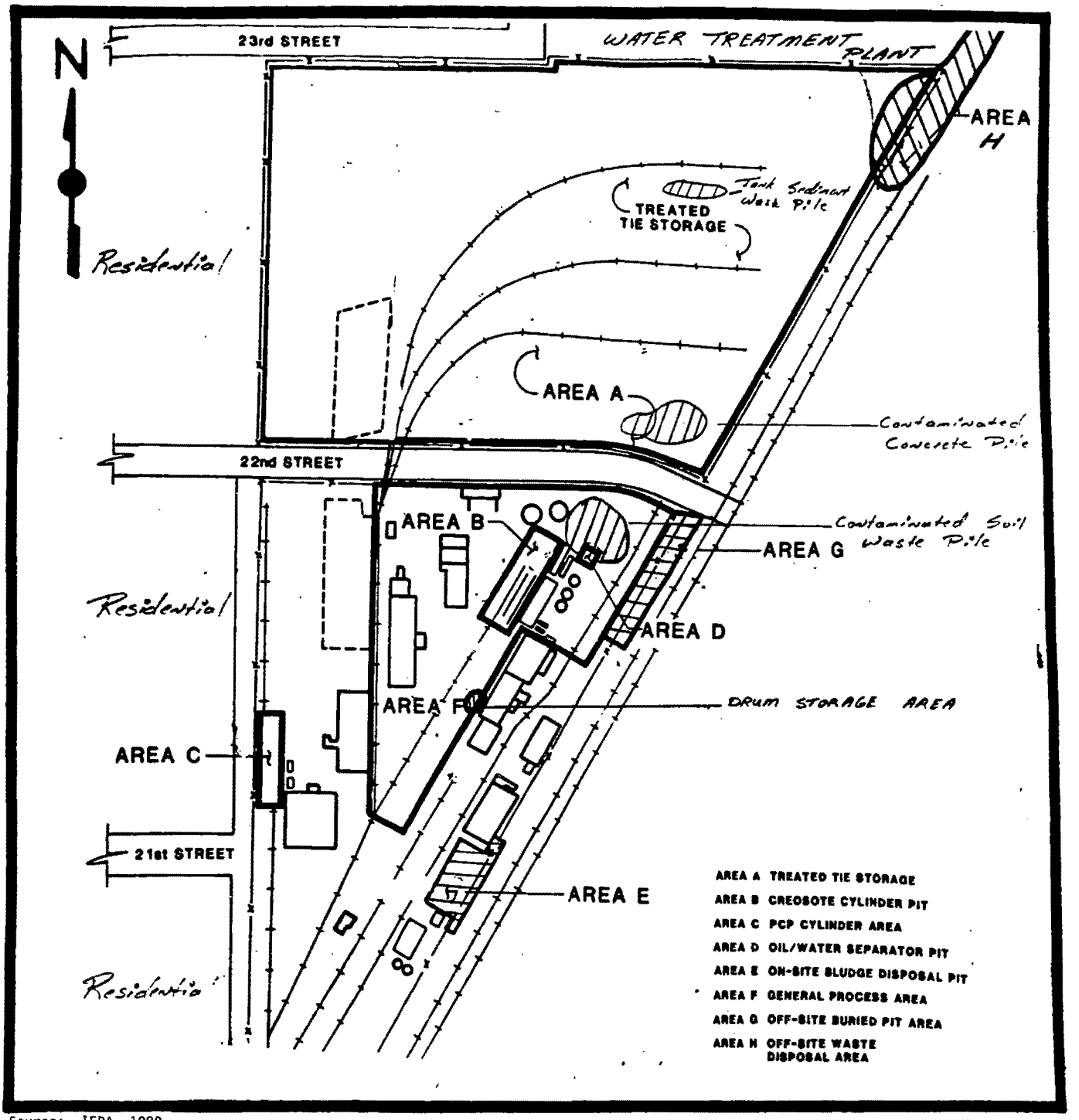
Reconnaissance Inspection Observations. The Jennison-Wright Corporation is located on approximately 26-acres of land in Granite City, Illinois. Land use in the vicinity of the site is residential to the west and north with industrial use to the east and south. The surface topography is relatively flat, with the north half of the site sloping toward the northeast and the south half of the site sloping toward the southwest.

The Jennison-Wright facility is bordered on the east by the Illinois Terminal Railroad, on the west by an alley, on the south by 20th Street and on the north by 23rd Street and the Illinois American Water Company. (22nd Street runs through the middle of the site.) Drainage from the north half of the site flows into the railroad ditch at the northeast corner of the facility. (The railroad ditch is not known to flow into any surface waters.) The south half of the site has no drainage system. The site perimeter is fenced with no additional security measure to deter access (see Figure 3-1).

Three areas of past waste disposal exist outside of the facility boundary. All three areas are easily accessible by people and animals, with a dead bird noticed in one off-site area labelled Area E on Figure 2-2. No vegetation grew on most of these past disposal areas.

3.4 SAMPLING PROCEDURES

Samples were collected by IEPA personnel to determine levels of USEPA Target Compound List (TCL) and Dioxin compounds present at the site. The TCL is provided in Appendix D.



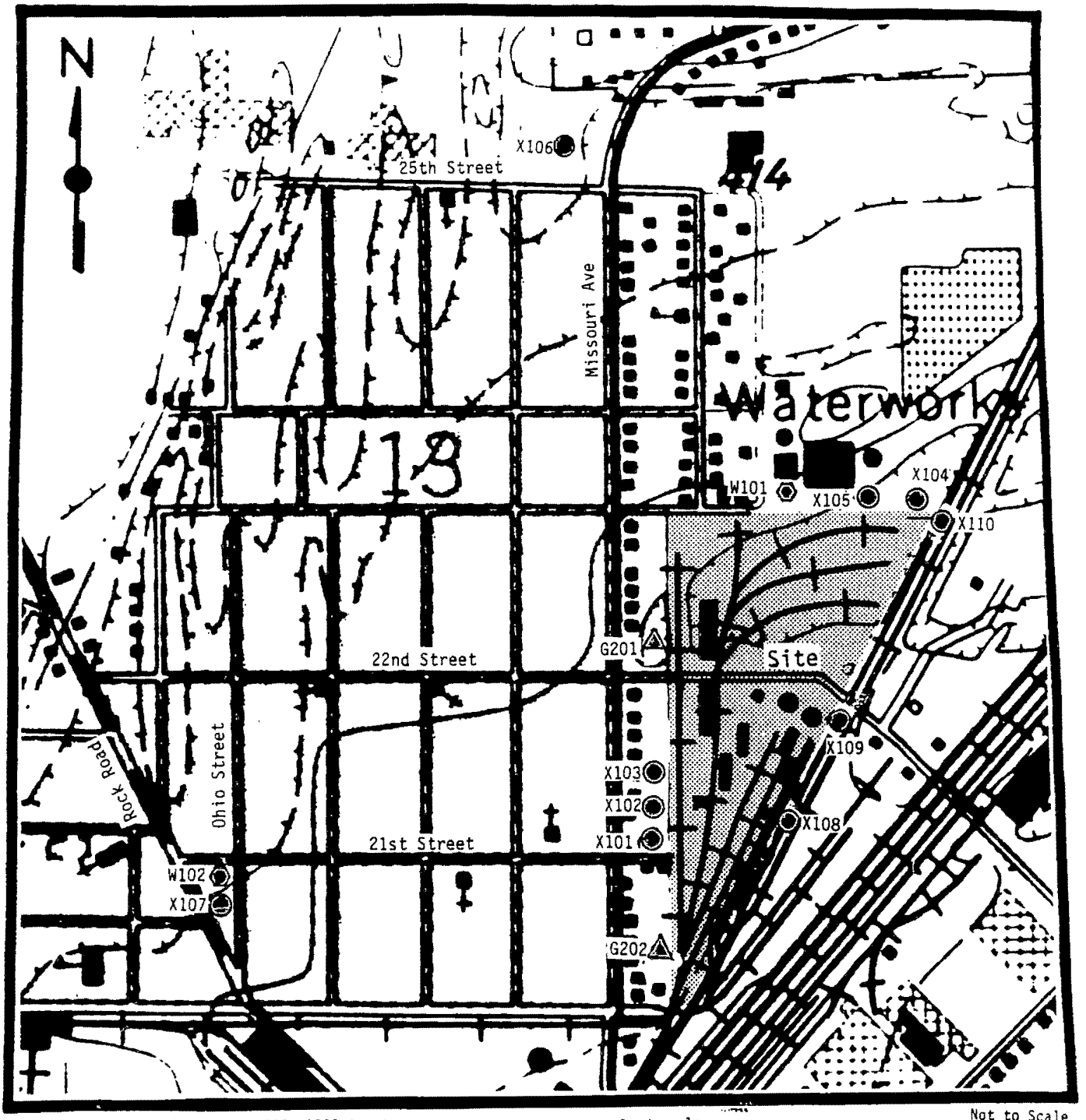
Source: IEPA, 1989.

Not to Scale

FIGURE 3-1 SITE FEATURES

On November 29, 1988, IEPA personnel collected ten soil samples, two wipe samples and two groundwater samples (see Figure 3-2 for the fourteen sampling locations). Samples were not split with the site representative, who accompanied IEPA personnel during the sample collection.

Soil Sampling Procedures. The ten soil samples were taken to characterize off-site soils. X101 was taken approximately 20 feet west of the site and 50 feet north of 21st Street. X102 was taken approximately 20 feet west of the facility in the backyard of [redacted]. X103 was taken 35 feet west of the facility in the backyard of [redacted]. X104 and X105 were taken on the berm located on Illinois American Water Company property. X104 was taken on the eastern edge of the berm and X105 was taken on the western edge of the berm. X106 and X107 were background soil samples, because soil in these areas appeared to be representative of the area. X106 was taken approximately 100 feet north of West 25th Street and 40 feet west of Missouri Avenue. X107 was taken approximately 75 feet south of West 21st Street and 100 feet west of Ohio Street in Triangle Park (part of Granite City Park District). X108 was obtained from the eastern boundary of the facility, near the "Jennite" process area (Area E on Figure 2-2). X109 was taken from the eastern boundary of the site, approximately 50 feet south of West 22nd Street (Area G on Figure 2-2). The last soil sample, X110, was taken from the northeastern boundary of the site, where run-off from site was flowing off-site (Area H on Figure 2-2).



Source: IEPA, 1989. Base Map: USGS, 1982 Granite City, IL-MO 7.5 Minute Quadrangle

Not to Scale

FIGURE 3-2 SAMPLING LOCATIONS

The soil samples were collected with stainless steel spoons, with the soil transferred directly to the sample jars. All samples were taken from the top four inches. After sample collection, all jars were evidence taped and packaged in accordance with USEPA required procedures.

Wipe Sampling Procedures. Two wipe samples were taken to determine if airborne contaminants have been released from the site. W101 was taken on a shed that is directly north of Jennison-Wright. The samples were taken underneath the overhang with a Chem-wipe doused in hexane. An area approximately 10 cm by 10 cm was wiped. W102 was taken on a stop sign at the corner of Ohio Street and West 21st Street. An area approximately 10 cm by 10 cm was wiped with a Chem-wipe doused in hexane.

The wipe samples were transferred directly to quart bottles (glass) after sample collection. All jars were evidence taped and packaged in accordance with USEPA required procedures.

Groundwater Sampling Procedures. The two groundwater samples were taken to identify if contamination has migrated off-site by groundwater. G201 was taken from a private well at the Non-responsive. The water sample was collected using Non-responsive pump, after the well was purged for twenty minutes. G202 was taken from a well behind the Non-responsive, near his shed. The Non-responsive was purged (five well volumes) and sampled with a three foot teflon bailer and nylon cord. Total metal and mercury were field filtered with a Masterflex variable speed peristaltic pump at sample point G202 only. After sample collection, the bottles were dried, preservatives added to the appropriate bottles, evidence taped and packaged in accordance with USEPA required procedures.

The samples were analyzed for the Target Compound List, 2,3,7,8 specific tetrachlorinated dibenzodioxins and dibenzofurans, total tetra - through octa-polychlorinated dibenzodioxins and dibenzofurans. The inorganic analysis portion of the samples were sent to IEPA's Champaign lab, while the organic analysis portion of the samples were delivered to IEPA's Springfield lab. The dioxin samples were sent to Triangle Laboratories of Durham, North Carolina. Photographs for the Jennison-Wright Corporation site are provided in Appendix E.

Decontamination Procedures. Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedures included the scrubbing of all equipment (bailers, spoons, pans, etc.) with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water, rinsing with acetone, rinsing with hot tap water again and final rinsed with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.

3.5 ON-SITE SITE ASSESSMENT

An initial site assessment was conducted by Ecology & Environment (E & E) Inc. in 1984, to evaluate the extent of contamination in the soil and groundwater on-site. E & E installed 11 monitoring wells and three soil borings to determine site geology, groundwater flow directions and groundwater quality. The report indicated no off-site migration of contaminants, but did indicate soil contamination up to 9 feet below surface in the areas of product transportation and storage (E & E 1985).

In 1987, Woodward-Clyde Consultants (WCC) began a Phase II assessment of the Jennison-Wright facility, to better define the extent of contamination and subsurface conditions. The assessment included the installation of 16 monitoring wells and the chemically analyzing of soil from 33 borings (29 on-site, 4 off-site). The groundwater measurements from the monitoring wells indicated groundwater movement to the southwest. Boring logs are provided in Appendix G and groundwater flows are provided in Appendix H. The analytical results indicated groundwater contamination and soil contamination (some down to groundwater) ranging from 5 feet to less than 1 foot below surface. Analytical summary sheets from samples taken by Woodward-Clyde Consultants are provided in Appendix H.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes the analytical results from IEPA-collected samples for TCL compounds and specified dioxin compounds.

4.2 ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

Chemical analysis of soil samples collected by IEPA personnel revealed the following substances: volatiles, pesticides, semi-volatiles, dioxins, common laboratory artifacts and common soil constituents. Chemical analysis of wipe samples collected by IEPA personnel revealed the presence of semi-volatiles and dioxins. Analysis of groundwater samples collected by IEPA personnel revealed the following substances: volatiles, semi-volatiles, common laboratory artifacts and common groundwater constituents (see Table 4-1 for the summary of groundwater, soil and wipe sample results). Complete laboratory analytical data for groundwater, soil and wipe samples are provided in Appendix F.

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Summary of Chemical Analysis Results

upwind background

SAMPLING POINT	W101 11-29-88	W102 11-29-88	G201 11-29-88	G202 11-29-88	X101 11-29-88	X102 11-29-88	X103 11-29-88	X104 11-29-88	X105 11-29-88	X106 11-29-88	X107 11-29-88	X108 11-29-88	X109 11-29-88	X110 11-29-88	Water Blank	Soil Blank
VOLATILES																
Methylene Chloride			1.30 B	6.70 B	3400.00 B	38.00 B	13.00 B	25.00 B	2.20 B	4.00 B	2.00 B	30.00 B	52.00 B	46.00 B	2.90 J	
Acetone			2.30 B	76.00 B	1600.00 B	2.00 B	8.80 B	6.40 B	8.10 B	7.80 B	5.10 B	3.40 B	2.70 B	4.80 B	9.00 J	
2-butanone					150.00 J	1.60 J		2.70 J	1.60 J	2.70 J	2.20 J			3.70 J		
Xylene (Total)				1.60 J												
PESTICIDES/PCB'S																
Heptachlor Epoxide					40.00 J											
Alpha-Chlordane					450.00											
Gamma-Chlordane					500.00											
ACIDS																
Phenol							39.00 J									
Benzoic Acid				0.79 J				38.00 J	54.00 J							
BASE/NEUTRALS																
Benzyl Alcohol									49.00 J							
Pentachlorophenol						2600.00 J			11.00 J					28000.00 J		
Naphthalene	0.36 J				240.00 J	120.00 J	52.00 J	46.00 J	47.00 J	9.00 J	9.00 J	1300.00 J	2700.00 J	11000.00 J		
2-Methylnaphthalene					200.00 J		62.00 J	25.00 J	25.00 J	7.00 J	13.00 J	490.00 J	560.00 J			
Dibenzofuran	0.43 J	0.31 J							24.00 J	9.00 J		1800.00 J	2000.00 J	10000.00 J		
Phenanthrene	2.10				1000.00 B	1100.00 B	410.00 B	110.00 B	110.00 B	130.00 B	180.00 B	28000.00 B	12000.00 B	160000.00 B		5.00
Di-n-butylphthalate	0.25 J	0.29 J			230.00 B	250.00 B	70.00 B	170.00 B	160.00 B	87.00 B	89.00 B	210.00 B	150.00 B			79.00
Fluoranthene	3.00				1400.00 B	1400.00 B	940.00 B	130.00 B	200.00 B	150.00 B	170.00 B	44000.00	24000.00 B	1900000.0		17.00
Pyrene	2.30				1400.00 B	1700.00 B	850.00 B	110.00 B	150.00 B	130.00 B	140.00 B	35000.00 B	25000.00 B	1500000.0		17.00
Fluorene	0.18 J								10.00 J	6.00 J		4200.00 J	200.00 J			
Acenaphthylene													400.00 J			
Acenaphthene	0.18 J								12.00 J	9.00 J		2100.00 J	420.00 J	28000.00 J		
Diethylphthalate				0.21 J				35.00 J	27.00 J	21.00 J	24.00 J			16000.00 J		32.00
Butylbenzylphthalate						760.00 J										
Anthracene						560.00 J		24.00 J	21.00 J	31.00 J	26.00 J	35000.00 J	2400.00 J	410000.00 J		
Benzo(a)anthracene						1700.00 J	670.00 J	230.00 J	90.00 J	150.00 J		14000.00 J	14000.00	530000.00 J		
Chrysene	1.70					3100.00 J	750.00 J		240.00 J			16000.00 J	28000.00	580000.00		
bis(2-ethylhexyl)phthalate					570.00 J		240.00 J			1200.00	6600.00		27000.00			
Benzo(b)fluoranthene					820.00 J		480.00 J		160.00 J	42.00 J		7000.00 J	21000.00	190000.00 J		
Benzo(k)fluoranthene						780.00 J			80.00 J	65.00 J			16000.00			
Benzo(a)pyrene					310.00 J		470.00 J					8000.00 J	14000.00	140000.00 J		
Indeno(1,2,3-cd)pyrene													21000.00			
Tetrahydrofuran				4.00 J												
Aliphatic Hydrocarbons	138.00 J	74.00 J	11.00 J	5.00 J			30.00 J*	600.00 J*	30.00 J*							
Other Organic Compounds	150.00 J	2.00 J	12.00 J	7.70 J			500.00 J*	3000.00 J*	1000.00 J*	2000.00 J*	800.00 J*	20.00 J*	3000.00 J*	300.00 J*		2600.00
Aliphatic Phenols		79.00 J														
Pentane							2.70 J*	1.20 J*		4.10 J*						
Dimethyl Naphthalene								50.00 J*								
Trimethyl Naphthalene								30.00 J*								
Other Phthalates								300.00 J*	150.00 J*	200.00 J*	40.00 J*					600.00
9,10-Anthracenedione							20.00 J*						120.00 J*	20.00 J*		
Benzo(c)cinnoline													170.00 J*			
Benzo(b)naphtho(2,3-D)Furan													60.00 J*			
Benzo(ghi)fluoranthene													270.00 J*			
Benzo(j)fluoranthene													1000.00 J*			
Methyl Anthracene														20.00 J*		
Methyl Phenanthrene														80.00 J*		
Dibenzo(ah)anthracene													3500.00 J*			
Benzo(ghi)perylene													2300.00 J*			
	(ug/100cm)	(ug/100cm)	(ug/l)	(ug/l)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		

* Indicates values in ug/g

J Indicates an estimated value

B Indicates the co was also found in the blank

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Table 4-1
Summary of Chemical Analysis Results

SAMPLING POINT	G201 11-29-88	G202 11-29-88	W101 11-29-88	W102 11-29-88	X101 11-29-88	X102 11-29-88	X103 11-29-88	X104 11-29-88	X105 11-29-88	X106 11-29-88	X107 11-29-88	X108 11-29-88	X109 11-29-88	X110 11-29-88
2378-TCDD													7.351	
12378-PeCDD						0.099							78.225	0.105
123478-HxCDD						0.331							523.187	
123678-HxCDD					69.655	2.279	9.517	12.833	10.932			41.277	2104.422	13.340
123789-HxCDD						0.790	7.550		8.811				1932.908	4.923
1234678-HpCDD			0.340	0.346	3803.006	197.765	407.301	684.737	574.798	79.217	61.052	5814.239	201585.693	1253.422
OCDD			4.651	1.671	53809.151	2125.451	5558.448	11022.075	9034.390	1066.862	708.331	101074.080	760936.175	6744.598
2378-TCDF					27.930	0.076	11.014	5.444						0.057
12378-PeCDF						0.041	3.799							0.298
23478-PeCDF							2.672							0.371
123478-HxCDF						0.379	8.937	8.481	6.185		3.705		117.064	3.986
123678-HxCDF							3.717							0.493
234678-HxCDF							4.955						42.005	1.302
123789-HxCDF														
1234678-HpCDF				0.078	489.392	13.779		86.182		18.014		244.915	5127.828	122.964
1234789-HpCDF													327.047	7.731
OCDF					2745.572	92.634	249.599	402.648	263.358		38.474	29041.420	34922.855	
TOTAL TCDD					20.296	0.202	19.509		5.382	3.606	7.354		79.463	0.103
TOTAL PeCDD						0.407	3.878	9.095	7.604		4.895		1837.862	1.590
TOTAL HxCDD					564.962	10.207	95.583	127.058	119.046		18.725	414.598	41946.440	129.629
TOTAL HpCDD			0.740	0.556	10135.083	304.782	998.169	2066.205	1768.459	207.476	147.267	19302.749	537156.270	2943.278
TOTAL TCDF					105.819	0.382	50.212	18.081	4.441		11.330			0.338
TOTAL PeCDF					165.456	1.318	46.064	19.586	9.863		15.439		74.027	7.289
TOTAL HxCDF					548.486	9.917	53.984	121.500	66.990	18.975	32.224	182.427	4011.346	87.182
TOTAL HpCDF				0.089	1937.911	81.219	136.563	330.970	182.915	55.592		1484.578	29153.654	647.731
			(ng/cm)	(ng/cm)	(ppt)	(ppt)	(ppt)	(ppt)	(ppt)	(ppt)	(ppt)	(ppt)	(ppt)	(ppt)

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INORGANIC ANALYSIS
SUMMARY

SAMPLING POINT	G201	G202	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88	11-29-88
PARAMETER												
ALUMINUM	63.00 B		10491.00	13799.00	9487.00	9719.00	8430.00	6877.00	6883.00	5839.00	3854.00	3668.00
ANTIMONY			2.40 B	4.80 B	3.40 B							
ARSENIC	3.00 B	2.00 B	22.90	45.50	21.20	7.30 B	7.70 B	5.80 B	9.30 B	6.00 B	7.98 B	11.80
BARIUM	81.00 B	73.00 B	400.00	921.00	552.00	170.60 B	171.00 B	130.00 B	153.00 B	156.00 B	176.00 B	108.00 B
BERYLLIUM	0.30 B	0.50 B	1.49 B	1.20 B	1.34 B	0.85 B	0.79 B	0.74 B	0.80 B	0.78 B	0.59 B	0.72 B
CADMIUM	3.20 B	3.70 B	5.74	6.60	3.89 B	2.54 B	7.20					2.40 B
CALCIUM	143000.00	229000.00	13280.00	23570.00	7717.00	5086.00	5932.00	6451.00	5600.00	20907.00	13487.00	26685.00
CHROMIUM	8.00 B	13.00	36.20	80.80	28.30	19.60	18.90	13.20	17.20	26.60	18.00	38.30
COBALT	12.00 B	11.60 B	11.80 B	8.70 B	8.00 B	6.80 B	6.10 B	4.18 B	4.98 B	5.30 B	4.40 B	
COPPER	7.00 B	5.40 B	120.00	271.00	87.20	29.80	29.80	17.10 B	25.50	12.90 B	25.80	165.00
IRON	83.00 B		35640.00	41900.00	29300.00	19190.00	17142.00	12814.00	15105.00	18355.00	19257.00	11573.00
LEAD	10.00	11.00	840.00	2340.00	632.00	134.00	158.00	131.00	299.00	27.80	69.40	271.00
MAGNESIUM	31600.00	59900.00	3499.00 B	3706.00 B	1874.00 B	2695.00 B	2607.00 B	2463.00 B	2231.00 B	5950.00	3332.00 B	6070.00
MANGANESE	558.00	1120.00	717.00	929.00	549.00	529.00	521.00	313.00	450.00	821.00	786.00	674.00
MERCURY		0.20	0.65	0.33	0.34							0.51
NICKEL	32.00 B	28.90 B	26.90 B	29.70 B	22.80 B	18.90 B	16.80 B	11.50 B	135.00	16.90 B	14.40 B	12.90 B
POTASSIUM	4638.00 B	8790.00	2120.00 B	1657.00 B	1500.00 B	1741.00 B	1584.00 B	1268.00 B	1419.00 B	814.00 B	935.00 B	395.00 B
SELENIUM	10.00	3.00 B										
SILVER		6.70 B										
SODIUM	31700.00	30600.00	276.00 B	237.00 B	127.00 B	2.90 B						
THALLIUM												1.27
TIN												
VANADIUM	5.00 B	8.00 B	37.90 B	42.20 B	29.90 B	28.90 B	27.40 B	20.00 B	22.40 B	42.90 B	26.10 B	34.70 B
ZINC	315.00	21.00	653.00	1545.00	780.00	235.00	243.70	159.90	236.00	68.50	194.00	419.00
CYANIDE	7.00 B		1.30 B	1.40 B	0.80 B	0.30	0.40 B	0.30 B	0.30 B	0.10 B	0.20 B	2.00 B
SULFATE	300000.00	330000.00										
SULFIDE												
Ph (lab/field)												
CONDUCTIVITY (l/f)												
	(ug/l)	(ug/l)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

NOTE: Wipe samples were not analyzed for Inorganics.

QUALIFIER	DEFINITION
U	Indicates element or compound was analyzed for but not detected. Report the detection limit value (e.g., 10U).
J	Indicates an estimated value. This flag is used either when estimating a concentration for TIC's where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the CRDL.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract shall be confirmed by GC/MS.
B	This flag is used when the analyte is found in the blank as well as the sample. This flag must be used for a TIC as well as for a positively identified TCL compound.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample numbers (both lab and EPA) on the Form 1 for the diluted sample, and all concentration values reported on that Form 1 are flagged with the "D" flag.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form 1 for the original analysis. If the dilution

QUALIFIER	DEFINITION
	of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms 1. The Form 1 for the diluted sample shall have the "DL" suffix appended to the lab sample number and the EPA sample number.
S	Indicates value determined by Method of Standard Addition
N	Indicates spike sample recovery is not within control limits.
*	Indicates duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for method of standard addition is less than 0.995.
[ ]	Result is greater than or equal to the instrument detection limit but less than the contract required detection limit.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section discusses data and information that apply to potential migration pathways and targets of compounds that may be attributable to the Jennison-Wright Corporation.

The five migration pathways of concern are groundwater, surface water, air, fire and explosion and direct contact.

5.2 GROUNDWATER

Groundwater samples were collected from off-site private wells during the November 29, 1988 SSI and on-site monitor wells during a February 10, 1988 inspection. Although contaminants were not found during the SSI in off-site wells, the potential exists for contaminants to migrate to these wells. This potential is based on analytical results from the February sampling of on-site monitor wells indicating contaminants in wells WWC-05s (toluene 830 ppb, phenol 9800 ppb, 2-methylphenol 5100 ppb, naphthalene 3400 ppb, 4-methylphenol 16000 ppb and 2,4-dimethylphenol 2800 ppb) and WCC-09s (toluene 330 ppb, phenol 260 ppb, 2-methylphenol 480 ppb, 4-methylphenol 1100 ppb, 2,4-dimethylphenol 640 ppb, pentachlorophenol 100 ppb and naphthalene 5500 ppb). See Appendix H for the groundwater results.

The boring logs generated during the monitor well installation and well logs from the area indicates the

unsaturated zone consists of fill material and silty clays. This surface material is moderately permeable, with soil contamination documented down to groundwater. Underlying the silty clays are interbedded layers of sands and clays down to 20 feet, with medium, coarse and fine sands and gravels from 20 feet to limestone at 115 feet. This 95 feet of sands and gravels is the major aquifer in the area.

Granite City obtains water from the Mississippi River, but many industries and private residences obtain water from the sand and gravel aquifer (see Appendix I for well logs). Well logs indicate 65 private wells, 26 industrial wells and 2 irrigation wells. The 65 private wells serve 179 residents and the two irrigation wells (irrigating 340 acres) equate to 510 residents.

The nearest well is approximately 50 feet from the facility boundary and obtains water from the sand and gravel aquifer (SSI conducted November 29, 1988). The groundwater in the vicinity of the site flows southwest (Woodward-Clyde 1988; Ecology and Environment 1985) with groundwater found at a depth of 20 feet.

5.3 SURFACE WATER

No surface water samples were collected during the November 29, 1988 SSI at the Jennison-Wright facility. There is a potential for water to run-off the site, but the run-off collects in a ditch on the northeast side of the site. This ditch does not flow into any streams, lakes or rivers.

5.4 AIR

A release of contaminants to the air was not documented by instruments, however wipe samples indicate a potential air release at the site.

Contaminants from the site have been documented in off-site wipe samples, indicating a release of contaminants from the site. The wipe sample downwind (according to a wind rose) contained phenanthrene (2.1 ug/100cm), fluoranthene (3.0 ug/100cm), pyrene (2.3 ug/100cm) and chrysene (1.7 ug/100cm). The population within four miles of the site that may be affected is 47,443. The area surrounding Jennison-Wright is mostly residential.

5.5 FIRE AND EXPLOSION

No fire and/or explosion threat was documented during the SSI at the Jennison-Wright site. A fire did occur in 1975 in the creosote cylinder area.

5.6 DIRECT CONTACT

According to all available file information at this time, there has been no documented incident of injury to humans at the site. However, this is a pathway of concern at this site due to contamination found outside the boundary of the site. Direct contact of contaminants to animals has been documented in inspections at the plant. Also, a dead bird was found off-site in a sludge-type material when sampling X108.

Access to the site is restricted by fences, but waste areas outside the plant area easily accessible to people and animals. The facility has filed for bankruptcy, so site security is currently unknown. The population within 1 mile of the site is 12,885.

6. BIBLIOGRAPHY

Austin, Denver, August 1977, Evolution of Heavy Manufacturing in Granite City, Illinois 1896 to 1973, Theses, Southern Illinois University - Edwardsville.

Ecology & Environment, Inc., January 18, 1985, Compliance Investigation Report -- The Jennison Wright Corporation Wood Treatment Facility, Granite City, Illinois.

Illinois Department of Energy and Natural Resources, State Water Survey, Historical Assessment of Hazardous Waste Management in Madison and St.Clair Counties, Illinois 1890-1980. Craig Colten Author, October 1988

Illinois Department of Energy and Natural Resources, State Water Survey, water well records of wells in Madison County, T.3N. R.10W., T.3N. R.9W.

Illinois Environmental Protection Agency, 1983, Stipulation and Proposal for Settlement signed by Jennison-Wright Corporation and IEPA.

Illinois Environmental Protection Agency, 1986, Potential Hazardous Waste Site Preliminary Assessment, for Jennison-Wright Corporation, ILD006282479, prepared by Kenneth L. Page, Springfield, Illinois.

Illinois Environmental Protection Agency, 1986, Consent Decree signed January 15, 1986 by IEPA and Jennison-Wright Corporation.

USEPA, Office of Solid Waste and Emergency Response, February 12, 1988, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

USGS, 1974, Columbia Bottom, Mo.-Il. Quadrangle, 7.5 Minute Series.

USGS, 1982, Granite City, Il.-Mo. Quadrangle, 7.5 Minute Series.

USGS, 1974, Monks Mound, IL Quadrangle, 7.5 Minute Series.

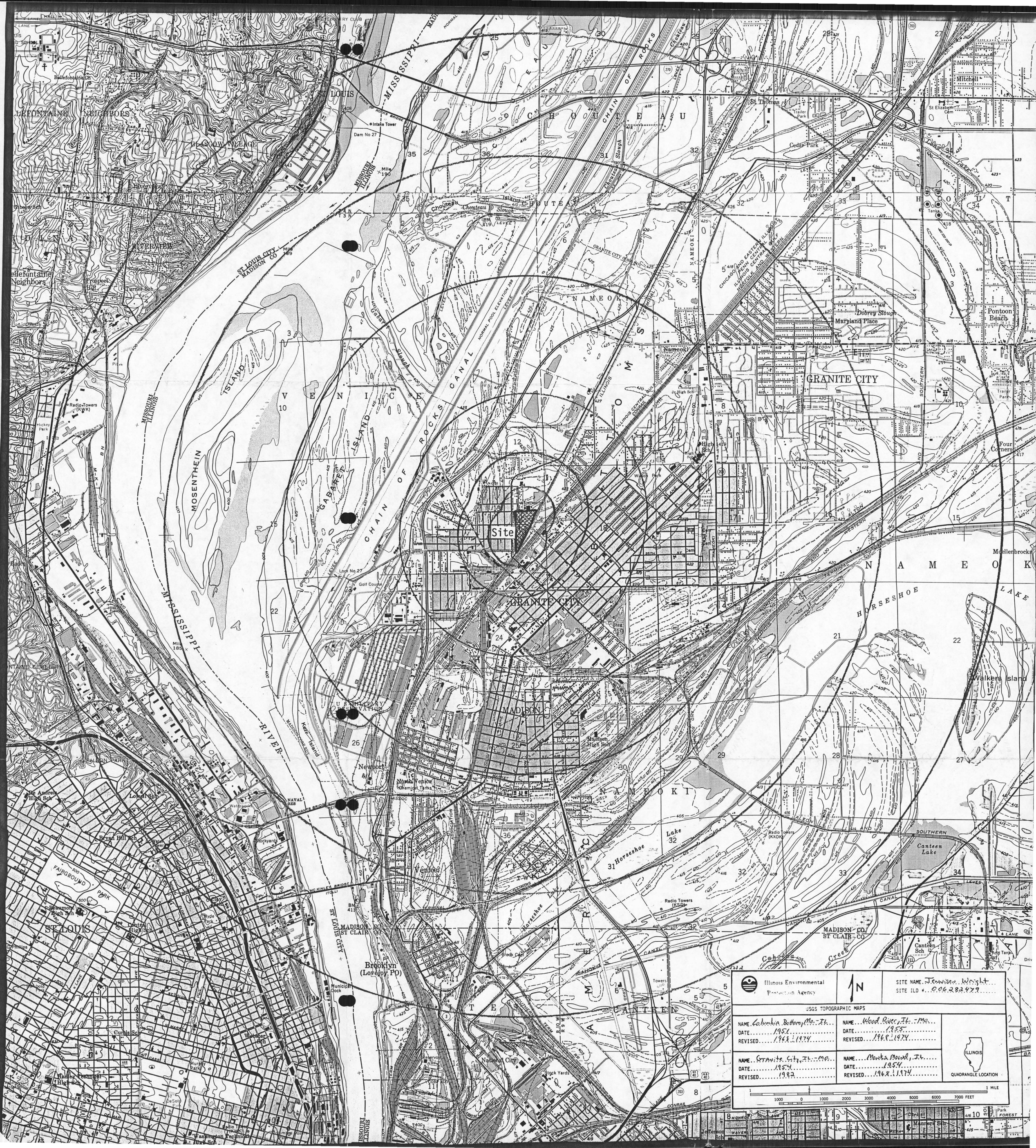
USGS, 1974, Wood River, Il.-Mo. Quadrangle, 7.5 Minute Series.

Woodward-Clyde Consultants, August, 1988, Site Assessment Report The Jennison-Wright Facility Granite City, Illinois.

GD:jk/sp/328k

APPENDIX A

SITE 4-MILE RADIUS MAP


Site
GRANITE CITY
MADISON
NAMEOKI
VENICE
CHOUTEAU
ST LOUIS
MISSISSIPPI RIVER
CHAIN OF ROCKS CANAL
Illinois Environmental Protection Agency
N
SITE NAME Jennison Wright
SITE ILD # 0062824 79
USGS TOPOGRAPHIC MAPS
NAME Columbia Bottom, Mo.-Il.
DATE 1951
REVISED 1968 1974
NAME Wood River, Il.-Mo.
DATE 1955
REVISED 1968 1974
NAME Granite City, Il.-Mo.
DATE 1954
REVISED 1982
NAME Monks Mound, Il.
DATE 1954
REVISED 1968 1974
ILLINOIS
QUADRANGLE LOCATION
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

APPENDIX B

USEPA FORM 2070-13

Site Inspection Report

EPA L119040008

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D 006282479

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Jennison-Wright Corporation	22nd Street and IT RR Tracks

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Granite City	IL	62040	Madison	119	IL-21

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
38 42 30.7	90 09 09.5	☒ 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
11 29 88 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1915 (BEGINNING YEAR) | (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ___ (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.
Greg Dunn	EPS II	IEPA RPMS	(217) 782-6761

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ken Corkill	EPS III	IEPA RPMS	(217) 782-6761
Gary Reside	EPS II	IEPA RPMS	(217) 782-6761
Brian Martin	EPS II	IEPA RPMS	(217) 782-6761
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mr. Pat Patrella	Manager Governmental Affairs	6009-A Landerhaven Dr. Mayfield Hts., Ohio 44124	(216) 446-1200
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	8:00 Am	Sunny, Cold ≈ 35°, slight breeze

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Mr. Pat Patrella	Jennison-Wright Corp.	(216) 446-1200

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Gregory W. Dunn	IEPA	Pre-Remedial Unit	(217) 782-6761	03 17 89 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS 0
CUBIC YARDS ≈ 4316
NO. OF DRUMS 0

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN	UNKNOWN	Found in samples taken at site.
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES	UNKNOWN	UNKNOWN	Found in samples taken during SSI.
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
BAS	Pentachlorophenol	87-86-5	Substances found in	28000 J	ug/kg
BAS	Naphthalene	91-20-3	samples taken	11000 J	ug/kg
BAS	2-methylnaphthalene	91-57-6	during the SSI.	560 J	ug/kg
BAS	Dibenzofuran	132-64-9	(Highest value given)	10000 J	ug/kg
BAS	Phenanthrene	85-01-8		160000 B	ug/kg
BAS	Fluoranthene	206-44-0		1900000	ug/kg
BAS	Pyrene	129-00-0		1500000	ug/kg
BAS	Fluorene	86-73-7		4200 J	ug/kg
BAS	Acenaphthylene	208-96-8		400 J	ug/kg
BAS	Acenaphthene	83-32-9		28000 J	ug/kg
BAS	Anthracene	120-12-7		410000 J	ug/kg
BAS	Benzo(a) anthracene	56-55-3		530000 J	ug/kg
BAS	Chrysene	218-01-9		580000	ug/kg
BAS	Benzo(b) fluoranthene	205-99-2		190000 J	ug/kg
BAS	Benzo(k) fluoranthene	207-08-9		16000	ug/kg
BAS	Benzo(a) pyrene	50-32-8		140000 J	ug/kg

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)

Sample Results from November 28, 1988 SSI
Division of Land Pollution Control Files

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
BAS	Indeno (1,2,3-cd) Pyrene	193-39-5		21000	ug/kg
OCC	2378-TCDD			7	ppt
OCC	12378-PeCDD			78	ppt
OCC	123478-HxCDD			523	ppt
OCC	123678-HxCDD			2104	ppt
OCC	123789-HxCDD			1932	ppt
OCC	1234678-HpCDD			201585	ppt
OCC	OCDD			760936	ppt
OCC	123478-HxCDF			117	ppt
OCC	234678-HxCDF			42	ppt
OCC	1234678-HpCDF			5127	ppt
OCC	1234789-HpCDF			327	ppt
OCC	OCDF			34922	ppt
OCC	Total TCDD			79	ppt
OCC	Total PeCDD			1837	ppt
OCC	Total HxCDD			41946	ppt
OCC	Total HpCDD			537156	ppt
OCC	Total HxCDF			4011	ppt
OCC	Total HpCDF			29153	ppt

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D 006282479

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☒ OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 689
04 NARRATIVE DESCRIPTION
On-site monitor wells were sampled on 2/10/88 indicated above background levels of some volatiles and PNA's. Groundwater in the area is obtained from 20 feet down to 115 feet. This unit is comprised of fine sands and coarse sand and gravels.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☒ OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
A Soil/Sediment sample taken from a runoff area on the northeast edge of the facility indicates contaminants flowing off-site. This area of run-off drains to a large depression Northeast of the facility. this ponded area does not flow to any surface water areas.

01 ☒ C. CONTAMINATION OF AIR — 02 ☒ OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 47,443
04 NARRATIVE DESCRIPTION
Samples from a bermed area off-site, to the north of the facility, indicate contaminants have been carried off-site. Population within four miles of the site is 47,443 residents.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☒ OBSERVED (DATE: ≈ 1975) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 42730
04 NARRATIVE DESCRIPTION
Approximately 1975, A fire broke out at the facility in the Pentachlorophenol process. Details of the fire have not been found.

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 18407
04 NARRATIVE DESCRIPTION
A residential area is located immediately west and northwest of the facility. Homes on the west of the facility are less than 200 feet from the facility. Some contaminants have been found in the backyards of these homes.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: ≈ 2 (Acres)
04 NARRATIVE DESCRIPTION
Soil samples taken on-site by Woodward-Clyde Consultants and off-site soil samples taken by IEPA personnel indicate contamination of the soil; compounds are: PNA's, volatiles and Dioxin/Furan compounds

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 689
04 NARRATIVE DESCRIPTION
See "A" above.

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 100
04 NARRATIVE DESCRIPTION
See "E" and "F" above.

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 47443
04 NARRATIVE DESCRIPTION
See "E" Above

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D 006282479

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☒ OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Many areas of past waste disposal have no vegetation growing on or around the disposal area.

01 ☒ K. DAMAGE TO FAUNA — 02 ☒ OBSERVED (DATE: 1986) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
An inspection conducted on May 6, 1986 revealed the bodies of two dogs in one of the waste areas.

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

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☒ OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 47,443 — 04 NARRATIVE DESCRIPTION
Contaminated water flows off-site from the northeast side of the facility. Creosote drips off of freshly treated railroad ties on the north end of the facility.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
Wastewater generated in the tank farm and treatment area pits from steam blowdown, vacuum pump seal water and washwater. Wastewater is pumped to decant tank, where creosote is removed and water is pumped to wastewater clarifier. Clarifier discharges to Granite City WWTP.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☒ OBSERVED (DATE: 1984) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Waste piles were observed south of the pressure cylinders contained off-spec creosote and penta treated wood blocks. Areas of past waste disposal exist on-site.

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 47,443

IV. COMMENTS

The site has had a history of bad housekeeping, with numerous violations cited.

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

Analytical Results from 2-10-88 Sampling of Monitor Wells.
Site Assessment Report for the Jennison-Wright Facility prepared by Woodward-Clyde Consultants

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

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	119040 ABD			Air Permits (see comments)
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☒ G. STATE (Specify)	1988-EE-1624			for wastewater pretreatment
☐ 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	UNKNOWN	UNKNOWN
☐ B. PILES	UNKNOWN	UNKNOWN
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND	UNKNOWN	GA
☐ E. TANK, BELOW GROUND	UNKNOWN	GA
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

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

05 OTHER
- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE: 26 (Acres)

07 COMMENTS

Air Permits are for:
Permit # 73050099 - Jennite Process, Boilers & Cyclones
77040037 - two wood fired boilers
84060064 - Creosote operation
84070052 - Woodworking, Fuel Oil & Pitch tanks
85-090060 - Zinc treating process

Treatment of stormwater and wastewater generated from processes discharges to Granite City Wastewater treatment Plant.

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.

wastes have been observed flowing in stormwater offsite. Past disposal areas of sludge waste are located off-site. The north end of the facility is exclusively for drying tics. The drip tracks contain alot of creosote contaminated soil.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

Waste disposal areas and run-off contaminated from site operations are located off-site

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

IEPA Division of Air Files
IEPA Division of Water Files
IEPA Division of Land Files
SSI conducted on November 28, 1988

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D006282479

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. ≈ 2.5 (mi)
B. 900 ft. ~~(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 689

03 DISTANCE TO NEAREST DRINKING WATER WELL 900 ft. ~~(mi)~~

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
15 (ft)	SSW	20 (ft)	UNKNOWN (gpd)	☒ YES ☐ NO

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

See Appendix I for well logs

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS	☐ YES ☒ NO	COMMENTS

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
No surface water is Affected.	☐	(mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 18407 NO. OF PERSONS	B. 42730 NO. OF PERSONS	C. 46210 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.09 (mi)

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

Topographic map does not distinguish buildings in urban area

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.04 (mi)

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

A residential area is on the west and northwest sides of the facility. Another residential area is east of the facility ≈ 0.5 miles. These areas comprise approximately 30% of the Granite City Population

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D006282479

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
115 (ft)	20 (ft)	UNKNOWN

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
1 (in)	2.8 (in)	≤3 %	NE & SW	≤3 %

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi)

OTHER: B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

UNKNOWN (mi)

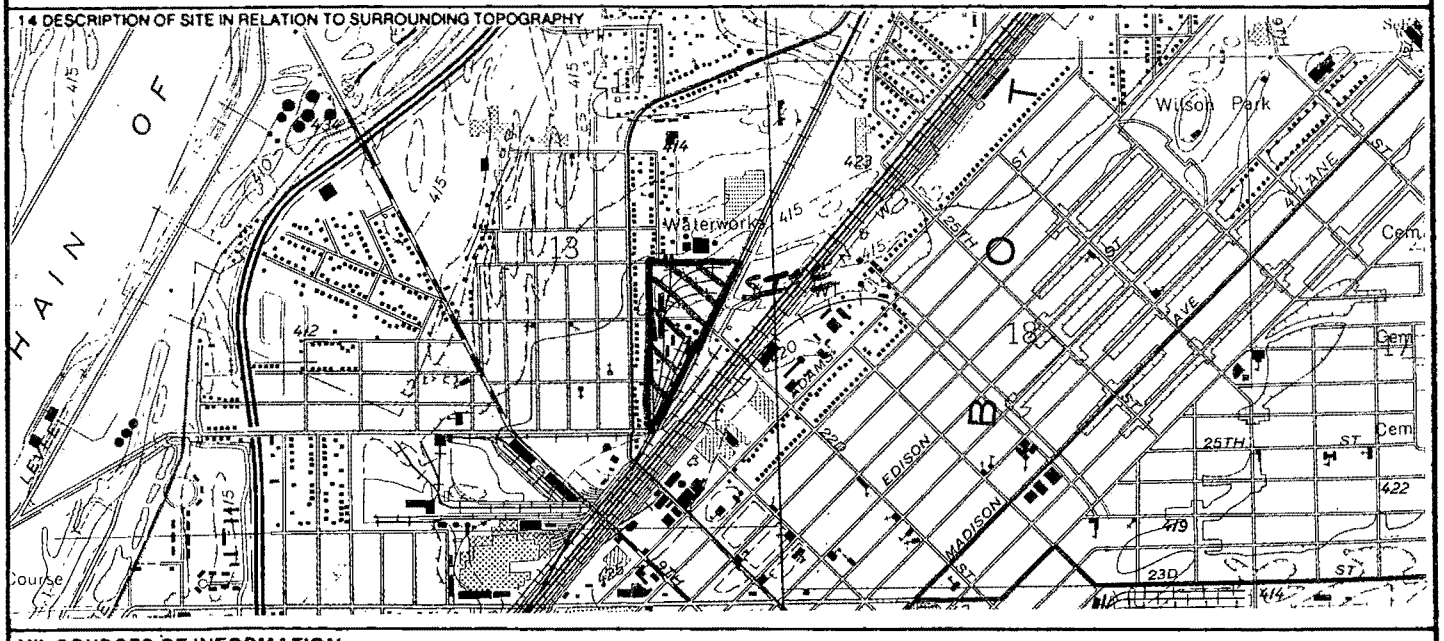
ENDANGERED SPECIES: Gray Bat & Indiana Bat

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.19 (mi)	B. 0.09 (mi)	C. 3.0 (mi)	D. 2.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

USGS Topographic map Granite City, Illinois 7.5 Minute Quadrangle
Illinois EPA Land Division Files
Illinois EPA Water Division Files
Illinois EPA Air Division Files
Site Assessment Report the Jennison-Wright Corp. Granite City, Il. Prepared by Woodward-Clyde Consultants

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	Organics - IEPA Springfield Lab Inorganics - IEPA Champaign Lab Dioxin to Triangle Labs Durham, N.C.	
SURFACE WATER			
WASTE			
AIR (wipe Samples)	2	Organics to IEPA Springfield Lab Inorganics to IEPA Champaign Lab Dioxin to Triangle Labs Durham, N.C.	
RUNOFF			
SPILL			
SOIL	10	Organics to IEPA Springfield Lab - Inorganics to IEPA Champaign Lab Dioxin to Triangle Labs Durham, N.C.	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	No readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Illinois EPA (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Illinois EPA

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

G201 - pH 6.15 Conductivity 1166 ymhos Temperature 56.6°

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

Analytical results from samples taken during November 28, 1988 SSI
Observations during the November 28, 1988 SSI

Inorganic Target Compounds

Metals Analyses (CRDL)-ug/l*	
Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Chromium	10
Cobalt	50
Copper	25
Iron	100
Lead	5
Manganese	15
Mercury	0.2
Nickel	40
Selenium	5
Silver	10
Thallium	10
Vanadium	50
Zinc	20

Other Inorganics
Cyanide
Sulfide
Phenols
Nitrogen-Ammonia
Nitrogen, Total Kjeldahl
Nitrogen-Nitrate
Boron
pH

*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illutrated in the example below:

For lead:

Method in use -- ICP
Instrument Detection Limit (IDL) = 40
Sample Concentration = 85
Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

Pesticide Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. alpha-BHC	.05 ug/l	8.0 ug/kg
2. beta-BHC	.05	8.0
3. delta-BHC	.05	8.0
4. Lindane (gamma-BHC)	.05	8.0
5. Heptachlor	.05	8.0
6. Aldrin	.05	8.0
7. Heptachlor epoxide	.05	8.0
8. Endosulfan I	.05	8.0
9. 4,4'-DDE	.10	16.0
10. Dieldrin	.10	16.0
11. Endrin	.10	16.0
12. 4,4'-DDD	.10	16.0
13. Endosulfan II	.10	16.0
14. 4,4'-DDT	.10	16.0
15. Endrin aldehyde	.10	16.0
16. Endosulfan sulfate	.10	16.0
17. Methoxychlor	.50	80.0
18. Chlordane	.50	80.0
19. Toxaphene	.50	80.0
20. Arochlor-1016	1.0	160.0
21. Arochlor-1221	.50	80.0
22. Arochlor-1232	.50	80.0
23. Arochlor-1242	.50	80.0
24. Arochlor-1248	.50	80.0
25. Arochlor-1254	1.0	160.0
26. Arochlor-1260	1.0	160.0

Acid Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Benzoic Acid	50 ug/l	1600 ug/kg
2. Phenol	10	330
3. 2-chlorophenol	10	330
4. 2-nitrophenol	50	1600
5. 2-methylphenol	10	330
6. 2,4-dimethylphenol	10	330
7. 4-methylphenol	10	330
8. 2,4-dichlorophenol	10	330
9. 2,4,6-trichlorophenol	10	330
10. 2,4,5-trichlorphenol	50	1600
11. 4-chloro-3-methylphenol	10	330
12. 2,4-dinitrophenol	50	1600
13. 2-methyl-4,6-dinitrophenol	50	1600
14. Pentachlorophenol	50	1600
15. 4-nitrophenol	50	1600

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Jennison-Wright Corp		900 W. 22nd Street		Granite City	IL	62040

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
Jennison-Wright Corp		6009-A Landerhaven Drive		Mayfield Heights	OH	44124

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

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Jennison-Wright Liquidating Trust		900 W. 22nd Street		Granite City	IL	62040
Midland Creosote		900 W. 22nd Street		Granite City	IL	62040

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

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

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

IEPA - Land Division Files
IEPA - Air Division Files
IEPA - Water Division Files
Il. Department of Energy & Natural Resources, ISWS, Historical Assessment of Hazardous Waste Management in Madison & St. Clair Counties IL 1890-1980, Craig Colten 1988

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D006282479

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Same as current owner	

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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

01 NAME	02 D+B NUMBER
Jennison-Wright Liquidating Trust	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
900 W. 22nd Street	

05 CITY	06 STATE	07 ZIP CODE
Granite City	IL	62040

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1951-1981	

01 NAME	02 D+B NUMBER
Midland Creosote	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
900 W. 22nd Street	

05 CITY	06 STATE	07 ZIP CODE
Granite City	IL	62040

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
≈1915-1951	

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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

IEPA - Land Division Files

Illinois Department of Energy & Natural Resources, ISWS, Historical Assessment of Hazardous waste Management in Madison & St. Clair Counties, IL. 1890-1980 Craig Colten 1988

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A			
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
N/A			
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)

IEPA - Land Division Files

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II. PAST RESPONSE ACTIVITIES

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

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

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

01 ☒ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☒ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

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

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

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II PAST RESPONSE ACTIVITIES (Continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

IEPA - Land Division Files

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D006282479

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

A consent decree was signed in January 1986 between IEPA, Jennison-Wright corporation and J.W. Liquidating Trust. The settlement involved bringing the facility into compliance with the Environment Protection act and Pollution Control Board Regulations and cease and desist from further violations of the Act and Board Regulations. Also, obtaining the necessary permits for operation of all of the facility's components and to implement a compliance program at the facility in order to investigate to potential for a release of hazardous wastes to the environment.

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

Illinois EPA - Land Division Files
Illinois EPA - Water Division Files
Illinois EPA - Air Division Files

APPENDIX C

USEPA IMMEDIATE REMOVAL ACTION CHECKSHEET

IMMEDIATE REMOVAL ACTION CHECK SHEET

Site Name: Jennison-Wright Corp IL D 006282479

	High	Moderate	Low
Fire and Explosion Hazard:			
Flammable Materials:			X
Explosives:			X
Incompatible Chemicals:		X	
Direct Contact with Acutely Toxic Chemicals:			
Site Security:			X
Leaking Drums or Tanks:			X
Open Lagoons or Pits:	X		
Materials on Surface:	X		
Proximity of Population:	X		
Evidence of Casual Site Use:			X
Contaminated Water Supply:			
Exceeds 10 Day Snarl:			X
Gross Taste or Odors:			X
Alternate Water Available:			X
Potential Contamination:	X		
Is the site abandoned or active? Active			

Comments: Site is surrounded by a fence. Materials on surface are inside and outside the plant boundary. Residential area is directly west of the site.

APPENDIX D

TARGET COMPOUND LIST

TARGET COMPOUND LIST

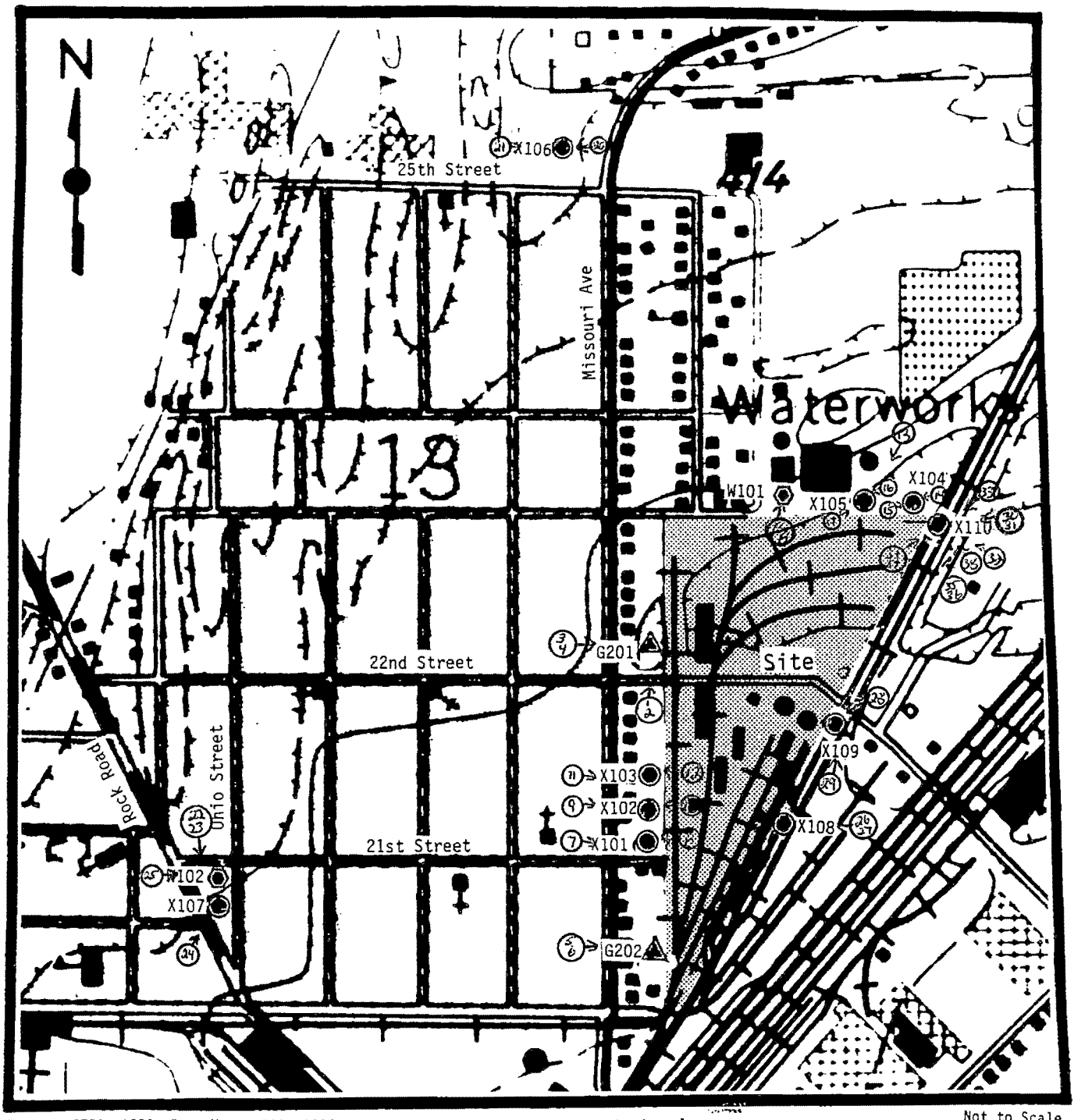
Volatile Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. chloromethane	10 ug/l	10 ug/kg
2. bromomethane	10	10
3. vinyl chloride	10	10
4. chloroethane	10	10
5. methylene chloride	5	5
6. acetone	10	10
7. carbon disulfide	5	5
8. 1,1-dichloroethene	5	5
9. 1,1-dichloroethane	5	5
10. t-1.2-dichloroethene	5	5
11. 1,2-dichloropropane	5	5
12. chloroform	5	5
13. 1,2-dichloroethane	5	5
14. 2-butanone	10	10
15. 1,1,1-trichloroethane	5	5
16. carbon tetrachloride	5	5
17. vinyl acetate	10	10
18. dichlorobromomethane	5	5
19. c-1,3-dichloropropene	5	5
20. trichloroethene	5	5
21. benzene	5	5
22. chlorodibromomethane	5	5
23. 1,1,2-trichloroethane	5	5
24. t-1,3-dichloropropene	5	5
25. 2-chloroethyl vinyl ether	10	10
26. bromoform	5	5
27. 2-hexanone	10	10
28. 4-methyl-2-pentanone	10	10
29. 1,1,2,2-tetrachloroethane	5	5
30. tetrachloroethene	5	5
31. toluene	5	5
32. chlorobenzene	5	5
33. ethylbenzene	5	5
34. styrene	5	5
35. total xylenes	15	15

CRDL - Contract Required Detection Limit

Base/Neutral Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Hexachloroethane	10 ug/l	330 ug/kg
2. Bis (2-chloroethyl) ether	10	330
3. Benzyl Alcohol	10	330
4. Bis (2-chloroisopropyl) ether	10	330
5. N-nitrosodi-n-propylamine	10	330
6. Nitrobenzene	10	330
7. Hexachlorobutadiene	10	330
8. 2-Methylnaphthalene	10	330
9. 1,2,4-trichlorobenzene	10	330
10. Isophorone	10	330
11. Naphthalene	10	330
12. 4-Chloroaniline	10	330
13. Bis (2-chloroethoxy) methane	10	330
14. Hexachlorocyclopentadiene	10	330
15. 2-chloronaphthalene	10	330
16. 2-Nitroaniline	50	1600
17. Acenaphthylene	10	330
18. 3-Nitroaniline	50	1600
19. Acenaphthene	10	330
20. Dibenzofuran	10	330
21. Dimethylphthalate	10	330
22. 2,6-Dinitrotoluene	10	330
23. Fluorene	10	330
24. 4-Nitroaniline	50	1600
25. 4-Chlorophenyl-phenyl ether	10	330
26. 2,4-Dinitrotoluene	10	330
27. Diethylphthalate	10	330
28. N-Nitrosodiphenylamine	10	330
29. Hexachlorobenzene	10	330
30. Phenanthrene	10	330
31. 4-Bromophenyl-phenyl ether	10	330
32. Anthracene	10	330
33. Dibutylphthalate	10	330
34. Fluoranthene	10	330
35. Pyrene	10	330
36. Butyl benzyl phthalate	10	330
37. Bis (2-ethylhexyl) phthalate	10	330
38. Chrysene	10	330
39. Benzo (a) anthracene	10	330
40. 3,3'-Dichlorobenzidene	20	660
41. Di-n-octyl phthalate	10	330
42. Benzo (b) fluoranthene	10	330
43. Benzo (k) fluoranthene	10	330
44. Benzo (a) pyrene	10	330
45. Indeno (1,2,3-cd) pyrene	10	330
46. Dibenzo (a,h) anthracene	10	330
47. Benzo (g,h,i) perylene	10	330
48. 1,2-Dichlorobenzene	10	330
49. 1,3-Dichlorobenzene	10	330
50. 1,4-Dichlorobenzene	10	330



Source: IEPA, 1989. Base Map: USGS, 1982 Granite City, IL-MO 7.5 Minute Quadrangle

Not to Scale

PHOTO LOCATION MAP

APPENDIX E

IEPA SITE PHOTOGRAPHS

DATE: November 29, 1988

TIME: 8:40 Am

Photograph by:

Gary Reside

Location: ILD 006282479

L1190400008 - - Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 8:40 A.m.

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 9:10 am

Photograph by:

Gary Reside

Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 9:10 am

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

ME: 10:15 Am

Photograph by:

Gary Reside

Location: ILD 006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 10:15 Am

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: November 29, 1988

ME: 11:00 Am

Photograph by:

Greg Dunn

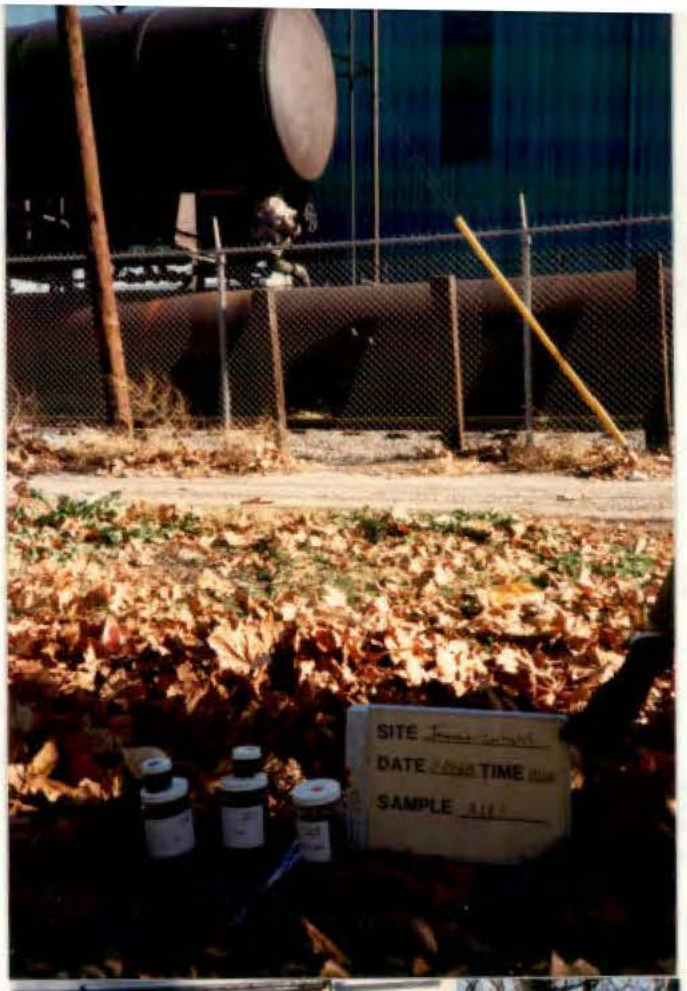
Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive



DATE: November 29, 1988

TIME: 11:00 Am

Photograph by:

Greg Dunn

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

DATE: November 29, 1988

ME: 11:20 Am

Photograph by:

Greg Dunn

Location: ILD006282479

L1190400008--Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 11:20 Am

Photograph by:

Greg Dunn

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 11:35 AM

Photograph by:

Gary Reside

Location: ILD006282479

L1190400008--Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 11:35 AM

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

Non-responsive

[redacted]

DATE: November 29, 1988

TIME: 12:40 pm

Photograph by:

Gary Reside

Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward southwest at the north end of the Jennison Wright facility

13

DATE: November 29, 1988

TIME: 12:45 pm

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward northwest at sample point X104. Illinois American Water Company is in the background. 14

DATE: November 29, 1988

ME: 12:45 pm

Photograph by:

Gary Reside

Location: ILD 006282479

L1190400008 -- Madison Co.

Jennison Wright Corp

Comments: Picture taken toward

Southeast at sample

point X104.

15

DATE: November 29, 1988

TIME: 12:55 pm

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

Northwest at sample point

X105. Illinois American

Water Company is in the

background. 16

DATE: November 29, 1988

TIME: 12:55 pm

Photograph by:

Gary Reside

Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward southeast at sample point X105

17

DATE: November 29, 1988

TIME: 1:11 pm

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward north at sample point W101 Building is just north of the Jennison Wright facility

18

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: November 29, 1988

ME: 1:11 pm

Photograph by:

Gary Reside

Location: ILD006282479

IL1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward North northeast at sample point W101 on Il. American Water Company property

19

DATE: November 29, 1988

TIME: 1:40 pm

Photograph by:

Gary Reside

Location: IL1190400008

Jennison Wright Corp.

Comments: Picture taken toward west at sample point X106 corner of West 25th Street and Missouri

20

DATE: November 29, 1988

TIME: 1:40 pm

Photograph by:

Gary Reside

Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward southeast at sample point X106 at the northwest corner of W. 25th and Missouri

21

DATE: November 29, 1988

TIME: 2:00 pm

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward south at sample point X107 in Triangle Park W. 21st and Rock Road

22

DATE: November 29, 1988

TIME: 2:00 P

Photograph by:

Gary Reside

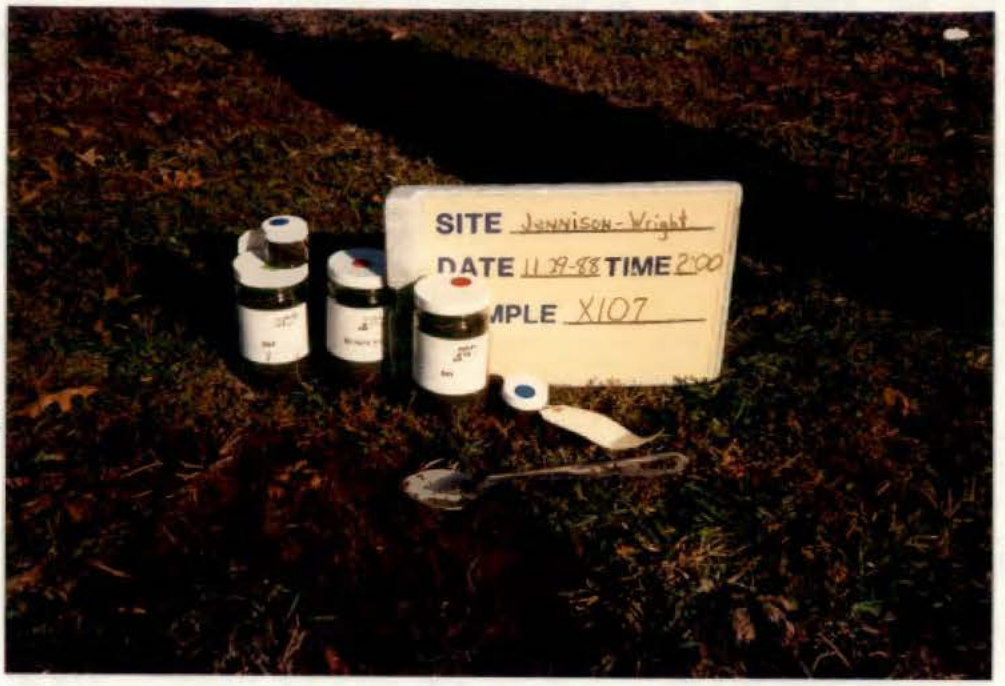
Location: ILD 006282479

L1190400008 - Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward south at sample point X107 in Triangle park at the corner of W. 21st and Rock Road

23



DATE: November 29, 1988

TIME: 2:00 pm

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp

Comments: Picture taken toward northeast at sample point X107 in Triangle Park at W. 21st and Rock Road

24

DATE: November 29, 1988

TIME: 2:13 p

Photograph by:

Gary Reside

Location: ILD 006 282 479

L1190400008 -- Madison Co.

Jennison Wright Corp

Comments: Picture taken toward northeast at sample point W102 at the corner of Ohio Street and W. 21st

25

DATE: November 29, 1988

TIME: 2:45 p

Photograph by:

Gary Reside

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward west at sample point X108 on the east edge of the facility

26

DATE: November 29, 1988

TIME: 2:45 pm

Photograph by:

Gary Reside

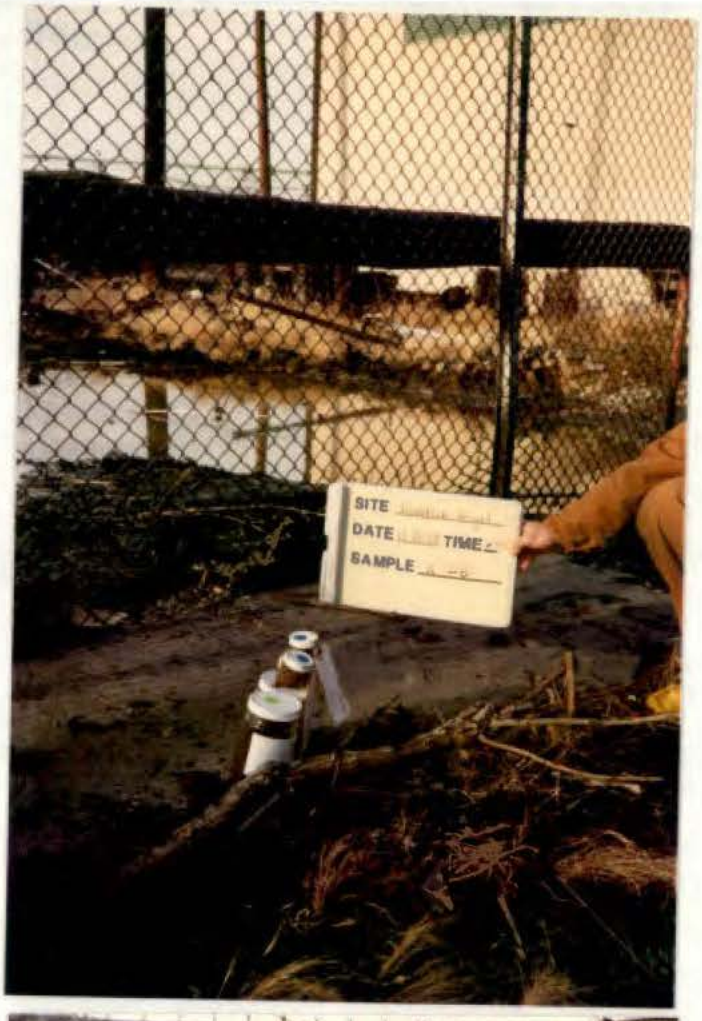
Location: ILD 006282479

IL1190400008 -- Madison Co.

Jennison Wright Corp

Comments: Picture taken toward northwest at sample point X108 on the east edge of the facility.

27



DATE: November 29, 1988

TIME: 3:05 pm

Photograph by:

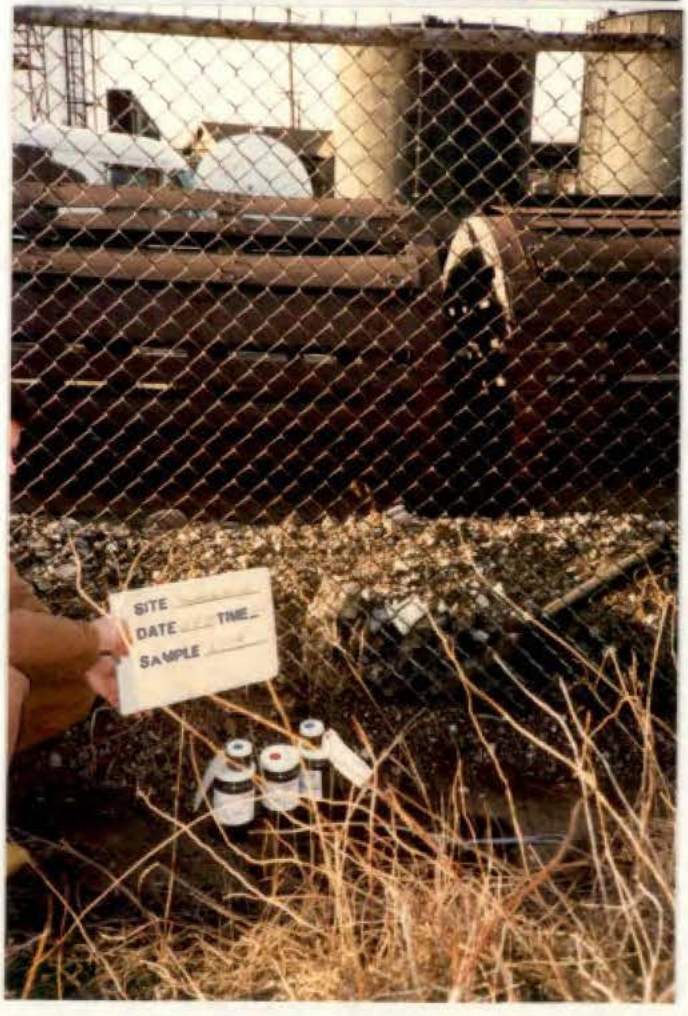
Gary Reside

Location: IL1190400008

Jennison Wright Corp.

Comments: Picture taken toward west at sample point X109 looking into the facility.

28



DATE: November 29, 1988

IME: 3:05 pm

Photograph by:

Gary Reside

Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp

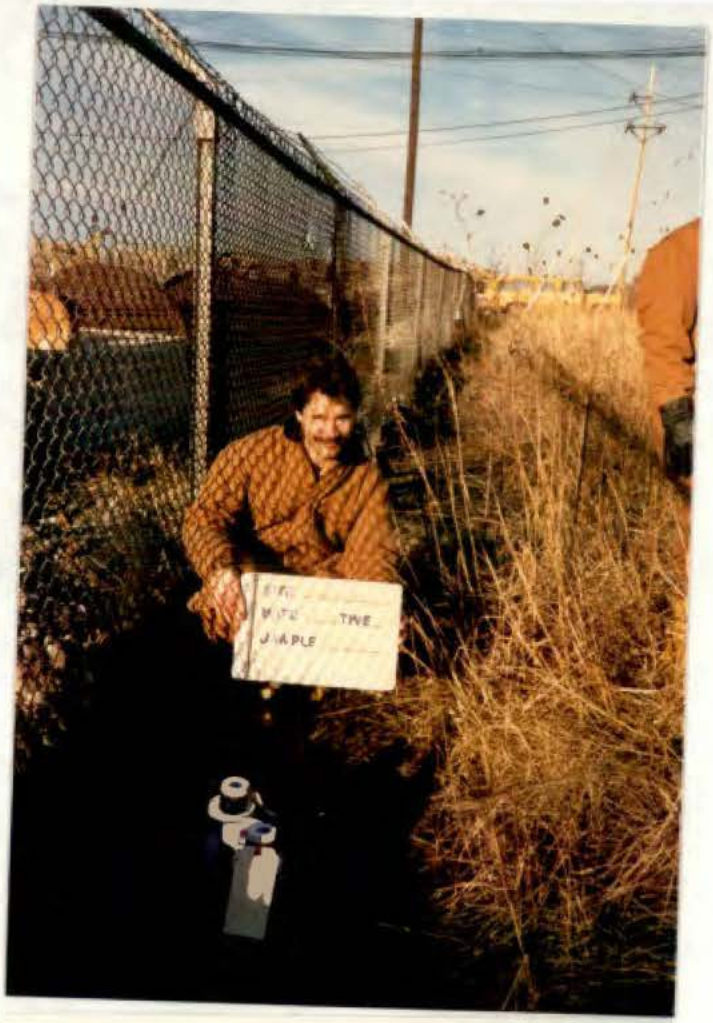
Comments: Picture taken toward

northeast at sample point

X109 on the east edge of

the facility.

29



DATE: November 29, 1988

TIME: 3:15 pm

Photograph by:

Ken Corkill

Location: L1190400008

Jennison Wright Corp

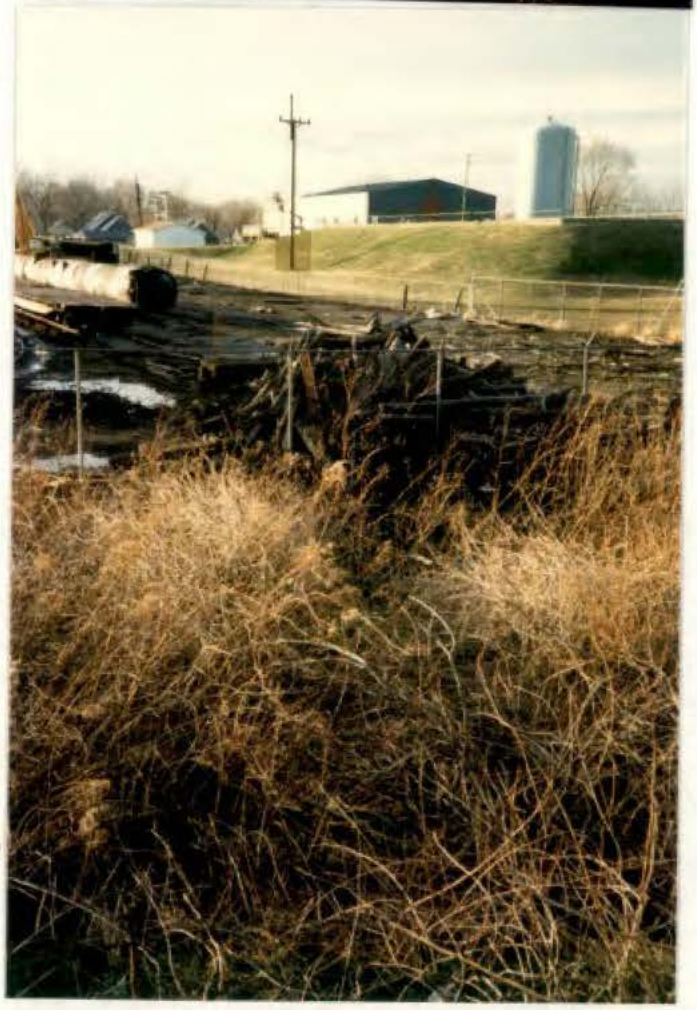
Comments: Picture taken toward

west northwest at north

end of facility. IL. American

Water Company is in the

background 30



IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: November 29, 1988

TIME: 3:15 pm

Photograph by:

Ken Corkill

Location: ILD 006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

West, inside the Jennison

Wright facility

31

DATE: November 29, 1988

TIME: 3:15pm

Photograph by:

Ken Corkill

Location: L1190400008

Jennison Wright Corp

Comments: Picture taken toward

North northwest at the

area north of the

facility

32

DATE: November 29, 1988

TIME: 3:20 pm

Photograph by:

Ken Corkill

Location: ILD006282479

L1190400008 -- Madison Co

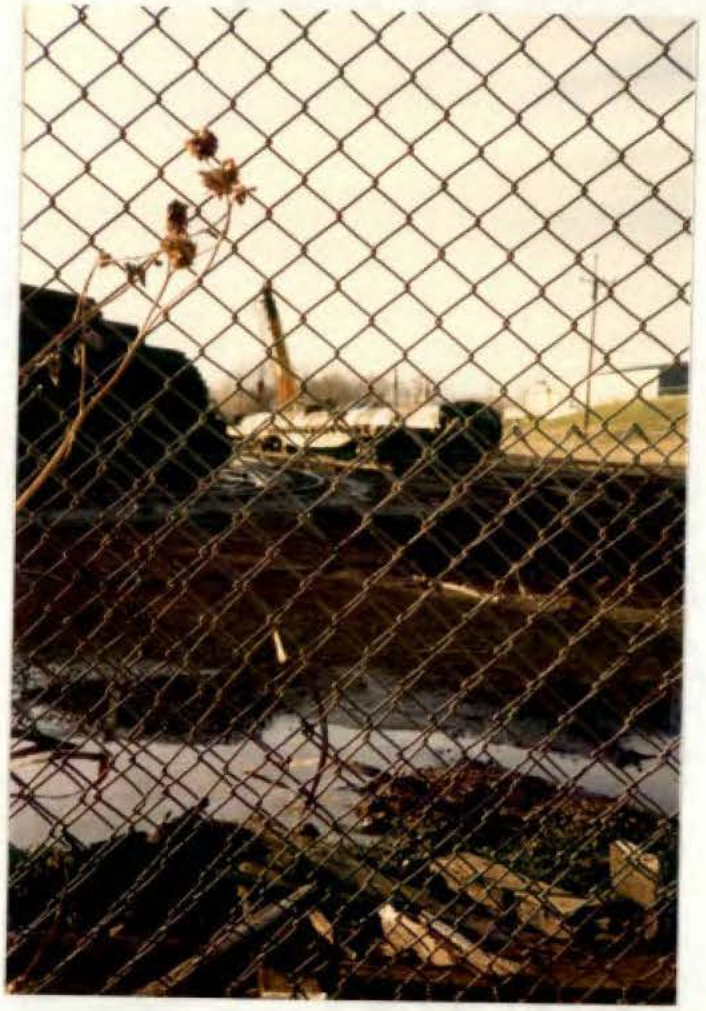
Jennison Wright Corp.

Comments: Picture taken toward

west looking at the

northend of the facility

33



DATE: November 29, 1988

TIME: 3:20 pm

Photograph by:

Ken Corkill

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

Northeast on the

Northend facility fence

34

DATE: November 29, 1988

TIME: 3:25 pm

Photograph by:

Ken Corkill

Location: ILD006282479

L1190400008 - - Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Northeast at a drainage

ditch. Water from site

flows into this ditch

35

DATE: November 29, 1988

TIME: 3:25 pm

Photograph by:

Ken Corkill

Location: L1190400008

Jennison Wright

Comments: Picture taken toward

northeast at drainage

area on northend of

site.

36

IL 532-0603
L/NPC 24 (Rev. 7/88)

DATE: November 29, 1988

TIME: 3:30 pm

Photograph by:

Ken Corkill

Location: ILD006282479

L1190400008 -- Madison Co.

Jennison Wright Corp.

Comments: Picture taken toward

Northeast at sample

Point X110

37

DATE: November 29, 1988

TIME: 3:30 pm

Photograph by:

Ken Corkill

Location: L1190400008

Jennison Wright Corp.

Comments: Picture taken toward

west at sample

point X110

38

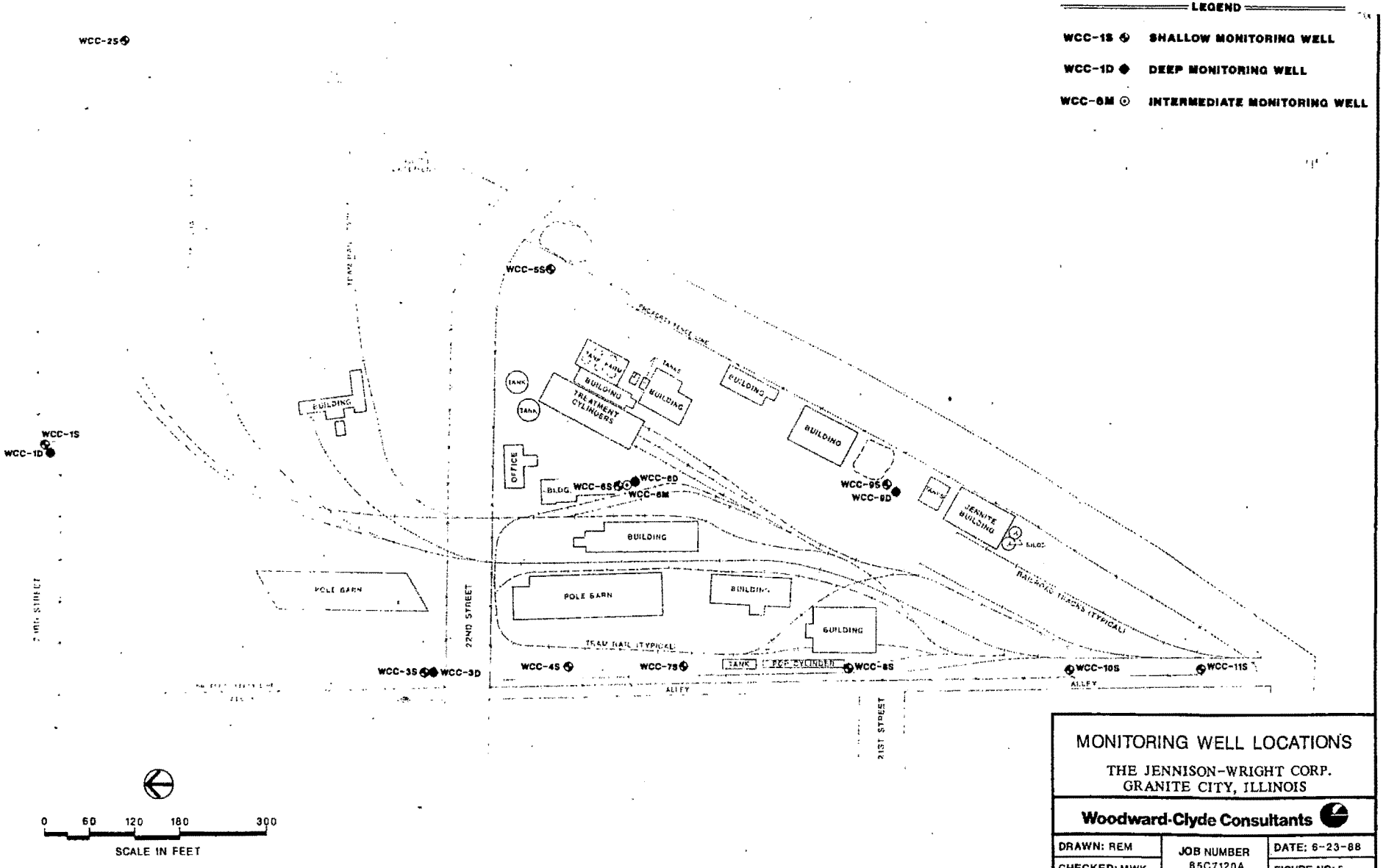
APPENDIX F

ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

Appendix F is located in Volume 2 of
SSI Package

APPENDIX G

BORING LOGS FOR ON-SITE MONITOR WELLS



MONITORING WELL LOCATIONS

THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

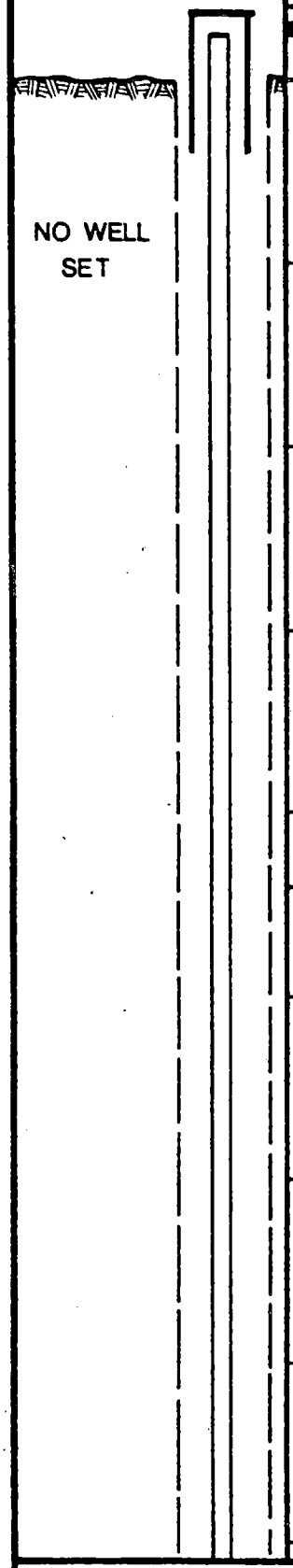
DRAWN: REM	JOB NUMBER 85C7120A	DATE: 6-23-88
CHECKED: MWK		FIGURE NO: 5

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 421.0' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	41	24"	Dense, black cinder, gravel and sand (FILL)	HNu - N.D.
					Hard, brown, sandy, silty CLAY (CL)	
	2	X	8	24"	Loose, dry, brown, fine SAND (SP)	
5	3	X	5	24"	Loose, brown, fine, silty SAND (SM) . . . 2 inch, silty CLAY (CL) layer	
	4	X	11	24"	Loose to medium dense, gray-brown, fine SAND (SP)	
	5	X	8	24"		
10	6	X	8	24"		
					Stiff, gray-brown, sandy, silty CLAY (CL)	perched water
	7	X	14	24"	Loose to medium dense, gray-brown, fine SAND (SP)	
15	8	X	15	24"		ATD - 15.8'
	9	X	8	24"		
	10	X	9	24"	. . . brown to black laminations	
20	11	X	13	24"		
					End of Boring at 22.0 Ft.	
					Date Drilled - 11/10/87	
25						

LOG OF BORING A-1

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-2

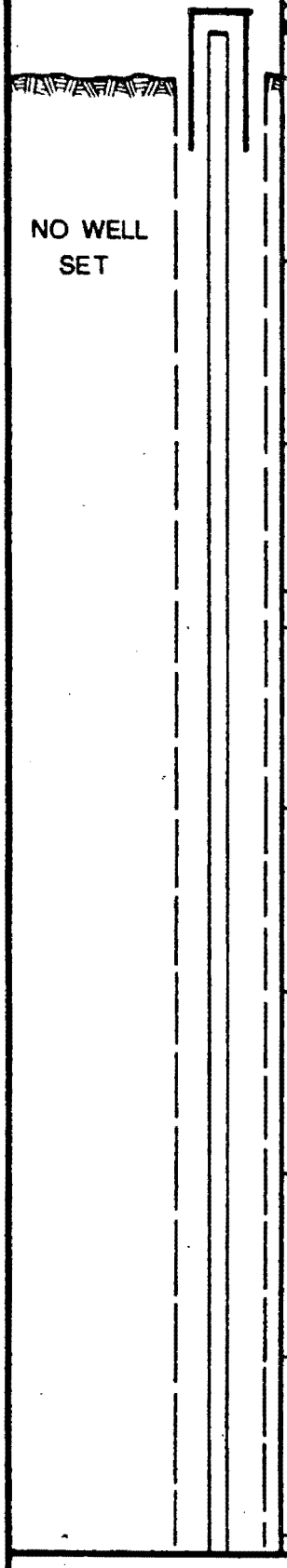
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 417.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	45/4"	6"	Very dense, black, gravel, sand (FILL)	
	2	X	16	12"		
	3	X	14	24"	Stiff, black, sandy, silty CLAY (CL)	
5	4	X	18	24"	Medium dense, brown, black stained SAND (SP)	HNu-.4 ppm
	5	X	31	24"	. . . becomes dense	
	6	X	15	24"	. . . becomes medium dense	
10	7	X	4	24"	Loose, gray-brown, fine, clayey SAND (SC)	ATD-10.5'
					Loose, gray-brown, fine SAND (SP)	
	8	X	6	24"	Stiff, gray, mottled, brown CLAY (CH)	
					Loose, gray-brown, fine SAND (SP)	
15					End of Boring at 14.0 Ft.	
					Date Drilled 11/10/87	

LOG OF BORING A-2

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-3

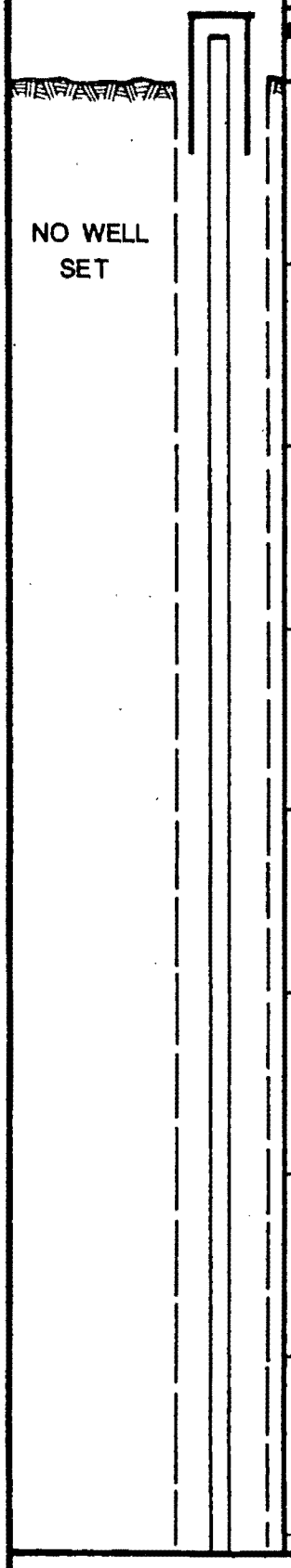
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 418.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	30/6" 30	18"	Medium dense, brown to black cinders, sand, brick (FILL)	HNu - N.D.
	2	X	13	24"		
5	3	X	13	24"	Stiff, moist, gray-black, fine, sandy CLAY (CL)	
	4	X	27	24"	Medium dense, dry, brown, fine, silty SAND (SM)	HNu - N.D.
	5	X	26	24"		
10	6	X	15	24"		
	7	X	15	24"		
15	8	X	6	24"	Stiff, gray, mottled, brown CLAY (CH)	ATD - 15'
	9	X	3	24"	Loose, gray, mottled, brown, fine, silty SAND (SM)	
	10	X	9	24"	Stiff, gray CLAY (CH)	
20					Loose, gray-brown, fine, silty SAND (SM)	

End of Boring at 20.0 Ft.

Date Drilled 11/9/87

LOG OF BORING A-3

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-4

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 418.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	11	24"	Loose, wet, black, gravel, sand and cinders (FILL)	
	2	X	14	24"	Stiff, moist, gray-black, sandy, silty CLAY (CL)	HNu - N.D.
5	3	X	30	24"	Medium dense, dry, brown, fine SAND (SP)	
	4	X	31	24"	. . . becomes dense	HNu - N.D.
	5	X	35	24"		
10	6	X	36	24"		
	7	X	13	24"	. . . becomes wet with dark brown to black stains	HNu - N.D.
15	8	X	4	24"	Soft, wet, gray CLAY (CH)	
	9	X	9	24"	Loose, wet, brown, fine SAND (SP)	ATD - 15.5'
	10	X	14	24"		
20					End of Boring at 20.0 Ft.	
					Date Drilled - 11/18/87	
25						

LOG OF BORING A-4

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-5

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 420.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	53	18"	Very dense, black cinders, gravel and sand (FILL) creosote stained	HNu - N.D.
	2	X	11	24"	Stiff, dark brown, silty CLAY with sand (CL)	
5	3	X	10	24"	Loose, moist, brown, fine SAND (SP)	HNu - N.D.
	4	X	5	24"	Loose, wet, brown, clayey SAND (SC)	
	5	X	4	24"	Soft, wet, brown, mottled, gray, silty CLAY (CL) with saturated, clay-ey, silt pockets	perched water
10	6	X	22	24"	Medium dense, dry, brown, fine SAND (SP)	
	7	X	30	24"		HNu - N.D.
15	8	X	32	24"	. . . becomes dense	
	9	X	60	24"	. . . becomes wet	HNu - N.D.
	10	X	39	24"		HNu - 90 ppm
20						ATD-20'
	11	X	36	24"		HNu - 200 ppm
					End of Boring at 22.0 Ft.	
					Date Drilled - 11/18/87	
25						

LOG OF BORING A-5

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-6

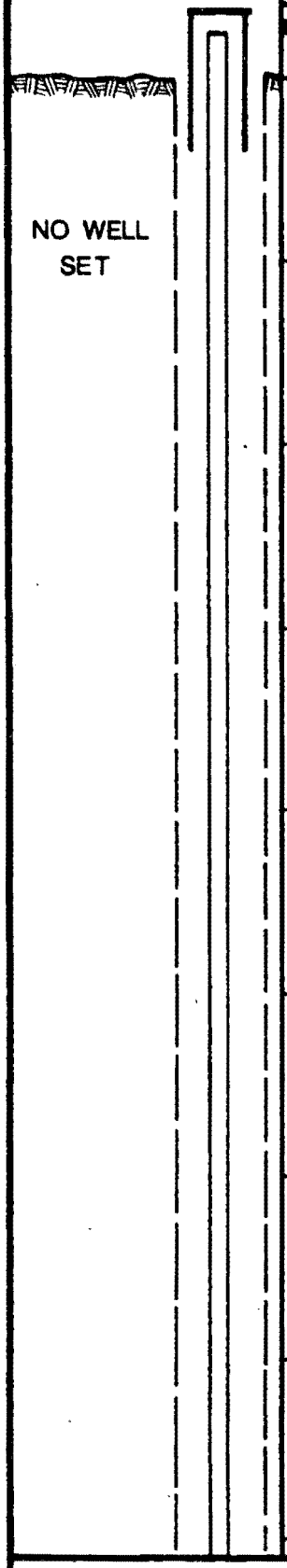
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN\MATHES & ASSOC.

GROUND ELEV. 420.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	52	24"	Dense, gray-black, gravel, cinders, sand (FILL), creosote-stained	HNu - N.D.
	2	X	15	24"	Stiff, gray-black CLAY (CL)	
5	3	X	8	24"	Loose, dry, brown, fine SAND (SP)	HNu - N.D.
	4	X	6	24"	. . . becomes wet	perched water
	5	X	10	24"	Firm to stiff, moist, brown, mottled, gray CLAY (CL) . . . 1" sand seam	
10	6	X	17	24"	Medium dense, dry, gray and brown, fine SAND (SP)	HNu - N.D.
	7	X	29	24"		
15	8	X	32	24"	. . . becomes dense	HNu - N.D.
	9	X	68	24"	. . . becomes wet	
	10	X	44	24"		HNu-2000 ppm
20					End of Boring at 20.0 Ft.	ATD-20'
					Date Drilled 11/18/87	
25						

LOG OF BORING A-6

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-7

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 423.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	14	24"	Stiff, brown to black, silty, clay (FILL), creosote-saturated	
	2	X	4	24"	Loose, brown, fine, silty, SAND (SM)	
5	3	X	8	24"		
	4	X	9	24"		
	5	X	7	24"	...becomes mottled black with cresote	
10	6	X	6	24"	Firm, gray-brown, CLAY (CH)	
	7	X	9	24"	Loose, brown to gray mottled, sandy, silty CLAY (CL) and clayey, silty SAND (SM) seams. Creosote contamination	
15	8	X	6	24"	Firm, brown mottled CLAY (CH), with creosote spots	perched water
	9	X	13	24"	Medium dense, gray-brown, fine, silty, SAND (SM) with creosote	
	10	X	22	24"		
20	11	X	26	24"	Medium dense, brown to black, fine SAND (SP) saturated with creosote	ATD - 20'
25					End of Boring 22.0 Ft. Date Drilled 11/5/87	

LOG OF BORING B-1

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-8

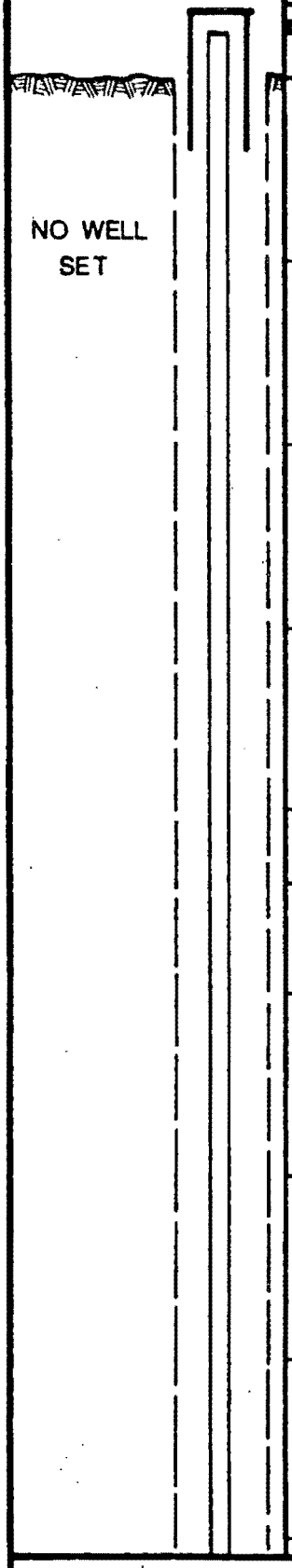
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 419.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	20	24"	Medium dense, brown, fine sand (FILL)	
					...black, sand and gravel (FILL)	
	2	X	9	24"	Loose, gray to black, silty SAND (SM) with creosote spotting	
5	3	X	9	24"	Stiff, gray to black, CLAY (CH) with creosote along fractures	HNu - 20ppm
	4	X	15	24"	...becomes olive brown	
	5	X	7	24"	Firm, gray, sandy CLAY (CL), with creosote contamination	HNu - 20ppm
10	6	X	7	24"	Loose, gray, fine, silty SAND (SM) . . . becomes saturated	perched water
	7	X	10	24"	Stiff, gray, mottled brown, silty CLAY (CH)	
15	8	X	2	24"	Loose, gray to black silty SAND (SM) ...< 1/8" layers of creosote-saturated silt	HNu - 25ppm
	9	X	9	24"	...stiff, gray-brown CLAY (CH)	
	10	X	5	24"	Loose, gray, mottled olive-brown, clayey, silt (ML) with trace sand, with creosote along fractures	ATD - 19.5'
20	11	X	12	24"	...becomes clayey with orange limonite staining	HNu - 4ppm
					Medium dense, brown, fine, silty SAND (SM)	
25					End of Boring at 22.0 Ft.	
					Date Drilled 11/6/87	

LOG OF BORING B-2

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-9

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 421.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	36	24"	Dense, brown & black, gravel, cinders, sand (FILL), creosote staining	HNu - 2ppm
	2	X	10	18"	Loose, moist, brown-black, clayey SAND (SC), creosote staining	
5	3	X	5	24"	Firm, moist, gray to black, silty CLAY (CL)	
	4	X	11	24"	...becomes stiff	HNu -100ppm
	5	X	10	24"	...becomes brown, clayey SILT (ML)	
10					Loose, brown, fine, silty SAND (SM)	
	6	X	9	24"		
	7	X	10	24"	...becomes saturated, trace orange-brown mottling	perched water
15	8	X	4	24"	Very loose, gray SILT (ML)	
	9	X	11	24"	Stiff, gray mottled, CLAY (CH)	HNu - 6ppm
	10	X	41	24"	Dense moist, gray, fine, silty SAND (SM)	ATD - 20'
20	11	X	11	24"	...becomes medium dense	HNU -100ppm
25					End of Boring 22.0 Ft. Date Drilled 11/6/87	

LOG OF BORING B-3

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-10

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 421.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
					Gravel and cinders (FILL)	
	1	X	9	12"	Loose, moist, dark brown, medium grained SAND (SW) with black staining	
	2	X	4	18"	...soft, moist, brown sand and CLAY(CL)	
5	3	X	4	18"	Very loose, moist, brown, medium, silty SAND (SM)	
	4	X	8	20"	Loose, moist, brown, fine SAND (SP)	
	5	X	8	20"		
10	6	X	8	18"		
	7	X	7	24"	...oxidized staining	
15	8	X	7	22"	...becomes saturated	perched water
	9	X	5	18"	Interbedded loose, brown silty SANDS (SM) and firm, gray-brown mottled CLAY (CL)	
	10	X	14	24"	Medium dense, moist, brown, SAND (SP)	
20	11	X	17	22"		ATD - 21'
					End of Boring at 22.0 Ft. Date Drilled 11/11/87	
25						

LOG OF BORING C-1

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-11

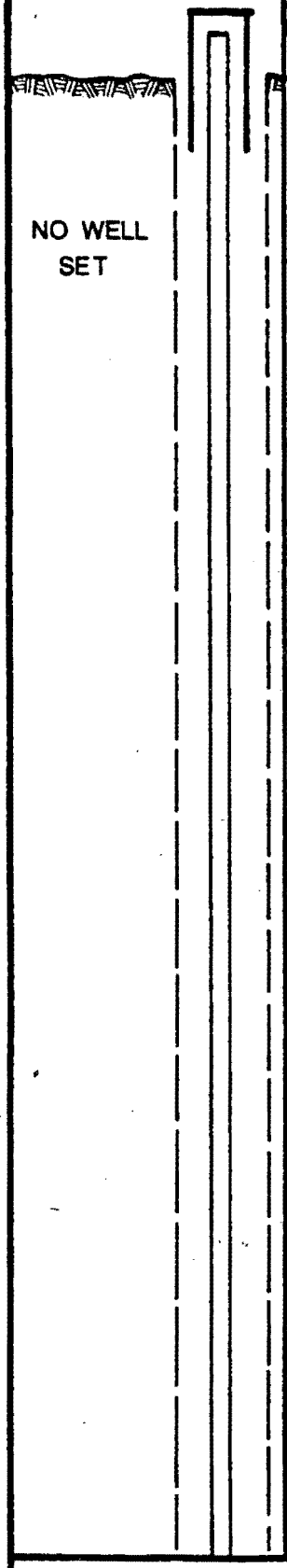
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 421.5 INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	9	18"	Loose, wet, black, sand and cinders (FILL)	HNu - 30ppm
	2	X	9	24"	Stiff, gray, mottled brown, sandy, silty, CLAY (CL)	HNu - 5ppm
5	3	X	9	24"		HNu - 4ppm
	4	X	10	24"	Loose to medium dense, moist to dry, gray, fine, SAND (SP)	
	5	X	12	24"		HNu - 8ppm
10	6	X	7	24"		
	7	X	12	24"	... 12" loose, wet, gray brown, clayey SILT (ML) ...becomes dense	HNu - 12 ppm
15	8	X	32	24"		
	9	X	35	24"		HNu - 15ppm
	10	X	12	24"		HNu - 18ppm
20					End of Boring at 20.0 Ft. Date Drilled 12/11/87	ATD - 19'

LOG OF BORING C-2

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-12

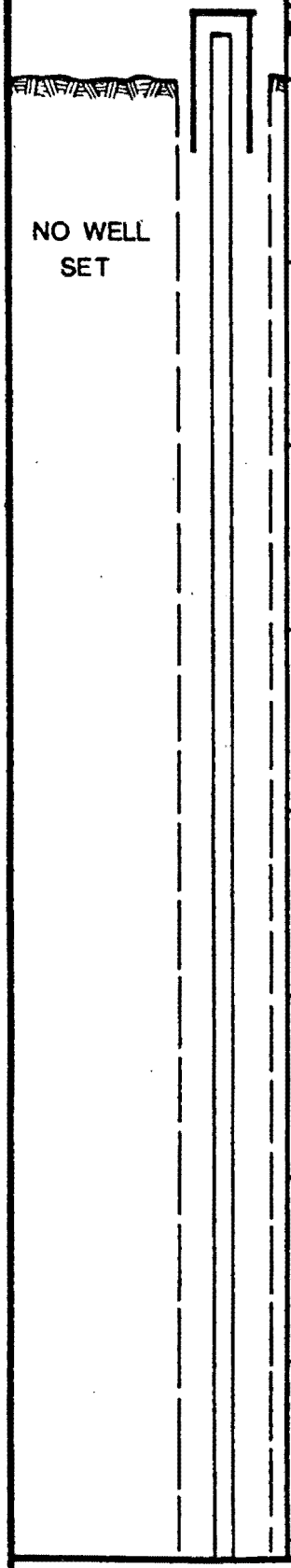
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. NA INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. NO.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	11	24"	Black, cinders with creosote (FILL)	
	2	X	9	24"	Loose, black to gray, fine, silty SAND (SM) with creosote staining	HNu - 10ppm
5	3	X	10	24"	Stiff, dark gray to black, silty, CLAY (CL), with creosote along fractures	
	4	X	10	24"	Stiff, gray, mottled, brown CLAY (CH)	
	5	X	10	24"	...Loose, gray, silty SAND (SM)	
10	6	X	4	24"	Very loose to loose, gray to black, fine clayey, silty, SAND (SC) ...saturated with creosote	HNu-50 ppm
	7	X	9	24"	...stiff, gray, CLAY (CH)	
15	8	X	11	24"	Medium dense, gray, fine silty SAND(SM) ...becomes brown with alternating black layers	
	9	X	19	24"	...becomes saturated & creosote stained	ATD - 18'
	10	X	13			
20					End of Boring at 20.0 Ft. Date Drilled 11/9/88	

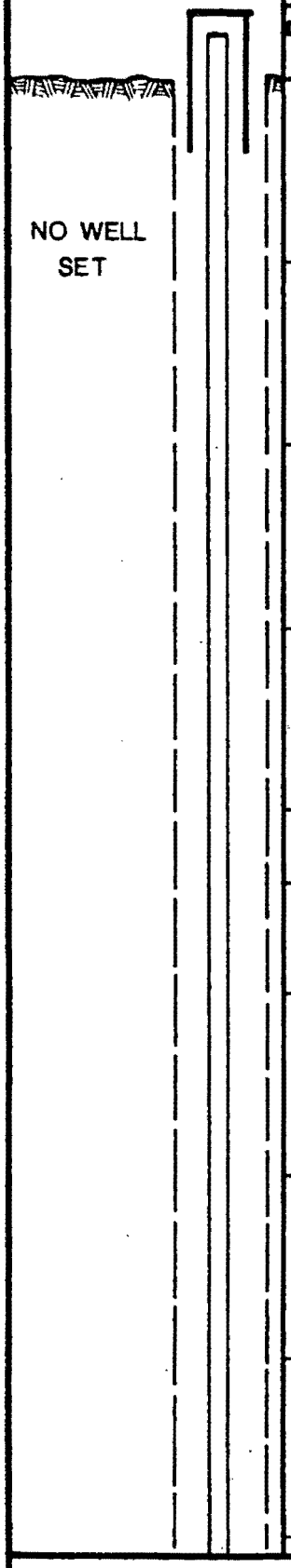
LOG OF BORING D-1

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-13

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. NA **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	9	24"	Loose, black, cinders (FILL), creosote stained	HNu-10 ppm
	2	X	5	24"	Loose, gray-black, fine silty SAND (SM)	
					...becomes saturated	perched water
5	3	X	2	24"	Soft to firm, dark gray to black, silty CLAY (CL) with creosote along fracture	
	4	X	5	24"		HNU - 14ppm
	5	X	10	24"		
10	6	X	8	24"	Loose, dry, gray-black, fine SAND (SP)	
	7	X	8	24"	Loose, gray, sandy, SILT (ML) saturated with creosote	
15	8	X	6	24"		HNu - 50ppm
	9	X	24	24"	Stiff, gray, silty CLAY (CL)	
	10	X	38	24"	Dense, dry, dark brown, fine silty SAND (SM)	
20	11	X	13	24"	...becomes saturated with creosote	ATD - 21'
					End of Boring at 22.0 Ft. Date Drilled 11/9/87	
25						

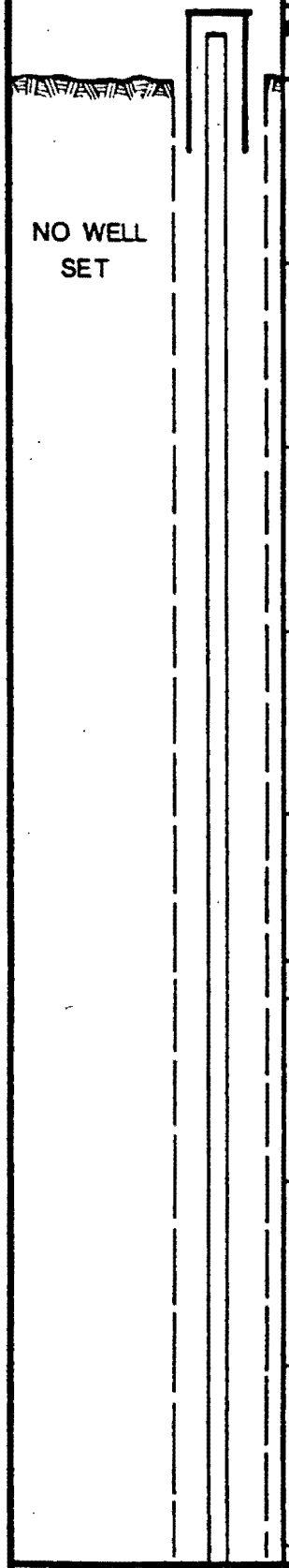
LOG OF BORING D-2

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-14

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 423.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	40	8"	Dense, black-brown rock fragments, cinders, sand and clay (FILL)	
	2	X	5	4"	...black tar present ...becomes loose, mainly cinders	
5	3	X	9	24"	Stiff, dark gray CLAY (CH) ...oil present in fractures	perched water
	4	X	12	24"	Stiff, gray, silty CLAY (CL) ...with black stain	
	5	X	9	24"	Loose to medium dense, brown-stained, black, clayey SILT (ML)	HNu - 6ppm
10	6	X	8	18"	...with zones of creosote contamination	HNu - 30ppm
	7	X	9	18"		
15	8	X	11	20"		HNu -25ppm
	9	X	16	18"	...saturated with creosote	HNu - 40ppm
	10	X	12	24"	becomes wet	ATD - 20'
20	11	X	20	24"	Medium dense, brown, fine SAND (SP) with creosote stains	HNu - 20ppm
	12	X	17	24"		
25					End of Boring at 24.0 Ft. Date Drilled 12/16/87	

LOG OF BORING E-1

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-15

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	52/6"	6"	Very dense, gravel, sand, silt, (FILL)	
	2	X	22	12"	creosote stained	HNu - 1 ppm
	3	X	10	24"	Very stiff, brown & black, sandy CLAY (CL)	HNu - 4ppm
5	4	X	5	24"	Loose to medium dense, dark gray, clayey SAND (SC)	
	5	X	8	24"	Loose to medium dense, dark gray, silty sand (SM) (SP)	HNu-4.5 ppm
	6	X	14	24"	...becomes stained black	HNu - 35ppm
10					...becomes tan-brown	
	7	X	9	24"		HNu-10 ppm
	8	X	10	24"		
					...rust-brown mottling	ATD - 15'
15	9	X	7	24"	...becomes saturated with water and creosote	HNu - 30ppm
	10	X	9	24"		HNu - 20ppm
	11	X	17	24"	6" stiff, gray CLAY (CL) over 6' loose gray SAND (SP)	
20	12	X	39	24"	Dense, saturated brown, fine SAND (SP)	HNu - 15ppm
					End of Boring at 22.0 Ft. Date Drilled 11/10/87	
25						

LOG OF BORING E-2

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-16

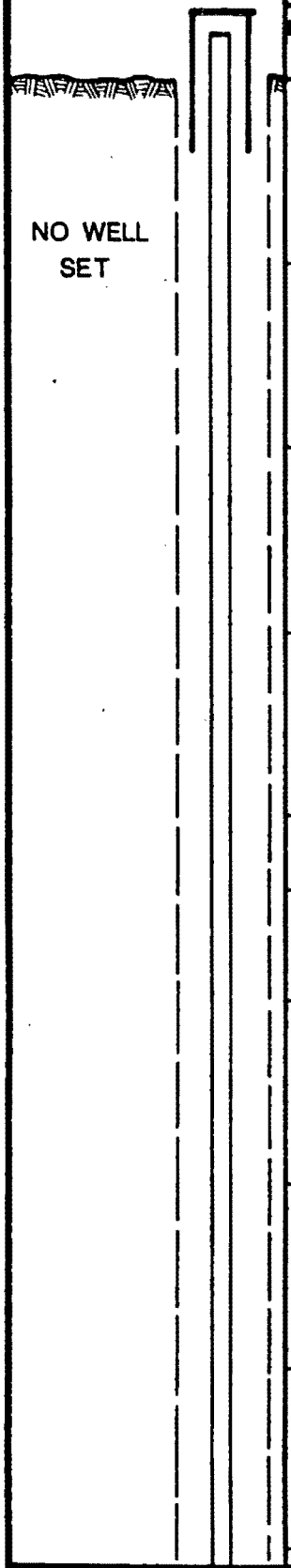
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 422.0' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	27	20"	Medium dense, black-stained gravel, cinders (FILL)	HNu - N.D.
	2	X	7	24"	Medium dense, moist, brown SAND (SP) ...becomes loose	
5	3	X	5	24"		
	4	X	8	24"		
	5	X	7	24"	...becomes silty	
10	6	X	5	24"	Stiff, moist, brown and gray CLAY (CH) with silty zones	
	7	X	9	24"	Loose, moist, brown SILT (ML)	HNu - N.D.
15	8	X	10	24"		
	9	X	15	24"	Loose to medium dense, moist, brown, fine SAND (SP)	
	10	X	25	24"		
20	11	X	18	22"		ATD - 21'
					End of Boring at 22.0 Ft. Date Drilled 11/13/87	
25						

LOG OF BORING F-1

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-17

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 420.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	20	20"	Medium dense, black-stained, gravel and cinders (FILL)	HNu - 3ppm
	2	X	15	24"		
5	3	X	3	24"	Soft, black, sandy CLAY (CL), creosote stained	HNu - 30ppm
	4	X	11	24"	Soft, gray-stained, black CLAY (CH), creosote along fractures	HNu - 15ppm
	5	X	10	24"		HNu - 20ppm
10					Stiff, gray, mottled, brown CLAY (CL) creosote along fractures	
	6	X	9	24"	Loose gray-black, fine SAND (SM)	HNu20-30ppm
	7	X	7	24"	Loose to very loose, gray, mottled brown, clayey SILT(ML), creo. saturated	
15	8	X	2	24"	... grades to fine SAND (SP), dry ... becomes creosote saturated	HNu - 25ppm
	9	X	3	24"	Soft, gray, mottled rust, CLAY(CH)	HNu - 20ppm
					Loose, gray, mottled, silty SAND (SM)	
	10	X	3	24"	Soft, gray, silty CLAY (CL) with creosote lining root holes	
20						HNu - 16 ppm
	11	X	8	24"	Loose gray, fine SAND (SP), saturated with creosote	ATD - 21'
					End of Boring at 22.0 Ft. Date drilled 11/13/87	
25						

LOG OF BORING F-2

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-18

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 421.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	37	24"	Dense, black stained cinders, gravel, clay (FILL)	
	2	X	7	24"	Medium dense, brown-stained, black, fine SAND (SP)	
					Loose, gray-black, clayey SAND (SC)	
5	3	X	6	24"	Firm, gray-black, sandy CLAY (CL)	
	4	X	9	24"	Stiff, moist, gray, mottled brown, CLAY (CH)	
	5	X	8	24"	Stiff, gray, mottled brown, silty CLAY (CL) with organics and limonite stains	
10	6	X	13	24"	Medium dense, dry, brown, fine SAND (SP)	
					...becomes saturated	perched water
	7	X	7	24"	Variable, silty clay (CL) to clayey silt (ML) with .25" sand layers grading into fine silty sand (SM) to sandy silts	
15	8	X	5	24"		
	9	X	7	24"	Firm, gray with rust brown limonite, silty CLAY (CL) with carbonate-lined root holes	
	10	X	5	24"	... occasional silty layers saturated	
20	11	X	6	24"	Loose, saturated, gray, fine, silty SAND (SM)	ATD - 20'
					End of Boring at 22.0 Ft. Date Drilled 11/16/87	
25						

LOG OF BORING F-3

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-19

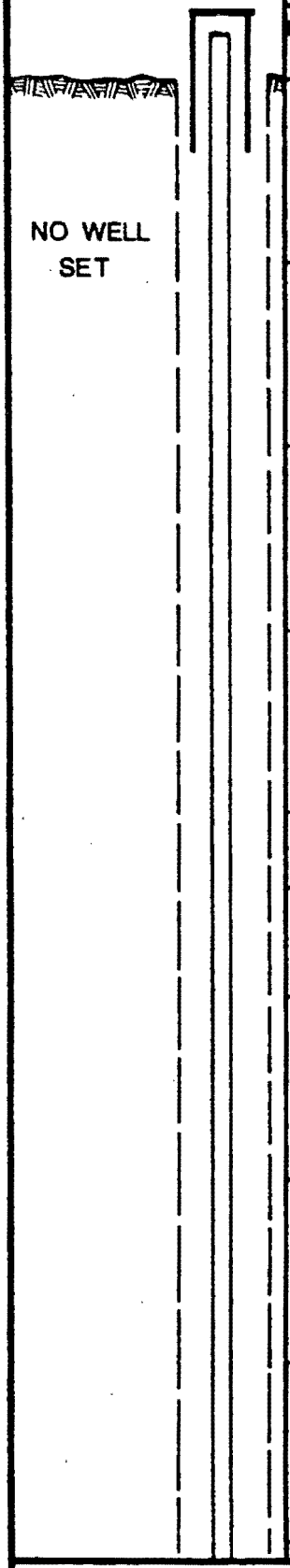
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 421.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	23	24"	Medium dense, black stained, gravel and cinders (FILL)	
	2	X	9	20"	Loose, moist, brown, fine SAND (SP)	HNu - N.D.
5	3	X	6	24"		
	4	X	6	21"		
	5	X	8	24"		HNu - N.D.
10	6	X	5	24"		
	7	X	9	24"	Stiff, moist, gray, silty CLAY (CH) with carbonate-lined root holes	HNu - N.D.
15	8	X	12	24"	Stiff, moist, gray, silty CLAY (CL) with oxidation staining	
	9	X	16	24"	Medium dense, moist, brown, fine SAND (SP)	
	10	X	25	24"		ATD - 19'
20	11	X	20"	24"		
25					End of Boring at 22.0 Ft. Date Drilled 11/13 and 11/14/87	

LOG OF BORING F-4

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-20

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 421.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	32	22"	Dense, black, creosote-stained gravel and cinders (FILL)	HNu-3.6ppm
	2	X	5	20"	Loose, moist, brown, fine SAND (SC) with clay	HNu-.2ppm
5	3	X	4	20"	Very loose to loose, moist, fine SAND (SP)	HNu-1ppm
	4	X	5	22"		
	5	X	8	24"		
10	6	X	4	23"	Very loose, wet, brown SILT (ML)	perched water
	7	X	4	24"	Stiff, moist, brown and gray, silty CLAY (CL) with carbonate deposits	
					Very loose, brown & gray SILT (ML)	
15	8	X	4	24"	Stiff, moist, brown & gray, silty CLAY (CL)	
					Very loose, wet, brown SILT (ML)	
	9	X	7	24"	Stiff, moist, brown & gray, silty CLAY (CH) with carbonate deposits	
	10	X	18	20"	Stiff, moist, brown and gray, silty CLAY (CL)	ATD - 20'
20	11	X	28	20"	Medium dense, wet, brown, fine, SAND (SP)	
					End of Boring at 22.0 Ft. Date Drilled 11/13/87	
25						

LOG OF BORING F-5

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-21

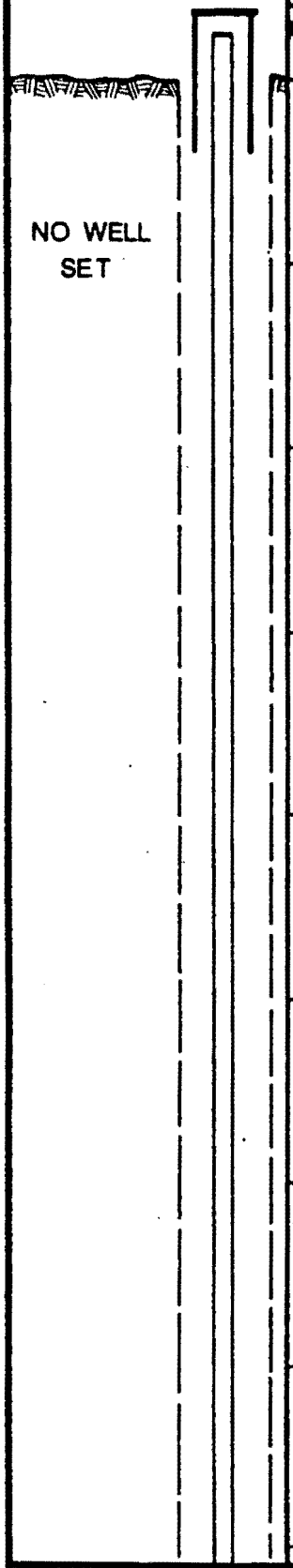
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 420.5' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	24	24"	Medium dense, black cinders, sand and gravel (FILL), creosote stained	
	2	X	8	24"	...stiff, gray CLAY (CH) Loose,gray, silty, fine, SAND (CH)	
5	3	X	9	24"	Stiff, dark gray, silty CLAY (CL)	HNu-3ppm
	4	X	7	24"	Loose, dry, gray, fine, silty SAND (SM)	
	5	X	4	24"		
10	6	X	5	24"		HNu-10ppm
	7	X	7	24"		
					...becomes moist	
15	8	X	2	24"	...becomes visibly creosote saturated	HNu-25ppm
	9	X	14	24"		
					Stiff, gray CLAY (CH), with creosote along fractures	
	10	X	46	24"	Medium dense, brown/black laminated, fine, silty SAND (SM)	HNU-40-50ppm
20	11	X	34	24"	...creosote saturated layers	ATD - 20'
					End of Boring at 22.0 Ft. Date Drilled 11/9/87	
25						

LOG OF BORING F-6

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-22

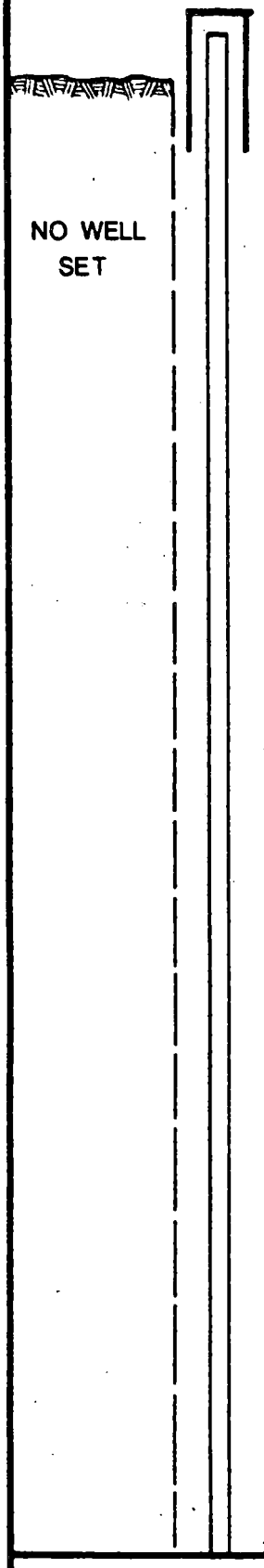
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 422.0' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	31/6"	6"	Very dense, black-stained, gravel, cinders (FILL)	
	2	X	16	8"		HNu-15 ppm
	3	X	12	16"	Very stiff, black to brown, silty CLAY (CL)	
					. . . becomes sandy	
5	4	X	6	19"	Loose to medium dense, moist, brown SAND (SP), some clay and silt	HNu-1.5 ppm
	5	X	16	20"		
	6	X	14	22"		HNu-N.D.
10	7	X	8	24"		
	8	X	8	24"	Firm, moist, silty CLAY (CL)	
					. . . loose, brown, clayey SAND (SC), silt seams, saturated	
15	9	X	11	24"		
	10	X	13	24"	Medium dense, moist, brown, fine SAND (SP)	HNu-N.D.
	11	X	7	24"	. . . becoming loose	
20	12	X	4	14"		ATD-21'
					End of Boring at 22.0 Ft.	
					Date Drilled 11/12/87	
25						

LOG OF BORING F-7

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-23

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

NO WELL SET

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	18	16"	Med. dense, blk, gravel, cinders (FILL)	
					...Very stiff, moist, dark brown CLAY (CL)	
	2	X	7	24"	Loose, moist, brown, clayey SAND (SC)	HNu-1.0ppm
5	3	X	6	24"	Loose to medium dense, brown, fine SAND (SP)	
	4	X	6	24"		HNu-N.D.
	5	X	14	24"	...oxidation staining	
10	6	X	9	24"		
					Stiff, moist, brown, silty, CLAY (CL)	
	7	X	13	24"	Medium dense, moist, brown, fine SAND (SP)	
15	8	X	28	24"		HNu-N.D.
	9	X	32	24"	...becomes dense	HNu-N.D.
	10	X	53	24"		HNu-N.D.
20	11	X	7	19"	...becomes wet	ATD - 21'
					End of Boring at 22.0 Ft.	
					Date Drilled 11/12/87	
25						

LOG OF BORING F-8

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-24

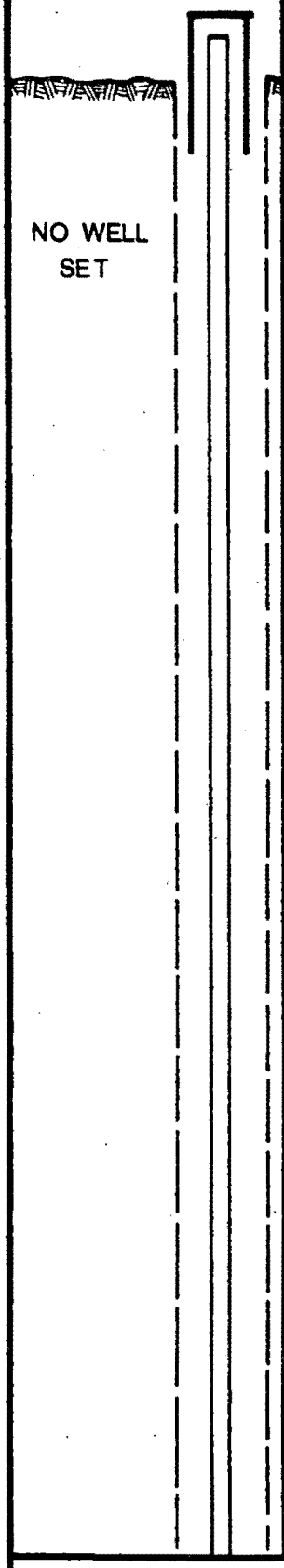
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 422.0' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	22	14"	Black-stained, wood, cinders (FILL)	HNu-N.D.
	2	X	7	20"	Medium dense to loose, moist, black, clayey SAND (SC)	
5	3	X	5	24"	Loose, moist, brown, fine SAND (SP)	
	4	X	5	24"		HNu-N.D.
	5	X	4	24"	...becomes very loose	
10	6	X	12	24"	...becomes medium dense	
	7	X	11	24"	Stiff, moist, brown, silty CLAY (CL)	
15	8	X	17	20"	Medium dense, moist, brown SAND (SP)	HNu-N.D.
	9	X	47	24"		
	10	X	48	24"		
20	11	X	11	19"		HNu-N.D.
					End of Boring at 22.0 Ft. Date Drilled 11/12/87	
25						

LOG OF BORING F-9

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-25

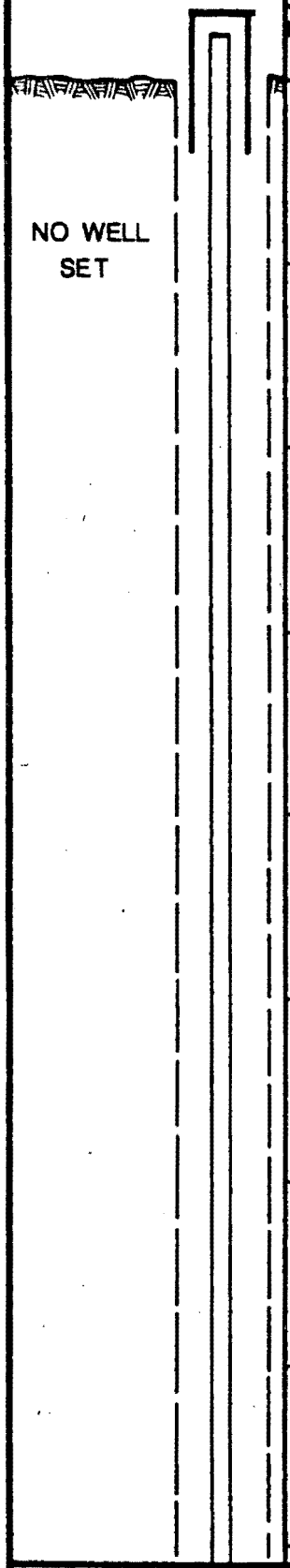
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 422.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	54	12"	Black stained gravel & cinders (FILL) ...wood (railroad tie) ...wood (railroad tie)	
	2	X	10	18"	Stiff, moist, brown, silty CLAY (CL), with limonite staining	
5	3	X	10	12"		
					Medium dense, moist, brown, clayey SAND (SC)	
	4	X	12	18"	Medium dense, moist, brown, fine SAND (SP)	
	5	X	9	12"		
10	6	X	11	12"		
	7	X	14	22"		
					Stiff, moist, brown, silty CLAY (CL)	
15	8	X	23	24"	Medium dense, moist, brown, fine SAND (SP)	
	9	X	40	24"	...becomes dense	
	10	X	52	-	...becomes very dense	
20	11	X	24	24"		ATD-21'
					End of Boring 22.0 Ft. Date Drilled 11/12/87	
25						

LOG OF BORING F-10

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-26

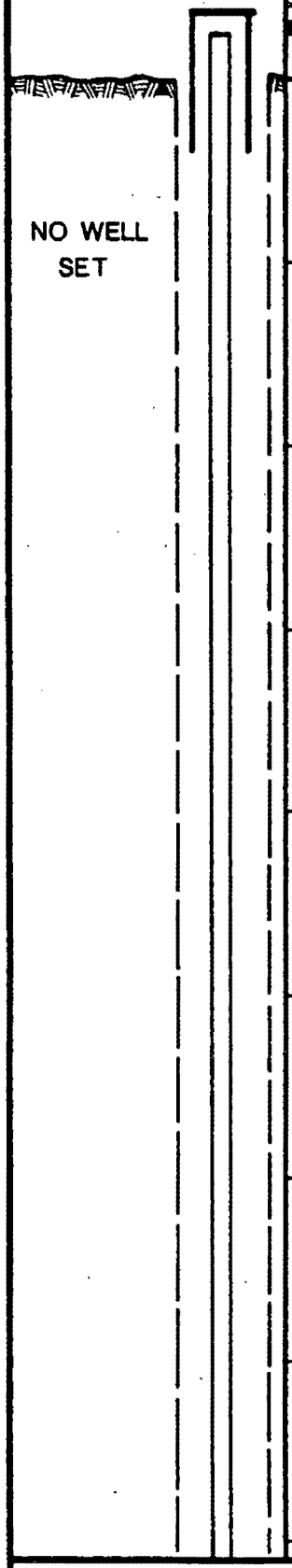
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 422.5' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	9	18"	Loose, blk. stained, cinders, grvl (FILL)	
					Stiff, moist, brown, sandy CLAY (CL)	
	2	X	6	24"	...1' clayey SAND (SC)	HNu-N.D.
5	3	X	6	24"	Loose, dry, brown, fine SAND (SP)	
	4	X	5	24"		
	5	X	6	24"	...6" firm, moist, brown, sandy CLAY (CL)	HNu-N.D.
10					...becomes moist	
	6	X	9	24"		
	7	X	8	22"	...oxidation staining	
15	8	X	5	24"	Loose, wet, brown, SILT (ML)	perched water
	9	X	4	24"		HNu - N.D.
	10	X	5	24"	Firm, moist, gray and brown, mottled, silty CLAY (CL)	
20						
	11	X	24	19"	Medium dense, wet, brown, SAND (SP)	ATD-21'
					End of Boring at 22.0 Ft. Date Drilled 11/11/87	
25						

LOG OF BORING F-11

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-27

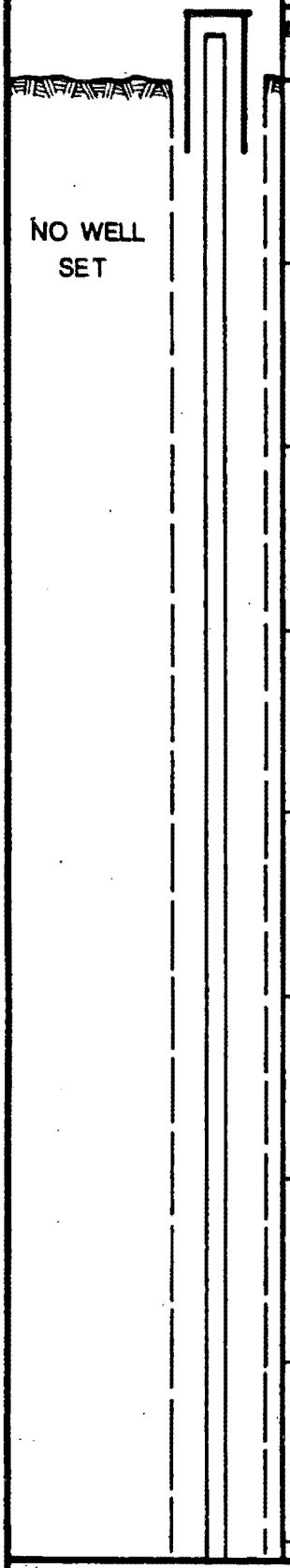
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:

LOCATION SEE FIGURE 1 DRILLING FIRM JOHN MATHES & ASSOC.

GROUND ELEV. 422.0' INSPECTOR R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	9	12"	Stiff, moist, brown, sandy CLAY (CL)	
					Loose, moist, brown, fine SAND (SP)	
	2	X	6	7"		
					Firm, moist, brown, sandy CLAY (CL)	
5	3	X	5	22"	Loose, moist, brown to tan, SAND (SP) with trace clay	
	4	X	5	22"		
	5	X	8	20"		
10	6	X	12	22"		
	7	X	11	22"		
15	8	X	4	24"	Very loose, moist to wet, brown, SILT (ML)	perched water
	9	X	13	24"	Stiff, moist, brown, CLAY (CH)	
	10	X	29	-	Medium dense, brown, SAND (SP)	
20	11	X	19	-		ATD-21'
					End of Boring 22.0 Ft. Date Drilled 11/11/87	
25						

LOG OF BORING F-12

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-28

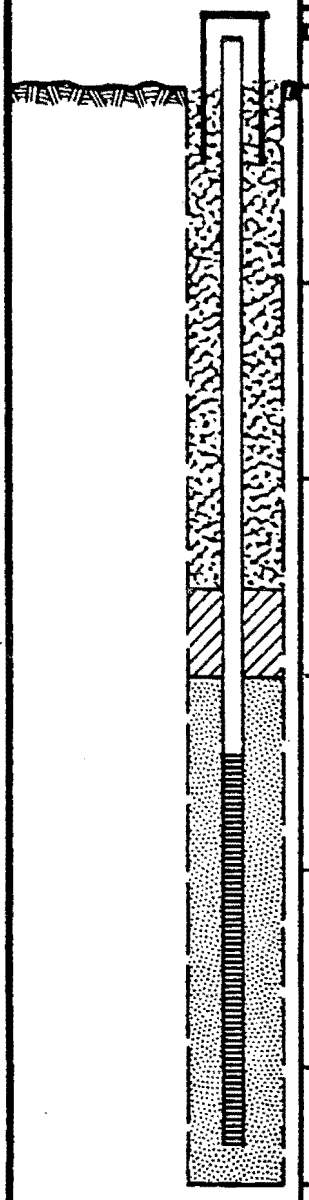
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 424.9'

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.3' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. NO.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	17	24"	Medium dense to loose gravel, cinders and sand (FILL)	
	2	X	6	24"	. . . becomes stained black with creosote	
5	3	X	3	24"	. . . becomes saturated with creosote Soft to firm, black, gray, silty CLAY (CL)	
	4	X	7	24"	. . . stained throughout Loose, gray and black stained, fine SAND (SP)	
	5	X	8	24"		
10	6	X	8	24"		
	7	X	9	24"	. . . becomes creosote saturated	HNu-30 ppm
15	8	X	4	24"	Very loose, gray-black, sandy SILT (ML), ¼" creosote pockets	HNu-48 ppm
	9	X	12	24"	Stiff, gray, silty CLAY (CL)	
	10	X	37	24"	Dense, dark brown, fine SAND (SP)	HNu-40 ppm HNu-22 ppm
20	11	X	12	20"	. . . becomes medium dense, visually cleaned	ATD-20'
	12	X	9	24"		HNu-60 ppm
25	13	X	83	24"	. . . becomes very dense	HNu-11 ppm
	14	X	35	24"	. . . becomes medium dense	HNu-24 ppm
30					End of Boring at 28.0 Ft. Date Drilled: 11/16 & 11/17/87	

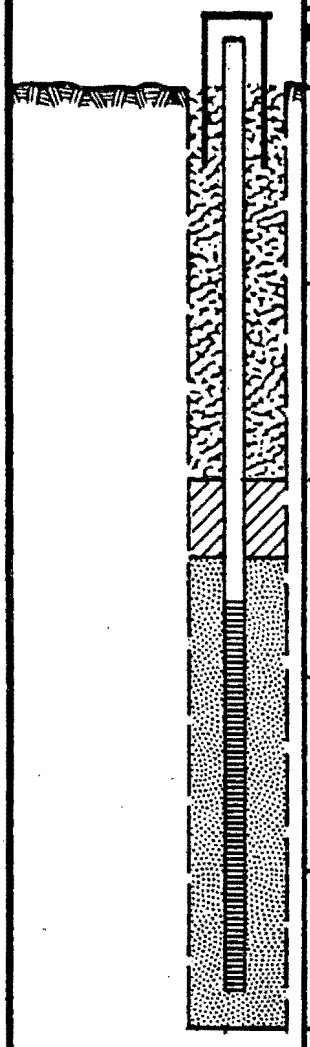
LOG OF BORING G-1/WCC-5S

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-29

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 419.47'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 417.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	14	20"	Medium dense, black cinders, gravel, wood and sand (FILL), creosote stained	HNu-5 ppm
	2	X	12	24"	Stiff, dark gray-black, silty CLAY (CH)	HNu-19 ppm
5	3	X	11	24"	. . . becomes mottled	HNu-60 ppm
	4	X	12	24"	Dense, moist, brown, fine SAND (SP)	HNu-60-80 ppm
	5	X	33	24"		
10	6	X	37	24"		HNu-40 ppm
	7	X	24	24"	. . . becomes medium dense	HNu-50 ppm ATD-14.5
15	8	X	9	24"	. . . with dark brown staining from 14.5' - 15.5'	
	9	X	23	24"		HNu-25 ppm
	10	X	21	20"	. . . becomes loose	HNu-40 ppm
20	11	X	7	18"		HNu-50 ppm
	12	X	27	12"	Medium dense, gray, fine to medium SAND (SW) with ¼", black laminations	HNu-500 ppm
25					End of Boring at 24.0 Ft.	
					Date Drilled: 11/17/87	

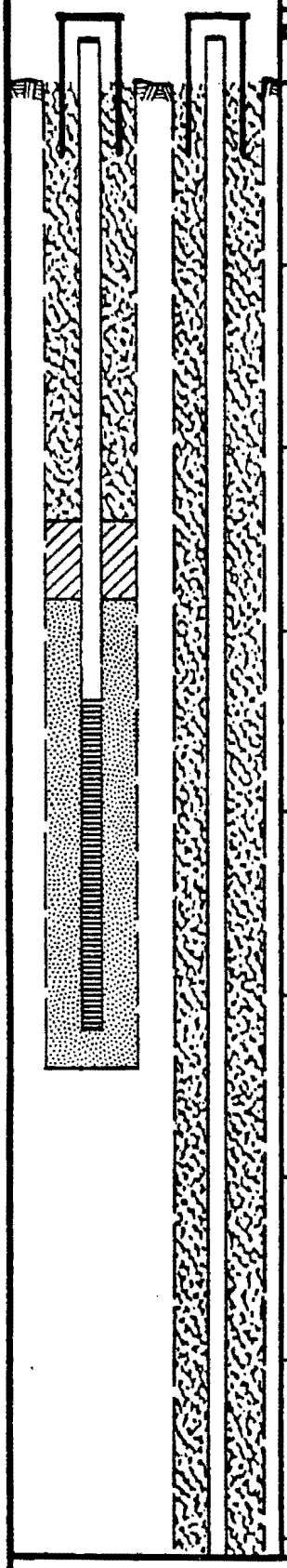
LOG OF BORING H-1/WCC-2S

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-30

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 424.91' 424.23'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 1S-422.4', 1D-421.7' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	8	24"	Firm to stiff, wet, brown to black sandy, silty CLAY (CL) with organics	HNu-N.D.
	2	X	9	15"	Loose to medium dense, moist, brown, fine SAND (SP)	
5	3	X	7	18"		HNu-N.D.
	4	X	6	18"		
	5	X	8	24"	...becomes mottled gray, wet	perched
10					Stiff, gray, CLAY (CL) with carbonates	
	6	X	10	24"	Loose, dry, brown and gray, fine SAND (SP)	HNu-N.D.
	7	X	14	20"	Stiff, gray-brown CLAY (CH)	
15	8	X	14	24"	Medium dense, dry, brown and gray fine SAND (SP)	
	9	X	12	20"	...becomes wet	
	10	X	11	20"	Medium dense, wet, brown, fine, silty SAND (SM) with 1/8" black organic layers, abundant MICA	HNu-N.D.
20	11	X	14	24"		
	12	X	22	20"		
25	13	X	13	20"	Medium dense, gray-brown fine SAND (SP) with black organic layers	HNu-N.D.
	14	X	10	24"		
	15	X	14	24"		
30						
	16	X	26	24"	...trace gravel	
	17	X	17	24"		HNu-N.D.
35	18	X	19	24"	...becomes more coarse (fine to medium grain with trace gravel)	
	19	X	23	24"		
	20	X	24	24"		
40						

LOG OF BORINGS 1S & 1D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-31

Woodward-Clyde Consultants

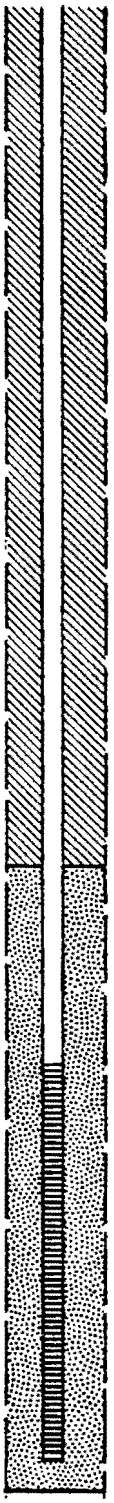
DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	21	X	31	12"		
	22	X	15	20"	...becomes loose	
45	23	X	10	24"		
	24	X	14	24"		
	25	X	16	24"		
50	26	X	29	24"		
55	27	X	26	24"	...becomes darker gray with 1/8" thick organic layers and wood fragments	
60	28	X	19	12"	...becomes predominantly gray, free of organics	
65	29	X	18	24"		
70	30	X	23	24"	Medium dense, gray, well graded fine to coarse SAND (SW) with trace gravel.	
75	31	X	29	24"		
80	32	X	14	6"		

LOG OF BORING 1D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-31

Woodward-Clyde Consultants



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
85	33	X	20	12"		
					...becomes dense	
90	34	X	34	14"		
95	35	X	40	4"		
100	36	X	25	18"		
					...becomes medium dense and predominantly medium grain with limestone gravel	
105	37	X	42	20"	...becomes medium to coarse with little gravel (SP)	
110	38	X	42	12"		
					...becomes fine to coarse SAND (SW) with gravel fragments	
115	39	X	55	18"		
	40	X	110/1	1"	Cream colored, finely crystalline, LIMESTONE	
120					End of boring 118.4' Date drilled: 1S - 12/18/87 1D - 12/21/87 to 12/29/87	

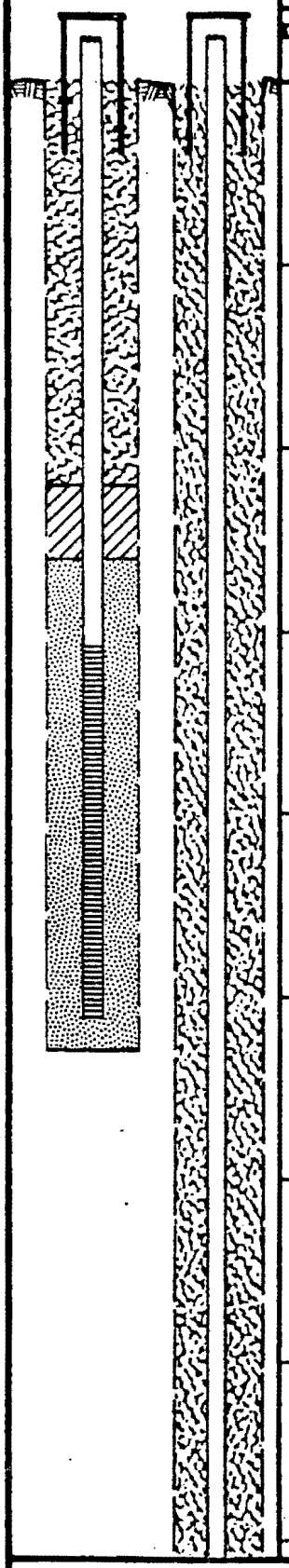
LOG OF BORING 1D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-31

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:
422.49' 422.81'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN & ASSOC.
GROUND ELEV. 419.9' **INSPECTOR** R. BILLMAN
SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	20	18"	Medium dense, black, cinders, sand, rubble (FILL). Wet with a black fluid	
	2	X	11	20"	Stiff, moist, brown stained, black, sandy, silty CLAY (CL)	
5	3	X	14	20"	Medium dense, dry, brown, fine SAND (SP)	
	4	X	8	24"	. . . becomes wet	perched water
	5	X	8	24"	Stiff, gray, mottled, brown CLAY (CH), limonite stained	
10	6	X	21	24"	Firm, gray, mottled, brown CLAY (CH) with limonite stains.	
	7	X	43	24"	Medium dense to very dense, dry, gray, fine SAND (SP)	
15	8	X	50	24"		
	9	X	45	24"	. . . becomes moist to wet . . . becomes saturated	ATD-20'
	10	X	60	24"		
20	11	X	56	24"		
	12	X	21	24"	. . . becomes fine to medium grained	
25	13	X	31	24"		
	14	X	20	14"		
	15	X	7	12"		
30	16	X	15	12"		
	17	X	11	14"		
35	18	X	4	8"	. . trace medium to coarse sand	
	19	X	19	3"		
	20	X	21	12"		
40						

LOG OF BORINGS 3S & 3D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-32

Woodward-Clyde Consultants

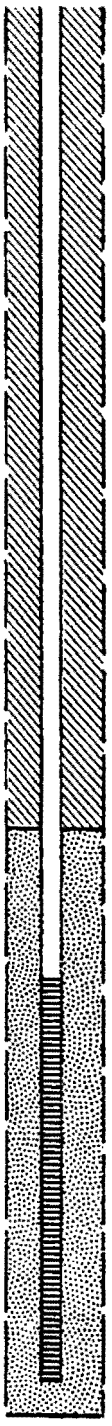
DEPTH (Ft)	B. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	21	X	21	14"		
	22	X	10	14"		
45	23	X	18	-		
	24	X	9	14"		
	25	X	21	14"		
50					. . . becomes predominantly gray	
	26	X	15	18"		
55						
	27	X	6	3"		
60						
	28	X	19	14"		
65					Medium dense, gray, fine to coarse SAND (SW)	
	29	X	15	10"		
70						
	30	X	26	14"		
75						
					. . . becomes gravel-sand mixture	
	31	X	39	12"	. . . becomes dense	
80						

LOG OF BORING 3D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-32

Woodward-Clyde Consultants



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
85	32	X	58	18"	. . . with 6" weathered to fresh limestone	
90	33	X	28	14"		
95	34	X	40	14"		
100	35	X	44	16"	Dense, gray, fine SAND (SP) with trace, coarse sand and gravel, limestone fragments	
105	36	X	78	5"	. . . increasing limestone fragments and gravel	
110	37	X	21	18"	Medium dense, gray, fine to coarse SAND (SW) with trace gravel . . . with occasional cobbles	
115	38	X	102	8"	. . . becomes predominantly gravel and limestone fragments	
120					End of Boring at 116.0 Ft. Date Drilled: 3S - 12/15 and 12/16/87 3D - 1/4 and 1/7/88	

LOG OF BORING 3D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-32

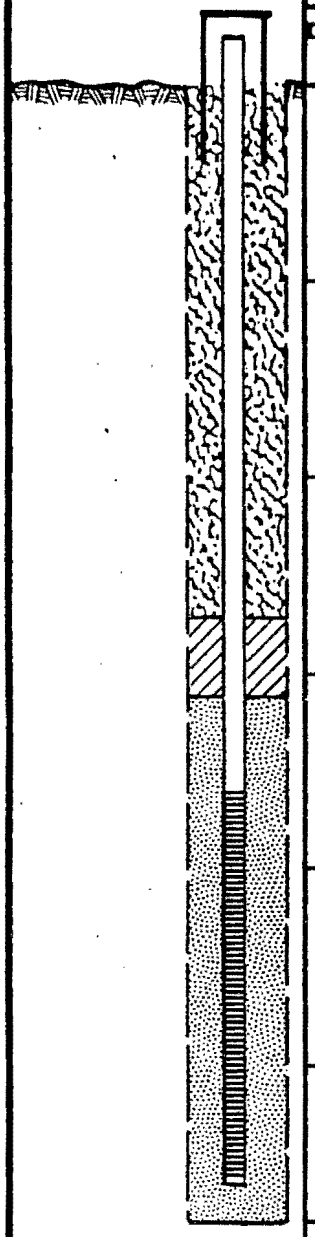
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 421.76'

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.3' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	-	-	Black stained gravel and cinders	HNu-.2 ppm
					Loose, dry, brown, fine SAND (SP)	
5	2	X	8	24"		HNu-.2 ppm
10	3	X	9	24"	Stiff, brown, sandy CLAY (SC)	HNu-12 ppm
					Loose, dry, brown, fine SAND (SP)	
15	4	X	6	24"	Firm to stiff, very moist, brown, silty CLAY (CL)	HNu-11 ppm
	5	X	14	21"	Stiff, very moist SILT (ML), oil stained	perched water
	6	X	41	-	Dense, moist to dry, brown, fine SAND	HNu-110 ppm HNu-22 ppm
20	7	X	42	21"		HNu-2 ppm
	8	X	47	19"		ATD-23'
25	9	X	45	12"		HNu-130 ppm
					. . . becoming very dense	
	10	X	58	12"	Dense, wet, fine to coarse SAND (SW)	
	11	X	8	3"		
30					End of Boring at 29.0 Ft.	
					Date Drilled: 11/23/87	

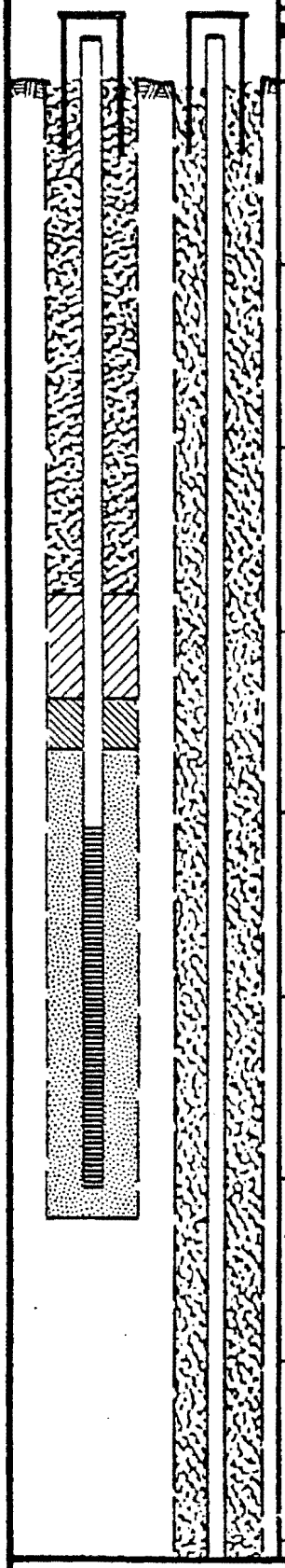
LOG OF BORING 4S

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-33

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 422.5' 423.02'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 421.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	18	24"	Medium dense, black and brown cinders, rubble (FILL)	
	2	X	9	24"	Loose, brown stained black, fine SAND (FILL)	
5	3	X	5	24"	Firm, moist, gray stained black, silty CLAY (CL)	
	4	X	6	24"	Firm, gray, mottled, orange-brown CLAY (CH) with fractures	
	5	X	5	24"	Firm to soft, tan mottled, gray, silty CLAY (CL)	
10	6	X	4	24"	Soft, brown-tan CLAY (CH) with fractures	
	7	X	6	24"	Loose, brown mottled, gray, clayey SILT (ML) with fine sand ...becomes saturated	perched water
15	8	X	7	24"	Firm, gray & orange-brown silty CLAY (CL)	
	9	X	5	24"	Loose, orange-brown mottled, gray fine SAND (SP)	HNu-N.D.
	10	X	4	24"	Soft, gray, silty CLAY (CL) with oxidation stains and root holes ...becomes saturated	ATD-19.9'
20	11	X	12	24"	Loose to medium dense, saturated, brown, fine, silty SAND (SM)	HNu-N.D.
	12	X	11	24"	... becomes free of fines (SP)	
25	13	X	17	24"	Firm, gray CLAY (CH), 3" layers	
	14	X	62	13"	Medium dense to very dense, brown fine SAND (SP)	HNu-N.D.
	15	X	27	14"		
30	16	X	13	10"	Medium dense, multicolored, fine to medium SAND (SW) with trace gravel	HNu-N.D.
	17	X	13	15"	Medium dense, brown fine SAND (SP)	
35	18	X	11	12"		
	19	X	16	12"		
	20	X	13	6"		
40						

LOG OF BORINGS 6S & 6D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-34

Woodward-Clyde Consultants

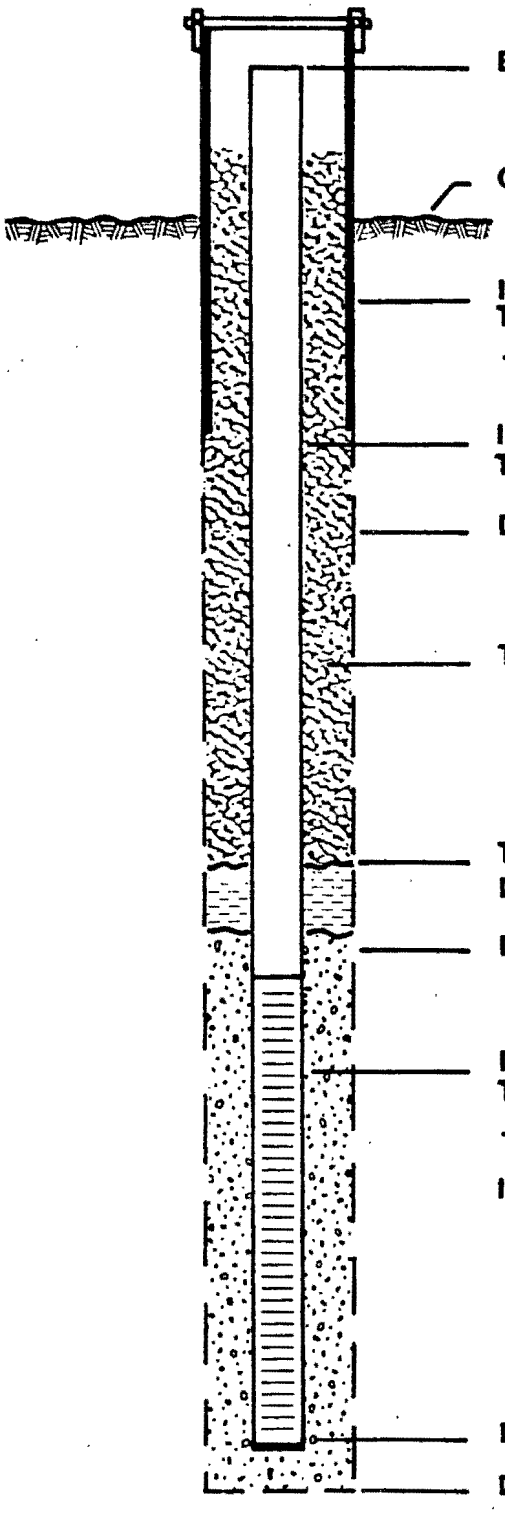
DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	21	X	8	10"	...becomes gray	
	22	X	15	12"	...with black carbonaceous material and trace coarse sand	
45	23	X	19	12"		
	24	X	25	14"		
					...becomes dense	
	25	X	43	18"		
50						
					...becomes medium dense	
55	26	X	27	18"		
					...becomes dense with 1/8-1/4" black carbonaceous layers	
60	27	X	36	24"		
					...becomes medium dense and slightly more coarse	
65	28	X	12	24"		
					Medium dense, multicolored, dine to coarse SAND (SW) with trace gravel	
70	29	X	16	12"		
					...increasing gravel content	
75	30	X	26	12"		
					Medium dense, gray to multicolored, fine SAND (SP) with trace medium sand and gravel	
80	31	X	18	15"		

LOG OF BORING 6D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-34

Woodward-Clyde Consultants



Elevation of top of riser pipe 423.22'

Ground Elevation 421.0

I.D. of surface casing 4"
Type of surface casing Steel
Hinged locking

I.D. of riser pipe 2"
Type of riser pipe 304 Stainless Steel

Diameter of borehole 9"

Type of backfill Cement-Bentonite Grout

Type of seal Bentonite Slurry
Depth to top of seal 41'

Depth to top of sand pack 51'

Depth to top of screen 53.8'
Type of screened section 2"
304 Stainless Steel - 0.010" slot

I.D. of screened section 2"

Depth to bottom of well 64.6'

Depth of borehole 65.0'

REPORT OF MONITORING WELL 6M

THE JENNISON-WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: MWK	CHECKED BY: TDB	PROJECT NO: 85C1720A	DATE: 3-14-88	FIGURE NO: A-35

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

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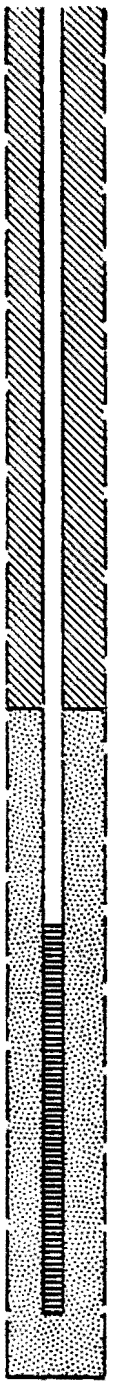


DEPTH (Ft)	S. No	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
85	32	X	16	12"		
90	33	X	14	12"	...with occasional cobbles	
95	34	X	31	14"		
100	35	X	34	3"		
105	36	X	35	6"		
110	37	X	47	12"	Dense, multicolored, fine to coarse gravelly SAND (SW)	
115					Limestone End of Boring 115.0' Date drilled: 6S - 11/19/87 6D - 1/21/88 to 1/22/88	

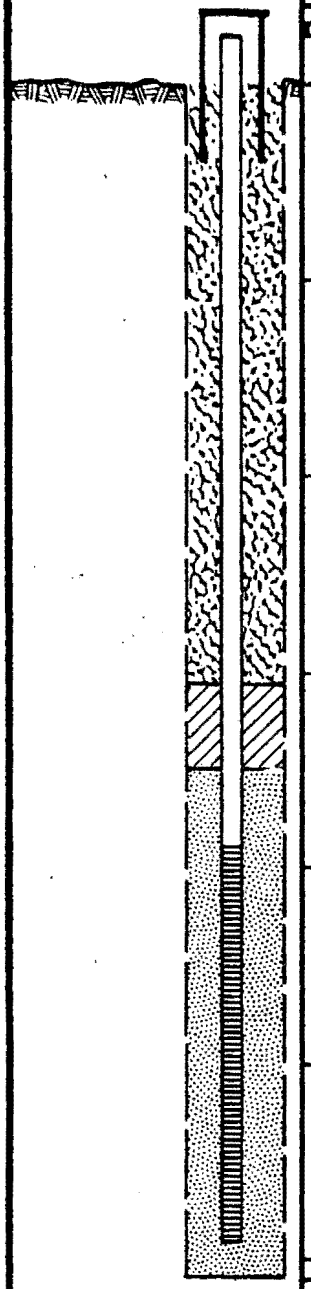
LOG OF BORING 6D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-34

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 421.58'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.2' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	-	-	Black stained, gravel and cinders (FILL)	
5	2	X	-	0	Medium dense, dry, brown, fine SAND (SP)	
	3	X	12	24"		
10	4	X	8	24"		
15	5	X	6	24"	Firm, wet, brown and gray, silty CLAY (CL)	perched water
					Firm, wet, brown SILT (ML)	
					Firm, brown CLAY (CH) with sand	
	6	X	7	24"	Loose, wet, brown, silty SAND (SM)	
20	7	X	4	24"	Very loose, wet, brown, fine SAND (SP) with oxidation staining	ATD-21'
	8	X	8	24"	Firm, gray CLAY (CH)	
25	9	X	14	20"	Loose, wet, brown, fine SAND (SP)	
					Medium dense, brown and black SILT (ML)	
	10	X	64	13"	Medium dense to very dense, wet, brown, fine SAND (SP)	
30	11	X	26	12"		
					End of Boring at 30.0 Ft.	
					Date Drilled: 11/25/87	
35						

LOG OF BORING 7S

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-36

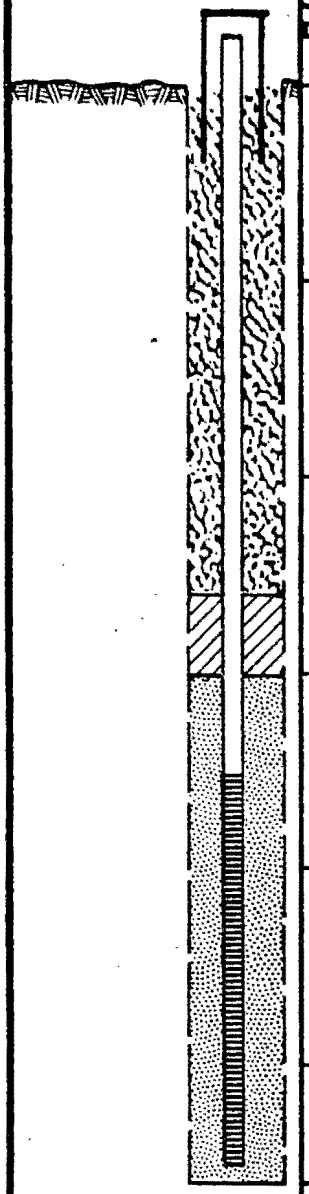
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 421.34'

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 421.80' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
5	1	X	14	20"	Stiff, brown and gray, mottled, silty CLAY (CL) with sand	HNu-30ppm
10	2	X	6	22"	Loose, moist, brown, fine SAND (SP) with trace clay	HNu-15ppm
15	3	X	18	22"	...with trace SILT	HNu-20ppm
	4	X	50	24"		HNu-5ppm
	5	X	37	24"		HNu-3ppm
20	6	X	10	18"		ATD-21'
	7	X	22	20"		HNu-.4ppm
25	8	X	13	24"		HNu-1ppm
	9	X	15	24"		HNu-.5ppm
30					End of Boring 28.0' Date drilled 12/17/87	

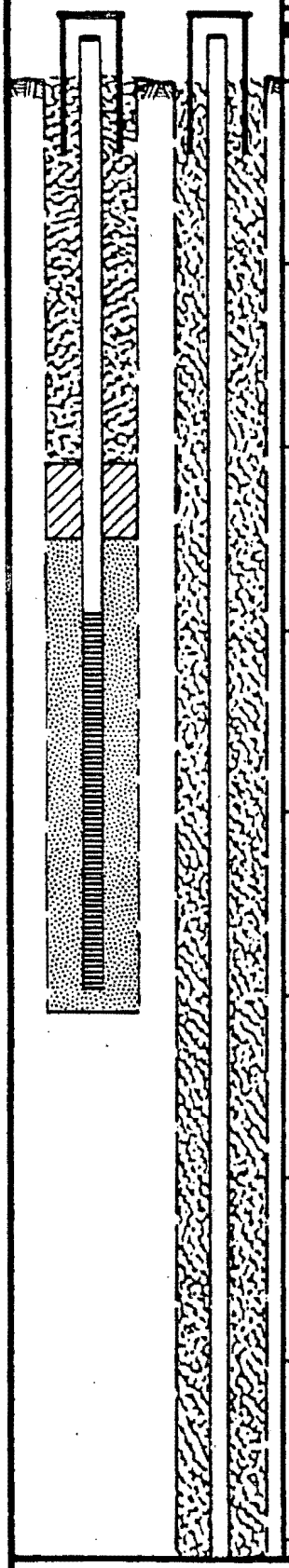
LOG OF BORING 8S

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-37

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE:
424.76' 424.89'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.
GROUND ELEV. 9S-422.2' 9D-422.3' **INSPECTOR** R. BILLMAN
SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
5						
10						
15						
20					Loose, brown stained, black, fine SAND saturated with creosote	HNu-20 ppm
	1	X	5	24"	Firm, dark gray CLAY (CL)	HNu-20 ppm
25	2	X	8	24"	Loose, brown, fine SAND (SP), appears creosote stained	HNu-6 ppm
	3	X	4	10"		
	4	X	11	12"	. . . becomes medium dense with 1/8", black, organic layers	
30	5	X	12	14"		
	6	X	25	16"		
35	7	X	14	14"	. . . visually clean	
	8	X	15	12"		
	9	X	23	18"		
40						

LOG OF BORINGS 9S & 9D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-38

Woodward-Clyde Consultants

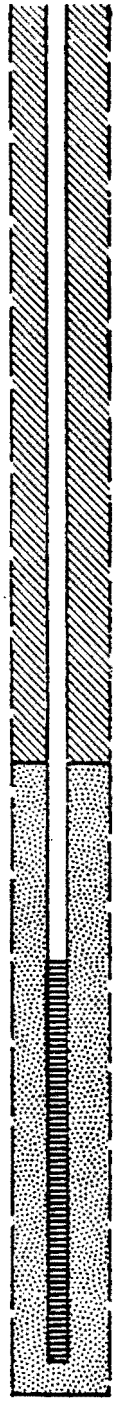
DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	10	X	6	12"	Loose, gray, fine to coarse SAND (SW)	
	11	X	9	18"	. . . trace limestone fragments . . . becomes medium dense, less coarse	
45	12	X	21	18"	Medium dense to loose, gray-black, fine SAND (SP)	
	13	X	24	18"	. . . fine to medium sand	
	14	X	10	18"	. . . abundant wood fragments	
50						
					. . . trace medium to coarse sand	
55	15	X	26	14"		
60	16	X	30	14"		
					Medium dense, gray, fine to medium SAND (SW) with trace coarse sand	
65	17	X	11	14"		
70	18	X	16	12"	. . . gravel size fragments and limestone	
75	19	X	9	18"	. . . becomes loose, increasing coarse sand content	
					. . . becoming more coarse	
80	20	X	17	12"	Very stiff, gray CLAY (CH)	

LOG OF BORING 9D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-38

Woodward-Clyde Consultants



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
					Medium dense, gray, fine to coarse SAND (SW) with trace gravel	
85	21	X	26	12"		
90	22	X	41	12"		
					Dense, gray, fine SAND (SP)	
					. . . with occasional cobbles	
					. . . becomes very dense	
95	23	X	60	8"		
100	24	X	25	8"	. . . becomes medium dense, multi-colored, with trace gravel and cobbles	
105	25	X	21	10"		
110	26	X	75	2"	Dense, multicolored mixture of fine to coarse sand, well rounded gravel, angular limestone fragments (SW-GW)	
115	27	X	91	20"		
120					LIMESTONE End of Boring at 115.5 Ft. Date Drilled: 9S - 11/19/87 9D - 1/18/88 to 1/20/88	

LOG OF BORING 9D

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-38

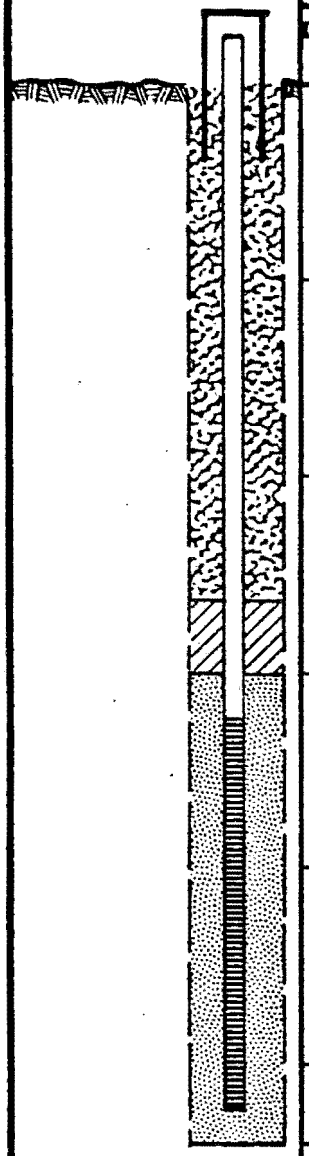
Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 424.37'

LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.0' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS



DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	9	20"	Loose, black stained gravel, cinders and sand (FILL)	
					Stiff, gray-brown with black stains, silty CLAY (CL) with trace sand	HNu-N.D.
5	2	X	7	24"	Loose, dry, brown, fine SAND (SP)	
						HNu-N.D.
10	3	X	4	-	. . . becomes saturated	perched water
15	4	X	7	24"		HNu-N.D.
	5	X	10	24"	Stiff, gray, mottled, rust-brown, CLAY (CH) with fractures	
	6	X	4	24"	Soft, gray, mottled, rust-brown CLAY (CL)	
20	7	X	8	24"	Loose, saturated, gray, mottled, rust-brown, clayey SILT (ML)	ATD-19'
	8	X	9	24"	Loose, brown, fine SAND (SP) . . . becomes gray	HNu-N.D.
25	9	X	16	14"	. . . becomes medium dense	HNu-N.D.
	10	X	11	12"		
					End of Boring at 27.0 Ft.	
30					Date Drilled: 11/20/87	

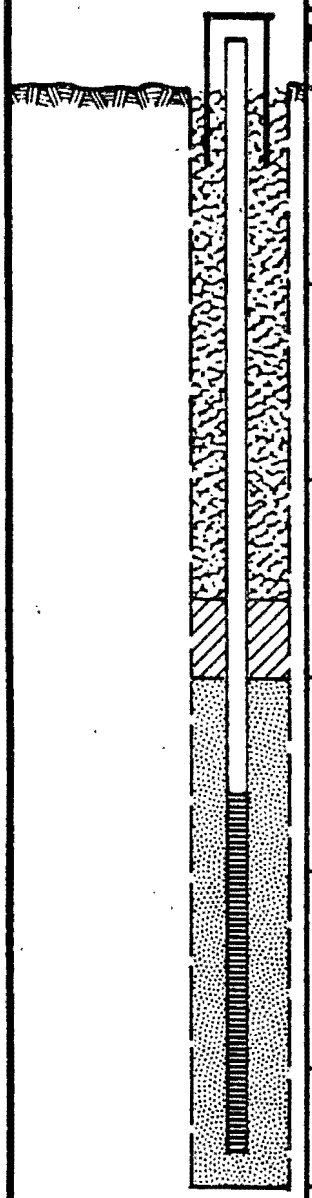
LOG OF BORING 10S

THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-39

Woodward-Clyde Consultants

ELEVATION TOP OF RISER PIPE: 425.67'



LOCATION SEE FIGURE 1 **DRILLING FIRM** JOHN MATHES & ASSOC.

GROUND ELEV. 422.6' **INSPECTOR** R. BILLMAN

SEE FIGURE A-1 FOR KEY TO LOGS

DEPTH (Ft)	S. No.	S.T.	B/Ft	REC	DESCRIPTION OF STRATIGRAPHY	COMMENTS
	1	X	8	24"	Loose, black stained, cinders, gravel and sand (FILL)	HNu-N.D.
					Stiff, gray-black, silty CLAY (CL)	
5	2	X	5	24"	Loose, dry, brown, fine SAND (SP)	HNu-N.D.
					. . . visually clean	
10	3	X	6	24"		
					. . . becomes mottled, gray	
					. . . becomes saturated	perched water
15	4	X	8	24"	Firm, gray CLAY (CH), limonite stains	
					Stiff, saturated, gray, mottled, brown silty CLAY (CL)	HNu-N.D.
	5	X	21	24"	Medium dense, dry, brown, fine SAND (SP)	HNu-N.D.
	6	X	26	24"		
20						
	7	X	21	22"		ATD-21.5'
	8	X	14	20"	. . . becoming dense	HNu-N.D.
25	9	X	36	19"		
	10	X	14"	12"	. . . with creosote staining	HNu-.5 ppm
					End of Boring at 28.0 Ft.	
30					Date Drilled: 11/20 - 11/23/87	

LOG OF BORING 11S

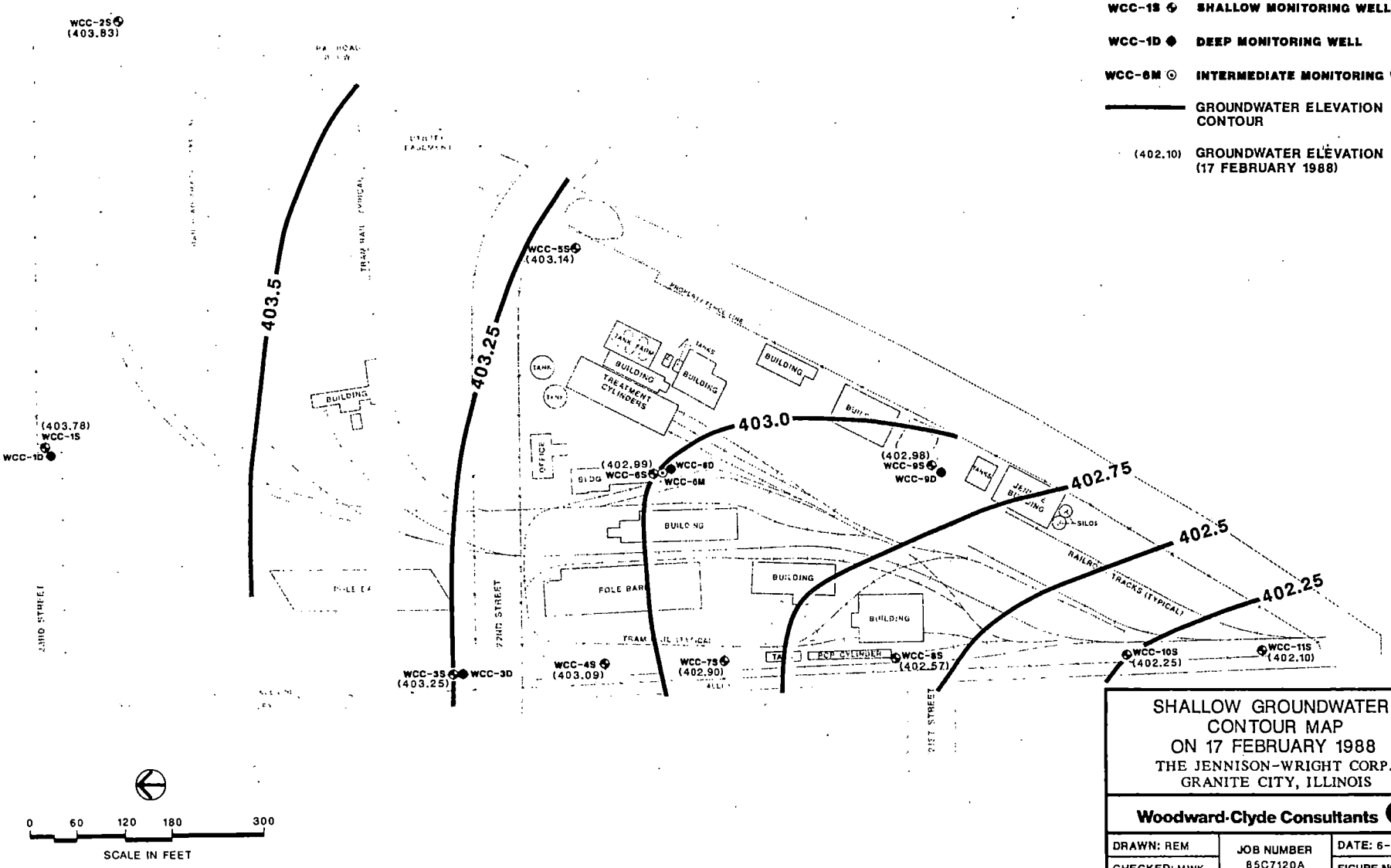
THE JENNISON WRIGHT CORP. - GRANITE CITY, ILLINOIS

DRAWN BY: CGS	CHECKED BY: TDB	PROJECT NO: 85C7120A	DATE: 3-14-88	FIGURE NO: A-40

Woodward-Clyde Consultants

APPENDIX H

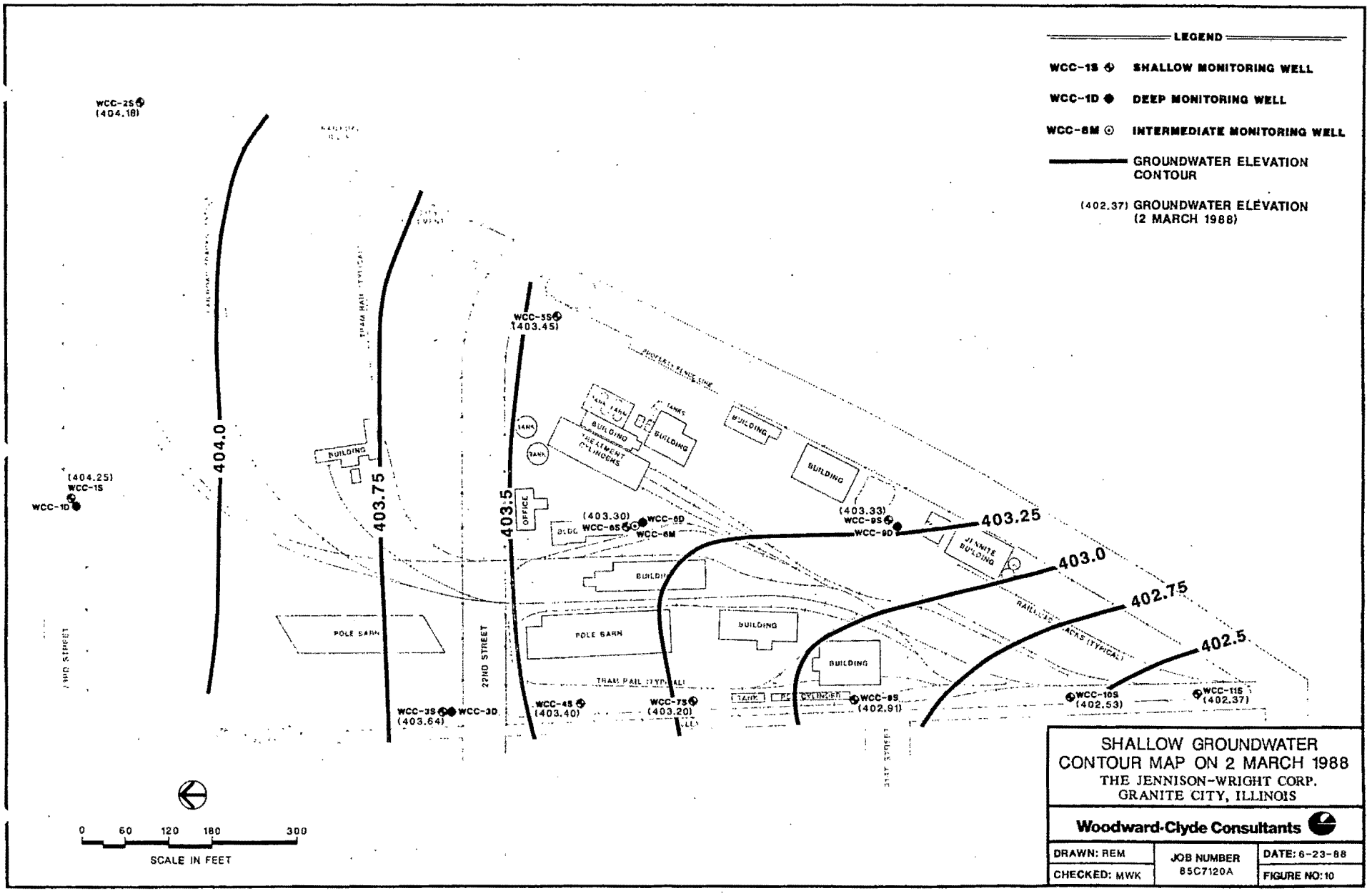
GROUNDWATER FLOW DIAGRAMS



SHALLOW GROUNDWATER CONTOUR MAP ON 17 FEBRUARY 1988
THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

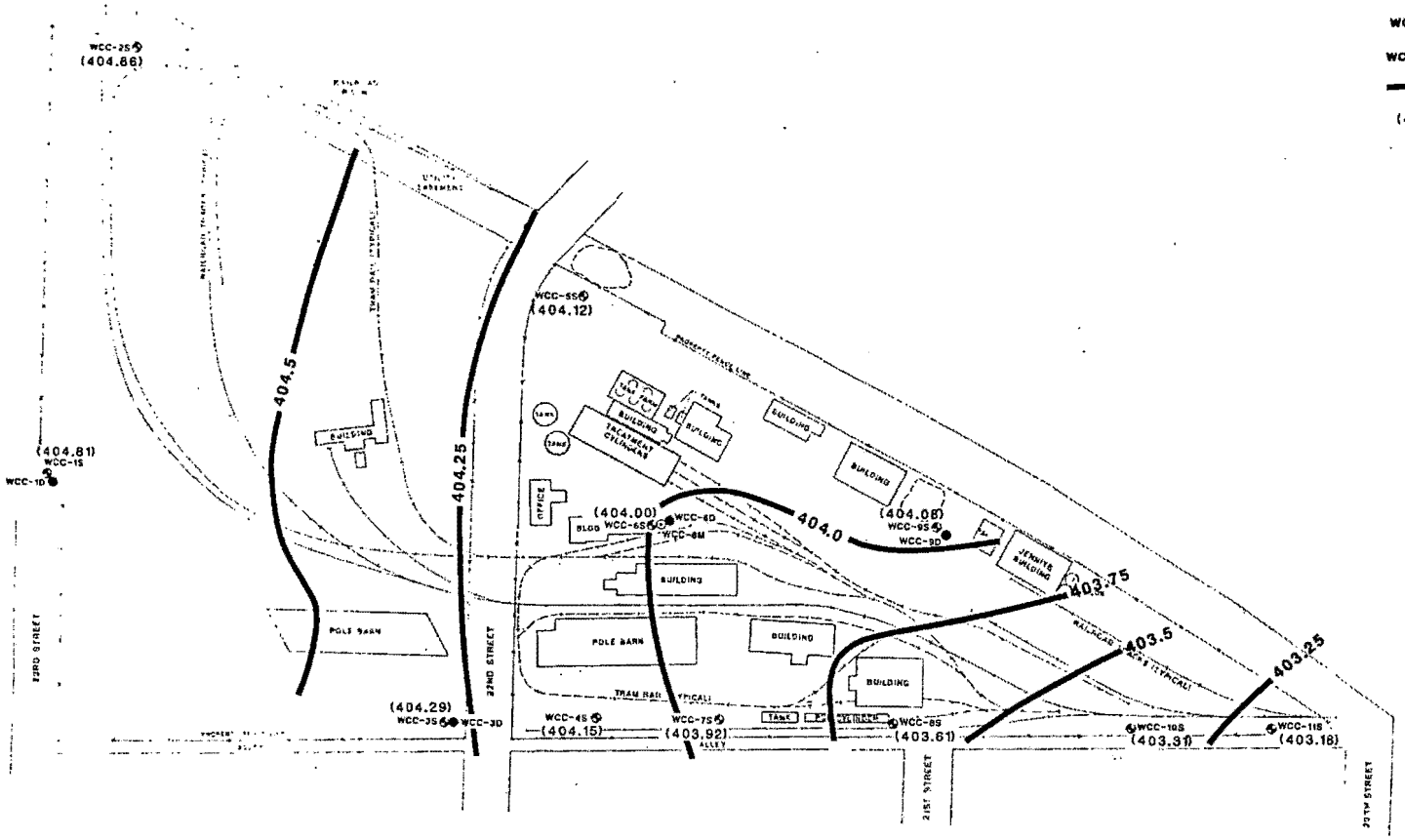
DRAWN: REM	JOB NUMBER 85C7120A	DATE: 6-23-88
CHECKED: MWK		FIGURE NO: 9



SHALLOW GROUNDWATER CONTOUR MAP ON 2 MARCH 1988
THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

DRAWN: REM	JOB NUMBER 85C7120A	DATE: 6-23-88
CHECKED: MWK		FIGURE NO: 10



LEGEND

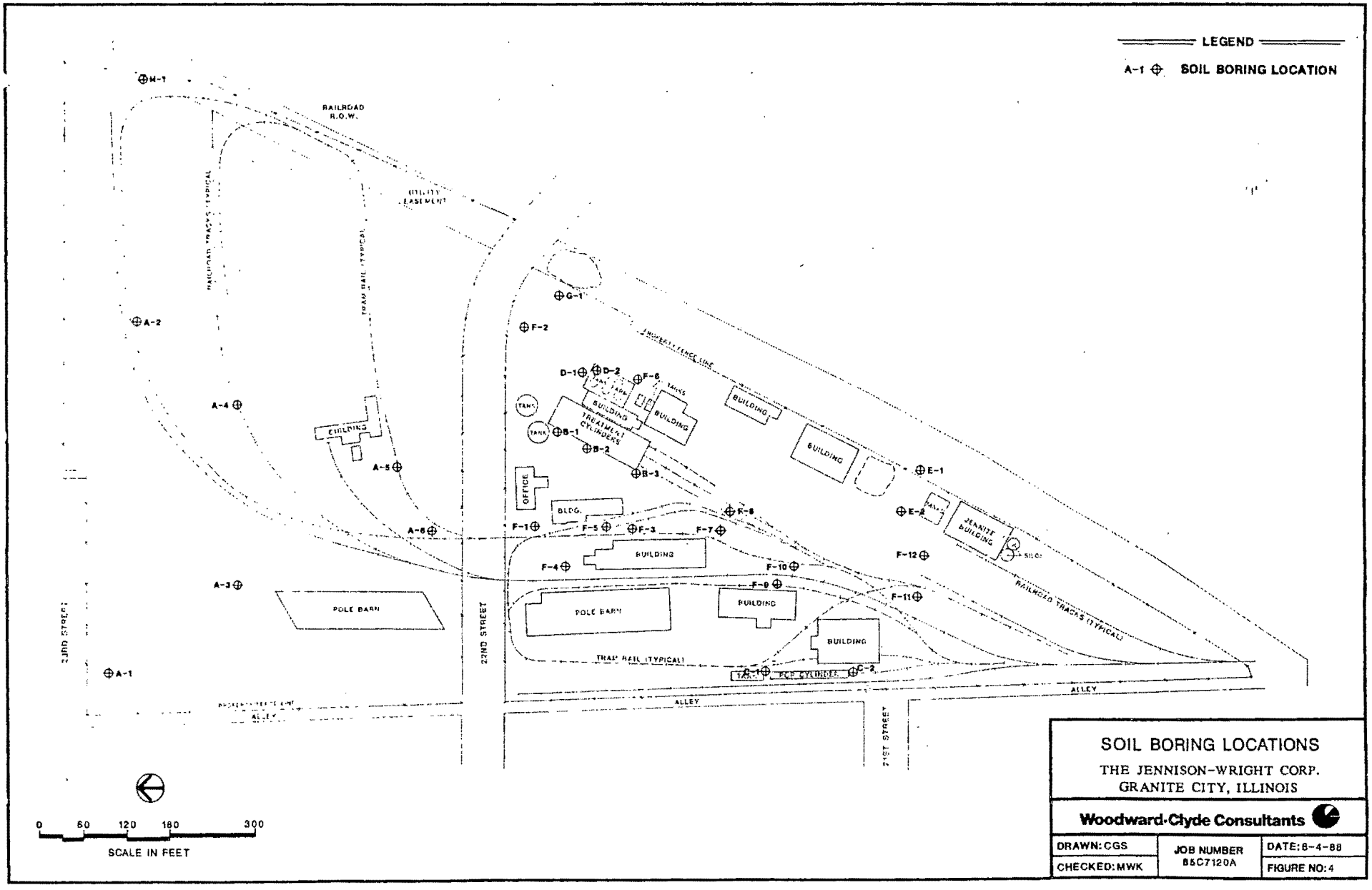
WCC-1S	SHALLOW MONITORING WELL
WCC-1D	DEEP MONITORING WELL
WCC-6M	INTERMEDIATE MONITORING WELL
	GROUNDWATER ELEVATION CONTOUR
(404.08)	GROUNDWATER ELEVATION (14 APRIL 1988)

SHALLOW GROUNDWATER CONTOUR MAP ON 14 APRIL 1988

THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

DRAWN: CGS	JOB NUMBER 85C7120A	DATE: 8-9-88
CHECKED: MWK		FIGURE NO: 11

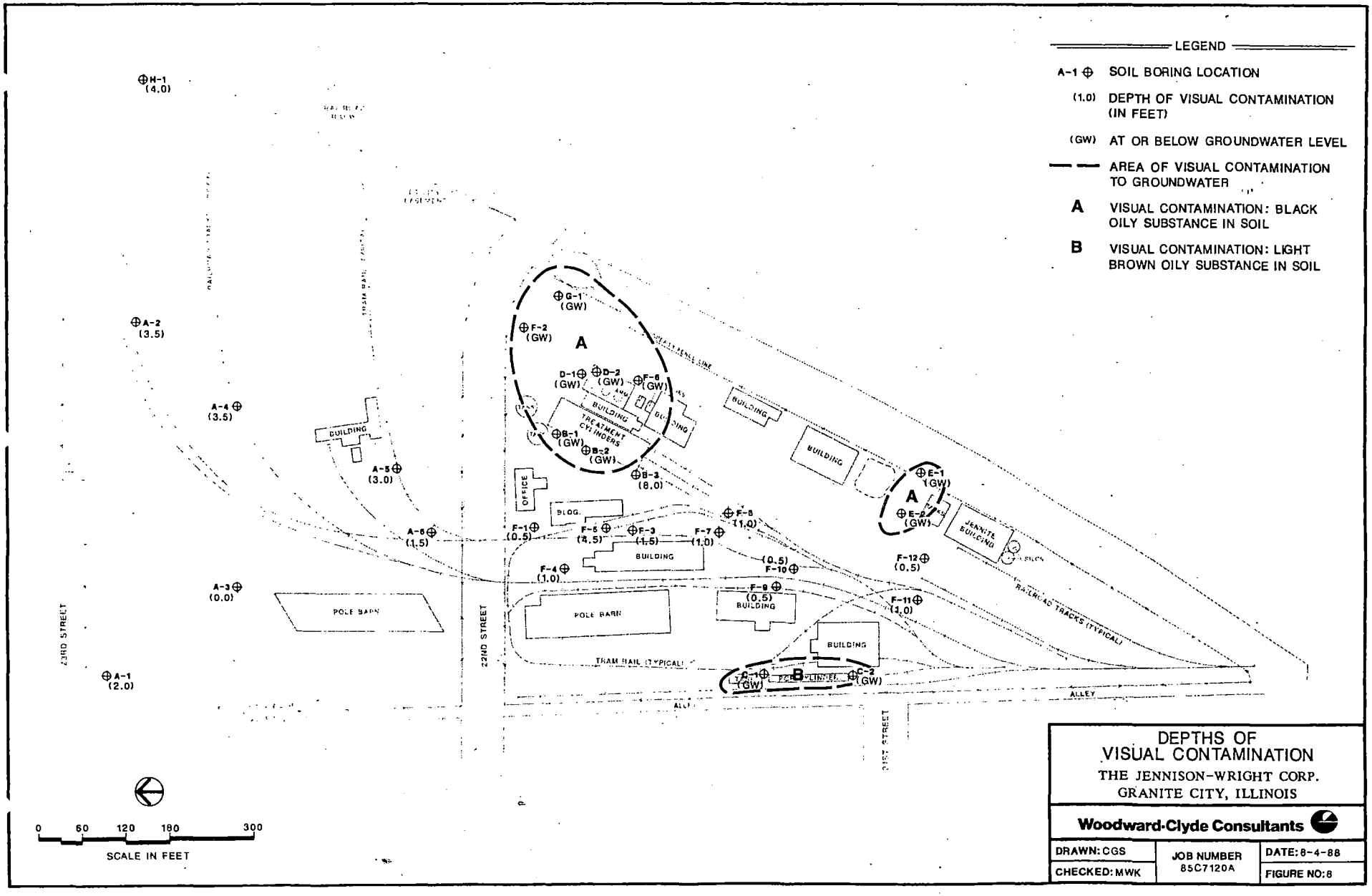


SOIL BORING LOCATIONS

THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

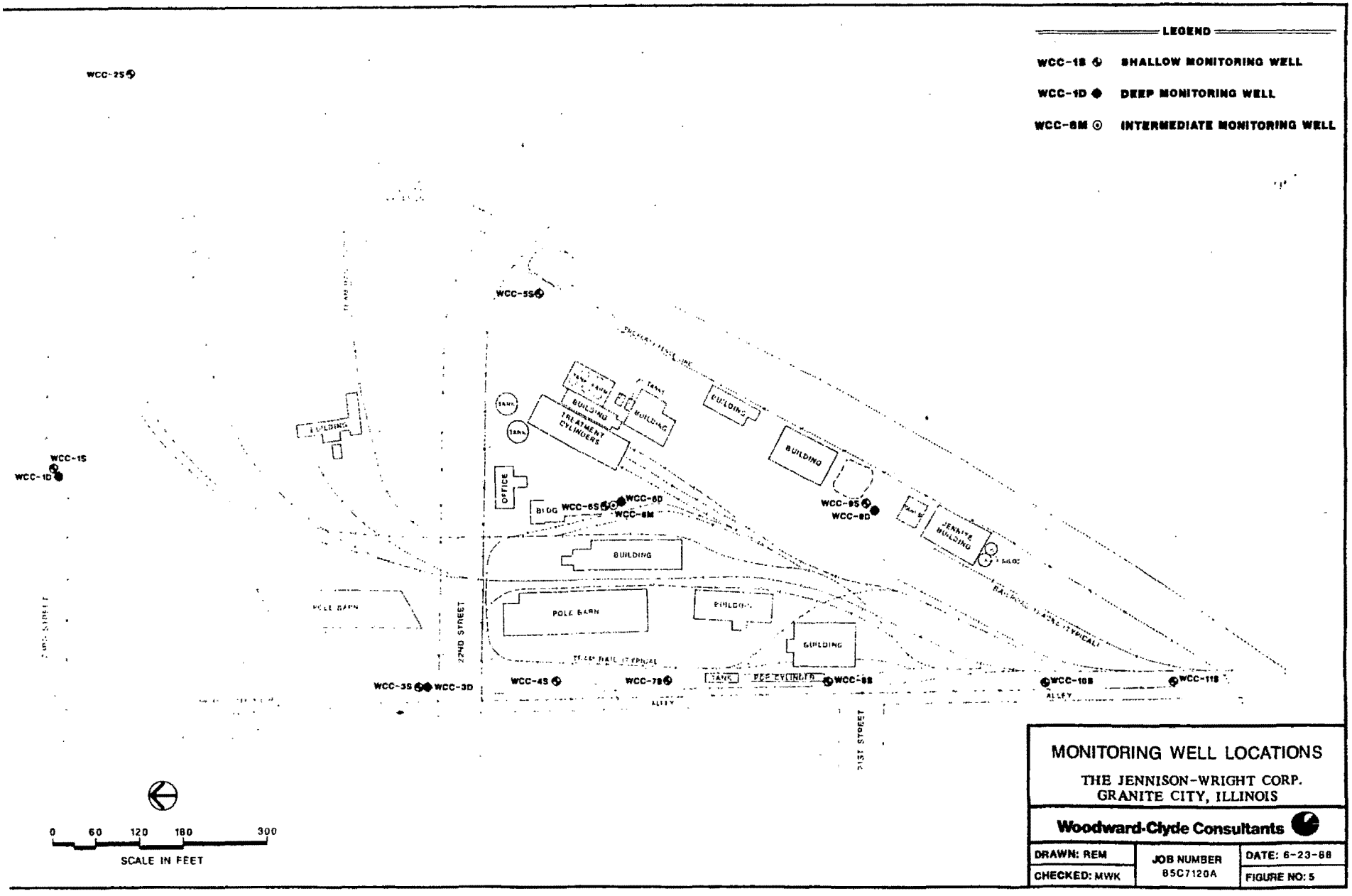
DRAWN: CGS	JOB NUMBER 85C7120A	DATE: 8-4-88
CHECKED: MWK		FIGURE NO: 4



DEPTHS OF VISUAL CONTAMINATION
THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

DRAWN: CGS	JOB NUMBER 85C7120A	DATE: 8-4-88
CHECKED: MWK		FIGURE NO: 8



MONITORING WELL LOCATIONS

THE JENNISON-WRIGHT CORP.
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

DRAWN: REM	JOB NUMBER 85C7120A	DATE: 6-23-88
CHECKED: MWK		FIGURE NO: 5

TABLE 8
OCMA, OIL AND GREASE, PNA ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

Sample Number	OCMA (ppm)	Oil and Grease (mg/Kg)	Visible Contamination	PNA (ug/Kg) Naphthalene	Anthracene	Fluoranthene	Pyrene	Benzo(a) Pyrene
A1-0-2	38	540	No	9000	5400	32000	30000	--
A1-2-4	36	260	No	--	6000	6500	14000	--
A1-6-8	33	660	No	--	--	15000	23000	--
A1-10-12	50	80	No	--	--	--	--	--
A1-14-16	34	240	No	--	--	--	--	--
A3-1-2	90	260	No	--	--	--	6500	--
A3-2-4	108	500	No	--	--	7000	12000	--
A3-6-8	36	120	No	--	--	--	--	--
A3-10-12	38	240	No	--	--	--	--	--
A3-14-16	40	240	No	--	--	--	--	--
B1-10-12	13500	12840	Yes	10E06	1.2E06	2.7E06	2.2E06	200000
B1-12-14	16300	11500	Yes	6.9E06	820000	2.6E06	2.6E06	290000
B1-14-16	580	20	Yes	240000	20000	40000	30000	--
B1-16-18	12400	9500	Yes	14E06	1.3E06	4.9E06	4.4E06	440000
B1-20-22	7000	5600	Yes	6.1E06	900000	2.0E06	1.6E06	210000
B2-8-10	30	240	Yes	70000	--	12000	10000	--
B2-10-12	126	640	Yes	290000	--	20000	20000	--
B2-12-14	735	80	Yes	620000	25000	120000	130000	--
B2-14-16	26	360	Yes	36000	--	9500	9000	--
B2-18-20	20	660	Yes	16000	--	--	--	--
B3-8-10	5600	4160	Yes	960000	400000	860000	660000	100000
B3-12-14	9	60	No	--	--	7000	6000	--
B3-14-16	8	380	No	6200	--	--	--	--
B3-16-18	9	200	No	6000	--	--	--	--
B3-20-22	15	120	Yes	6000	--	--	--	--
C1-2-4	10000	20	Yes	7000	--	7000	13000	--
C1-4-6	26400	840	No	49000	14000	25000	37000	--
C1-8-10	8700	340	No	15000	5500	7500	27000	--
C1-12-14	27	360	No	--	--	--	--	--
C1-18-20	43200	3560	No	240000	26000	9500	19000	--

TABLE 8 (CONT.)
OCMA, OIL AND GREASE, PNA ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

Sample Number	OCMA (ppm)	Oil and Grease (mg/Kg)	Visible Contamination	PNA (ug/Kg) Naphthalene	Anthracene	Fluoranthene	Pyrene	Benzo(a) Pyrene
D2-8-10	9500	11340	Yes	7.1E06	1.2E06	3.6E06	3.2E06	420000
D2-10-12	3800	3800	No	3.7E06	580000	2.1E06	1.9E06	370000
D2-12-14	11500	13640	No	8.5E06	1.9E06	5.5E06	4.4E06	550000
D2-14-16	250	340	Yes	935000	23000	80000	70000	--
D2-18-20	9800	17500	Yes	8.9E06	2.0E06	5.5E06	4.7E06	450000
E2-2-4	15	20	No	9500	--	--	--	--
E2-4-6	40	200	No	180000	9500	40000	27000	--
E2-8-10	11600	11100	Yes	5.2E06	1.9E06	5.1E06	4.5E06	160000
E2-12-14	13	200	Yes	8500	--	--	--	--
E2-14-16	11	240	Yes	29000	--	6000	10000	--
F6-4-6	15	140	No	7600	--	--	--	--
F6-6-8	36	140	No	--	--	--	--	--
F6-8-10	19	20	No	--	--	--	--	--
F6-14-16	14	40	Yes	12000	--	--	--	--
F6-16-18	510	60	Yes	600000	35000	120000	150000	20000
F11-2-4	9	60	No	--	--	--	--	--
F11-4-6	12	580	No	--	--	--	--	--
F11-8-10	9	480	No	--	--	--	--	--
F11-12-14	9	60	No	--	--	--	--	--
F11-14-16	7	80	No	--	--	--	--	--

-- Compounds below method detection limit.

TABLE 9A
BACKGROUND
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	GB-NORTH-0.1-0.5	GB-SOUTH-0.1-0.5	GB-EAST-0.1-0.5	GB-WEST-0.1-0.5	GB-01-X	Background Mean
Phenol	---	---	18 J	---	---	
1,4-Dichlorobenzene	---	6.8 J	---	---	---	
bis(2-Chloroisopropyl)Ether	---	---	---	0.84 J	---	
4-Methylphenol	---	---	10 J	---	---	
N-Nitroso-Di-n-Propylamine	---	5.8 J	7.9 J	21 J	---	
Hexachloroethane	---	39 J	---	13 J	---	
Nitrobenzene	---	9.1 J	---	---	---	
Isophorone	---	---	---	4.2 J	---	
2,4-Dimethylphenol	---	---	---	4.6 J	---	
Benzoic Acid	---	---	37 J	120 J	---	
bis(2-Chloroethoxy)Methane	---	13 J	---	7.2 J	---	
Naphthalene	62 J	520	120 J	410	---	465
4-Chloroaniline	---	6.6 J	---	---	---	
2-Methylnaphthalene	---	---	60 J	450	---	450
2-Nitroaniline	---	13 J	---	---	---	
Dimethyl Phthalate	---	8.1 J	---	---	---	
Acenaphthylene	32 J	69 J	340 J	220 J	---	
3-Nitroaniline	---	7.2 J	---	---	---	
Acenaphthene	32 J	54 J	120 J	70 J	---	
4-Nitrophenol	---	54 J	---	---	---	
Dibenzofuran	33 J	420	93 J	210 J	---	420
2,4-Dinitrotoluene	---	---	---	35 J	---	
2,6-Dinitrotoluene	---	98 J	---	230 J	---	
Diethylphthalate	7.7 J	---	14 J	---	11 J	
Fluorene	22 J	51 J	170 J	89 J	25 J	
N-Nitrosodiphenylamine (1)	25 J	30 J	35 J	6.9 J	---	
Pentachlorophenol	---	---	250 J	---	---	
Phenanthrene	460	1800	2600	1600	570	1406
Anthracene	---	190 J	2800	290 J	90 J	2800
Di-n-Butylphthalate	---	1800	1700	1200	---	1567
Fluoroanthene	---	2300	10000	3700	1300	4325
Pyrene	---	880	5200	1400	550	2008
Butylbenzylphthalate	150 J	120 J	140 J	56 J	250 J	
Benzo(a)Anthracene	270 J	500	2700	970	340 J	1390
bis(2-Ethylhexyl)Phthalate	2000	260 J	510 J	---	280 J	2000
Chrysene	420	700	3400	1500	530	1310
Di-n-Octyl Phthalate	16 J	---	11 J	7.7 J	---	
Benzo(b)Fluoranthene	---	420	3000	3000	---	2140
Benzo(k)Fluoranthene	---	530	4000	3400	---	2643
Benzo(a)Pyrene	430	330 J	3300	1000	490	1305
Indeno(1,2,3-cd)Pyrene	270 J	91 J	1200	280 J	160 J	1200
Dibenz(a,h,)Anthracene	---	---	170 J	150 J	49 J	
Benzo(g,h,i)Perylene	330 J	---	1700	33 J	100 J	1700

Concentrations given in ug/kg (ppb)
--- - Compound not detected
J - Reported value is less than the detection limit.
X - Indicates duplicate sample.
Last two digits in sample number indicate sample depth.

TABLE 10B
AREA A
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-A1-2-4	SB-A2-4-6	SB-A3-4-6	SB-A4-4-6	SB-A4-X	Background Mean
Phenol	---	36 J	---	17 J	4.7 J	
bis(2-Chloroisopropyl)Ether	---	0.25 J	---	---	0.46 J	
4-Methylphenol	---	---	1.4 J	---	---	
N-Nitroso-Di-n-Propylamine	---	2.4 J	---	6.9 J	2.2 J	
Isophorone	0.67 J	---	---	---	---	
Benzoic Acid	---	---	---	---	---	
Naphthalene	4.2 J	2 J	440	5.7 J	2.8 J	465
4-Chloro-3-Methyphenol	---	---	8.1 J	---	---	350
2-Methylnaphthalene	---	1.3 J	110 J	0.49 J	---	450
Acenaphthylene	---	---	38 J	---	---	
Acenaphthene	---	0.98 J	280 J	---	---	
Dibenzofuran	---	1.3 J	210 J	0.88 J	---	420
2,6-Dinitrotoluene	---	---	360 *	---	---	
Diethylphthalate	21 J	15 J	9.2 J	4.7 J	10 J	
Fluorene	2.9 J	2 J	340 J	---	---	
N-Nitrosodiphenylamine (1)	26 J	20 J	34 J	25 J	31 J	
Pentachlorophenol	---	---	---	---	1100 J	
Phenanthrene	25 J	26 J	990	12 J	36 J	1406
Anthracene	4.3 J	28 J	170 J	2 J	---	2800
Di-n-Butylphthalate	420	360	1500	---	---	1567
Fluoroanthene	24 J	26 J	850	18 J	31 J	4325
Pyrene	24 J	22 J	390	15 J	28 J	2008
Butylbenzylphthalate	89 J	76 J	62 J	9.8 J	20 J	
Benzo(a)Anthracene	---	5.7 J	200 J	2.1 J	---	1390
bis(2-Ethylhexyl)Phthalate	---	290 J	190 J	41 J	---	2000
Chrysene	---	---	250 J	6.6 J	7.7 J	1310
Di-n-Octyl Phthalate	3.5 J	---	---	---	44 J	
Benzo(b)Fluoranthene	---	---	220 J	---	---	2140
Benzo(k)Fluoranthene	---	---	160 J	---	---	2643
Benzo(a)Pyrene	---	---	180 J	---	---	1305
Indeno(1,2,3-cd)Pyrene	---	---	120 J	---	---	1200
Dibenz(a,h,)Anthracene	---	---	54 J	---	---	
Benzo(g,h,i)Perylene	---	---	150 J	---	---	1700

TABLE 10B (Cont.)
AREA A
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-A5-4-6	SB-A5-X	SB-A6-4-6	SB-A6-X	Background Mean
Phenol	---	---	---	---	
bis(2-Chloroisopropyl)Eth	---	---	---	---	
4-Methylphenol	---	---	---	---	
N-Nitroso-Di-n-Propylamin	3.4 J	11 J	3.4 J	5.6 J	
Isophorone	---	---	---	---	
Benzoic Acid	---	---	---	17 J	
Naphthalene	5.2 J	3.2 J	2.7 J	---	465
4-Chloro-3-Methyphenol	---	---	---	---	350
2-Methylnaphthalene	1.2 J	---	---	---	450
Acenaphthylene	4.4 J	1.5 J	6.4 J	14 J	
Acenaphthene	---	---	0.84 J	1.9 J	
Dibenzofuran	---	---	2.1 J	3.8 J	420
2,6-Dinitrotoluene	---	---	---	---	
Diethylphthalate	10 J	17 J	3.4 J	9.6 J	
Fluorene	---	---	---	5.6 J	
N-Nitrosodiphenylamine (1	11 J	11 J	8 J	11 J	
Pentachlorophenol	---	---	---	---	
Phenanthrene	11 J	9.8 J	30 J	53 J	1406
Anthracene	12 J	10 J	32 J	56 J	2800
Di-n-Butylphthalate	---	---	---	---	1567
Fluoroanthene	89 J	50 J	200 J	390	4325
Pyrene	110 J	42 J	120 J	220 J	2008
Butylbenzylphthalate	12 J	17 J	12 J	16 J	
Benzo(a)Anthracene	---	---	---	110 J	1390
bis(2-Ethylhexyl)Phthalat	62 J	69 J	41 J	54 J	2000
Chrysene	45 J	17 J	57 J	110 J	1310
Di-n-Octyl Phthalate	---	---	---	---	
Benzo(b)Fluoranthene	---	---	50 J	21 J	2140
Benzo(k)Fluoranthene	---	---	42 J	100 J	2643
Benzo(a)Pyrene	---	---	22 J	47 J	1305
Indeno(1,2,3-cd)Pyrene	---	---	---	11 J	1200
Dibenz(a,h,)Anthracene	---	---	---	---	
Benzo(g,h,i)Perylene	---	---	---	---	1700

Concentrations given in ug/kg (ppb)
* - Concentrations above background
RE - Sample reanalyzed, both initial and reanalysis failed surrogate recovery limits
X - Indicates duplicate sample
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth

TABLE 11A
AREA B
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-B1-4-6	SB-B2-18-20		SB-B3-10-12	Background Mean ***
Ethylbenzene	---	780	*	---	500
Total Xylenes	---	2300	*	---	500

Concentrations given in ug/kg (ppb)
* - Conentration above background
*** - Background Mean is method detection limit
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth.

TABLE 11B
AREA B
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-B1-4-6	SB-B2-18-20	SB-B3-10-12	Background Mean
Phenol	---	23 J	---	
N-Nitroso-Di-Propylamine	8.5 J	---	16 J	
Naphthalene	37 J	120000 *	130 J	465
2-Methylnaphthalene	---	1400 *	---	450
2-Chloronaphthalene	---	82 J	---	350
Dimethyl Phthalate	---	25 J	---	
Acenaphthylene	59 J	610 *	20 J	
3-Nitroaniline	---	49 J	---	
Acenaphthene	16 J	25000 *	160 J	
Dibenzofuran	10 J	---	160 J	420
2,6-Dinitrotoluene	---	420 *	---	
Diethylphthalate	---	10 J	---	
Fluorene	15 J	3100 *	200 J	
N-Nitrosodiphenylamine (1)	---	410 *	---	
Pentachlorophenol	---	1400 J	1800 *	
Phenanthrene	120 J	110000 *	710	1406
Anthracene	170 J	68000 *	76 J	2800
Di-n-Butylphthalate	710	2400 *	1200	1567
Fluoroanthene	2200	69000 *	270 J	4325
Pyrene	1100	2900 *	110 J	2008
Butylbenzylphthalate	160 J	100 J	32 J	
Benzo(a)Anthracene	320 J	6700 *	40 J	1390
bis(2-Ethylhexyl)Phthalate	130 J	380	51 J	2000
Chrysene	660	5100 *	---	1310
Di-n-Octyl Phthalate	31 J	---	---	
Benzo(b)Fluoranthene	650	3400 *	---	2140
Benzo(k)Fluoranthene	580	4300 *	---	2643
Benzo(a)Pyrene	440	3800 *	---	1305
Indeno(1,2,3-cd)Pyrene	87 J	540	---	1200
Dibenz(a,h,)Anthracene	---	350 *	---	
Benzo(g,h,i)Perylene	---	200 J	---	1700

Concentrations given in ug/kg (ppb)
* - Conentration above background
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth.

TABLE 12A
AREA C
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-C1-4-6	SB-C2-6-8	SB-C2-X	SB-C2-16-18**	Background Mean ***
Toluene	---	580 *	310 J		500
Ethylbenzene	---	1000 *	540 *		500
Total Xylenes	---	6800 *	3700 *		500

Concentrations given in ug/kg (ppb)
* - Concentration exceeds background
** - Volatile organic analyses not performed
*** - Background Mean is method detection limit
X - Indicates duplicate sample
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth.

TABLE 12B
AREA C
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

Woodward-Clyde Consultants

CHEMICAL PARAMETER	SB-C1-4-6	SB-C2-6-8	SB-C2-X	SB-C2-16-18	Background Mean
Phenol	---	18 J	---	---	
bis(2-Chloroethyl)Ether	---	---	1.9 J	12 J	350
Benzyl Alcohol	1.5 J	---	0.7 J	---	350
2-Methylphenol	3.3 J	---	2.5 J	---	350
bis(2-Chloroisopropyl)Ether	170 J	---	---	---	
4-Methylphenol	1.5 J	3.6 J	11 J	---	
N-Nitroso-Di-n-Propylamine	490 J	---	---	57 J	
2-Nitrophenol	---	2.4 J	39 J	11 J	350
Benzoic Acid	53 J	3.4 J	110 J	---	
bis(2-Chloroethoxy)Methane	28 J	4.5 J	---	250 J	
Naphthalene	1100 *	150 J	2100 *	5500 *	465
4-Chloro-3-Methyphenol	---	12 J	17 J	---	350
2-Methylnaphthalene	200000 *	690 *	5500 *	---	450
2,4,6-Trichlorophenol	---	---	24 J	---	350
2-Chloronaphthalene	4900 J	6.2 J	86 J	---	350
2-Nitroaniline	---	---	340 J	---	
Acenaphthylene	76 J	25 J	210 J	1200 *	
3-Nitroaniline	---	8.5 J	91 J	---	
Acenaphthene	300 J	81 J	650 *	430 *	
4-Nitrophenol	---	47 J	---	580 J	
Dibenzofuran	6400 *	120 J	---	---	420
2,4-Dinitrotoluene	17000 *	170 J	---	1300 *	
2,6-Dinitrotoluene	59 J	21 J	180 J	---	
Diethylphthalate	93 J	12 J	---	---	
4-Chlorophenyl-phenylether	73 J	---	---	---	350
Fluorene	13 J	220 J	1700 *	330 *	
4-Nitroaniline	---	98 J	---	---	1700
4,6-Dinitro-2-Methylphenol	66 J	8.5 J	---	270 J	1700
N-Nitrosodiphenylamine (1)	7000 *	100 J	740 *	2000 *	
Pentachlorophenol	670000 *	38000 *	---	---	
Phenanthrene	35000 *	1100	3800 *	2300 *	1406
Anthracene	1300	1200	4200 *	2500	2800
Fluoroanthene	13000 *	380	830	810	4325
Pyrene	2100 *	440 J	330 J	1000	2008
Butylbenzylphthalate	---	26 J	---	11 J	
Benzo(a)Anthracene	1300	74 J	84 J	68 J	1390
bis(2-Ethylhexyl)Phthalate	---	810	---	---	2000
Chrysene	1500 *	79 J	88 J	68 J	1310
Di-n-Octyl Phthalate	---	6.4 J	---	2.5 J	
Benzo(b)Fluoranthene	---	43 J	130 J	32 J	2140
Benzo(k)Fluoranthene	---	53 J	---	46 J	2643
Benzo(a)Pyrene	440	---	62 J	---	1305
Indeno(1,2,3-cd)Pyrene	270 J	---	5.1 J	---	1200
Benzo(g,h,i)Perylene	330 J	---	23 J	---	1700

Concentrations given in ug/kg (ppb)
* - Concentration exceeds background
--- - Compound not detected
J - Reported value is less than the detection limit.
X - Indicates duplicate sample
Last two digits in sample number indicate sample depth.

TABLE 13A
AREA D
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-D1-18-20		SB-D2-10-12		SB-D2-X**		SB-D2-XRE**		Background Mean ***
Acetone	---		---		4000	*	---		1000
Benzene	3000	*	---		8900	*	6300	*	500
Toluene	6400	*	---		49000	*	43000	*	500
Ethylbenzene	6200	*	---		84000	*	81000	*	500
Total Xylenes	150000	*	---		210000	*	210000	*	500

Concentrations given in ug/kg (ppb)
* - Concentration above background
** - Sample only analyzed for volatiles
*** - Background Mean is method detection limit.
X - Indicates duplicate sample
--- - Compound not detected
J - Reported value is less than the detection limit.
RE - Sample reanalyzed, both initial and re-analysis failed surrogate revovery limits
Last two digits in sample number indicate sample depth.

TABLE 13B
AREA D
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-D1-18-20	SB-D2-10-12	SB-D2-X**	SB-D2-XRE**	Background Mean
Phenol	240000 J	---			
2-Methylphenol	8200 J	---			350
4-Methylphenol	23000 J	---			350
Hexachloroethane	2500 J	---			
2,4-Dimethylphenol	25000 J	---			
bis(2-Chloroethoxy)Methane	310 J	---			
Naphthalene	4.0E6	210000 *			465
2-Methylnaphthalene	780000 *	42000 *			450
2-Chloronaphthalene	3100 J	---			350
2-Nitroaniline	85000 J	---			
Acenaphthylene	120000 J	4000 J			
3-Nitroaniline	2200 J	---			
Acenaphthene	510000 *	61000 *			
Dibenzofuran	480000 *	45000 *			420
2,4-Dinitrotoluene	43000 *	---			
Diethylphthalate	280 J	---			
Fluorene	930000 *	87000 *			
N-Nitrosodiphenylamine (1)	16000 J	1800 J			
Pentachlorophenol	4600 J	13000 J			
Phenanthrene	1.5E6	300000 *			1406
Anthracene	1.6E6	---			2800
Di-n-Butylphthalate	7600 BJ	---			1567
Fluoroanthene	1.5E6	230000 *			4325
Pyrene	1.2E6	190000 *			2008
Benzo(a)Anthracene	200000 *	---			1390
Chrysene	220000 *	21000 *			1310
Benzo(b)Fluoranthene	43000 *	57000 *			2140
Benzo(k)Fluoranthene	220000 *	25000 J			2643
Benzo(a)Pyrene	150000 *	---			1305
Indeno(1,2,3-cd)Pyrene	39000 *	---			1200
Benzo(g,h,i)Perylene	---	7800 J			1700

Concentrations given in ug/kg (ppb)
* - Concentration above background
** - Sample only analyzed for volatiles
X - Indicates duplicate sample
--- - Compound not detected
J - Reported value is less than the detection limit.
RE - Sample reanalyzed, both initial and re-analysis failed surrogate revovery limits
Last two digits in sample number indicate sample depth.

TABLE 14A
AREAS E AND H
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-E1-14-16	SB-E2-4-6	SB-H1-4-6	Background Mean ***
Chloroform	150 J	---	---	500
Benzene	2600 *	---	---	500
Toluene	12000 *	---	---	500
Ethylbenzene	9600 *	---	---	500
Styrene	5300 *	---	---	500
Total Xylenes	34000 *	---	---	500

Concentration given in ug/kg (ppb)
* - Concentration above background
*** - Background Mean is method detection limit.
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth.

TABLE 14B
AREAS E AND H
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-E1-14-16	SB-E2-4-6	SB-H1-4-6	Background Mean
Phenol	18000 J	580 *	5.5 J	
2-Methylphenol	9700 J	180 J	---	350
4-Methylphenol	35000 *	1100 *	---	
N-Nitroso-Di-n-Propylamine	---	9.1 J	4.9 J	
2,4-Dimethylphenol	11000 J	38 J	---	
Benzoic Acid	41000 J	---	---	
Naphthalene	4.2E6	640 *	29 J	465
2-Methylnaphthalene	520000 *	150 J	9.5 J	450
2-Nitroaniline	39000 J	7.2 J	---	
Dimethyl Phthalate	---	2.7 J	---	
Acenaphthylene	64000 *	17 J	6.7 J	
3-Nitroaniline	2100 J	---	---	
Acenaphthene	650000 *	480 *	9.6 J	
Dibenzofuran	530000 *	480 *	16 J	420
2,4-Dinitrotoluene	29000 *	---	---	
2,6-Dinitrotoluene	---	53 J	---	
Diethylphthalate	---	23 J	6.3 J	
Fluorene	930000 *	460 *	23 J	
4,6-Dinitro-2-Methylphenol	---	780 J	---	1700
N-Nitrosodiphenylamine (1)	12000 J	28 J	32 J	
Pentachlorophenol	27000 J	---	---	
Phenanthrene	2.8E6	220 J	170 J	1406
Anthracene	---	23 J	32 J	2800
Di-n-Butylphthalate	2600 BJ	210 J	---	1567
Fluoroanthene	1.3E6	59 J	200 J	4325
Pyrene	1.1E6	39 J	160 J	2008
Butylbenzylphthalate	---	28 J	4.5 J	
Benzo(a)Anthracene	140000 *	15 J	63 J	1390
bis(2-Ethylhexyl)Phthalate	---	3.3 J	27 J	2000
Chrysene	140000 J	---	88 J	1310
Di-n-Octyl Phthalate	---	0.98 J	---	
Benzo(b)Fluoranthene	52000 J	---	70 J	2140
Benzo(k)Fluoranthene	---	---	80 J	2643

Concentration given in ug/kg (ppb)
* - Concentration above background
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth.

TABLE 15A
AREA F
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-F1-2-4	SB-F2-18-20	SB-F3-6-8	SB-F4-4-6	SB-F5-4-6	SB-F6-6-8	SB-F7-4-6	Background Mean***
Toluene	---	360 J	---	---	---	---	---	500
Styrene	---	---	310 J	160 J	---	---	---	500
Total Xylenes	---	650 *	---	---	---	---	---	500

TABLE 15A (Cont.)
AREA F
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-F8-6-8	SB-F9-4-6	SB-F10-6-8	SB-F11-4-6	SB-F12-2-4	Background Mean ***
Toluene	---	---	---	---	---	500
Styrene	---	---	---	---	---	500
Total Xylenes	---	---	---	---	---	500

Concentrations given in ug/kg (ppb)
* - Concentration above background
*** - Background Mean is method detection limit
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth

TABLE 15B
AREA F
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-F1-2-4	SB-F2-18-20	SB-F3-6-8	SB-F4-4-6	SB-F5-4-6	SB-F6-6-8	SB-F7-4-6	Background Mean
Phenol	---	24 J	---	---	38 J	---	9.4 J	
2-Methylphenol	---	260 J	---	---	---	---	---	350
bis(2-Chloroisopropyl)Ether	---	0.77 J	---	---	---	---	---	
4-Methylphenol	---	58 J	---	---	16 J	3.8 J	---	
N-Nitroso-Di-n-Propylamine	3.8 J	---	---	5.6 J	5.9 J	---	2.1 J	
Nitrobenzene	---	---	---	---	---	---	---	
Isophorone	0.63 J	---	---	1.5 J	---	---	0.7 J	
2,4-Dimethylphenol	---	830 *	---	---	---	1.5 J	---	
Benzoic Acid	---	160 J	---	---	---	---	---	
Naphthalene	7.4 J	23000 *	28 J	5.1 J	1700 *	270 J	16 J	465
4-Chloroaniline	---	3.2 J	---	---	---	---	---	
4-Chloro-3-Methyphenol	---	10 J	---	---	---	15 J	---	350
2-Methylnaphthalene	---	6900 *	4.5 J	---	580 *	110 J	---	450
2,4,5-Trichlorophenol	---	30 J	---	---	---	---	---	1700
2-Chloronaphthalene	---	10 J	---	---	---	---	---	350
2-Nitroaniline	---	200 J	---	---	---	32 J	---	
Dimethyl Phthalate	---	4.8 J	---	---	2.5 J	1.2 J	---	
Acenaphthylene	9.2 J	270 J	---	6 J	95 J	20 J	12 J	
3-Nitroaniline	---	---	---	---	---	---	---	
Acenaphthene	2.6 J	7800 *	5.8 J	1.8 J	1900 *	270 J	11 J	
2,4-Dinitrophenol	---	20 J	---	---	---	---	---	1700
4-Nitrophenol	---	400 J	---	---	210 J	---	---	
Dibenzofuran	---	7700 *	6.4 J	---	1600 *	280 J	8.6 J	420
2,4-Dinitrotoluene	---	97 J	---	---	---	---	---	
2,6-Dinitrotoluene	34 J	---	---	44 J	53 J	510 *	180 J	
Diethylphthalate	7.2 J	---	7.8 J	15 J *	7.8 J	11 J	8.3 J	
Fluorene	5.3 J	10000 *	5.7 J	2.3 J *	2700 *	430 *	21 J	
4-Nitroaniline	---	14 J	---	---	---	---	---	1700
4,6-Dinitro-2-Methylphenol	---	350 J	---	---	---	---	---	1700
N-Nitrosodiphenylamine (1)	12 J	230 J	44 J	---	29 J	32 J	11 J	
Pentachlorophenol	---	---	---	---	220 J	---	---	
Phenanthrene	51 J	33000 *	28 J	13 J	3100 *	870	62 J	1406
Anthracene	11 J	3000 *	2.4 J	14 J	3400 *	120 J	67 J	2800
Di-n-Butylphthalate	120 J	140 J	---	240 J	93 J	1500	170 J	1567
Fluoroanthene	260 J	17000 *	---	35 J	9700 *	390	89 J	4325
Pyrene	160 J	11000 *	---	20 J	3900 *	190 J	43 J	2008
Butylbenzylphthalate	13 J	7.6 J	---	48 J	11 J	39 J	19 J	
Benzo(a)Anthracene	30 J	2200 *	---	---	980	---	---	1390
bis(2-Ethylhexyl)Phthalate	190 J	360	79 J	30 J	94 J	---	180 J	2000
Chrysene	100 J	2500 *	---	22 J	1200	---	---	1310
Di-n-Octyl Phthalate	36 J	---	---	---	---	1.4 J	---	
Benzo(b)Fluoranthene	55 J	1200	---	---	820	---	---	2140
Benzo(k)Fluoranthene	56 J	1200	---	---	840	---	---	2643
Benzo(a)Pyrene	12 J	1100	---	---	420	---	17 J	1305
Indeno(1,2,3-cd)Pyrene	7 J	110 J	---	---	130 J	---	---	1200
Benzo(g,h,i)Perylene	---	51	---	---	120 J	---	---	1700

TABLE 15B (Cont.)
AREA F
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-F8-6-8	SB-F9-4-6	SB-F10-6-8	SB-F11-4-6	SB-F12-2-4	Background Mean
Phenol	5.4 J	2.3 J	---	---	---	
2-Methylphenol	---	---	---	---	---	350
bis(2-Chloroisopropyl)Ether	---	---	0.14 J	---	0.39 J	
4-Methylphenol	---	---	---	---	---	
N-Nitroso-Di-n-Propylamine	2.9 J	0.7 J	7 J	---	---	
Nitrobenzene	---	---	2.9 J	---	---	
Isophorone	---	---	3 J	---	---	
2,4-Dimethylphenol	---	---	---	---	---	
Benzoic Acid	---	---	57 J	---	---	
Naphthalene	25 J	14 J	29 J	---	---	465
4-Chloroaniline	---	---	---	---	---	
4-Chloro-3-Methyphenol	---	---	---	---	---	350
2-Methylnaphthalene	---	---	15 J	29 J	6 J	450
2,4,5-Trichlorophenol	---	---	---	---	---	1700
2-Chloronaphthalene	---	---	---	---	---	350
2-Nitroaniline	---	---	---	---	---	
Dimethyl Phthalate	---	---	---	---	---	
Acenaphthylene	3.8 J	13 J	9.5 J	20 J	3 J	
3-Nitroaniline	---	---	34 J	---	---	
Acenaphthene	78 J	9.6 J	29 J	5.9 J	5.4 J	
2,4-Dinitrophenol	---	---	---	---	---	1700
4-Nitrophenol	---	---	---	---	---	
Dibenzofuran	46 J	---	31 J	---	---	420
2,4-Dinitrotoluene	100 J	---	49 J	---	---	
2,6-Dinitrotoluene	---	---	250 J	350 *	450 *	
Diethylphthalate	---	6.5 J	17 J	---	---	
Fluorene	87 J	9.6 J	45 J	4.8 J	2.4 J	
4-Nitroaniline	---	---	---	---	---	1700
4,6-Dinitro-2-Methylphenol	---	---	---	---	---	1700
N-Nitrosodiphenylamine (1)	45 J	13 J	47 J	16 J	15 J	
Pentachlorophenol	---	---	---	97 J	---	
Phenanthrene	660	40 J	160 J	26 J	12 J	1406
Anthracene	58 J	43 J	38 J	---	---	2800
Di-n-Butylphthalate	92 J	130 J	110 J	300 J	360	1567
Fluoroanthene	510	140 J	150 J	39 J	21 J	4325
Pyrene	440	75 J	140 J	35 J	17 J	2008
Butylbenzylphthalate	---	14 J	16 J	---	---	
Benzo(a)Anthracene	81 J	31 J	51 J	26 J	---	1390
bis(2-Ethylhexyl)Phthalate	74 J	160 J	39 J	---	---	2000

TABLE 15B (Cont.)
AREA F
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	SB-F8-6-8	SB-F9-4-6	SB-F10-6-8	SB-F11-4-6	SB-F12-2-4	Background Mean
Chrysene	110 J	32 J	58 J	---	---	1310
Di-n-Octyl Phthalate	---	---	8.4 J	---	---	
Benzo(b)Fluoranthene	---	2.2 J	12 J	17 J	---	2140
Benzo(k)Fluoranthene	49 J	14 J	---	---	---	2643
Benzo(a)Pyrene	---	---	---	---	---	1305
Indeno(1,2,3-cd)Pyrene	---	---	---	---	---	1200
Benzo(g,h,i)Perylene	---	---	---	---	---	1700

Concentrations given in ug/kg (ppb)
* - Concentration above background
--- - Compound not detected
J - Reported value is less than the detection limit.
Last two digits in sample number indicate sample depth

TABLE 16A
SHALLOW GROUNDWATER
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	WCC-01S	WCC-02S	WCC-03S	WCC-04S	WCC-04S RE	WCC-05S	WCC-05S RE	WCC-06S	WCC-07S
1,1,1-Trichloroethane	---	---	---	---	---	1.2 J	1.1 J	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---	1.6 J	---
1,1,Dichloroethene	---	---	---	---	---	11	---	---	---
1,2-Dichloropropane	---	---	---	---	---	0.27	---	---	---
2-Butanone	---	---	---	---	---	22	17	---	---
2-Hexanone	---	---	---	0.39 J	---	6.7 J	380 B	---	---
Acetone	---	11 B	24	7.2 BJ	5.4 BJ	35 B	130 B	4.5 J	14 B
Benzene	---	---	---	0.24 BJ	---	1200 B	670 B	0.31 J	0.13 J
Chloroform	---	---	---	---	0.54 BJ	46 B	1.9	1.3 J	---
Ethylbenzene	---	---	---	---	---	45	72 J	---	---
Methylene Chloride	1.2 J	---	---	1.9 J	---	1100	290 B	---	---
Styrene	---	---	---	---	---	32	37 J	---	---
Toluene	---	---	---	---	---	830	860	2.6 J	0.06 J
Total Xylenes	---	---	---	---	---	170	160	---	---
Trans 1,2-Dichloroethene	---	---	---	---	---	30	0.082 J	---	---
Trichloroethene	---	---	---	---	---	0.51 J	0.36 J	---	---

*

TABLE 16A(Cont.)
SHALLOW GROUNDWATER
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	WCC-08S	WCC-08S RE	WCC-09S	WCC-09S RE	WCC-10S	WCC-11S	WCC-15X	WCC-16X
1,1,1-Trichloroethane	2.7 J	---	1.4 J	1 J	---	---	---	---
1,1,2-Trichloroethane	---	---	0.39 J	---	---	---	---	---
1,1,Dichloroethene	---	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---	0.076 BJ
2-Hexanone	---	---	---	---	---	---	---	0.19 J
Acetone	110	---	260 B	20 B	---	---	4.2 BJ	15 B
Benzene	10 J	---	260 B	600 B	---	---	---	---
Chloroform	7.1 J	5.1 J	53 B	39 B	---	---	---	---
Ethylbenzene	---	---	53	57	---	---	---	---
Methylene Chloride	220	130	720 B	130 B	---	---	---	6 B
Styrene	---	---	40 J	37	---	---	---	---
Toluene	130	270	330	530	---	---	---	---
Total Xylenes	140	---	160	216	---	---	---	---
Trans 1,2-Dichloroethene	---	---	---	---	---	---	---	---
Trichloroethene	---	---	0.61 J	0.92 J	---	---	---	---

Concentrations given in ug/l (ppb)
--- - Compound not detected
J - Reported value is less than the detection limit.
B - Compound found in laboratory blank
RE - Sample reanalyzed, both initial and reanalysis failed surrogate recovery limits
15X - Duplicate of 11S
16X - Field blank

TABLE 16B
SHALLOW GROUNDWATER
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

	WCC-01S	WCC-02S	WCC-02S RE	WCC-03S	WCC-04S	WCC-04S RE	WCC-05S	WCC-06S	WCC-07S RE	WCC-08S
Phenol	---	---	---	---	---	---	9800	---	---	---
2-Methylphenol	---	---	---	---	---	---	5100	---	---	---
4-Methylphenol	---	---	---	---	---	---	16000	---	---	---
2,4-Dimethylphenol	---	---	---	---	---	---	2800	---	---	---
Benzoic Acid	---	---	---	---	---	---	450 J	---	---	---
Naphthalene	---	---	---	---	---	---	3400	3 J	---	64
2-Methylnaphthalene	---	---	---	---	---	---	94	---	---	86
Acenaphthylene	---	---	---	---	---	---	15	---	---	---
Acenaphthene	---	---	---	---	---	---	130	---	---	4 J
Dibenzofuran	---	---	---	---	---	---	91	---	---	---
Diethylphthalate	---	---	---	---	---	---	---	---	---	2 J
Fluorene	---	---	---	---	---	---	41	---	---	3 J
4,6-Dinitro-2-Methylphenol	---	---	---	---	---	---	46 J	---	---	---
Pentachlorophenol	---	---	---	---	---	---	9 J	---	---	39 J
Phenanthrene	---	---	---	---	---	---	51	---	---	5 J
Anthracene	---	---	---	---	---	---	4 J	---	---	---
Di-n-Butylphthalate	5 JB	3 J	2 J	3 JB	5 JB	---	9 JB	5 JB	---	7 JB
Fluoranthene	---	---	---	---	---	---	20 *	---	---	---
Pyrene	---	---	---	---	---	---	12 *	---	---	---
bis(2-Ethylhexyl)Phthalate	20 B	25 B	22 B	14 B	13 B	4 JB	6 JB	8 JB	---	18 B
Di-n-Octyl Phthalate	---	22 *	22 *	---	3 J	---	---	---	---	---

TABLE 16B(Cont)
GROUNDWATER
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

	WCC-08S RE	WCC-09S	WCC-10S	WCC-11S	WCC-15X	WCC-16X
Phenol	---	260	---	---	---	9 J
2-Methylphenol	---	480	---	---	---	2 J
4-Methylphenol	---	1100	---	---	4 J	14
2,4-Dimethylphenol	4 J	640	---	---	---	---
Benzoic Acid	---	---	---	---	---	---
Naphthalene	78	* 5500	---	---	---	4 J
2-Methylnaphthalene	110	* 260	---	---	---	---
Acenaphthylene	---	---	---	---	---	---
Acenaphthene	3 J	190	---	---	---	---
Dibenzofuran	2 J	110	---	---	---	---
Diethylphthalate	---	---	---	---	---	---
Fluorene	3 J	85	---	---	---	---
4,6-Dinitro-2-Methylphenol	---	---	---	---	---	---
Pentachlorophenol	25 J	100	---	---	---	---
Phenanthrene	5 J	110	---	---	---	---
Anthracene	---	---	---	---	---	---
Di-n-Butylphthalate	3 J	3	---	9 JB	3 JB	4 JB
Fluoroanthene	2 J	26	---	---	---	---
Pyrene	---	15	---	---	---	---
bis(2-Ethylhexyl)Phthalate	15 B	7	4 JB	15 B	21 B	5 JB
Di-n-Octyl Phthalate	24	---	---	4 J	27	---

Concentrations given in ug/l (ppb)
--- - Compound not detected
J - Reported value is less than the detection limit.
B - Compound found in laboratory blank

TABLE 16C
SHALLOW GROUNDWATER
PESTICIDE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	WCC-01S	WCC-02S	WCC-03S	WCC-04S	WCC-05S	WCC-06S
Aldrin	---	0.62	---	---	---	---
Heptachlor	---	---	---	---	---	0.14
Endrin	---	---	---	---	---	---

TABLE 16C(Cont.)
SHALLOW GROUNDWATER
PESTICIDE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	WCC-07S	WCC-08S	WCC-09S	WCC-10S	WCC-11S	WCC-15X	WCC-16X
Aldrin	0.44	19.23	---	---	---	---	---
Heptachlor	---	10.68	---	---	---	---	---
Endrin	---	---	0.17	---	---	---	---

NO PESTICIDES OR PCB's FOUND IN DEEP WELLS OR FIELD BLANKS

Concentrations given in ug/l (ppb)
--- - Compound not detected
15X - duplicate of 11S
16X - Field blank

TABLE 17A
SHALLOW GROUNDWATER
VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

CHEMICAL PARAMETER	WCC-01D	WCC-01D RE	WCC-03D	WCC-06M	WCC-06D	WCC-09D	WCC-19X	WCC-20X
1,1,1-Trichloroethane	---	---	---	---	---	---	---	0.91 J
2-Hexanone	---	1.5 BJ	---	---	---	---	---	---
Acetone	38 B	7.4 BJ	14 B	600 B	10 B	9.2 BJ	8 BJ	11 B
Benzene	---	1.1 BJ	---	0.43 BJ	0.18 BJ	---	0.11 BJ	5 BJ
Chloroform	0.03 BJ	0.95 BJ	0.44 BJ	0.06 BJ	0.06 BJ	0.29 BJ	0.42 BJ	0.20 BJ
Methylene Chloride	---	2.7 BJ	---	---	---	---	---	---
Toluene	---	0.16 J	1.1 J	---	---	---	---	0.73 J

Concentrations given in ug/l (ppb)
--- - Compound not detected
J - Reported value is less than the detection limit.
B - Compound found in laboratory blank
RE - Sample reanalyzed, both initial and reanalysis failed surrogate recovery limits
19X - Duplicate of 9D
20X - Field blank

TABLE 17B
DEEP GROUNDWATER
SEMI-VOLATILE ANALYTICAL RESULTS
THE JENNISON-WRIGHT FACILITY
GRANITE CITY, ILLINOIS

	WCC-01D	WCC-3D	WCC-06M	WCC-06D	WCC-09D	WCC-20X
Di-n-Butylphthalate	---	0.9 JB	---	---	---	2 J
bis(2-Ethylhexyl)Phthalate	---	2 JB	3 JB	4 JB	3 JB	5 JB
Di-n-Octyl Phthalate	---	9 J	---	---	---	4 J

Concentrations given in ug/l (ppb)
--- - Compound not detected
J - Reported value is less than the detection limit.
B - Compound found in laboratory blank
19X - Not analyzed for semi-volatiles
20X - Field blank

APPENDIX I

WELL LOGS

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRIL

FILL IN ALL PERTINENT INFORMATION REQUESTEI D MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

7/84 mtw

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled____. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed X.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	81

2. Distance to Nearest:
   Building____Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank____ Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed 1/5/84
5. Permanent Pump Installed? Yes____Date____No X
   Manufacturer____Type____Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____No____Type____
7. Pitless Adapter Installed? Yes____No____
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes____No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

[redacted] Non-responsive

Drillebt Charles Drilling Co. License No. 092006535 C.P. Chitwood

11. Permit No. 110923 Date 12/27/83
12. Water from SAnd& Gravel (Formation) at depth 70 to 89 ft.
13. County Madison
    Sec[redacted] Non-responsive
    Tw[redacted]
    Rg[redacted]
    Ele[redacted]
14. Screen: Diam. 6 in.
    Length: 8 ft. Slot____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	#19 steel	0	81

SHOW LOCATION IN [redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level____ft. below casing top which is one ft. above ground level. Pumping level____ft. when pumping at 200 gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay &Sand	70	70
Sand & Gravel	19	89

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE [illegible]

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of P ...lth
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRII S

FILL IN ALL PERTINENT INFORMATION REQUI ND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	67
Gravel	67	75

2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field –
   Cess Pool – Sewer (non Cast iron) –
   Privy – Sewer (Cast iron) –
   Septic Tank 100 Barnyard –
   Leaching Pit – Manure Pile –
3. Well furnishes water for human consumption? Yes____No____
4. Date well completed 3-30-77
5. Permanent Pump Installed? Yes ✓ Date 4-6-77 No____
   Manufacturer Jacuzzi Type Subm Location Well
   Capacity 15 gpm. Depth of Setting 60 Ft.
6. Well Top Sealed? Yes ✓ No____Type____
7. Pitless Adapter Installed? Yes ✓ No____
   Manufacturer Matthews Model Number A sub 3
   How attached to casing? Bolted
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes ✓ No____
10. Pressure Tank Size 220 gal. Type Captive Air
    Location Basement
11. Water Sample Submitted? Yes____No ✓
REMARKS:

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Prop[redacted] Non-responsive
    Add[redacted]
    Driller [redacted] License No. [redacted]
11. Permit No. 57978 Date [redacted] 3-21-77
12. Water from Sand & Gravel (Formation) 13. County Madison
    at depth____to____ft. Sec. [redacted] Non-responsive
    14. Screen: Diam. 6 5/8 in. Twp.
    Length: 8 ft. Slot____ Rge.
    Elev.
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Stel	0	67

Non-responsive

16. Size Hole below casing: 6 in.
17. Static level 20 ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 50 gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & Gravel	75	75

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chitwood DATE 5-23-77

ite Copy –
ll. Dept. of Public Health
llow Copy – Well Contractor
ue Copy – Well Owner

INSTRUCTIONS TO DRILLER

FILL IN ALL PERTINENT INFORMATION REQUESTED. MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material_____. Buried Slab: Yes_____No_____
   b. Driven_____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled_____. Finished in Drift_____. In Rock_____.
   Tubular_____. Gravel Packed X.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings-Gravel	0	75

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed 4/21/87
5. Permanent Pump Installed? Yes____Date _____No X
   Manufacturer_____Type _____Location _____
   Capacity_____gpm. Depth of Setting _____Ft.
6. Well Top Sealed? Yes X No____Type W.T. Ill.approved
7. Pitless Adapter Installed? Yes_____ No_____
   Manufacturer _____Model Number _____
   How attached to casing?_____
8. Well Disinfected? Yes /x No_____
9. Pump and Equipment Disinfected? Yes_____No_____
10. Pressure Tank Size_____gal. Type _____
    Location _____
11. Water Sample Submitted? Yes_____No X

REMARKS:

Co. # 25007

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Proper[redacted] Non-responsive
    Addres[redacted]
    Driller ~~St.Charles Drilling Co.~~ License No. 102002979 AH Miller
11. Permit No. 131437 Date 4/28/87
12. Water from Gravel (Formation) 13. County Madison
    at depth 70 to 83 ft. Sec.[redacted] Non-responsive
14. Screen: Diam. 6 in. Twp[redacted]
    Length: 8 ft. Slot _____ Rge.[redacted]
    Elev[redacted]
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	#19 steel	0	75

SHOW LOCATION IN SECTION PLAT [redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level _____ft. below casing top which is one ft. above ground level. Pumping level _____ft. when pumping at 100 gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay-Sand	70	70
Gravel	13	83

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 5/13/87

IDPH 4.065
1/74 – KNB-1

White Cop[illegible]
Ill. Dep[illegible]ic Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO [illegible]ILLERS

FILL IN ALL PERTINENT INFORMATION RE( ) AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock____.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Clay	0	50
Gravel	50	76

2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field 125'
   Cess Pool None Sewer (non Cast iron) none
   Privy none Sewer (Cast iron) none
   Septic Tank 100' Barnyard none
   Leaching Pit none Manure Pile none
3. Is water from this well to be used for human consumption?
   Yes ✓ No____
4. Date well completed 10-13-72
5. Permanent Pump Installed? Yes ✓ No____
   Manufacturer Jacuzzi Type Submersible
   Capacity____gpm. Depth of setting 60 ft.
6. Well Top Sealed? Yes ✓ No____
7. Pitless Adaptor Installed? Yes ✓ No____
8. Well Disinfected? Yes ✓ No____
9. Water Sample Submitted? Yes____No ✓

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. [redacted] Non-responsive
    Driller St Charles Drilling Co License No. 92-461
11. Permit No. NF 16031 Date 8-17-72
12. Water from Gravel (Formation) at depth 66 to 76 ft.
13. County Madison
    Sec. [redacted] Non-responsive
    Twp
    Rge.
    Elev
14. Screen: Diam. 6 5/8 in.
    Length: 10 ft. Slot____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	PVC	0	76

SHOW LOCATION IN [redacted] Non-responsive

16. Size Hole below casing: 10 in.
17. Static level 20 ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 80+ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	15	15
fine Sand	10	25
Blue Clay	35	60
Gravel	16	76

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE Feb 8 73

Copy – Dept. of Public Health
Copy – Well Contractor
Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUIRED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

. Type of Well
a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
Curb material_____. Buried Slab: Yes____No____
b. Driven_____. Drive Pipe Diam.____in. Depth____ft.
c. Drilled_____. Finished in Drift_____. In Rock_____.
Tubular_____. Gravel Packed X.
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	76

. Distance to Nearest:
Building_____Ft. Seepage Tile Field_____
Cess Pool_____ Sewer (non Cast iron)_____
Privy_____ Sewer (Cast iron)_____
Septic Tank_____ Barnyard_____
Leaching Pit_____ Manure Pile_____
. Well furnishes water for human consumption? Yes X No____
. Date well completed 5/21/81
. Permanent Pump Installed? Yes____Date_____No X
Manufacturer_____Type_____Location_____
Capacity_____gpm. Depth of Setting_____Ft.
. Well Top Sealed? Yes____No____Type_____
7. Pitless Adapter Installed? Yes____No____
Manufacturer_____Model Number_____
How attached to casing?_____
8. Well Disinfected? Yes____No____
9. Pump and Equipment Disinfected? Yes____No____
0. Pressure Tank Size____gal. Type_____
Location_____
1. Water Sample Submitted? Yes____No____
EMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. [redacted]

Driller St. Charles Drilling Co. License No. 092006535 C.P. Chitwood
11. Permit No. 99546 Date 5/6/81
12. Water from Gravel Formation 13. County Madison
at depth 75 to 84 ft. Sec. [redacted]
14. Screen: Diam. 6 in. Twp.
Length: 8 ft. Slot_____ Rge.
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	19# Steel	0	76

SHOW LOCATION IN [redacted]

16. Size Hole below casing: 6 in.
17. Static level_____ft. below casing top which is I ft. above ground level. Pumping level_____ft. when pumping at 50 gpm for_____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	25	25
Sand & Gravel	45	70
Gravel	14	84

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C P Chitwood DATE 8/13/81

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ✓. Hole Diam. 30 in. Depth 26 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ____. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 20+ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 100+ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed ____
5. Permanent Pump Installed? Yes ____ Date ____ No ✓
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes ✓ No ____ Type ____
7. Pitless Adapter Installed? Yes ____ No ✓
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Non-responsive

10. P[redacted]
    Address Granite City Ill.
    Driller Gary E. Noll License No. 92-623
11. Permit No. 102330 Date ____
12. Water from Sand (Formation) 13. County Madison
    at depth ____ to ____ ft. Sec. [redacted]
    14. Screen: Diam. ____ in. Twp. [redacted]
    Length: ____ ft. Slot ____ Rge. [redacted]
    Elev. [redacted]

Non-responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
30	concrete	27	

SHOW LOCATION IN SECTION PLAT

Non-responsive

16. Size Hole below casing: ____ in.
17. Static level ____ ft. below casing top which is ____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	15	
Sand	11	

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Gary E. Noll DATE 3-22-82

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO RS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ✓. Hole Diam. 30 in. Depth 28 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ____. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field no
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 95 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed ____
5. Permanent Pump Installed? Yes ____ No ✓
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes ✓ No ____
7. Pitless Adaptor Installed? Yes ____ No ✓
8. Well Disinfected? Yes ✓ No ____
9. Water Sample Submitted? Yes ____ No ✓

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property [redacted] Non-responsive
    Address Grantie Ill
    Driller Gust Bekemeyer License No. 92-472
11. Permit No. 28466 Date ____
12. Water from Sand (Formation) 13. County Madison
    at depth ____ to ____ ft. Se[redacted] Non-responsive
14. Screen: Diam. ____ in. Tw[redacted]
    Length: ____ ft. Slot ____ Rg[redacted]
    El[redacted]
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
30	concrete	29	

SHOW LOCATION IN [redacted] Non-responsive

16. Size Hole below casing: ____ in.
17. Static level ____ ft. below casing top which is ____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
clay	8	8
Sand	20	28

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Guy E. Nell DATE 4/18/74
Hamel Well Dwlg.

te Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	55

2. Distance to Nearest:
   Building 7' Ft. Seepage Tile Field 75' and away
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 75' Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes____ No____
4. Date well completed Well Only 6-20-74
5. Permanent Pump Installed? Yes____ No ✓
   Manufacturer____ Type____
   Capacity____gpm. Depth of setting____ft.
6. Well Top Sealed? Yes____ No____
7. Pitless Adaptor Installed? Yes____ No____
8. Well Disinfected? Yes ✓ No____
9. Water Sample Submitted? Yes____ No ✓

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Non-responsive

10. Property [redacted]
    Address
    Driller St Charles Drilling License No. 102-50
11. Permit No. 30421 Date 6-11-74
12. Water from Gravel (Formation) 13. County Madison
    at depth 84 to 92 ft. Sec. [redacted]
    14. Screen: Diam. 6" in. Twp.
    Length: 8 ft. Slotted Casing Rge.
    Elev.

Non-responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	PVC . Sch 40	0	92

SHOW LOCATION IN SECTION PLAT

Non-responsive

16. Size Hole below casing: 6 in.
17. Static level____ft. below casing top which is____ft. above ground level. Pumping level____ft. when pumping at 50+ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	20	20
Sand	10	30
Clay	25	55
Gravel	37	92

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Karl F. Stay DATE 12/12/74

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO L

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material_____. Buried Slab: Yes_____No_____
   b. Driven_____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift_____. In Rock_____.
   Tubular_____. Gravel Packed X.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	87
Gravel	87	95

2. Distance to Nearest:
   Building 181 Ft. Seepage Tile Field_____
   Cess Pool_____ Sewer (non Cast iron)_____
   Privy_____ Sewer (Cast iron)_____
   Septic Tank_____ Barnyard_____
   Leaching Pit_____ Manure Pile_____
3. Well furnishes water for human consumption? Yes X No_____
4. Date well completed 10-7-80
5. Permanent Pump Installed? Yes X Date 10-20-80 No_____
   Manufacturer Jacuzzi Type Sub. Location well
   Capacity 20 gpm. Depth of Setting 60 Ft.
6. Well Top Sealed? Yes X No_____ Type Mathews
7. Pitless Adapter Installed? Yes X No_____
   Manufacturer Merrill Model Number MBP
   How attached to casing? bolted
8. Well Disinfected? Yes X No_____
9. Pump and Equipment Disinfected? Yes X No_____
10. Pressure Tank Size 220 gal. Type Captive Air
    Location basement
11. Water Sample Submitted? Yes_____ No X

REMARKS:

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property [redacted] Non-responsive
    Address [redacted]
    Driller St. Charles Drilling License No. 092-006535/C P. Chitwood
11. Permit No. 96493 Date 10-6-80
12. Water from Sand Formation at depth 20 to 95 ft.
13. County Madison [redacted] Non-responsive
    Sec. [redacted]
    Twp. [redacted]
    Rge. [redacted]
    Elev. [redacted]
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot X
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	Steel 19#	0	87

SHOW LOCATION IN [redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level_____ft. below casing top which is 1 ft. above ground level. Pumping level_____ft. when pumping at 100+ gpm for_____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	20	20
Fine Sand	50	70
Course Sand	25	95

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chitwood DATE 10-25-80

hite Copy – Ill. Dept. of Public Health
ellow Copy – Well Contractor
lue Copy – Well Owner

INSTRUCTIONS TO ISWS:

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material _____. Buried Slab: Yes_____No_____
   b. Driven _____. Drive Pipe Diam. _____in. Depth _____ft.
   c. Drilled _____. Finished in Drift _____. In Rock _____.
   Tubular _____. Gravel Packed ___X___.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings-Gravel	0	80

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes ___X___ No _____
4. Date well completed 7/3/85
5. Permanent Pump Installed? Yes ___ Date _____ No ___X___
   Manufacturer _____ Type _____ Location _____
   Capacity _____ gpm. Depth of Setting _____ Ft.
6. Well Top Sealed? Yes ___X___ No _____ Type W.T. Ill. Approved.
7. Pitless Adapter Installed? Yes _____ No ___X___
   Manufacturer _____ Model Number _____
   How attached to casing? _____
8. Well Disinfected? Yes ___X___ No _____
9. Pump and Equipment Disinfected? Yes _____ No _____
10. Pressure Tank Size _____ gal. Type _____
    Location _____
11. Water Sample Submitted? Yes _____ No ___X___

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property [redacted] Non-responsive
    Address [redacted]
    Driller [redacted] .Chitwood
11. Permit No. 116008 Date 11/30/84
12. Water from Gravel (Formation) 13. County Madison
    at depth 67 to 80 ft. [redacted] Non-responsive
14. Screen: Diam. 6 in.
    Length: 8 ft. Slot _____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW LOCATION IN
6 5/8	19# steel	0	72	[redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level _____ ft. below casing top which is one ft. above ground level. Pumping level _____ ft. when pumping at 200 gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Sand	67	67
Gravel	13	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C P Chitwood DATE 12/4/85

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Pu. . Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILL

FILL IN ALL PERTINENT INFORMATION REQUE. ... ID MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material _____. Buried Slab: Yes_____No_____
   b. Driven _____. Drive Pipe Diam. _____in. Depth _____ft.
   c. Drilled ✓. Finished in Drift _____. In Rock_____.
   Tubular _____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	84
Gravel	84	92

2. Distance to Nearest:
   Building 76 Ft. Seepage Tile Field –
   Cess Pool – Sewer (non Cast iron) –
   Privy – Sewer (Cast iron) –
   Septic Tank 75 Barnyard –
   Leaching Pit _____ Manure Pile –
3. Well furnishes water for human consumption? Yes ✓ No_____
4. Date well completed 12-16-76
5. Permanent Pump Installed? Yes ✓ Date 12-22-76 No_____
   Manufacturer Jacuzzi Type Jet Location Well
   Capacity 15 gpm. Depth of Setting 70 Ft.
6. Well Top Sealed? Yes ✓ No_____ Type _____
7. Pitless Adapter Installed? Yes ✓ No_____
   Manufacturer Mathews Model Number M 360
   How attached to casing? Bolted
8. Well Disinfected? Yes ✓ No_____
9. Pump and Equipment Disinfected? Yes ✓ No_____
10. Pressure Tank Size 120 gal. Type Captive Air
    Location House
11. Water Sample Submitted? Yes_____ No ✓
REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Propert [redacted] Non-responsive
    Addres [redacted]
    Driller [redacted] License No. [redacted]
11. Permit No. 54709 Date 11-16-76
12. Water from Sand & Gravel Formation 13. County Madison
    at depth _____ to _____ft. Sec. [redacted] Non-responsive
    14. Screen: Diam. _____in. Twp. [redacted]
    Length: 8' ft. Slot Tad Rge. [redacted]
    Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	Steel 19 lb.	0	84

SHOW LOCATION IN [redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level _____ft. below casing top which is 1 ft. above ground level. Pumping level _____ft. when pumping at 100 gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay, Sand & Gravel	92	92

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chitwood DATE 1-12-77

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO . 5

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material _____. Buried Slab: Yes_____No_____
   b. Driven _____. Drive Pipe Diam. _____in. Depth _____ft.
   c. Drilled __X__. Finished in Drift _____. In Rock _____.
   Tubular _____. Gravel Packed ____X____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	72
Gravel	72	8

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes __X__ No _____
4. Date well completed _____
5. Permanent Pump Installed? Yes ___ Date _____ No __X__
   Manufacturer _____ Type _____ Location _____
   Capacity _____ gpm. Depth of Setting _____ Ft.
6. Well Top Sealed? Yes __X__ No _____ Type Mathews
7. Pitless Adapter Installed? Yes _____ No _____
   Manufacturer _____ Model Number _____
   How attached to casing? _____
8. Well Disinfected? Yes __X__ No _____
9. Pump and Equipment Disinfected? Yes _____ No _____
10. Pressure Tank Size _____ gal. Type _____
    Location _____
11. Water Sample Submitted? Yes _____ No __X__

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property [redacted] Non-responsive
    Address [redacted]
    Driller [redacted] Chltwood
11. Permit No. 95832 Date 8-29-80
12. Water from Sand (Formation) at depth 20 to 80 ft.
13. County Madison
    Sec. [redacted] Non-responsive
    Twp.
    Rge.
    Elev.
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot X
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	Steel 19#	0	72

SHOW LOCATION IN SECTION PLAT

[redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level _____ ft. below casing top which is _____1_____ ft. above ground level. Pumping level _____ ft. when pumping at 100+ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	20	20
Sand	50	70
Gravel	10	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. R. Chitwood DATE 10-15-80

IDPH 4.065
1/74 – KNB-1

te Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INST[illegible]ONS TO DRILLERS

FILL IN ALL PERTINENT INFO[illegible]ATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	66
Gravel	66	74

2. Distance to Nearest:
   Building 80' Ft. Seepage Tile Field –
   Cess Pool – Sewer (non Cast iron) –
   Privy – Sewer (Cast iron) –
   Septic Tank 100' away Barnyard –
   Leaching Pit____ Manure Pile –
3. Well furnishes water for human consumption? Yes____No____
4. Date well completed 10-19-76
5. Permanent Pump Installed? Yes____Date____No ✓
   Manufacturer____Type____Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____No____Type____
7. Pitless Adapter Installed? Yes____No____
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes____No____
9. Pump and Equipment Disinfected? Yes____No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Proper[redacted]
    Addre[redacted]
    Driller H. Charles Drilling Co. License No. 102-50
11. Permit No. 53605 Date 10-15-76
12. Water from Sand & Gravel (Formation) 13. County Madison
    at depth____to____ft. Sec. [redacted]
14. Screen: Diam. 6 5/8 in. Twp.
    Length: 8 ft. Slot – Rge.
    Elev.____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Steel 19 lb	0	66

SHOW LOCATION IN [redacted]

16. Size Hole below casing: 6 in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 100+ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay-Sand	60	60
Sand & Gravel	14	74

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chitwood DATE 11/25/76

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUIRED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____ In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	75
Gravel	75	83

2. Distance to Nearest:
   Building____Ft. Seepage Tile Field 128' Square
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 120'____ Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes____No____
4. Date well completed 4-1-77
5. Permanent Pump Installed? Yes____Date____No ✓
   Manufacturer____Type____Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____No____Type____
7. Pitless Adapter Installed? Yes____No____
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes____No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property [redacted]
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 962-50
11. Permit No. 57979 Date 3-21-77
12. Water from Gravel (Formation) at depth 70 to 83 ft.
13. County Madison
    Sec [redacted]
    Twp [redacted]
    Rge [redacted]
    Ele [redacted]
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	19# Steel	0	75

16. Size Hole below casing:____in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 50 gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Sand	70	70
Gravel	13	83

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED J. P. Chitwood DATE 5-23-77

Non-responsive

Non-responsive

Non-responsive

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUES AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	81
Gravel	81	89

2. Distance to Nearest:
   Building 30' Ft. Seepage Tile Field 140'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 110 Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed 11-10-77
5. Permanent Pump Installed? Yes____ Date____ No ✓
   Manufacturer____ Type____ Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____ No____ Type____
7. Pitless Adapter Installed? Yes____ No____
   Manufacturer____ Model Number____
   How attached to casing?____
8. Well Disinfected? Yes____ No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Non-responsive

10. Prop[redacted]
    Addr[redacted]
    Driller St. Charles Drilling Co. License No. 182-50
11. Permit No. 69047 Date 11-7-77
12. Water from Sand & Gravel (Formation) 13. County Madison
    at depth____to____ft. Sec. [redacted]
14. Screen: Diam.____in. Twp. [redacted]
    Length:____ft. Slot____ Rge. [redacted]
    Elev. [redacted]

Non-responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Steel 19#	0	81

SHOW LOCATION IN

Non-responsive

16. Size Hole below casing:____in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at____ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	60	60
Sand & Gravel	29	89

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C.P. Chitwood DATE 11-18-77

IDPH 4.065
1/74 – KNB-1

White Copy
Ill. Dept. ...lic Health
Yellow Copy ...ell Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REC... TED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	72
Gravel	72	80

2. Distance to Nearest: time
   Building none of this Ft. Seepage Tile Field ____
   Cess Pool ✓ Sewer (non Cast iron) ____
   Privy ✓ Sewer (Cast iron) ____
   Septic Tank ✓ Barnyard ____
   Leaching Pit ✓ Manure Pile ____
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed 10-15-77
5. Permanent Pump Installed? Yes ____ Date ____ No ✓
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes ____ No ____ Type ____
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. [redacted] Non-responsive
    Driller St. Charles Drilling Co. License No. 0102-50
11. Permit No. ~~102~~ 068025 Date 10-12-77
12. Water from Sand & Gravel Formation at depth 40 to 80 ft.
13. County Madison
    Sec. [redacted] Non-responsive
    Twp [redacted]
    Rge [redacted]
    Ele [redacted]
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot ted
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	PVC	0	72

SHOW LOCATION IN [redacted] Non-responsive

16. Size Hole below casing: 6 in.
17. Static level ____ ft. below casing top which is 1 ft. above ground level. Pumping level ____ ft. when pumping at 50+ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	40	40
Sand & Gravel	40	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C.P. Chitwood DATE 11-18-77

IDPH 4.065
1/74 – KNB-1

"Awful".

Sp F NO 3

City Granite City, Illinois County Madison

Section 18 Twp. No. 3 N Range 9 W

Location (in feet from section corner) ~~26th + Washington Ave.~~ 150' W + 2100' N. from SE corner.

Owner Sacred Heart Chruch Authority Father Costello

Contractor Harold L. Watson Address 6500 Forrest Blvd East St Louis Ill

Date drilled February 8, 1954 Elev. above sea level top of well

Depth 90'

Log

Were drill cuttings saved Where filed

Size hole 4" If reduced, where and how much

Casing record

Distance to water when not pumping 56' Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements

Type of pump Truban Pump Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed 34-50

Hours used per day Type of power Electric

Rating of motor 1½ H.P. Rating of pump in G. P. M. 33.

Can following be measured (1) Static water level 56'

(2) Pumping level (3) Discharge

(4) Influence on other wells None

Temperature of water 60° Was water sample collected Yes

Date September 2, 1954 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 135702

Recorder

Date

Please send copy of analysis to Harold Watson - 6500 Forest Blvd E. St. Louis Ill

2807-22617 12

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

119040000 8 - Madison Co.
Granite City Jennison Wright
Sup. Tech.

MEMORANDUM

TO: Greg Dunn RPMS / PA/SE DATE: 2/7/89

FROM: Stephen Davis RPMS / FS mu ☐ Information only

SUBJECT: Jennison Wright - Irrigation Wells. ☐ Response requested

At 2:50 P.M. I contacted [redacted] of Granite City, Illinois to discuss the use of the two (2) irrigation wells noted on the Agency's Division of Public Water Supplys topo map.

Mr. Bishoff stated that one well irrigates ≈ 140 acres on an annual basis. The second well was not used this past year (1988). The second well is believed by [redacted] to irrigate another 200 acres. Wheat, corn, and beans are primary crops.

The conversation ended at 3:10 P.M.

cc: Division File

IL 532-0571
EPA 90A 6/75

[redacted] Water from this well will be used for irrigation. ?

Sample collected after pumping 30 minutes at 1100 GPM.

City Nameoki (1/4 mile west of Nameoki) County Madison

[redacted]

Contractor Thorpe Concrete Well Co. Address 615 State Street, Alton, Ill

Date drilled Completed January 4, 1954 Elev. above sea level top of well 425 MSL (from topog map)

Depth 110 ft.

Log See reverse side of this sheet

Were drill cuttings saved No Where filed

Size hole 40 " If reduced, where and how much None

Casing record Thorpe Concrete Casing, 30" id 40" od. and 60 ft of Thorpe Concrete Well Screen, same size.

Distance to water when not pumping 28.32 ft Distance to water is 36.20 ft.

feet after pumping at 1100 G. P. M. for 35 minutes hours.

Reference point for above measurements Base of pump

Type of pump Layne-Western Turbine Distance to cylinder 60 ft

Length of cylinder 5 stage 5'11" overall Length of suction pipe below cylinder 10 ft.

Length stroke Speed 1760 RPM

Hours used per day Type of power G.M. Diesel Engine, 6 cyl. mounted on truck

Rating of motor 150 BHP Intermittent 130 BHP Continuous Rating of pump in G. P. M. 1000 against 120 Lb.

Can following be measured: (1) Static water level Yes, with tape.

(2) Pumping level Yes, with tape. (3) Discharge No

(4) Influence on other wells No other well near that could be measured

Temperature of water 56.5 F. Was water sample collected yes Yes

Date April 27, 1954 Effect of water on meters, hot water coils, etc.

[redacted] Analysis No. 134696

Recorder E. S. Jones (AB)

Date April 29 1954

[redacted] Non-responsive d for irrigating. sp B

Sample collected near end of 3 hour pumping test.

[redacted] Non-responsive

Contractor Thorpe Concrete Well Company Address 615 State Street Alton, Ill.

Date drilled Completed January 10, 1954 Elev. above sea level top of well 425 ± MSL (from Topog. Map)

Depth 110 ft.

Log See reverse side of this sheet.

Were drill cuttings saved No Where filed

Size hole 40" If reduced, where and how much None

Casing record Thorpe Concrete Casing, 30" id, 40" od. 60 ft. of Thorpe Concrete Well Screen, same size.

Distance to water when not pumping 31.02 ft Distance to water is 39.07

feet after pumping at 820 to 1250 G. P. M. for 2 hrs 50 min hours.

Reference point for above measurements Base of pump.

Type of pump Layne-Western Turbine Distance to cylinder 60 ft.

Length of cylinder 5-stage. 5'11" overall Length of suction pipe below cylinder 10 ft.

Length stroke Speed 1760 RPM

Hours used per day Type of power G.M. Diesel Engine

Rating of motor 150 BHP Intermittent 130 BHP Continuous Rating of pump in G. P. M. 1000 against 120 lb.

Can following be measured: (1) Static water level Yes, with tape.

(2) Pumping level Yes, with tape. (3) Discharge No.

(4) Influence on other wells None

Temperature of water 57.5 F Was water sample collected Yes

Date April 26, 1954 Effect of water on meters, hot water

Note: Sample of water was collected at end of 1/4 mile of pipe line and coils, etc. temperature may have been affected slightly by temp. of pipe.

Date of Analysis Analysis No. 134698

Please send copy of analysis to.

[redacted] Non-responsive Recorder E. S. Jones (HB)

Ill Date April 29, 1954

Pumping started at 1;00 P.M. Sample collected at 4;30 P.M.

sp SO4

City 2 miles N. of Granite City County Madison

Non-responsive

[redacted]

Contractor Tri-City Well Drilling Co. Address Box 682, RR,1 Granite City, Ill.

Date drilled November 1953 Elev. above sea level top of well 428 ± MSL.

Depth 72 feet below ground surface.

Log No log available at this time

Were drill cuttings saved yes Where filed SGS

Size hole 6 inch If reduced, where and how much No

Casing record 6-inch casing. No screen

Distance to water when not pumping 32.5 ft Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements Top of concrete which is same as ground surf.

Type of pump Fairbanks-Morse, Jet Distance to cylinder Jet set at 50 feet.

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power Elec. motor, single phase.

Rating of motor 1/3 HP Rating of pump in G. P. M. 10 gpm-30'H, 18 lbs.

Can following be measured: (1) Static water level At present but not after pump is installed.

(2) Pumping level (3) Discharge No

(4) Influence on other wells

Temperature of water 56.5 F Was water sample collected Yes

Date November 21, 1953 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 133912

Please send copy of analysis to
Tri-City Well Drilling Co.
Box 682, RR-1, Granite City, Ill and to

Recorder

Date

Non-responsive

[redacted]

At present time, water is used for filling lake at Sand Prairie Club. May also be used for irrigating.

Non-responsive

[redacted]

Date drilled June 1954 **Elev. above sea level top of well** 422 MSL. (estimated ground surface)

Depth 104 ft. Base of pump is 3 ft higher-425

Log
0 to 20 ft. Fine dry sand
20 to 60 ft. Extra fine sand.
60 to 75 ft. Building sand.
75 to 93 ft. Medium coarse sand.
93 to 104 ft. Coarse sand.

(Could be drilled to bedrock)

Were drill cuttings saved No **Where filed**

Size hole 40-inch **If reduced, where and how much** None

Casing record 56 ft. of Thorpe Concrete Pourous screen 30" id. & 40" od.

Distance to water when not pumping 22 feet (estimated) **Distance to water is** 38 ft.

feet after pumping at 1150 to 1200 gpm **G. P. M. for** 8 **hours.**

Reference point for above measurements Base of pump except for log which is from ground surface.

Type of pump Jacuzzi Turbine. **Distance to cylinder**

Pump setting not available at this time.

Length of cylinder **Length of suction pipe below cylinder**

Length stroke **Speed**

Hours used per day **Type of power** Diesel.

Rating of motor **Rating of pump in G. P. M.**

Can following be measured: (1) Static water level Yes- with tape

(2) Pumping level Yes- with tape. **(3) Discharge** No.

(4) Influence on other wells

Temperature of water 57.5 F. **Was water sample collected**

Date September 7, 1954 **Effect of water on meters, hot water coils, etc.**

Non-responsive

[redacted]

Analysis No. 135740

Recorder

Date

HOUSEHOLD SUPPLY

Non-responsive

[redacted]

Contractor — Address —

Date drilled — Elev. above sea level top of well —

Depth 30'

Log —

Were drill cuttings saved — Where filed —

DRIVEN WELL

Size hole ____ If reduced, where and how much

Casing record —

Distance to water when not pumping — Distance to water is —

feet after pumping at — G. P. M. for — hours

Reference point for above measurements —

Type of pump Hand Distance to cylinder —

Length of cylinder — Length of suction pipe below cylinder —

Length stroke — Speed —

Hours used per day — Type of power —

Rating of motor — Rating of pump in G. P. M. —

Can following be measured: (1) Static water level

(2) Pumping level (3) Discharge

(4) Influence on other wells

Temperature of water 54°F Was water sample collected Yes

Date 9/22/60 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 153210

Recorder [illegible]

Date 9/22/60

Non-responsive

[redacted]

Depth 30'

Log

Were drill cuttings saved DRIVEN WELL Where filed

Size hole If reduced, where and how much

Casing record

Distance to water when not pumping Distance to water is

feet after pumping at G. P. M. for hours

Reference point for above measurements

Type of pump Hand Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power

Rating of motor Rating of pump in G. P. M.

Can following be measured: (1) Static water level

(2) Pumping level (3) Discharge

(4) Influence on other wells

Temperature of water 54°F Was water sample collected yes

Date 9/22/60 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 153311

Recorder [illegible]

Date 9/22/60

Sample of water collected from driven well in basement of residence of George Johannigmeier, This well is approx. 30 feet from [redacted] which we have been measuring for some time.

City Rural Route No.1 Granite City, Ill County Madison

[redacted]

Contractor _____ Address _____

Date drilled 1950 Elev. above sea level top of well 417 MSL.

Depth 32 ft.

[redacted]

Well was pumped for about 5 minutes before collecting sample as water is pumped to a 30 gallon pressure tank.

Were drill cuttings saved _____ Where filed _____

Size hole _____ If reduced, where and how much _____

Casing record _____

Distance to water when not pumping 15 ft. Distance to water is _____

feet after pumping at _____ G. P. M. for _____ hours.

Reference point for above measurements _____

Type of pump Dayton-Dowd, belt driven suction pump Distance to cylinder _____

Length of cylinder _____ Length of suction pipe below cylinder _____

Length stroke _____ Speed _____

Hours used per day _____ Type of power F.M. motor

Rating of motor 1/4 HP. Rating of pump in G. P. M. _____

Can following be measured: (1) Static water level No

(2) Pumping level No. (3) Discharge No.

(4) Influence on other wells _____

Temperature of water 56.5 F. Was water sample collected _____

Date Sept. 8, 1952 Effect of water on meters, hot water coils, etc. _____

[redacted]

Analysis No. 129873 SS

[redacted]

sp 13

Water is pumped thru a 30 gallon pressure tank. Water was allowed to run so that pump was operating when sample was collected.

City Rural Route No.1 Granite City, Ill County Madison

[redacted]
Non-responsive

Contractor Contract Well Drilling Serv Address Granite City, Ill.

Date drilled January 1, 8, 1957 Elev. above sea level top of well 425

Depth 56 feet below ground surface.

Log This is a 2-inch driven well and therefore no log available. Well is a packer-type with a jet pump using the outer casing as one of the pipes.

Were drill cuttings saved No Where filed No

Size hole 2-inch If reduced, where and how much --

Casing record 2-inch pipe with sand point.

Distance to water when not pumping 34 ft. below ground surface Distance to water is -

feet after pumping at Can not be measured G. P. M. for hours.

Reference point for above measurements

Type of pump Jet Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Furnishes water for domestic use Type of power

Rating of motor Rating of pump in G. P. M. 5 gpm

Can following be measured: (1) Static water level No

(2) Pumping level No (3) Discharge No.

(4) Influence on other wells Not measured

Temperature of water 58 F. Was water sample collected Yes

Date January 29, 1958 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 142468

[redacted]
Non-responsive

Recorder

Date

Sample Collected from hydrant in yard. - Approx 30' from Well

sp 204

City Granite City (Nameoki) County Madison.

[redacted]

Contractor _____ Address _____

Date drilled July 1950 Elev. above sea level top of well 418+ Ground Level 425± From Topo Map

Depth 34' below ground Surface

Log Well is 1¾" driven well. Is in basement of house now under Construction.

Were drill cuttings saved _____ Where filed _____

Size hole _____ If reduced, where and how much _____

Casing record _____

Distance to water when not pumping _____ Distance to water is _____

feet after pumping at _____ G. P. M. for _____ hours.

Reference point for above measurements _____

Type of pump Dayton - Belt Driven. Distance to cylinder _____

Length of cylinder _____ Length of suction pipe below cylinder _____

Length stroke _____ Speed _____

Hours used per day _____ Type of power _____

Rating of motor ¼ HP. Rating of pump in G. P. M. _____

Can following be measured: (1) Static water level No

(2) Pumping level No (3) Discharge No

(4) Influence on other wells _____

Temperature of water 57 Was water sample collected Yes

Date January 17, 1951 Effect of water on meters, hot water coils, etc. _____

[redacted] Analysis No. 124151

[redacted] Recorder _____

Date _____

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

25798

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED . . . . . [X] R
- DRIVEN . . . . . [ ] V
- BORED . . . . . [ ] B

IF WELL ENTER DEPTH FEET: 40

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER . . . . . [ ] Y
- c. CISTERN . . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE . . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP . . . . . [X] H
- d. OTHER . . . . . [ ] O

Non-responsive

[redacted]

REMARKS: PLEASE CHECK FOR BACTERIA / NITRATES

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<1.0	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO APR DAY 22 YR 1987 TIME: AM 9:00 PM CP

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 4 DAY 26 YR 87

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[ ] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[X] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: [illegible] 4-28-87 [illegible]

LHD STAMP

REGION #4

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

22238

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
MICROFILM NO:	
TRAN. CODE:	55
REGION OR LHD:	4
LABORATORY ID:	001
PROGRAM CODE:	
COLLECTOR ID:	
FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED. . . . . [ ] R
- DRIVEN . . . . . [ ] V
- BORED. . . . . [X] B

IF WELL ENTER DEPTH FEET: 19

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER. . . . . [ ] Y
- c. CISTERN. . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE. . . . . [ ] L
- [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP. . . . . [X] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP. . . . . [ ] W
- d. OTHER . . . . . [ ] O

Non-responsive

[redacted]

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML.	O = COLOR
A = GRAMS	I = MICROGRAM/L.	T = TU
B = /GM.	J = /100GM.	U = MICROGM/ML.
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML.	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO MAR DAY 24 YR 1987 TIME: AM 915 PM JW

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 3 DAY 28 YR 87

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[ ] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[X] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: See attached 3-31-87 L.W.

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

a. WELL (IF WELL - CHECK ONE BELOW)

DUG	D
DRILLED	X R
DRIVEN	V
BORED	B

IF WELL ENTER DEPTH FEET: 74

(IF OTHER THAN WELL CHECK ONE BELOW)

b. CITY WATER	Y
c. CISTERN	C
d. SPRING	S
e. LAKE	L
f. OTHER	O

7. SAMPLE LOCATION

a. RAW AT PUMP	P
b. FILTERED	X F
c. AT TAP	H
d. OTHER	O

Non-responsive

[redacted]

REMARKS: We added water softner & cleaned well with Clorox bleach. We need to know hardness & purity.

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	>16.0	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	< 10	L
NITRATE (QUAN)	1230		L
Hard		390	L
cl		90	L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM./ML
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR — JUN 26 1986 TIME: AM 8:45 PM JW

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR 6-30-86 CP

ANALYST MN 18

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☒ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: OT neg
HC 7-1-86

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

28453

PRIVATE WATER SUPPLY SAMPLE FORM

Non-responsive

[redacted]

ION

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	5,5
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... R
- DRIVEN V
- BORED ..... B

IF WELL ENTER DEPTH FEET

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... P
- b. FILTERED ..... F
- c. AT TAP ..... N
- d. OTHER ..... O

Non-responsive

[redacted]

REMARKS: Also partial chemical analysis please

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L
pH		7.6	
TS/FC		245	X

*CODE UNIT AS FOLLOWS:
- % = PERCENT
- A = GRAMS
- B = /GM.
- C = DEGC
- F = DEGF
- H = /100ML.
- I = MICROGRAM./L.
- J = /100GM.
- L = MG./L
- M = /ML.
- O = COLOR
- T = TU
- U = MICROGM./ML.
- X = PPM
- Y = PPB

17. DATE RECEIVED AT LABORATORY:
MO MAY DAY 13 YR 1987 TIME: AM 9:15 PM LED

18. DECHLORINATED BOTTLE? 1 YES ☐ 0 NO ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
2	2	2				COLIFORM	FILTER COLIFORM
2	2	2					
–	–	+					
–	–						

19. DATE REPORTED FROM LABORATORY:
MO 5 DAY 17 YR 87

ANALYST [signature] KNR

INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☒ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: alk = 153 X cl = 37.5 X
Hard = 165 X SO_4 = QNS Fe = 0.8 X

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

15253

Non-responsive

[redacted]

OFFICIAL USE

MICROFILM NO:
TRAN. CODE: 551
REGION OR LHD: 4
LABORATORY ID: E01
PROGRAM CODE:
COLLECTOR ID:
FACILITY ID:

6. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . D
- DRILLED . . . . . R
- DRIVEN V

IF WELL ENTER DEPTH FEET

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER . . . . . Y
- c. CISTERN C
- d. SPRING . . . . . S
- L
- O

Non-responsive

[redacted]

7. SAMPLE LOCATION
- a. RAW AT PUMP . . . . P
- b. FILTERED . . . . . F
- c. AT TAP . . . . . H
- d. OTHER . . . . . O

REMARKS: Would like to know if Dunkle-Doctor below it may have a certain type of parasite.

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<1.9	H
FECAL COLI	3030	<1.9	H
FECAL STREP	3090	<4.5	H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L
PSEUDOMONAS AERUGINOSA		PRESENT	

*CODE UNIT AS FOLLOWS:
- % = PERCENT
- A = GRAMS
- B = /GM.
- C = DEGC
- F = DEGF
- H = /100ML
- I = MICROGRAM/L
- J = /100GM.
- L = MG./L
- M = /ML.
- O = COLOR
- T = TU
- U = MICROGM./ML.
- X = PPM
- Y = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR — JAN 12 1988 TIME: 9 15 AM PM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001	F. strep 10	1	.1	.0	MEMBRANE FILTER	
									COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR — 1 15 88 JW ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☒ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: UNSAFE TO DRINK! PSEUDOMONAS BACTERIA PRESENT.

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

26789

PRIVATE WATER SUPPLY SAMPLE FORM

Non-responsive

[redacted]

ON

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	5,5
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... R
- DRIVEN ..... ✓ V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 21

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... P
- b. FILTERED ..... ✓ F
- c. AT TAP ..... T
- d. OTHER ..... ✓ O

Non-responsive

[redacted]

ARKS: USE FOR DRINKING
ND COOKING

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO APR DAY 28 YR 1987 TIME: AM 9:00 PM JW

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 4 DAY 30 YR 87 JW

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: None
[illegible] 4-11-87

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

26791

PRIVATE WATER SUPPLY SAMPLE FORM

[redacted]

OFFICIAL USE

9. MICROFILM NO:
0. TRAN. CODE: 55
1. REGION OR LHD: 4
2. LABORATORY ID: 001
3. PROGRAM CODE:
4. COLLECTOR ID:
5. FACILITY ID:

a. WELL (IF WELL - CHECK ONE BELOW)
DUG ..... D
DRILLED ..... R
DRIVEN V

IF WELL ENTER DEPTH FEET

(IF OTHER THAN WELL CHECK ONE BELOW)
b. CITY WATER ..... Y
c. CISTERN C
d. SPRING ..... S

SAMPLE LOCATION
a. RAW AT PUMP ..... P
b. FILTERED ..... F
c. AT TAP ..... N
d. OTHER ..... O

[redacted]

REMARKS: USE FOR LAWN

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:
% = PERCENT; A = GRAMS; B = /GM.; C = DEGC; F = DEGF; H = /100ML.; I = MICROGRAM./L.; J = /100GM.; L = MG./L; M = /ML.; O = COLOR; T = TU; U = MICROGM./ML.; X = PPM; Y = PPB

17. DATE RECEIVED AT LABORATORY:
APR 28 1987 (DAY YR) TIME: 9:00 AM PM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:
MO 4 DAY 30 YR 87 JW
ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: None

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

26790

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... R
- DRIVEN ..... ✓ V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 21

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... R
- b. FILTERED ..... ✓ F
- c. AT TAP ..... ✓ N
- d. OTHER ..... O

Non-responsive

[redacted]

EMARKS: USE FOR BATHING, WASHING DISHES, LAUNDRY, ETC.

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO DAY YR AM PM
APR 28 1987 TIME: 900 JW

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:
- % = PERCENT
- A = GRAMS
- B = /GM.
- C = DEGC
- F = DEGF
- H = /100ML.
- I = MICROGRAM./L.
- J = /100GM.
- L = MG./L
- M = /ML.
- O = COLOR
- T = TU
- U = MICROGM./ML.
- X = PPM
- Y = PPB

19. DATE REPORTED FROM LABORATORY: MO DAY YR
4-30-87 JW

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: None
H70 5-4-87

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

06691

Non-responsive

[redacted]

? Misc Disc.

OFFICIAL USE

MICROFILM NO:	
TRAN. CODE:	55
REGION OR LHD:	4
LABORATORY ID:	001
PROGRAM CODE:	
COLLECTOR ID:	
FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... R
- DRIVEN V

IF WELL ENTER DEPTH FEET

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... P
- b. FILTERED ..... F
- c. AT TAP ..... N
- d. OTHER ..... X O

Non-responsive

[redacted]

REMARKS: Wtr Sample is from Crystal Lake Jersey County, IL

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	>16	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<1.5	L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY:

MO DAY YR: 8-18-87 TIME: AM 900 PM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

19. DATE REPORTED FROM LABORATORY:

MO DAY YR: 8-22-87 ANALYST JWT

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: Discarded; Water not used for [illegible] water per [illegible] Suggested

LHD STAMP

Non-responsive

[redacted]

U6000

TION

G

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	5,5
11. REGION OR LHD:	4
12. LABORATORY ID:	00
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED. . . . . [✓] R
- DRIVEN . . . . . [ ] V
- BORED. . . . . [ ] B

IF WELL ENTER DEPTH FEET: 40

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER. . . . . [ ] Y
- c. CISTERN. . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE. . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP. . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP. . . . . [✓] N
- d. OTHER . . . . . [ ] O

Non-responsive

[redacted]

EMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	>16.0	H
FECAL COLI	3030		H
FECAL STREP	3030		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230	9.6	L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM.	J = /100GM.	U = MICROGM./ML.
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML.	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO AUG DAY 11 YR 1987 TIME: AM 9:15 PM (W)

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 8 DAY 13 YR 87 ANALYST

INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[ ] SATISFACTORY	[✓] SATISFACTORY	[ ] SATISFACTORY
[✓] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: See attached

HRC 8-14-87

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

00518

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... [ ] D
- DRILLED ..... [ ] R
- DRIVEN ..... [X] V

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... [ ] Y
- c. CISTERN ..... [ ] C
- d. SPRING ..... [ ] S

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... [X] P
- b. FILTERED ..... [ ] F
- c. AT TAP ..... [ ] H
- d. OTHER ..... [ ] O

Non-responsive

[redacted]

REMARKS: WATER LEAVES A "RUST STAIN" ON CONCRETE, OUTSIDE BRICK, ETC. Is it safe to use on garden veg's. Is there some chemical to remove STAIN from CONCRETE?

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<.0	L
NITRATE (QUAN)	1230		L
	Fe	13.3	X

17. DATE RECEIVED AT LABORATORY: MO DAY YR AM PM
JUL - 7 1987 TIME: 900 CP

18. DECHLORINATED BOTTLE? 1 YES [ ] 0 NO [X]

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

19. DATE REPORTED FROM LABORATORY: MO DAY YR
7 - 9 - 87 P

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[X] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

LHD STAMP

REMARKS: See attached 7-10-87 L.W.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

34742

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE

1. MICROFILM NO:
2. TRAN. CODE: 5,5
3. REGION OR LHD: 4
4. LABORATORY ID: 0,0,1
5. PROGRAM CODE:
6. COLLECTOR ID:
7. FACILITY ID:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED . . . . . [ ] R
- DRIVEN . . . . . [✓] V
- BORED . . . . . [ ] B

IF WELL ENTER DEPTH FEET: 27

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER . . . . . [ ] Y
- c. CISTERN . . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE . . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP . . . . [✓] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP . . . . . [ ] H
- d. OTHER . . . . . [ ] O

Non-responsive

[redacted]

REMARKS: DIRECT FROM FAUCET OFF OF PUMP

WELL IS SIX YEAR OLD

ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO JUN DAY 16 YR 1987 TIME: AM 9 15 PM AMP

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 6 DAY 18 YR 87 P

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[✓] SATISFACTORY	[✓] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: None
9270 6-19-87

LHD STAMP

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC HEALTH
ILLINOIS DEPT. OF PUBLIC HEALTH
COTTON WOOD ROAD
EDWARDSVILLE, ILL. 62025

REGION 4

SAMPLES MUST REACH LAB WITHIN 48 HRS. AFTER COLLECTION

DATE REC'D JUN 16 1987

LAB. NO. 34751

not a 4 D-boo

9:15 AMP

COLLECTOR — FILL IN THIS BOX ONLY — PRINT WITH BLACK PENCIL OR USE BLACK TYPING | PROGRAM CODE

Non-responsive

[redacted]

DO NOT WRITE BELOW

						10	1	.1	.01	.001	MEMBRANE FILTER	
											COLIFORM	FEC. COLI.
CHEMICAL RESULTS EXPRESSED AS MG/L (FORMERLY PPM)												
NITRATE (AS N)												
<10												

10 ML PORTIONS OR MPN — MEMBRANE FILTER COUNT

COLIFORM <2.2/100ml /100 ML

FEC. COLI. /100 ML

/100 ML

Odor = desagreable

ANALYSIS COMPLETED 6 18 87P BY

CHIEF DIV. OF LAB.

REPORT OF ANALYSIS

This sample has been analyzed for pollutional bacteria called "coliforms" which are normally present in the intestinal tract of humans, birds, and land animals. They are always found in sewage, and are generally present in surface water and shallow ground water. Coliforms in a water sample usually indicate that pollution is entering the water supply and that organisms which cause intestinal infections may be present or may gain entrance to the supply. Proper location, construction, and maintenance of a supply will prevent pollution from entering, thus assuring a bacteriologically safe water.

OPINIONS checked below indicate the quality of the water for drinking at the time of sample collection:

☑ **Safe** for drinking, but the continued safety depends upon the source being properly located, constructed, and maintained as explained in our circular. Do not rely on a "safe" analysis if there is any sanitary defect in location or construction of source.

☐ **Pollutional** bacteria present in sample. The water is **unsafe** to drink. Read our circular carefully for proper location and construction, and for disinfection. Pollutional organisms are destroyed by bringing the water to a rolling boil for three minutes.

☐ **Nitrate** content — satisfactory — for use by children under one year.

☐ **Nitrate** content is too high for use by children under one year as it may cause "blue baby" illness. Nitrate in water cannot be decreased by boiling. A water with 10 or less milligrams of nitrate (as N) per liter (MG/L) is recommended.

KRC 6-19-87

LOCAL HEALTH DEPARTMENT STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

34277

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	0011
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

5. NAME OF COLLECTOR: _____

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... [ ] D
- DRILLED ..... [ ] R
- DRIVEN ..... [X] V
- BORED ..... [ ] B

IF WELL ENTER DEPTH FEET: 32

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... [ ] Y
- c. CISTERN ..... [ ] C
- d. SPRING ..... [ ] S
- e. LAKE ..... [ ] L
- f. OTHER ..... [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... [ ] P
- b. FILTERED ..... [ ] F
- c. AT TAP ..... [X] N
- d. OTHER ..... [ ] O

Non-responsive

[redacted]

REMARKS: _____

ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO DAY YR: JUN 12 1987 TIME: 845 AM PM

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

MO DAY YR: 6-14-87 ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[X] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: None
NTO 6-16-87

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

33938

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE

Non-responsive

[redacted]

OFFICIAL USE	
MICROFILM NO:	
TRAN. CODE:	55
REGION OR LHD:	4
LABORATORY ID:	001
PROGRAM CODE:	
COLLECTOR ID:	
FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... ✓ R
- DRIVEN V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 38

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... ✓ P
- b. FILTERED ..... F
- c. AT TAP ..... H
- d. OTHER ..... O

Non-responsive

[redacted]

REMARKS: NEW WELL PLEASE TEST FOR HARDNESS, IT LEAVES A WHITE DEPOSIT ON TREES

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	>16	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L
Hard		480	Y

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR AM PM

JUN - 9 1987 TIME: 930 AM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
? ? ? ?						COLIFORM	FILTER COLIFORM
? ? ? ? ?							

19. DATE REPORTED FROM LABORATORY: MO DAY YR

6 - 13 - 87 JW

ANALYST KNH

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☒ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: attached
[illegible] 6-16-87

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

31693

PRIVATE WATER SUPPLY SAMPLE FORM

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... [ ] D
- DRILLED ..... [ ] R
- DRIVEN ..... [ ] V
- BORED ..... [X] B

IF WELL ENTER DEPTH FEET: 35

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... [ ] Y
- c. CISTERN ..... [ ] C
- d. SPRING ..... [ ] S
- e. LAKE ..... [ ] L
- f. OTHER ..... [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... [ ] P
- b. FILTERED ..... [ ] F
- c. AT TAP ..... [X] N
- d. OTHER ..... [ ] O

[redacted]

REMARKS:

[redacted]E ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM./L	T = TU
B = /GM.	J = /100GM.	U = MICROGM./ML
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY:
MO - DAY - YR: MAY 20 1987 TIME: AM 900 PM yes

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:
MO - DAY - YR: 5 - 22 - 87 JW ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[X] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: See attached. 5-26-87 LW.

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

31697

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE

- MICROFILM NO:
- TRAN. CODE: 55
- REGION OR LHD: 4
- LABORATORY ID: 001
- PROGRAM CODE:
- COLLECTOR ID:
- FACILITY ID:

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG [ ] D
- DRILLED [ ] R
- DRIVEN [ ] V
- BORED [X] B

IF WELL ENTER DEPTH FEET: 35

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER [ ] Y
- c. CISTERN [ ] C
- d. SPRING [ ] S
- e. LAKE [ ] L
- f. OTHER [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP [ ] P
- b. FILTERED [ ] F
- c. AT TAP [X] K
- d. OTHER [ ] O

8. MAIL REPORT TO:

Non-responsive

[redacted]

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<1.0	L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO DAY YR: MAY 20 1987 TIME: 900 AM PM

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

19. DATE REPORTED FROM LABORATORY: MO DAY YR: 5-22-87 ANALYST: JW

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[X] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: See attached, 5-26-87 L.W.

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

25576

PRIVATE WATER SUPPLY SAMPLE FORM

Non-responsive

[redacted]

TION

G

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	004
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED. . . . . [ ] R
- DRIVEN . . . . . [X] W
- BORED. . . . . [ ] B

IF WELL ENTER DEPTH FEET [ ]

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER. . . . . [ ] Y
- c. CISTERN. . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE. . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP. . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP. . . . . [X] H
- d. OTHER . . . . . [ ] O

MAIL REPORT TO

Non-responsive

[redacted]

REMARKS: Coli & N

E ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L
Fe		8.3	X

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML.	O = COLOR
A = GRAMS	I = MICROGRAM/L.	T = TU
B = /GM.	J = /100GM.	U = MICROGM/ML.
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML.	Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO APR - DAY 21 - YR 1987 TIME: AM 9:15 PM NED

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

MO 4 - DAY 23 - YR 87

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[X] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS:

LHD STAMP

REGION 4
ILLINOIS DEPT. OF PUBLIC HEALTH
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC HEALTH

SAMPLES MUST REACH LAB WITHIN 48 HRS. AFTER COLLECTION

03798

LAB NO.
PRIVATE AUG 8 1986
DATE REC'D

Non-responsive

[redacted]

DO NOT WRITE BELOW

10	1	.1	.01	.001	ENTERO.	MEMBRANE FILTER COLIFORM	MEMBRANE FILTER ENTERO.

CHEMICAL RESULTS EXPRESSED AS MG/L (FORMERLY PPM)

NITRATE (AS N) <10

SEDIMENT | TURBIDITY | ODOR

10 ML PORTIONS OR MPN | MEMBRANE FILTER COUNT

COLIFORM <2.2/100 ml

ENTEROCOCCUS

REPORTED FROM LAB 8-10-86 BY CPMP

CHIEF DIV. OF LAB.

REPORT OF ANALYSIS

This sample has been analyzed for pollutional bacteria called "coliforms" which are normally present in the intestinal tract of humans, birds, and land animals. They are always found in sewage, and are generally present in surface water and shallow ground water. Coliforms in a water sample usually indicate that pollution is entering the water supply and that organisms which cause intestinal infections may be present or may gain entrance to the supply. Proper location, construction, and maintenance of a supply will prevent pollution from entering, thus assuring a bacteriologically safe water.

OPINIONS checked below indicate the quality of the water for drinking at the time of sample collection:

☒ Safe for drinking, but the continued safety depends upon the source being properly located, constructed, and maintained as explained in our circular. Do not rely on a "safe" analysis if there is any sanitary defect in location or construction of source.

☐ Pollutional bacteria present in sample. The water is unsafe to drink. Read our circular carefully for proper location and construction, and for disinfection. Pollutional organisms are destroyed by bringing the water to a rolling boil for three minutes.

☒ Nitrate content - satisfactory - for use by children under one year.

☐ Nitrate content is too high for use by children under one year as it may cause "blue baby" illness. Nitrate in water cannot be decreased by boiling. A water with 10 or less milligrams of nitrate (as N) per liter (MG/L) is recommended.

8-12-86 L.W.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

09203

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

? CEF

1a. NAME OF SOURCE OR FACILITY NAME: Midwest Auto Pool Corp.
NAME OF SOURCE

1b. ADDRESS OF SOURCE: 4460 Highway #162
STREET/RURAL ROUTE/ROAD

Granite City IL 62040
CITY/TOWN/STATE ZIP CODE COUNTY CODE (SEE BACK) 119

2. DATE COLLECTED: 11 19 85 (MO DAY YR)

3. TIME COLLECTED: AM 04 00 PM

4. IS SUPPLY CHLORINATED? 1 YES ☐ 0 NO ☒

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR: Judy Parr

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ☐ D
- DRILLED ☒ R
- DRIVEN ☐ V
- BORED ☐ B

IF WELL ENTER DEPTH FEET 40

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ☐ Y
- c. CISTERN ☐ C
- d. SPRING ☐ S
- e. LAKE ☐ L
- f. OTHER ☐ O

7. SAMPLE LOCATION
- a. RAW AT PUMP ☐ P
- b. FILTERED ☐ F
- c. AT TAP ☒ N
- d. OTHER ☐ O

8. MAIL REPORT TO:

NAME: Midwest Auto Pool Corp.
STREET, RR, ETC: 4460 Highway #162
CITY/STATE: Granite City, IL ZIP CODE: 62040
TELEPHONE NBR: 618 - 797 - 0200

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10.0	L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO DAY YR NOV 20 1985 TIME: AM 845 PM AS

18. DECHLORINATED BOTTLE? 1 YES ☐ 0 NO ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:
% = PERCENT, A = GRAMS, B = /GM., C = DEGC, F = DEGF, H = /100ML., I = MICROGRAM./L., J = /100GM., L = MG./L, M = /ML., O = COLOR, T = TU, U = MICROGM./ML., X = PPM, Y = PPB

19. DATE REPORTED FROM LABORATORY: MO DAY YR 11 - 22 - 85 P ANALYST TK/P

16. INTERPRETATION OF RESULTS:

COLIFORM: ☒ SATISFACTORY ☐ UNSATISFACTORY
NITRATE: ☒ SATISFACTORY ☐ UNSATISFACTORY
TURBIDITY: ☐ SATISFACTORY ☐ UNSATISFACTORY

REMARKS: Odor - slightly disagreeable
JC 11-25-85

LHD STAMP

RESAMPLE - TOO OLD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

07813

PRIVATE WATER SUPPLY SAMPLE FORM

Non-responsive

[redacted]

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

5. NAME OF COLLECTOR:

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... R
- DRIVEN V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L
- f. OTHER ..... O

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... P
- b. FILTERED ..... F
- c. AT TAP ..... X N
- d. OTHER ..... O

Non-responsive

[redacted]

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM./L	T = TU
B = /GM	J = /100GM	U = MICROGM./ML
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO DAY YR: 1 - 29 - 85 TIME: AM 900 PM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

MO DAY YR: 10 - 31 - 85 P

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

LHD STAMP

REMARKS: See attached. 11-1-85 YW

RESAMPLE - TOO OLD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

07812

PRIVATE WATER SUPPLY SAMPLE FORM

SEP 24 1985

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
MICROFILM NO:	
TRAN. CODE:	55
REGION OR LHD:	4
LABORATORY ID:	001
PROGRAM CODE:	
COLLECTOR ID:	
FACILITY ID:	

5. NAME OF COLLECTOR: _____

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... R
- DRIVEN V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L
- f. OTHER ..... O

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... P
- b. FILTERED ..... F
- c. AT TAP ..... N
- d. OTHER ..... O

Non-responsive

[redacted]

REMARKS: _____

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML.	O = COLOR
A = GRAMS	I = MICROGRAM./L.	T = TU
B = /GM.	J = /100GM.	U = MICROGM./ML.
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML.	Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO DAY YR: OCT 29 1985 TIME: AM 900 PM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☑

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

MO DAY YR: 10-31-85 P

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: _____

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

AUG 8 1985

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

05652

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	0011
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED. . . . . [ ] R
- DRIVEN . . . . . [/] V
- BORED. . . . . [ ] B

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER. . . . . [ ] Y
- c. CISTERN. . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE. . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP. . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP. . . . . [X] H
- d. OTHER . . . . . [ ] O

Non-responsive

[redacted]

REMARKS:

ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	Discard: over 48 hrs old	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO SEP DAY 19 YR 1985 TIME: AM 9:00 PM C

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

19. DATE REPORTED FROM LABORATORY: MO 9 DAY 21 YR 85 C ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[ ] SATISFACTORY	[ ] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: Bottle Sent 9.24.85

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

AUG 8 1985

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

95653

OFFICIAL USE

1. MICROFILM NO:
2. TRAN. CODE: 55
3. REGION OR LHD: 4
4. LABORATORY ID: 001
5. PROGRAM CODE:
6. COLLECTOR ID:
7. FACILITY ID:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED. . . . . [ ] R
- DRIVEN . . . . . [X] V

IF WELL ENTER DEPTH FEET

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER. . . . . [ ] Y
- c. CISTERN. . . . . [ ] C
- d. SPRING . . . . . [ ] S
- [ ] L
- [ ] O

Non-responsive

[redacted]

7. SAMPLE LOCATION
- a. RAW AT PUMP. . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP. . . . . [X] N
- d. OTHER . . . . . [ ] O

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	Discard (over 48 hrs old	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO SEP DAY 19 1985 TIME: AM 900 PM C

18. DECHLORINATED BOTTLE? 1 YES [ ] 0 NO [X]

WORK AREA:

10	1	1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 9 DAY 21 YR 85 C ANALYST

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[ ] SATISFACTORY	[ ] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: N Bottle Sent 9-24-85

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

AUG 8 1985

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

05651

Non-responsive

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	0011
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED. . . . . [ ] R
- DRIVEN . . . . . [X] V
- BORED. . . . . [ ] B

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER. . . . . [ ] Y
- c. CISTERN. . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE. . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP. . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP. . . . . [X] N
- d. OTHER . . . . . [ ] O

Non-responsive

[redacted]

REMARKS:

ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	Discard. over 48 hrs old	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO DAY YR: SEP 19 1985 TIME: AM 900 PM CT

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [X]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR: 9-21-85 CT

ANALYST

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML.	O = COLOR
A = GRAMS	I = MICROGRAM/L.	T = TU
B = /GM.	J = /100GM.	U = MICROGM./ML.
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML.	Y = PPB

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[ ] SATISFACTORY	[ ] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

REMARKS: N Bottle Sent 9.24.85

LHD STAMP

RESAMPLE - TOO OLD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

07814

PRIVATE WATER SUPPLY SAMPLE FORM

OCT 24 1985 SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

5. NAME OF COLLECTOR:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . [ ] D
- DRILLED . . . . . [ ] R
- DRIVEN . . . . . [/] V
- BORED . . . . . [ ] B

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER . . . . . [ ] Y
- c. CISTERN . . . . . [ ] C
- d. SPRING . . . . . [ ] S
- e. LAKE . . . . . [ ] L
- f. OTHER . . . . . [ ] O

7. SAMPLE LOCATION
- a. RAW AT PUMP . . . . . [ ] P
- b. FILTERED . . . . . [ ] F
- c. AT TAP . . . . . [X] H
- d. OTHER . . . . . [ ] O

8. MAIL REPORT TO:

Non-responsive

[redacted]

REMARKS:

ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	< 2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM./ML
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR OCT 29 1985 TIME: AM 900 PM CP

18. DECHLORINATED BOTTLE? YES 1 [ ] NO 0 [✓]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR 10-31-85 P

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
[X] SATISFACTORY	[X] SATISFACTORY	[ ] SATISFACTORY
[ ] UNSATISFACTORY	[ ] UNSATISFACTORY	[ ] UNSATISFACTORY

LHD STAMP

REMARKS: See attached 11-1-85 [illegible]

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

25575

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE

MICROFILM NO:	
TRAN. CODE:	55
REGION OR LHD:	4
LABORATORY ID:	001
PROGRAM CODE:	
COLLECTOR ID:	
FACILITY ID:	

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... X R
- DRIVEN V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L
- f. OTHER ..... O

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... X P
- b. FILTERED ..... F
- c. AT TAP ..... N
- d. OTHER ..... O

Non-responsive

[redacted]

REMARKS: Coli & N

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<1.0	L
NITRATE (QUAN)	1230		L
	Fe	12.4	X

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO DAY YR: APR 21 1987 TIME: 915 AM PM NOD

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

MO DAY YR: 4-23-87 P

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: [illegible] 4-24-87 [illegible]

LHD STAMP

26806

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

Non-responsive

[redacted]

ON

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: CCI
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
DUG ..... D
DRILLED ..... X R
DRIVEN V

IF WELL ENTER DEPTH FEET 1 2 0

(IF OTHER THAN WELL CHECK ONE BELOW)
b. CITY WATER ..... Y
c. CISTERN C
d. SPRING ..... S
L
O

Non-responsive

[redacted]

7. SAMPLE LOCATION
a. RAW AT PUMP ..... X P
b. FILTERED ..... F
c. AT TAP ..... H
d. OTHER ..... O

REMARKS: PLEASE MEASURE HARDNESS ALSO.

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L
HARD		225	X

*CODE UNIT AS FOLLOWS:
% = PERCENT
A = GRAMS
B = /GM.
C = DEGC
F = DEGF
H = /100ML.
I = MICROGRAM./L.
J = /100GM.
L = MG./L
M = /ML.
O = COLOR
T = TU
U = MICROGM./ML.
X = PPM
Y = PPB

17. DATE RECEIVED AT LABORATORY:
MO DAY YR
APR 28 1987
TIME: AM 900 PM CP

18. DECHLORINATED BOTTLE? 1 YES ☐ 0 NO ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:
MO DAY YR
4-30-87 JW

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM
☒ SATISFACTORY
☐ UNSATISFACTORY

NITRATE
☒ SATISFACTORY
☐ UNSATISFACTORY

TURBIDITY
☐ SATISFACTORY
☐ UNSATISFACTORY

REMARKS: attached
KJP 5-4-87

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

11614

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... ✓ R
- DRIVEN V

IF WELL ENTER DEPTH FEET: 0124

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... P
- b. FILTERED ..... F
- c. AT TAP ..... ✓ N
- d. OTHER ..... O

Non-responsive

[redacted]

REMARKS: Residence for Sale - Test Requested By Realtor

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230	<0.1	L

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO DAY YR: OCT - 27 - 1987 TIME: AM 9/5 PM JW

18. DECHLORINATED BOTTLE? 1 YES ☐ 0 NO ☒

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

MO DAY YR: 10 - 29 - 87 JW

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: ACCEPTABLE

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

Non-responsive

[redacted]

01088

OFFICIAL USE

MICROFILM NO:
TRAN. CODE: 55
REGION OR LHD: 4
LABORATORY ID: 001
PROGRAM CODE:
COLLECTOR ID:
FACILITY ID:

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG . . . . . D
- DRILLED . . . . . R
- DRIVEN V
- BORED . . . . . B

IF WELL ENTER DEPTH FEET: 89

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER . . . . . Y
- c. CISTERN C
- d. SPRING . . . . . S
- e. LAKE L
- f. OTHER . . . . . O

7. SAMPLE LOCATION
- a. RAW AT PUMP . . . . P
- b. FILTERED . . . . . F
- c. AT TAP . . . . . T
- d. OTHER . . . . . D

Non-responsive

[redacted]

REMARKS: Please test [illegible]

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO DAY YR JUL 16 1985 TIME: AM 900 PM

18. DECHLORINATED BOTTLE? YES 1 ☐ NO 0 ☑

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML.	O = COLOR
A = GRAMS	I = MICROGRAM/L.	T = TU
B = /GM.	J = /100GM.	U = MICROGM/ML.
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML.	Y = PPB

19. DATE REPORTED FROM LABORATORY: MO DAY YR 7-18-85

ANALYST

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: None
JHP 7-22-85

LHD STAMP

L1190400008--Madison County
Jennison-Wright Corp.
ILD006282479
Volume 2 of 2 5.2
1988

ANALYTICAL DATA PACKAGE

APPENDIX F

ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

D069366 NOV 30 1988

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3373

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069366	W101 ~~6202~~	11-29-88	1:15P

Sample Appearance : Black -

Collector Comments:

Sampler Signature : Gary Reside Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
				WIPE SAMPLE- BNA	N	11-29-88	1:15pm

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): GARY Reside Signature: Gary Reside

Date: 11-29-88 Time: 9:30 A Seal #: 3373 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 11-29-88 Time: ~~1:15pm~~ 3:15pm GWD Seal #: 3374

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secure area.

Opened by (print): Deanna Virgin Signature: Deanna Virgin

Date: 11/30/88 Time: 1:15 pm Seal #: 000.3374 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

)LE NUMBER : D869366
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/W101

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1315 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : WIPE SAMPLE BNA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : QT JAR WIPE SAMPLE TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

NAPHTHALENE	UG/SAMPLE	0.36J
ACENAPHTHENE	UG/SAMPLE	0.18J
DIBENZOFURAN	UG/SAMPLE	0.43J
FLUORENE	UG/SAMPLE	0.18J
PHENANTHRENE	UG/SAMPLE	2.1
DI-N-BUTYLPHTHALATE	UG/SAMPLE	0.25J
FLUORANTHENE	UG/SAMPLE	3.0
YRENE	UG/SAMPLE	2.3
CHRYSENE	UG/SAMPLE	1.7

THE FOLLOWING QUANTITATIONS ARE APPROXIMATE

ALIPHATIC HYDROCARBONS	UG/SAMPLE	138J
OTHER ORGANIC COMPOUNDS	UG/SAMPLE	150J

NO OTHER ORGANIC COMPOUNDS DETECTED
TARGET COMPOUND REPORTING LIMIT 1.0UG/SAMPLE

J. Hinley

D069380

NOV 30 1988

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3369

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	~~6201~~ GD W102	11-29-88	2:10p

Sample Appearance :

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Gregory W. D Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
				WIPE SAMPLE- BNA	N	11-29-88	2:10p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 11-29-88 Time: 8:25 Am Seal #: 3369 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 11-29-88 Time: 5:15 pm Seal #: 3370

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Dennis Vision Signature: Dennis Vision

Date: 11/30/88 Time: 2:10pm Seal #: 003370 Intact?: Y / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869380
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/W102

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1410 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : WIPE SAMPLE-BNA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT WIPE SAMPLE TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

: .
: DIBENZOFURAN UG/SAMPLE ; 0.31J
: DI-N-BUTYLPHTHALATE UG/SAMPLE ; 0.29J
: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: AIPHATIC PHENOLS UG/SAMPLE ; 79J

: ALIPHATIC HYDROCARBONS UG/SAMPLE ; 74J
: OTHER ORGANIC COMPOUNDS UG/SAMPLE ; 2.0J
: NO OTHER TARGET COMPOUNDS DETECTED
: TARGET COMPOUND REPORTING LIMIT 1.0UG/SAMPLE

J Hurley 1-11-89

IEPA - CLP
CHAIN OF CUSTODY

D069378

NOV 30 1988

Seal #: 3369

Date Sealed: 11/28/88 By: [illegible]

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	6201	11-29-88	8:40A-5:47A

Sample Appearance : Clear-

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Gregory W. Dunn Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
2	9	1/2g		BNA	N	11-29-88	8:45A
2	9	1/2g		PEST/PCB	N	11-29-88	8:47A
2	8	40ml		VOA	N	11-29-88	8:40AM

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 11-29-88 Time: 8:25AM Seal #: 3369 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 11-29-88 Time: 5:15P Seal #: 3370

Courier - sample pickup: IEPA - Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 2:10 pm Seal #: 0003370 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869378
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/G201

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 0840 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 4-1/2 GAL & 2 VOC TRIP BL SAM# : D869379
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39340	GAMMA-BHC (LINDANE)	UG/L :	.05K
P39410	HEPTACHLOR	UG/L :	.05K
P39330	ALDRIN	UG/L :	.05K
P39420	HEPTACHLOR EPOXIDE	UG/L :	.05K
P39348	ALPHA-CHLORDANE	UG/L :	.5K
P39810	GAMMA-CHLORDANE	UG/L :	.5K
P39380	DIELDRIN	UG/L :	.10K
P39390	ENDRIN	UG/L :	.10K
P39480	METHOXYCHLOR	UG/L :	.5K
127	O,P'-DDE	UG/L :	.10K
P39320	P,P'-DDE	UG/L :	.10K
P39315	O,P'-DDD	UG/L :	.10K
P39310	P,P'-DDD	UG/L :	.10K
P39305	O,P'-DDT	UG/L :	.10K
P39300	P,P'-DDT	UG/L :	.10K
P39516	TOTAL PCBS	UG/L :	.5U
P34694	PHENOL	UG/L :	10U
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L :	10U
P34586	2-CHLOROPHENOL	UG/L :	10U
P34566	1,3-DICHLOROBENZENE	UG/L :	10U
P34571	1,4-DICHLOROBENZENE	UG/L :	10U
P77147	BENZYL ALCOHOL	UG/L :	10U
P34536	1,2-DICHLOROBENZENE	UG/L :	10U
A00000	2-METHYLPHENOL	UG/L :	10U
P34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/L :	10U
A00000	4-METHYLPHENOL	UG/L :	10U
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L :	10U
P34396	HEXACHLOROETHANE	UG/L :	10U
P34447	NITROBENZENE	UG/L :	10U

SAMPLE NUMBER : D869378

108	ISOPHORONE	UG/L	: 10U
591	2-NITROPHENOL	UG/L	: 10U
P34606	2,4-DIMETHYLPHENOL	UG/L	: 10U
P77247	BENZOIC ACID	UG/L	: 50U
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L	: 10U
P34601	2,4-DICHLOROPHENOL	UG/L	: 10U
P34551	1,2,4-TRICHLOROBENZENE	UG/L	: 10U
P34696	NAPHTHALENE	UG/L	: 10U
A00000	4-CHLOROANILINE	UG/L	: 10U
P34391	HEXACHLOROBUTADIENE	UG/L	: 10U
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 10U
P77416	2-METHYLNAPHTHALENE	UG/L	: 10U
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L	: 10U
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 10U
P77687	2,4,5-TRICHLOROPHENOL	UG/L	: 50U
P34581	2-CHLORONAPHTHALENE	UG/L	: 10U
A00000	2-NITROANILINE	UG/L	: 50U
P34341	DIMETHYLPHTHALATE	UG/L	: 10U
P34200	ACENAPHTHYLENE	UG/L	: 10U
P34571	1,4-DICHLOROBENZENE	UG/L	: 10U
300	3-NITROANILINE	UG/L	: 50U
205	ACENAPHTHENE	UG/L	: 10U
P34616	2,4-DINITROPHENOL	UG/L	: 50U
P34646	4-NITROPHENOL	UG/L	: 50K
P81302	DIBENZOFURAN	UG/L	: 10U
P34611	2,4-DINITROTOLUENE	UG/L	: 10U
P34336	DIETHYLPHTHALATE	UG/L	: 10U
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 10U
P34381	FLUORENE	UG/L	: 10U
A00000	4-NITROANILINE	UG/L	: 50U
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/L	: 50U
P34433	N-NITROSODIPHENYLAMINE	UG/L	: 10U
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 10U
P39700	HEXACHLOROBENZENE	UG/L	: 10U
P39032	PENTACHLOROPHENOL	UG/L	: 50U
P34461	PHENANTHRENE	UG/L	: 10U
P34220	ANTHRACENE	UG/L	: 10U
P39110	DI-N-BUTYLPHTHLATE	UG/L	: 10U
P34376	FLUORANTHENE	UG/L	: 10U
P34469	PYRENE	UG/L	: 10U
P34292	BUTYL BENZYL PHTHALATE	UG/L	: 10U
031	3,3'-DICHLOROBENZIDINE	UG/L	: 20U
[illegible]026	BENZO(A)ANTHRACENE	UG/L	: 10U

SAMPLE NUMBER : D869378

[illegible]320	CHRYSENE	UG/L	: 10U
P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 10U
P34596	DI-N-OCTYLPHTHALATE	UG/L	: 10U
P34230	BENZO(B)FLUORANTHENE	UG/L	: 10U
P34242	BENZO(K)FLUORANTHENE	UG/L	: 10U
P34247	BENZO(A)PYRENE	UG/L	: 10U
P34403	INDENO(1,2,3-CD)PYRENE	UG/L	: 10U
P34556	DIBENZO(AH)ANTHRACENE	UG/L	: 10U
P34521	BENZO(GHI)PERYLENE	UG/L	: 10U
P34418	CHLOROMETHANE	UG/L	: 10U
P34413	BROMOMETHANE	UG/L	: 10U
P39175	VINYL CHLORIDE	UG/L	: 10U
P34311	CHLOROETHANE	UG/L	: 10U
P34423	METHYLENE CHLORIDE	UG/L	: 1.3B
P81552	ACETONE	UG/L	: 2.3B
P77041	CARBON DISULFIDE	UG/L	: 5.0U
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0U
P34496	1,1-DICHLOROETHANE	UG/L	: 5.0U
A000000	1,2-DICHLOROETHYLENE (TOTAL)	UG/L	: 5.0U
P32106	CHLOROFORM	UG/L	: 5.0U
P[illegible]531	1,2-DICHLOROETHANE	UG/L	: 5.0U
P81595	2-BUTANONE(MEK)	UG/L	: 10U
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0U
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0U
P77057	VINYL ACETATE	UG/L	: 10U
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0U
P34541	1,2-DICHLOROPROPANE	UG/L	: 5.0U
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0U
P39180	TRICHLOROETHYLENE	UG/L	: 5.0U
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0U
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0U
P78124	BENZENE	UG/L	: 5.0U
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0U
P32104	BROMOFORM	UG/L	: 5.0U
P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10U
P77103	2-HEXANONE(MBK)	UG/L	: 10U
P34475	TETRACHLOROETHYLENE	UG/L	: 5.0U
P78131	TOLUENE	UG/L	: 5.0U
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0U
P34301	CHLOROBENZENE	UG/L	: 5.0U
P78113	ETHYLBENZENE	UG/L	: 5.0U
[illegible] 28	STYRENE	UG/L	: 5.0U

SAMPLE NUMBER : D869378

551 XYLENE UG/L : 5.0U
THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: ALIPHATIC HYDROCARBONS UG/L ; 11J

: OTHER ORGANIC COMPOUNDS UG/L ; 12J

J Hurley 1-11-89

D069367 NOV 30 1988

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3373

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: CILLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069367	G202	11-29-88	9:45 - 9:55A

Sample Appearance : Slightly Silty -

Collector Comments: 30 DAY Turnaround

Sampler Signature : Gary Reside Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	9	1/2g		BNA		11-29-88	9:55A
2	9	1/2g		PEST/PCB		11-29-88	9:50A
2	8	40ml		VOA		11-29-88	9:45A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary L. Reside Signature: Gary Reside

Date: 11-29-88 Time: 9:30 A Seal #: 3373 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 11-29-88 Time: ~~10:50 pm~~ 5:15 pm Seal #: 3374

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin **Signature:** Deanne Virgin

Date: 11/30/88 **Time:** 1:15 pm **Seal #:** 000 3374 **Intact?:** (Y) N

Lab Name: Springfield IEPA **Comments:**

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

PLE NUMBER : D869367
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/G202

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 0945 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 4-1/2 GAL & 2 VOC TRIP BL SAM# : D869379
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39340	GAMMA-BHC (LINDANE)	UG/L :	.05U
P39410	HEPTACHLOR	UG/L :	.05U
P39330	ALDRIN	UG/L :	.05U
P39420	HEPTACHLOR EPOXIDE	UG/L :	.05U
P39348	ALPHA-CHLORDANE	UG/L :	.5U
P39810	GAMMA-CHLORDANE	UG/L :	.5U
P39380	DIELDRIN	UG/L :	.10U
P39390	ENDRIN	UG/L :	.10U
[illegible]80	METHOXYCHLOR	UG/L :	.5U
P39327	O,P'-DDE	UG/L :	.10U
P39320	P,P'-DDE	UG/L :	.10U
P39315	O,P'-DDD	UG/L :	.10U
P39310	P,P'-DDD	UG/L :	.10U
P39305	O,P'-DDT	UG/L :	.10U
P39300	P,P'-DDT	UG/L :	.10U
P39516	TOTAL PCBS	UG/L :	0.5U
P34694	PHENOL	UG/L :	10U
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L :	10U
P34586	2-CHLOROPHENOL	UG/L :	10U
P34566	1,3-DICHLOROBENZENE	UG/L :	10U
P34571	1,4-DICHLOROBENZENE	UG/L :	10U
P77147	BENZYL ALCOHOL	UG/L :	10U
P34536	1,2-DICHLOROBENZENE	UG/L :	10U
A00000	2-METHYLPHENOL	UG/L :	10U
P34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/L :	10U
A00000	4-METHYLPHENOL	UG/L :	10U
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L :	10U
P34396	HEXACHLOROETHANE	UG/L :	10U
P34447	NITROBENZENE	UG/L :	10U

SAMPLE NUMBER : D869367

P34408	ISOPHORONE	UG/L	: 10U
P34591	2-NITROPHENOL	UG/L	: 10U
P34606	2,4-DIMETHYLPHENOL	UG/L	: 10U
P77247	BENZOIC ACID	UG/L	: 0.79J
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L	: 10U
P34601	2,4-DICHLOROPHENOL	UG/L	: 10U
P34551	1,2,4-TRICHLOROBENZENE	UG/L	: 10U
P34696	NAPHTHALENE	UG/L	: 10U
A00000	4-CHLOROANILINE	UG/L	: 10U
P34391	HEXACHLOROBUTADIENE	UG/L	: 10U
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 10U
P77416	2-METHYLNAPHTHALENE	UG/L	: 10U
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L	: 10U
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 10U
P77687	2,4,5-TRICHLOROPHENOL	UG/L	: 50U
P34581	2-CHLORONAPHTHALENE	UG/L	: 10U
A00000	2-NITROANILINE	UG/L	: 50U
P34341	DIMETHYLPHTHALATE	UG/L	: 10U
P34200	ACENAPHTHYLENE	UG/L	: 10U
P34571	1,4-DICHLOROBENZENE	UG/L	: 10U
P76300	3-NITROANILINE	UG/L	: 50U
P34205	ACENAPHTHENE	UG/L	: 10U
P34616	2,4-DINITROPHENOL	UG/L	: 50U
P34646	4-NITROPHENOL	UG/L	: 50K
P81302	DIBENZOFURAN	UG/L	: 10U
P34611	2,4-DINITROTOLUENE	UG/L	: 10U
P34336	DIETHYLPHTHALATE	UG/L	: 0.21J
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 10U
P34381	FLUORENE	UG/L	: 10U
A00000	4-NITROANILINE	UG/L	: 50U
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/L	: 50U
P34433	N-NITROSODIPHENYLAMINE	UG/L	: 10U
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 10U
P39700	HEXACHLOROBENZENE	UG/L	: 10U
P39032	PENTACHLOROPHENOL	UG/L	: 50U
P34461	PHENANTHRENE	UG/L	: 10U
P34220	ANTHRACENE	UG/L	: 10U
P39110	DI-N-BUTYLPHTHLATE	UG/L	: 10U
P34376	FLUORANTHENE	UG/L	: 10U
P34469	PYRENE	UG/L	: 10U
P[illegible]92	BUTYL BENZYL PHTHALATE	UG/L	: 10U
P34631	3,3'-DICHLOROBENZIDINE	UG/L	: 20U
P34526	BENZO(A)ANTHRACENE	UG/L	: 10U

SAMPLE NUMBER : D869367

P34320	CHRYSENE	UG/L	: 10U
P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 10U
P34596	DI-N-OCTYLPHTHALATE	UG/L	: 10U
P34230	BENZO(B)FLUORANTHENE	UG/L	: 10U
P34242	BENZO(K)FLUORANTHENE	UG/L	: 10U
P34247	BENZO(A)PYRENE	UG/L	: 10U
P34403	INDENO(1,2,3-CD)PYRENE	UG/L	: 10U
P34556	DIBENZO(AH)ANTHRACENE	UG/L	: 10U
P34521	BENZO(GHI)PERYLENE	UG/L	: 10U
P34418	CHLOROMETHANE	UG/L	: 10U
P34413	BROMOMETHANE	UG/L	: 10U
P39175	VINYL CHLORIDE	UG/L	: 10U
P34311	CHLOROETHANE	UG/L	: 10U
P34423	METHYLENE CHLORIDE	UG/L	: 6.7B
P81552	ACETONE	UG/L	: 76B
P77041	CARBON DISULFIDE	UG/L	: 5.0U
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0U
P34496	1,1-DICHLOROETHANE	UG/L	: 5.0U
A000000	1,2-DICHLOROETHYLENE (TOTAL)	UG/L	: 5.0U
I 106	CHLOROFORM	UG/L	: 5.0U
P34331	1,2-DICHLOROETHANE	UG/L	: 5.0U
P81595	2-BUTANONE(MEK)	UG/L	: 10U
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0U
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0U
P77057	VINYL ACETATE	UG/L	: 10U
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0U
P34541	1,2-DICHLOROPROPANE	UG/L	: 5.0U
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0U
P39180	TRICHLOROETHYLENE	UG/L	: 5.0U
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0U
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0U
P78124	BENZENE	UG/L	: 5.0U
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0U
P32104	BROMOFORM	UG/L	: 5.0U
P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10U
P77103	2-HEXANONE(MBK)	UG/L	: 10U
P34475	TETRACHLOROETHYLENE	UG/L	: 5.0U
P78131	TOLUENE	UG/L	: 5.0U
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0U
P34301	CHLOROBENZENE	UG/L	: 5.0U
I 113	ETHYLBENZENE	UG/L	: 5.0U
P77128	STYRENE	UG/L	: 5.0U

SAMPLE NUMBER : D869367

P81551 XYLENE UG/L : 1.6J
: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: TETRAHYDROFURAN UG/L ; 4.0J

: ALIPHATIC HYDROCARBONS UG/L ; 5.0J
: OTHER ORGANIC COMPOUNDS UG/L ; 7.7J

D Hurley 1-11-89

D007580

IEPA - CLP
CHAIN OF CUSTODY

NOV 30 1988

Seal #: 3377

Date Sealed: 11/28/88 By: AW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069368	X101	11-29-88	10:54A

Sample Appearance : Black

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Gregory W. D[illegible] Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz		BNA,PEST/PCB	N	11-29-88	10:54A
2	12	2oz		VOA	N	11-29-88	10:55A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary L. Reside Signature: [illegible]

Date: 11-29-88 Time: 10:30 AM Seal #: 3377 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15 pm Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

pened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 1:40 Seal #: 0003378 Intact?: Y N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

PLE NUMBER : D869368
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X101

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1054 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	: 40U
A39338	BETA-BHC	UG/KG	: 40U
P34262	DELTA-BHC	UG/KG	: 40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	: 40U
P39413	HEPTACHLOR	UG/KG	: 40U
P39333	ALDRIN	UG/KG	: 40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	: 40J
P34364	ENDOSULFAN I	UG/KG	: 40U
I 383	DIELDRIN	UG/KG	: 80U
P39321	P,P'-DDE	UG/KG	: 80U
P39393	ENDRIN	UG/KG	: 80U
P34359	ENDOSULFAN II	UG/KG	: 80U
P39311	P,P'-DDD	UG/KG	: 80U
P34354	ENDOSULFAN SULFATE	UG/KG	: 80U
P39301	P,P'-DDT	UG/KG	: 80U
P39481	METHOXYCHLOR	UG/KG	: 400U
A78008	ENDRIN KETONE	UG/KG	: 80U
A39348	ALPHA-CHLORDANE	UG/KG	: 450
P39811	GAMMA-CHLORDANE	UG/KG	: 500
P39403	TOXAPHENE	UG/KG	: 800U
P39514	AROCHLOR 1016	UG/KG	: 400U
P39491	AROCHLOR 1221	UG/KG	: 400U
P39495	AROCHLOR 1232	UG/KG	: 400U
P39499	AROCHLOR 1242	UG/KG	: 400U
P39503	AROCHLOR 1248	UG/KG	: 400U
P39507	AROCHLOR 1254	UG/KG	: 400U
P39511	AROCHLOR 1260	UG/KG	: 400U
A34694	PHENOL	UG/KG	: 23100U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	: 23100U

SAMPLE NUMBER : D869368

A34586	2-CHLOROPHENOL	UG/KG :	23100U
A34566	1,3-DICHLOROBENZENE	UG/KG :	23100U
A34571	1,4-DICHLOROBENZENE	UG/KG :	23100U
A77147	BENZYL ALCOHOL	UG/KG :	23100U
A34536	1,2-DICHLOROBENZENE	UG/KG :	23100U
A00000	2-METHYLPHENOL	UG/KG :	23100U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	23100U
A00000	4-METHYLPHENOL	UG/KG :	23100U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	23100U
A34396	HEXACHLOROETHANE	UG/KG :	23100U
A34447	NITROBENZENE	UG/KG :	23100U
A34408	ISOPHORONE	UG/KG :	23100U
A34591	2-NITROPHENOL	UG/KG :	23100U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	23100U
A77247	BENZOIC ACID	UG/KG :	112000U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	23100U
A34601	2,4-DICHLOROPHENOL	UG/KG :	23100U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	23100U
A34696	NAPHTHALENE	UG/KG :	240J
A00000	4-CHLOROANILINE	UG/KG :	23100U
A34391	HEXACHLOROBUTADIENE	UG/KG :	23100U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	23100U
A77416	2-METHYLNAPHTHALENE	UG/KG :	200J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	23100U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	23100U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	112000U
A34581	2-CHLORONAPHTHALENE	UG/KG :	23100U
A00000	2-NITROANILINE	UG/KG :	112000U
A34341	DIMETHYLPHTHALATE	UG/KG :	23100U
A34200	ACENAPHTHYLENE	UG/KG :	23100U
A34626	2,6-DINITROTOLUENE	UG/KG :	23100U
A78300	3-NITROANILINE	UG/KG :	112000U
A34205	ACENAPHTHENE	UG/KG :	23100U
A34616	2,4-DINITROPHENOL	UG/KG :	112000U
A34646	4-NITROPHENOL	UG/KG :	112000U
A81302	DIBENZOFURAN	UG/KG :	23100U
A34611	2,4-DINITROTOLUENE	UG/KG :	23100U
A34336	DIETHYLPHTHALATE	UG/KG :	23100U
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	23100U
A34381	FLUORENE	UG/KG :	23100U
[illegible]00	4-NITROANILINE	UG/KG :	112000U
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	112000U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	23100U

SAMPLE NUMBER : D869368

A34036	4-BROMOPHENYL PHENYL ETHER	UG/KG :	23100U
A39700	HEXACHLOROBENZENE	UG/KG :	23100U
A39032	PENTACHLOROPHENOL	UG/KG :	112000U
A34461	PHENANTHRENE	UG/KG :	1000B
A34220	ANTHRACENE	UG/KG :	23100U
A39110	DI-N-BUTYLPHTHALATE	UG/KG :	230B
A34376	FLUORANTHENE	UG/KG :	1400B
A34469	PYRENE	UG/KG :	1400B
A34292	BUTYL BENZYL PHTHALATE	UG/KG :	23100U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG :	46200U
A34526	BENZO(A)ANTHRACENE	UG/KG :	23100U
A34320	CHRYSENE	UG/KG :	23100U
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG :	570J
A34596	DI-N-OCTYLPHTHALATE	UG/KG :	23100U
A34230	BENZO(B)FLUORANTHENE	UG/KG :	820J
A34242	BENZO(K)FLUORANTHENE	UG/KG :	23100U
A34247	BENZO(A)PYRENE	UG/KG :	310J
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG :	23100U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG :	23100U
[illegible]21	BENZO(GHI)PERYLENE	UG/KG :	23100U
[illegible]18	CHLOROMETHANE	UG/KG :	1000U
A34413	BROMOMETHANE	UG/KG :	1000U
A39175	VINYL CHLORIDE	UG/KG :	1000U
A34311	CHLOROETHANE	UG/KG :	1000U
A34423	METHYLENE CHLORIDE	UG/KG :	3400B
A81552	ACETONE	UG/KG :	1600B
A77041	CARBON DISULFIDE	UG/KG :	500U
A34501	1,1-DICHLOROETHYLENE	UG/KG :	500U
A34496	1,1-DICHLOROETHANE	UG/KG :	500U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG :	500U
A32106	CHLOROFORM	UG/KG :	500U
A34531	1,2-DICHLOROETHANE	UG/KG :	500U
A81595	2-BUTANONE(MEK)	UG/KG :	150J
A34506	1,1,1-TRICHLOROETHANE	UG/KG :	500U
A32102	CARBON TETRACHLORIDE	UG/KG :	500U
A77057	VINYL ACETATE	UG/KG :	1000U
A32101	DICHLOROBROMOMETHANE	UG/KG :	500U
A34541	1,2-DICHLOROPROPANE	UG/KG :	500U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG :	500U
A39180	TRICHLOROETHYLENE	UG/KG :	500U
[illegible]05	CHLORODIBROMOMETHANE	UG/KG :	500U
A34511	1,1,2-TRICHLOROETHANE	UG/KG :	500U

SAMPLE NUMBER : D869368

J 24	BENZENE	UG/KG :	500U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG :	500U
A32104	BROMOFORM	UG/KG :	500U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG :	1000U
A77103	2-HEXANONE(MBK)	UG/KG :	1000U
A34475	TETRACHLOROETHYLENE	UG/KG :	500U
A78131	TOLUENE	UG/KG :	500U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG :	500U
A34301	CHLOROBENZENE	UG/KG :	500U
A78113	ETHYLBENZENE	UG/KG :	500U
A77128	STYRENE	UG/KG :	500U
A81551	XYLENE	UG/KG :	500U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: HEXANEDIOIC ACID,MONO(2-ETHYLHEXYL)ESTER
: UG/G ; 500J

: BUTANOIC ACID,METHYL ESTER
: UG/G ; 150J

J Hurley

D069369 NOV 30 1988

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3377

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069369	X112	11-27-88	11:10-11:13A

Sample Appearance : Black - Some Organic Material

Collector Comments:

Sampler Signature : Gregory W. [illegible] Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-27-88	11:10A
2	12	2oz		VOA	N	11-27-88	11:13A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Resicle Signature: Gary Resicle

Date: 11-27-88 Time: 11:30 AM Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Resicle Signature: Gary Resicle

Date: 11-27-88 Time: 5:15 pm Seal #: 3377

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin **Signature:** Deanne Virgin

Date: 11/30/88 **Time:** 1:40 pm **Seal #:** 0003378 **Intact?:** (Y) / N

Lab Name: Springfield EPA **Comments:**

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

S LE NUMBER : D869369
S LING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X102

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1110 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-30Z SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	40U
A39338	BETA-BHC	UG/KG	40U
P34262	DELTA-BHC	UG/KG	40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	40U
P39413	HEPTACHLOR	UG/KG	40U
P39333	ALDRIN	UG/KG	40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	40U
P34364	ENDOSULFAN I	UG/KG	40U
P[illegible]83	DIELDRIN	UG/KG	80U
P39321	P,P'-DDE	UG/KG	80U
P39393	ENDRIN	UG/KG	80U
P34359	ENDOSULFAN II	UG/KG	80U
P39311	P,P'-DDD	UG/KG	80U
P34354	ENDOSULFAN SULFATE	UG/KG	80U
P39301	P,P'-DDT	UG/KG	80U
P39481	METHOXYCHLOR	UG/KG	400U
A78008	ENDRIN KETONE	UG/KG	80U
A39348	ALPHA-CHLORDANE	UG/KG	400U
P39811	GAMMA-CHLORDANE	UG/KG	400U
P39403	TOXAPHENE	UG/KG	800U
P39514	AROCHLOR 1016	UG/KG	400U
P39491	AROCHLOR 1221	UG/KG	400U
P39495	AROCHLOR 1232	UG/KG	400U
P39499	AROCHLOR 1242	UG/KG	400U
P39503	AROCHLOR 1248	UG/KG	400U
P39507	AROCHLOR 1254	UG/KG	400U
P39511	AROCHLOR 1260	UG/KG	400U
A34694	PHENOL	UG/KG	47190U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	47190U

SAMPLE NUMBER : D869369

386	2-CHLOROPHENOL	UG/KG :	47190U
A34566	1,3-DICHLOROBENZENE	UG/KG :	47190U
A34571	1,4-DICHLOROBENZENE	UG/KG :	47190U
A77147	BENZYL ALCOHOL	UG/KG :	47190U
A34536	1,2-DICHLOROBENZENE	UG/KG :	47190U
A00000	2-METHYLPHENOL	UG/KG :	47190U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	47190U
A00000	4-METHYLPHENOL	UG/KG :	47190U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	47190U
A34396	HEXACHLOROETHANE	UG/KG :	47190U
A34447	NITROBENZENE	UG/KG :	47190U
A34408	ISOPHORONE	UG/KG :	47190U
A34591	2-NITROPHENOL	UG/KG :	47190U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	47190U
A77247	BENZOIC ACID	UG/KG :	228800U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	47190U
A34601	2,4-DICHLOROPHENOL	UG/KG :	47190U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	47190U
A34696	NAPHTHALENE	UG/KG :	120J
A00000	4-CHLOROANILINE	UG/KG :	47190U
391	HEXACHLOROBUTADIENE	UG/KG :	47190U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	47190U
A77416	2-METHYLNAPHTHALENE	UG/KG :	47190U
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	47190U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	47190U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	228800U
A34581	2-CHLORONAPHTHALENE	UG/KG :	47190U
A00000	2-NITROANILINE	UG/KG :	228800U
A34341	DIMETHYLPHTHALATE	UG/KG :	47190U
A34200	ACENAPHTHYLENE	UG/KG :	47190U
A34626	2,6-DINITROTOLUENE	UG/KG :	47190U
A78300	3-NITROANILINE	UG/KG :	228800U
A34205	ACENAPHTHENE	UG/KG :	47190U
A34616	2,4-DINITROPHENOL	UG/KG :	228800U
A34646	4-NITROPHENOL	UG/KG :	228800U
A81302	DIBENZOFURAN	UG/KG :	47190U
A34611	2,4-DINITROTOLUENE	UG/KG :	47190U
A34336	DIETHYLPHTHALATE	UG/KG :	47190U
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	47190U
A34381	FLUORENE	UG/KG :	47190U
000	4-NITROANILINE	UG/KG :	228800U
000	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	228800U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	47190U

SAMPLE NUMBER : D869369

/ 36	4-BROMOPHENYL PHENYL ETHER	UG/KG	: 47190U
A39700	HEXACHLOROBENZENE	UG/KG	: 47190U
A39032	PENTACHLOROPHENOL	UG/KG	: 2600J
A34461	PHENANTHRENE	UG/KG	: 1100B
A34220	ANTHRACENE	UG/KG	: 560J
A39110	DI-N-BUTYLPHTHALATE	UG/KG	: 250B
A34376	FLUORANTHENE	UG/KG	: 1400B
A34469	PYRENE	UG/KG	: 1700B
A34292	BUTYL BENZYL PHTHALATE	UG/KG	: 760J
A34631	3,3'-DICHLOROBENZIDINE	UG/KG	: 94380U
A34526	BENZO(A)ANTHRACENE	UG/KG	: 1700J
A34320	CHRYSENE	UG/KG	: 3100J
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	: 47190U
A34596	DI-N-OCTYLPHTHALATE	UG/KG	: 47190U
A34230	BENZO(B)FLUORANTHENE	UG/KG	: 47190U
A34242	BENZO(K)FLUORANTHENE	UG/KG	: 780J
A34247	BENZO(A)PYRENE	UG/KG	: 47190U
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG	: 47190U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG	: 47190U
/ 21	BENZO(GHI)PERYLENE A34521 BENZO(GHI)PERYLENE	UG/KG	: 47190U
/ 18	CHLOROMETHANE	UG/KG	: 10U
A34413	BROMOMETHANE	UG/KG	: 10U
A39175	VINYL CHLORIDE	UG/KG	: 10U
A34311	CHLOROETHANE	UG/KG	: 10U
A34423	METHYLENE CHLORIDE	UG/KG	: 38B
A81552	ACETONE	UG/KG	: 2.0B
A77041	CARBON DISULFIDE	UG/KG	: 5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0U
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG	: 5.0U
A32106	CHLOROFORM	UG/KG	: 5.0U
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0U
A81595	2-BUTANONE(MEK)	UG/KG	: 1.6J
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0U
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0U
A77057	VINYL ACETATE	UG/KG	: 10U
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0U
/ 05	CHLORODIBROMOMETHANE	UG/KG	: 5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0U

SAMPLE NUMBER : D869369

124	BENZENE	UG/KG :	5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG :	5.0U
A32104	BROMOFORM	UG/KG :	5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG :	10U
A77103	2-HEXANONE(MBK)	UG/KG :	10U
A34475	TETRACHLOROETHYLENE	UG/KG :	5.0U
A78131	TOLUENE	UG/KG :	5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG :	5.0U
A34301	CHLOROBENZENE	UG/KG :	5.0U
A78113	ETHYLBENZENE	UG/KG :	5.0U
A77128	STYRENE	UG/KG :	5.0U
A81551	XYLENE	UG/KG :	5.0U

J Henley 1-11-89

IEPA - CLP
CHAIN OF CUSTODY

D069370

Seal #: 3377

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X103	11-29-88	11:22A

Sample Appearance : Black

Collector Comments:

Sampler Signature : Gregory W. D[illegible] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA,PEST/PCB	N	11-29-88	11:22A
2	12	2oz		VOA	N	11-29-88	11:23A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15 pM Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 1:40 pm Seal #: 0003378 Intact? Y / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869370
S LING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X103

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1122 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	: 40U
A39338	BETA-BHC	UG/KG	: 40U
P34262	DELTA-BHC	UG/KG	: 40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	: 40U
P39413	HEPTACHLOR	UG/KG	: 40U
P39333	ALDRIN	UG/KG	: 40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	: 40U
P34364	ENDOSULFAN I	UG/KG	: 40U
P39383	DIELDRIN	UG/KG	: 80U
P39321	P,P'-DDE	UG/KG	: 80U
P39393	ENDRIN	UG/KG	: 80U
P34359	ENDOSULFAN II	UG/KG	: 80U
P39311	P,P'-DDD	UG/KG	: 80U
P34354	ENDOSULFAN SULFATE	UG/KG	: 80U
P39301	P,P'-DDT	UG/KG	: 80U
P39481	METHOXYCHLOR	UG/KG	: 400U
A78008	ENDRIN KETONE	UG/KG	: 80U
A39348	ALPHA-CHLORDANE	UG/KG	: 400U
P39811	GAMMA-CHLORDANE	UG/KG	: 400U
P39403	TOXAPHENE	UG/KG	: 800U
P39514	AROCHLOR 1016	UG/KG	: 400U
P39491	AROCHLOR 1221	UG/KG	: 400U
P39495	AROCHLOR 1232	UG/KG	: 400U
P39499	AROCHLOR 1242	UG/KG	: 400U
P39503	AROCHLOR 1248	UG/KG	: 400U
P39507	AROCHLOR 1254	UG/KG	: 400U
P39511	AROCHLOR 1260	UG/KG	: 400U
A34694	PHENOL	UG/KG	: 39J
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	: 2310U

SAMPLE NUMBER : D869370

[illegible]86	2-CHLOROPHENOL	UG/KG :	2310U
A34566	1,3-DICHLOROBENZENE	UG/KG :	2310U
A34571	1,4-DICHLOROBENZENE	UG/KG :	2310U
A77147	BENZYL ALCOHOL	UG/KG :	2310U
A34536	1,2-DICHLOROBENZENE	UG/KG :	2310U
A00000	2-METHYLPHENOL	UG/KG :	2310U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	2310U
A00000	4-METHYLPHENOL	UG/KG :	2310U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	2310U
A34396	HEXACHLOROETHANE	UG/KG :	2310U
A34447	NITROBENZENE	UG/KG :	2310U
A34408	ISOPHORONE	UG/KG :	2310U
A34591	2-NITROPHENOL	UG/KG :	2310U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	2310U
A77247	BENZOIC ACID	UG/KG :	11200U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	2310U
A34601	2,4-DICHLOROPHENOL	UG/KG :	2310U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	2310U
A34696	NAPHTHALENE	UG/KG :	52J
A00000	4-CHLOROANILINE	UG/KG :	2310U
[illegible]91	HEXACHLOROBUTADIENE	UG/KG :	2310U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	2310U
A77416	2-METHYLNAPHTHALENE	UG/KG :	62J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	2310U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	2310U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	11200U
A34581	2-CHLORONAPHTHALENE	UG/KG :	2310U
A00000	2-NITROANILINE	UG/KG :	11200U
A34341	DIMETHYLPHTHALATE	UG/KG :	2310U
A34200	ACENAPHTHYLENE	UG/KG :	2310U
A34626	2,6-DINITROTOLUENE	UG/KG :	2310U
A78300	3-NITROANILINE	UG/KG :	11200U
A34205	ACENAPHTHENE	UG/KG :	2310U
A34616	2,4-DINITROPHENOL	UG/KG :	11200U
A34646	4-NITROPHENOL	UG/KG :	11200U
A81302	DIBENZOFURAN	UG/KG :	2310U
A34611	2,4-DINITROTOLUENE	UG/KG :	2310U
A34336	DIETHYLPHTHALATE	UG/KG :	2310U
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	2310U
A34381	FLUORENE	UG/KG :	2310U
[illegible]00	4-NITROANILINE	UG/KG :	11200U
[illegible]00	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	11200U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	2310U

SAMPLE NUMBER : D869370

[illegible]36	4-BROMOPHENYL PHENYL ETHER	UG/KG	: 2310U
A39700	HEXACHLOROBENZENE	UG/KG	: 2310U
A39032	PENTACHLOROPHENOL	UG/KG	: 11200U
A34461	PHENANTHRENE	UG/KG	: 410B
A34220	ANTHRACENE	UG/KG	: 2310U
A39110	DI-N-BUTYLPHTHALATE	UG/KG	: 70B
A34376	FLUORANTHENE	UG/KG	: 940B
A34469	PYRENE	UG/KG	: 850B
A34292	BUTYL BENZYL PHTHALATE	UG/KG	: 2310U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG	: 4620U
A34526	BENZO(A)ANTHRACENE	UG/KG	: 670J
A34320	CHRYSENE	UG/KG	: 750J
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	: 240J
A34596	DI-N-OCTYLPHTHALATE	UG/KG	: 2310U
A34230	BENZO(B)FLUORANTHENE	UG/KG	: 480J
A34242	BENZO(K)FLUORANTHENE	UG/KG	: 2310U
A34247	BENZO(A)PYRENE	UG/KG	: 470J
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG	: 2310U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG	: 2310U
A34521	BENZO(GHI)PERYLENE	UG/KG	: 2310U
[illegible]18	CHLOROMETHANE	UG/KG	: 10U
A34413	BROMOMETHANE	UG/KG	: 10U
A39175	VINYL CHLORIDE	UG/KG	: 10U
A34311	CHLOROETHANE	UG/KG	: 10U
A34423	METHYLENE CHLORIDE	UG/KG	: 13B
A81552	ACETONE	UG/KG	: 8.8B
A77041	CARBON DISULFIDE	UG/KG	: 5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0U
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG	: 5.0U
A32106	CHLOROFORM	UG/KG	: 5.0U
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0U
A81595	2-BUTANONE(MEK)	UG/KG	: 10U
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0U
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0U
A77057	VINYL ACETATE	UG/KG	: 10U
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0U
[illegible]05	CHLORODIBROMOMETHANE	UG/KG	: 5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0U

SAMPLE NUMBER : D869370

124	BENZENE	UG/KG	: 5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A32104	BROMOFORM	UG/KG	: 5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 10U
A77103	2-HEXANONE(MBK)	UG/KG	: 10U
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0U
A78131	TOLUENE	UG/KG	: 5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0U
A34301	CHLOROBENZENE	UG/KG	: 5.0U
A78113	ETHYLBENZENE	UG/KG	: 5.0U
A77128	STYRENE	UG/KG	: 5.0U
A81551	XYLENE	UG/KG	: 5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: PENTANE UG/G ; 2.7J
: HEXANEDIOIC ACID,MONO(2-ETHYLHEXYL)ESTER

: UG/G ; 1600J
: 9,10-ANTHRACENEDIONE UG/G ; 20J
: ALIPHATIC HYDROCARBONS UG/G ; 30J
: OTHER ORGANIC COMPOUNDS UG/G ; 500J

J Hurley 1-11-89

NOV 30 1988

IEPA - CLP D069371
CHAIN OF CUSTODY

Seal #: 3377

Date Sealed: 11/28/88 By: AW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069371	X1C4	11-27-88	1241-1243p

Sample Appearance : Brownish - Black

Collector Comments:

Sampler Signature : Gregory W. Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-27-88	1241p
2	12	2oz		VOA	N	11-27-88	1243p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15 pm Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 140 pm Seal #: 000 3378 Intact? (Y) N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869371
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X104

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1241 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-30Z SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	40U
A39338	BETA-BHC	UG/KG	40U
P34262	DELTA-BHC	UG/KG	40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	40U
P39413	HEPTACHLOR	UG/KG	40U
P39333	ALDRIN	UG/KG	40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	40U
P34364	ENDOSULFAN I	UG/KG	40U
P39383	DIELDRIN	UG/KG	80U
P39321	P,P'-DDE	UG/KG	80U
P39393	ENDRIN	UG/KG	80U
P34359	ENDOSULFAN II	UG/KG	80U
P39311	P,P'-DDD	UG/KG	80U
P34354	ENDOSULFAN SULFATE	UG/KG	80U
P39301	P,P'-DDT	UG/KG	80U
P39481	METHOXYCHLOR	UG/KG	400U
A78008	ENDRIN KETONE	UG/KG	80U
A39348	ALPHA-CHLORDANE	UG/KG	400U
P39811	GAMMA-CHLORDANE	UG/KG	400U
P39403	TOXAPHENE	UG/KG	800U
P39514	AROCHLOR 1016	UG/KG	400U
P39491	AROCHLOR 1221	UG/KG	400U
P39495	AROCHLOR 1232	UG/KG	400U
P39499	AROCHLOR 1242	UG/KG	400U
P39503	AROCHLOR 1248	UG/KG	400U
P39507	AROCHLOR 1254	UG/KG	400U
P39511	AROCHLOR 1260	UG/KG	400U
A34694	PHENOL	UG/KG	330U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	330U

SAMPLE NUMBER : D869371

[illegible]86	2-CHLOROPHENOL	UG/KG :	330U
A34566	1,3-DICHLOROBENZENE	UG/KG :	330U
A34571	1,4-DICHLOROBENZENE	UG/KG :	330U
A77147	BENZYL ALCOHOL	UG/KG :	330U
A34536	1,2-DICHLOROBENZENE	UG/KG :	330U
A00000	2-METHYLPHENOL	UG/KG :	330U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	330U
A00000	4-METHYLPHENOL	UG/KG :	330U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	330U
A34396	HEXACHLOROETHANE	UG/KG :	330U
A34447	NITROBENZENE	UG/KG :	330U
A34408	ISOPHORONE	UG/KG :	330U
A34591	2-NITROPHENOL	UG/KG :	330U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	330U
A77247	BENZOIC ACID	UG/KG :	38J
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	330U
A34601	2,4-DICHLOROPHENOL	UG/KG :	330U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	330U
A34696	NAPHTHALENE	UG/KG :	46J
A00000	4-CHLOROANILINE	UG/KG :	330U
[illegible]391	HEXACHLOROBUTADIENE	UG/KG :	330U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	330U
A77416	2-METHYLNAPHTHALENE	UG/KG :	25J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	330U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	330U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	1600U
A34581	2-CHLORONAPHTHALENE	UG/KG :	330U
A00000	2-NITROANILINE	UG/KG :	1600U
A34341	DIMETHYLPHTHALATE	UG/KG :	330U
A34200	ACENAPHTHYLENE	UG/KG :	330U
A34626	2,6-DINITROTOLUENE	UG/KG :	330U
A78300	3-NITROANILINE	UG/KG :	1600U
A34205	ACENAPHTHENE	UG/KG :	330U
A34616	2,4-DINITROPHENOL	UG/KG :	1600U
A34646	4-NITROPHENOL	UG/KG :	1600U
A81302	DIBENZOFURAN	UG/KG :	330U
A34611	2,4-DINITROTOLUENE	UG/KG :	330U
A34336	DIETHYLPHTHALATE	UG/KG :	35J
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	330U
A34381	FLUORENE	UG/KG :	330U
[illegible]00	4-NITROANILINE	UG/KG :	1600U
[illegible]00	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	1600U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	330U

SAMPLE NUMBER : D869371

536	4-BROMOPHENYL PHENYL ETHER	UG/KG	: 330U
A39700	HEXACHLOROBENZENE	UG/KG	: 330U
A39032	PENTACHLOROPHENOL	UG/KG	: 1600U
A34461	PHENANTHRENE	UG/KG	: 110B
A34220	ANTHRACENE	UG/KG	: 24J
A39110	DI-N-BUTYLPHTHALATE	UG/KG	: 170B
A34376	FLUORANTHENE	UG/KG	: 130B
A34469	PYRENE	UG/KG	: 110B
A34292	BUTYL BENZYL PHTHALATE	UG/KG	: 330U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG	: 660U
A34526	BENZO(A)ANTHRACENE	UG/KG	: 230J
A34320	CHRYSENE	UG/KG	: 330U
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	: 330U
A34596	DI-N-OCTYLPHTHALATE	UG/KG	: 330U
A34230	BENZO(B)FLUORANTHENE	UG/KG	: 330U
A34242	BENZO(K)FLUORANTHENE	UG/KG	: 330U
A34247	BENZO(A)PYRENE	UG/KG	: 330U
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG	: 330U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG	: 330U
A[illegible]21	BENZO(GHI)PERYLENE	UG/KG	: 330U
[illegible]18	CHLOROMETHANE	UG/KG	: 10U
A34413	BROMOMETHANE	UG/KG	: 10U
A39175	VINYL CHLORIDE	UG/KG	: 10U
A34311	CHLOROETHANE	UG/KG	: 10U
A34423	METHYLENE CHLORIDE	UG/KG	: 25B
A81552	ACETONE	UG/KG	: 6.4B
A77041	CARBON DISULFIDE	UG/KG	: 5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0U
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG	: 5.0U
A32106	CHLOROFORM	UG/KG	: 5.0U
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0U
A81595	2-BUTANONE(MEK)	UG/KG	: 2.7J
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0U
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0U
A77057	VINYL ACETATE	UG/KG	: 10U
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0U
A[illegible]05	CHLORODIBROMOMETHANE	UG/KG	: 5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0U

SAMPLE NUMBER : D869371

124	BENZENE	UG/KG	: 5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A32104	BROMOFORM	UG/KG	: 5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 10U
A77103	2-HEXANONE(MBK)	UG/KG	: 10U
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0U
A78131	TOLUENE	UG/KG	: 5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0U
A34301	CHLOROBENZENE	UG/KG	: 5.0U
A78113	ETHYLBENZENE	UG/KG	: 5.0U
A77128	STYRENE	UG/KG	: 5.0U
A81551	XYLENE	UG/KG	: 5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE

: PENTANE	UG/G	; 1.2J
: HEXANEDIOIC ACID,MONO(2-ETHYLHEXYL)ESTER		
: UG/G	; 400	
: DIMETHYL NAPHTHALENE	UG/G	; 50J
: TRIMETHYL NAPHTHALENE	UG/G	; 30J
: OTHER PHTHALATES	UG/G	; 300J
: ALIPHATIC HYDROCARBONS	UG/G	; 600J
)THER ORGANIC COMPOUNDS	UG/G	; 3000J

J Hurley 1-11-89

D069372

IEPA - CLP
CHAIN OF CUSTODY

NOV 30 1988

Seal #: 3377

Date Sealed: 11/28/88 By: AWU

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069372	X105	11-29-88	12:56-12:58

Sample Appearance : Brownish

Collector Comments:

Sampler Signature : Gregory W. [illegible] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-29-88	12:56
2	12	2oz		VOA	N	11-29-88	12:58

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15 pm Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 1:40 pm Seal #: 0003372 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869372
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X105

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1256 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	40U
A39338	BETA-BHC	UG/KG	40U
P34262	DELTA-BHC	UG/KG	40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	40U
P39413	HEPTACHLOR	UG/KG	40U
P39333	ALDRIN	UG/KG	40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	40U
P34364	ENDOSULFAN I	UG/KG	40U
P39383	DIELDRIN	UG/KG	80U
P39321	P,P'-DDE	UG/KG	80U
P39393	ENDRIN	UG/KG	80U
P34359	ENDOSULFAN II	UG/KG	80U
P39311	P,P'-DDD	UG/KG	80U
P34354	ENDOSULFAN SULFATE	UG/KG	80U
P39301	P,P'-DDT	UG/KG	80U
P39481	METHOXYCHLOR	UG/KG	400U
A78008	ENDRIN KETONE	UG/KG	80U
A39348	ALPHA-CHLORDANE	UG/KG	400U
P39811	GAMMA-CHLORDANE	UG/KG	400U
P39403	TOXAPHENE	UG/KG	800U
P39514	AROCHLOR 1016	UG/KG	400U
P39491	AROCHLOR 1221	UG/KG	400U
P39495	AROCHLOR 1232	UG/KG	400U
P39499	AROCHLOR 1242	UG/KG	400U
P39503	AROCHLOR 1248	UG/KG	400U
P39507	AROCHLOR 1254	UG/KG	400U
P39511	AROCHLOR 1260	UG/KG	400U
A34694	PHENOL	UG/KG	330U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	330U

SAMPLE NUMBER : D869372

586	2-CHLOROPHENOL	UG/KG :	330U
A34566	1,3-DICHLOROBENZENE	UG/KG :	330U
A34571	1,4-DICHLOROBENZENE	UG/KG :	330U
A77147	BENZYL ALCOHOL	UG/KG :	49J
A34536	1,2-DICHLOROBENZENE	UG/KG :	330U
A00000	2-METHYLPHENOL	UG/KG :	330U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	330U
A00000	4-METHYLPHENOL	UG/KG :	330U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	330U
A34396	HEXACHLOROETHANE	UG/KG :	330U
A34447	NITROBENZENE	UG/KG :	330U
A34408	ISOPHORONE	UG/KG :	330U
A34591	2-NITROPHENOL	UG/KG :	330U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	330U
A77247	BENZOIC ACID	UG/KG :	54J
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	330U
A34601	2,4-DICHLOROPHENOL	UG/KG :	330U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	330U
A34696	NAPHTHALENE	UG/KG :	47J
A00000	4-CHLOROANILINE	UG/KG :	330U
391	HEXACHLOROBUTADIENE	UG/KG :	330U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	330U
A77416	2-METHYLNAPHTHALENE	UG/KG :	25J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	330U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	330U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	1600U
A34581	2-CHLORONAPHTHALENE	UG/KG :	330U
A00000	2-NITROANILINE	UG/KG :	1600U
A34341	DIMETHYLPHTHALATE	UG/KG :	330U
A34200	ACENAPHTHYLENE	UG/KG :	330U
A34626	2,6-DINITROTOLUENE	UG/KG :	330U
A78300	3-NITROANILINE	UG/KG :	1600U
A34205	ACENAPHTHENE	UG/KG :	12J
A34616	2,4-DINITROPHENOL	UG/KG :	1600U
A34646	4-NITROPHENOL	UG/KG :	1600U
A81302	DIBENZOFURAN	UG/KG :	24J
A34611	2,4-DINITROTOLUENE	UG/KG :	330U
A34336	DIETHYLPHTHALATE	UG/KG :	27J
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	330U
A34381	FLUORENE	UG/KG :	10J
)00	4-NITROANILINE	UG/KG :	1600U
)00	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	1600U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	330U

SAMPLE NUMBER : D869372

536	4-BROMOPHENYL PHENYL ETHER	UG/KG	: 330U
A39700	HEXACHLOROBENZENE	UG/KG	: 330U
A39032	PENTACHLOROPHENOL	UG/KG	: 11J
A34461	PHENANTHRENE	UG/KG	: 110B
A34220	ANTHRACENE	UG/KG	: 21J
A39110	DI-N-BUTYLPHTHALATE	UG/KG	: 160B
A34376	FLUORANTHENE	UG/KG	: 200B
A34469	PYRENE	UG/KG	: 150B
A34292	BUTYL BENZYL PHTHALATE	UG/KG	: 330U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG	: 660U
A34526	BENZO(A)ANTHRACENE	UG/KG	: 90J
A34320	CHRYSENE	UG/KG	: 240J
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	: 330U
A34596	DI-N-OCTYLPHTHALATE	UG/KG	: 330U
A34230	BENZO(B)FLUORANTHENE	UG/KG	: 160J
A34242	BENZO(K)FLUORANTHENE	UG/KG	: 80J
A34247	BENZO(A)PYRENE	UG/KG	: 330U
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG	: 330U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG	: 330U
A34521	BENZO(GHI)PERYLENE	UG/KG	: 330U
118	CHLOROMETHANE	UG/KG	: 10U
A34413	BROMOMETHANE	UG/KG	: 10U
A39175	VINYL CHLORIDE	UG/KG	: 10U
A34311	CHLOROETHANE	UG/KG	: 10U
A34423	METHYLENE CHLORIDE	UG/KG	: 2.2B
A81552	ACETONE	UG/KG	: 8.1B
A77041	CARBON DISULFIDE	UG/KG	: 5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0U
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG	: 5.0U
A32106	CHLOROFORM	UG/KG	: 5.0U
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0U
A81595	2-BUTANONE(MEK)	UG/KG	: 1.6J
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0U
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0U
A77057	VINYL ACETATE	UG/KG	: 10U
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0U
[illegible]05	CHLORODIBROMOMETHANE	UG/KG	: 5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0U

SAMPLE NUMBER : D869372

/ :24	BENZENE	UG/KG	: 5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A32104	BROMOFORM	UG/KG	: 5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 10U
A77103	2-HEXANONE(MBK)	UG/KG	: 10U
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0U
A78131	TOLUENE	UG/KG	: 5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0U
A34301	CHLOROBENZENE	UG/KG	: 5.0U
A78113	ETHYLBENZENE	UG/KG	: 5.0U
A77128	STYRENE	UG/KG	: 5.0U
A81551	XYLENE	UG/KG	: 5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE

: OTHER PHTHALATES	UG/G	; 150J
: ALIPHATIC HYDROCARBONS	UG/G	; 30J
: OTHER ORGANIC COMPOUNDS	UG/G	; 1000J

J Hurley 1-11-89

IEPA - CLP
CHAIN OF CUSTODY

D069373

NOV 30 1988

Seal #: 3377

Date Sealed: 11/28/88 By AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069373	X106	11-29-88	1:38p

Sample Appearance : Brown to Black

Collector Comments:

Sampler Signature : Gregory W. Dunn Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-29-88	1:38p
2	12	2oz		VOA	N	11-29-88	1:37p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15pm Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 1:40pm Seal #: 003378 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869373
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X106

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1138 SAMPLING PROGRAM :

COLLECTED BY : G DUNN DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	: 40U
A39338	BETA-BHC	UG/KG	: 40U
P34262	DELTA-BHC	UG/KG	: 40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	: 40U
P39413	HEPTACHLOR	UG/KG	: 40U
P39333	ALDRIN	UG/KG	: 40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	: 40U
P34364	ENDOSULFAN I	UG/KG	: 40U
P39383	DIELDRIN	UG/KG	: 80U
P39321	P,P'-DDE	UG/KG	: 80U
P39393	ENDRIN	UG/KG	: 80U
P34359	ENDOSULFAN II	UG/KG	: 80U
P39311	P,P'-DDD	UG/KG	: 80U
P34354	ENDOSULFAN SULFATE	UG/KG	: 80U
P39301	P,P'-DDT	UG/KG	: 80U
P39481	METHOXYCHLOR	UG/KG	: 400U
A78008	ENDRIN KETONE	UG/KG	: 80U
A39348	ALPHA-CHLORDANE	UG/KG	: 400U
P39811	GAMMA-CHLORDANE	UG/KG	: 400U
P39403	TOXAPHENE	UG/KG	: 800U
P39514	AROCHLOR 1016	UG/KG	: 400U
P39491	AROCHLOR 1221	UG/KG	: 400U
P39495	AROCHLOR 1232	UG/KG	: 400U
P39499	AROCHLOR 1242	UG/KG	: 400U
P39503	AROCHLOR 1248	UG/KG	: 400U
P39507	AROCHLOR 1254	UG/KG	: 400U
P39511	AROCHLOR 1260	UG/KG	: 400U
A34694	PHENOL	UG/KG	: 330U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	: 330U

SAMPLE NUMBER : D869373

586	2-CHLOROPHENOL	UG/KG :	330U
A34566	1,3-DICHLOROBENZENE	UG/KG :	330U
A34571	1,4-DICHLOROBENZENE	UG/KG :	330U
A77147	BENZYL ALCOHOL	UG/KG :	330U
A34536	1,2-DICHLOROBENZENE	UG/KG :	330U
A00000	2-METHYLPHENOL	UG/KG :	330U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	330U
A00000	4-METHYLPHENOL	UG/KG :	330U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	330U
A34396	HEXACHLOROETHANE	UG/KG :	330U
A34447	NITROBENZENE	UG/KG :	330U
A34408	ISOPHORONE	UG/KG :	330U
A34591	2-NITROPHENOL	UG/KG :	330U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	330U
A77247	BENZOIC ACID	UG/KG :	1600U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	330U
A34601	2,4-DICHLOROPHENOL	UG/KG :	330U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	330U
A34696	NAPHTHALENE	UG/KG :	9.0J
A00000	4-CHLOROANILINE	UG/KG :	330U
391	HEXACHLOROBUTADIENE	UG/KG :	330U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	330U
A77416	2-METHYLNAPHTHALENE	UG/KG :	7.0J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	330U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	330U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	1600U
A34581	2-CHLORONAPHTHALENE	UG/KG :	330U
A00000	2-NITROANILINE	UG/KG :	1600U
A34341	DIMETHYLPHTHALATE	UG/KG :	330U
A34200	ACENAPHTHYLENE	UG/KG :	330U
A34626	2,6-DINITROTOLUENE	UG/KG :	330U
A78300	3-NITROANILINE	UG/KG :	1600U
A34205	ACENAPHTHENE	UG/KG :	9.0J
A34616	2,4-DINITROPHENOL	UG/KG :	1600U
A34646	4-NITROPHENOL	UG/KG :	1600U
A81302	DIBENZOFURAN	UG/KG :	9.0J
A34611	2,4-DINITROTOLUENE	UG/KG :	330U
A34336	DIETHYLPHTHALATE	UG/KG :	21J
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	330U
A34381	FLUORENE	UG/KG :	6.0J
)00	4-NITROANILINE	UG/KG :	1600U
)00	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	1600U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	330U

SAMPLE NUMBER : D869373

536	4-BROMOPHENYL PHENYL ETHER	UG/KG	: 330U
A39700	HEXACHLOROBENZENE	UG/KG	: 330U
A39032	PENTACHLOROPHENOL	UG/KG	: 1600U
A34461	PHENANTHRENE	UG/KG	: 130B
A34220	ANTHRACENE	UG/KG	: 31J
A39110	DI-N-BUTYLPHTHALATE	UG/KG	: 87B
A34376	FLUORANTHENE	UG/KG	: 150B
A34469	PYRENE	UG/KG	: 130B
A34292	BUTYL BENZYL PHTHALATE	UG/KG	: 330U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG	: 660U
A34526	BENZO(A)ANTHRACENE	UG/KG	: 150J
A34320	CHRYSENE	UG/KG	: 330U
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	: 1200
A34596	DI-N-OCTYLPHTHALATE	UG/KG	: 330U
A34230	BENZO(B)FLUORANTHENE	UG/KG	: 42J
A34242	BENZO(K)FLUORANTHENE	UG/KG	: 65J
A34247	BENZO(A)PYRENE	UG/KG	: 330U
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG	: 330U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG	: 330U
A34521	BENZO(GHI)PERYLENE	UG/KG	: 330U
[illegible]118	CHLOROMETHANE	UG/KG	: 10U
A34413	BROMOMETHANE	UG/KG	: 10U
A39175	VINYL CHLORIDE	UG/KG	: 10U
A34311	CHLOROETHANE	UG/KG	: 10U
A34423	METHYLENE CHLORIDE	UG/KG	: 4.0B
A81552	ACETONE	UG/KG	: 7.8B
A77041	CARBON DISULFIDE	UG/KG	: 5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0U
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG	: 5.0U
A32106	CHLOROFORM	UG/KG	: 5.0U
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0U
A81595	2-BUTANONE(MEK)	UG/KG	: 2.7J
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0U
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0U
A77057	VINYL ACETATE	UG/KG	: 10U
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0U
A[illegible]05	CHLORODIBROMOMETHANE	UG/KG	: 5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0U

SAMPLE NUMBER : D869373

124	BENZENE	UG/KG	: 5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A32104	BROMOFORM	UG/KG	: 5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 10U
A77103	2-HEXANONE(MBK)	UG/KG	: 10U
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0U
A78131	TOLUENE	UG/KG	: 5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0U
A34301	CHLOROBENZENE	UG/KG	: 5.0U
A78113	ETHYLBENZENE	UG/KG	: 5.0U
A77128	STYRENE	UG/KG	: 5.0U
A81551	XYLENE	UG/KG	: 5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE

: PENTANE	UG/G	; 4.1J
: OTHER PHTHALATES	UG/G	; 200J
: OTHER ORGANIC COMPOUNDS	UG/G	; 2000J

J. Heney 1-11-89

DU673/4

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3377

Date Sealed: 11/28/88 By: AWU

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X107	11-29-88	1:58

Sample Appearance :

Collector Comments:

Sampler Signature : Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-29-88	1:58
2	12	2oz		VOA	N	11-29-88	1:58

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15 p Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 1:40 pm Seal #: 0003378 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869374
PLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X107

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1358 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	: 40U
A39338	BETA-BHC	UG/KG	: 40U
P34262	DELTA-BHC	UG/KG	: 40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	: 40U
P39413	HEPTACHLOR	UG/KG	: 40U
P39333	ALDRIN	UG/KG	: 40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	: 40U
P34364	ENDOSULFAN I	UG/KG	: 40U
P39383	DIELDRIN	UG/KG	: 80U
P39321	P,P'-DDE	UG/KG	: 80U
P39393	ENDRIN	UG/KG	: 80U
P34359	ENDOSULFAN II	UG/KG	: 80U
P39311	P,P'-DDD	UG/KG	: 80U
P34354	ENDOSULFAN SULFATE	UG/KG	: 80U
P39301	P,P'-DDT	UG/KG	: 80U
P39481	METHOXYCHLOR	UG/KG	: 400U
A78008	ENDRIN KETONE	UG/KG	: 80U
A39348	ALPHA-CHLORDANE	UG/KG	: 400U
P39811	GAMMA-CHLORDANE	UG/KG	: 400U
P39403	TOXAPHENE	UG/KG	: 800U
P39514	AROCHLOR 1016	UG/KG	: 400U
P39491	AROCHLOR 1221	UG/KG	: 400U
P39495	AROCHLOR 1232	UG/KG	: 400U
P39499	AROCHLOR 1242	UG/KG	: 400U
P39503	AROCHLOR 1248	UG/KG	: 400U
P39507	AROCHLOR 1254	UG/KG	: 400U
P39511	AROCHLOR 1260	UG/KG	: 400U
A34694	PHENOL	UG/KG	: 2310U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	: 2310U

SAMPLE NUMBER : D869374

586	2-CHLOROPHENOL	UG/KG :	2310U
A34566	1,3-DICHLOROBENZENE	UG/KG :	2310U
A34571	1,4-DICHLOROBENZENE	UG/KG :	2310U
A77147	BENZYL ALCOHOL	UG/KG :	2310U
A34536	1,2-DICHLOROBENZENE	UG/KG :	2310U
A00000	2-METHYLPHENOL	UG/KG :	2310U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	2310U
A00000	4-METHYLPHENOL	UG/KG :	2310U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	2310U
A34396	HEXACHLOROETHANE	UG/KG :	2310U
A34447	NITROBENZENE	UG/KG :	2310U
A34408	ISOPHORONE	UG/KG :	2310U
A34591	2-NITROPHENOL	UG/KG :	2310U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	2310U
A77247	BENZOIC ACID	UG/KG :	11200U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	2310U
A34601	2,4-DICHLOROPHENOL	UG/KG :	2310U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	2310U
A34696	NAPHTHALENE	UG/KG :	9.0J
A00000	4-CHLOROANILINE	UG/KG :	2310U
391	HEXACHLOROBUTADIENE	UG/KG :	2310U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	2310U
A77416	2-METHYLNAPHTHALENE	UG/KG :	13J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	2310U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	2310U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	11200U
A34581	2-CHLORONAPHTHALENE	UG/KG :	2310U
A00000	2-NITROANILINE	UG/KG :	11200U
A34341	DIMETHYLPHTHALATE	UG/KG :	2310U
A34200	ACENAPHTHYLENE	UG/KG :	2310U
A34626	2,6-DINITROTOLUENE	UG/KG :	2310U
A78300	3-NITROANILINE	UG/KG :	11200U
A34205	ACENAPHTHENE	UG/KG :	2310U
A34616	2,4-DINITROPHENOL	UG/KG :	11200U
A34646	4-NITROPHENOL	UG/KG :	11200U
A81302	DIBENZOFURAN	UG/KG :	2310U
A34611	2,4-DINITROTOLUENE	UG/KG :	2310U
A34336	DIETHYLPHTHALATE	UG/KG :	24J
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	2310U
A34381	FLUORENE	UG/KG :	2310U
A[illegible]00	4-NITROANILINE	UG/KG :	11200U
A[illegible]00	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	11200U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	2310U

SAMPLE NUMBER : D869374

636	4-BROMOPHENYL PHENYL ETHER	UG/KG :	2310U
A39700	HEXACHLOROBENZENE	UG/KG :	2310U
A39032	PENTACHLOROPHENOL	UG/KG :	11200U
A34461	PHENANTHRENE	UG/KG :	180B
A34220	ANTHRACENE	UG/KG :	26J
A39110	DI-N-BUTYLPHTHALATE	UG/KG :	89B
A34376	FLUORANTHENE	UG/KG :	170B
A34469	PYRENE	UG/KG :	140B
A34292	BUTYL BENZYL PHTHALATE	UG/KG :	2310U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG :	4620U
A34526	BENZO(A)ANTHRACENE	UG/KG :	2310U
A34320	CHRYSENE	UG/KG :	2310U
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG :	6600
A34596	DI-N-OCTYLPHTHALATE	UG/KG :	2310U
A34230	BENZO(B)FLUORANTHENE	UG/KG :	2310U
A34242	BENZO(K)FLUORANTHENE	UG/KG :	2310U
A34247	BENZO(A)PYRENE	UG/KG :	2310U
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG :	2310U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG :	2310U
A34521	BENZO(GHI)PERYLENE	UG/KG :	2310U
418	CHLOROMETHANE	UG/KG :	10U
A34413	BROMOMETHANE	UG/KG :	10U
A39175	VINYL CHLORIDE	UG/KG :	10U
A34311	CHLOROETHANE	UG/KG :	10U
A34423	METHYLENE CHLORIDE	UG/KG :	2.0B
A81552	ACETONE	UG/KG :	5.1B
A77041	CARBON DISULFIDE	UG/KG :	5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG :	5.0U
A34496	1,1-DICHLOROETHANE	UG/KG :	5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG :	5.0U
A32106	CHLOROFORM	UG/KG :	5.0U
A34531	1,2-DICHLOROETHANE	UG/KG :	5.0U
A81595	2-BUTANONE(MEK)	UG/KG :	2.2J
A34506	1,1,1-TRICHLOROETHANE	UG/KG :	5.0U
A32102	CARBON TETRACHLORIDE	UG/KG :	5.0U
A77057	VINYL ACETATE	UG/KG :	10U
A32101	DICHLOROBROMOMETHANE	UG/KG :	5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG :	5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG :	5.0U
A39180	TRICHLOROETHYLENE	UG/KG :	5.0U
A32105	CHLORODIBROMOMETHANE	UG/KG :	5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG :	5.0U

SAMPLE NUMBER : D869374

124	BENZENE	UG/KG	: 5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A32104	BROMOFORM	UG/KG	: 5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 10U
A77103	2-HEXANONE(MBK)	UG/KG	: 10U
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0U
A78131	TOLUENE	UG/KG	: 5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0U
A34301	CHLOROBENZENE	UG/KG	: 5.0U
A78113	ETHYLBENZENE	UG/KG	: 5.0U
A77128	STYRENE	UG/KG	: 5.0U
A81551	XYLENE	UG/KG	: 5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: HEXANEDIOIC ACID,MONO(2-ETHYLHEXYL)ESTER
: UG/G ; 700J

: OTHER PHTHALATES UG/G ; 40J
: OTHER ORGANIC COMPOUNDS UG/G ; 800J

J Hurley
1-11-89

D069375

NOV 30 1988

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3377

Date Sealed: 11/28/88 By: AW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
D069375	X108	11-29-88	2:35p

Sample Appearance :

Collector Comments:

Sampler Signature : Gary Reside Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-29-88	2:35
2	12	2oz		VOA	N	11-29-88	2:35

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15p Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin **Signature:** Deanne Virgin

Date: 11/30/88 **Time:** 1:40 pm **Seal #:** 003378 **Intact?:** (Y) / N

Lab Name: Springfield IEPA **Comments:**

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869375
PLING POINT DESC. : JENNISON WRIGHT.CORP/COLLINSVILLE/X108

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1435 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	40U
A39338	BETA-BHC	UG/KG	40U
P34262	DELTA-BHC	UG/KG	40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	40U
P39413	HEPTACHLOR	UG/KG	40U
P39333	ALDRIN	UG/KG	40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	40U
P34364	ENDOSULFAN I	UG/KG	40U
P39383	DIELDRIN	UG/KG	80U
P39321	P,P'-DDE	UG/KG	80U
P39393	ENDRIN	UG/KG	80U
P34359	ENDOSULFAN II	UG/KG	80U
P39311	P,P'-DDD	UG/KG	80U
P34354	ENDOSULFAN SULFATE	UG/KG	80U
P39301	P,P'-DDT	UG/KG	80U
P39481	METHOXYCHLOR	UG/KG	400U
A78008	ENDRIN KETONE	UG/KG	80U
A39348	ALPHA-CHLORDANE	UG/KG	400U
P39811	GAMMA-CHLORDANE	UG/KG	400U
P39403	TOXAPHENE	UG/KG	800U
P39514	AROCHLOR 1016	UG/KG	400U
P39491	AROCHLOR 1221	UG/KG	400U
P39495	AROCHLOR 1232	UG/KG	400U
P39499	AROCHLOR 1242	UG/KG	400U
P39503	AROCHLOR 1248	UG/KG	400U
P39507	AROCHLOR 1254	UG/KG	400U
P39511	AROCHLOR 1260	UG/KG	400U
A34694	PHENOL	UG/KG	41580U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	41580U

SAMPLE NUMBER : D869375

586	2-CHLOROPHENOL	UG/KG :	41580U
A34566	1,3-DICHLOROBENZENE	UG/KG :	41580U
A34571	1,4-DICHLOROBENZENE	UG/KG :	41580U
A77147	BENZYL ALCOHOL	UG/KG :	41580U
A34536	1,2-DICHLOROBENZENE	UG/KG :	41580U
A00000	2-METHYLPHENOL	UG/KG :	41580U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	41580U
A00000	4-METHYLPHENOL	UG/KG :	41580U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	41580U
A34396	HEXACHLOROETHANE	UG/KG :	41580U
A34447	NITROBENZENE	UG/KG :	41580U
A34408	ISOPHORONE	UG/KG :	41580U
A34591	2-NITROPHENOL	UG/KG :	41580U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	41580U
A77247	BENZOIC ACID	UG/KG :	201600U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	41580U
A34601	2,4-DICHLOROPHENOL	UG/KG :	41580U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	41580U
A34696	NAPHTHALENE	UG/KG :	1300J
A00000	4-CHLOROANILINE	UG/KG :	41580U
391	HEXACHLOROBUTADIENE	UG/KG :	41580U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	41580U
A77416	2-METHYLNAPHTHALENE	UG/KG :	490J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	41580U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	41580U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	201600U
A34581	2-CHLORONAPHTHALENE	UG/KG :	41580U
A00000	2-NITROANILINE	UG/KG :	201600U
A34341	DIMETHYLPHTHALATE	UG/KG :	41580U
A34200	ACENAPHTHYLENE	UG/KG :	41580U
A34626	2,6-DINITROTOLUENE	UG/KG :	41580U
A78300	3-NITROANILINE	UG/KG :	201600U
A34205	ACENAPHTHENE	UG/KG :	2100J
A34616	2,4-DINITROPHENOL	UG/KG :	201600U
A34646	4-NITROPHENOL	UG/KG :	201600U
A81302	DIBENZOFURAN	UG/KG :	1800J
A34611	2,4-DINITROTOLUENE	UG/KG :	41580U
A34336	DIETHYLPHTHALATE	UG/KG :	41580U
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	41580U
A34381	FLUORENE	UG/KG :	4200J
[illegible]000	4-NITROANILINE	UG/KG :	201600U
[illegible]000	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	201600U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	41580U

SAMPLE NUMBER : D869375

536	4-BROMOPHENYL PHENYL ETHER	UG/KG :	41580U
A39700	HEXACHLOROBENZENE	UG/KG :	41580U
A39032	PENTACHLOROPHENOL	UG/KG :	201600U
A34461	PHENANTHRENE	UG/KG :	28000B
A34220	ANTHRACENE	UG/KG :	35000J
A39110	DI-N-BUTYLPHTHALATE	UG/KG :	210B
A34376	FLUORANTHENE	UG/KG :	44000
A34469	PYRENE	UG/KG :	35000B
A34292	BUTYL BENZYL PHTHALATE	UG/KG :	41580U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG :	83160U
A34526	BENZO(A)ANTHRACENE	UG/KG :	14000J
A34320	CHRYSENE	UG/KG :	16000J
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG :	41580U
A34596	DI-N-OCTYLPHTHALATE	UG/KG :	41580U
A34230	BENZO(B)FLUORANTHENE	UG/KG :	7000J
A34242	BENZO(K)FLUORANTHENE	UG/KG :	41580U
A34247	BENZO(A)PYRENE	UG/KG :	8000J
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG :	41580U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG :	41580U
A34521	BENZO(GHI)PERYLENE	UG/KG :	41580U
[illegible]118	CHLOROMETHANE	UG/KG :	10U
A34413	BROMOMETHANE	UG/KG :	10U
A39175	VINYL CHLORIDE	UG/KG :	10U
A34311	CHLOROETHANE	UG/KG :	10U
A34423	METHYLENE CHLORIDE	UG/KG :	30B
A81552	ACETONE	UG/KG :	3.4B
A77041	CARBON DISULFIDE	UG/KG :	5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG :	5.0U
A34496	1,1-DICHLOROETHANE	UG/KG :	5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG :	5.0U
A32106	CHLOROFORM	UG/KG :	5.0U
A34531	1,2-DICHLOROETHANE	UG/KG :	5.0U
A81595	2-BUTANONE(MEK)	UG/KG :	10U
A34506	1,1,1-TRICHLOROETHANE	UG/KG :	5.0U
A32102	CARBON TETRACHLORIDE	UG/KG :	5.0U
A77057	VINYL ACETATE	UG/KG :	10U
A32101	DICHLOROBROMOMETHANE	UG/KG :	5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG :	5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG :	5.0U
A39180	TRICHLOROETHYLENE	UG/KG :	5.0U
A[illegible]05	CHLORODIBROMOMETHANE	UG/KG :	5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG :	5.0U

SAMPLE NUMBER : D869375

124	BENZENE	UG/KG :	5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG :	5.0U
A32104	BROMOFORM	UG/KG :	5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG :	10U
A77103	2-HEXANONE(MBK)	UG/KG :	10U
A34475	TETRACHLOROETHYLENE	UG/KG :	5.0U
A78131	TOLUENE	UG/KG :	5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG :	5.0U
A34301	CHLOROBENZENE	UG/KG :	5.0U
A78113	ETHYLBENZENE	UG/KG :	5.0U
A77128	STYRENE	UG/KG :	5.0U
A81551	XYLENE	UG/KG :	5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: OTHER ORGANIC COMPOUNDS UG/G ; 20J

J Hurley
1-11-89

D069376

NOV 30 1988

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3377

Date Sealed: 11/28/88 By: AWr

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X109	11-29-88	3:02 pm

Sample Appearance :

Collector Comments:

Sampler Signature : Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-29-88	3:02 p
2	12	2oz		VOA	N	11-29-88	3:02 p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15 pm Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanna Virgin **Signature:** Deanna Virgin

Date: 11/30/88 **Time:** 1:40 pm **Seal #:** 003378 **Intact?:** (Y) / N

Lab Name: Springfield IEPA **Comments:**

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869376
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X109

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1502 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	: 40U
A39338	BETA-BHC	UG/KG	: 40U
P34262	DELTA-BHC	UG/KG	: 40U
P39343	GAMMA-BHC (LINDANE)	UG/KG	: 40U
P39413	HEPTACHLOR	UG/KG	: 40U
P39333	ALDRIN	UG/KG	: 40U
P39423	HEPTACHLOR EPOXIDE	UG/KG	: 40U
P34364	ENDOSULFAN I	UG/KG	: 40U
P39383	DIELDRIN	UG/KG	: 80U
P39321	P,P'-DDE	UG/KG	: 80U
P39393	ENDRIN	UG/KG	: 80U
P34359	ENDOSULFAN II	UG/KG	: 80U
P39311	P,P'-DDD	UG/KG	: 80U
P34354	ENDOSULFAN SULFATE	UG/KG	: 80U
P39301	P,P'-DDT	UG/KG	: 80U
P39481	METHOXYCHLOR	UG/KG	: 400U
A78008	ENDRIN KETONE	UG/KG	: 80U
A39348	ALPHA-CHLORDANE	UG/KG	: 400U
P39811	GAMMA-CHLORDANE	UG/KG	: 400U
P39403	TOXAPHENE	UG/KG	: 800U
P39514	AROCHLOR 1016	UG/KG	: 400U
P39491	AROCHLOR 1221	UG/KG	: 400U
P39495	AROCHLOR 1232	UG/KG	: 400U
P39499	AROCHLOR 1242	UG/KG	: 400U
P39503	AROCHLOR 1248	UG/KG	: 400U
P39507	AROCHLOR 1254	UG/KG	: 400U
P39511	AROCHLOR 1260	UG/KG	: 400U
A34694	PHENOL	UG/KG	: 3960U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	: 3960U

SAMPLE NUMBER : D869376

A34586	2-CHLOROPHENOL	UG/KG :	3960U
4566	1,3-DICHLOROBENZENE	UG/KG :	3960U
A34571	1,4-DICHLOROBENZENE	UG/KG :	3960U
A77147	BENZYL ALCOHOL	UG/KG :	3960U
A34536	1,2-DICHLOROBENZENE	UG/KG :	3960U
A00000	2-METHYLPHENOL	UG/KG :	3960U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	3960U
A00000	4-METHYLPHENOL	UG/KG :	3960U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	3960U
A34396	HEXACHLOROETHANE	UG/KG :	3960U
A34447	NITROBENZENE	UG/KG :	3960U
A34408	ISOPHORONE	UG/KG :	3960U
A34591	2-NITROPHENOL	UG/KG :	3960U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	3960U
A77247	BENZOIC ACID	UG/KG :	19200U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	3960U
A34601	2,4-DICHLOROPHENOL	UG/KG :	3960U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	3960U
A34696	NAPHTHALENE	UG/KG :	2700J
A00000	4-CHLOROANILINE	UG/KG :	3960U
A34391	HEXACHLOROBUTADIENE	UG/KG :	3960U
452	4-CHLORO-3-METHYLPHENOL	UG/KG :	3960U
A77416	2-METHYLNAPHTHALENE	UG/KG :	560J
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	3960U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	3960U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	19200U
A34581	2-CHLORONAPHTHALENE	UG/KG :	3960U
A00000	2-NITROANILINE	UG/KG :	19200U
A34341	DIMETHYLPHTHALATE	UG/KG :	3960U
A34200	ACENAPHTHYLENE	UG/KG :	400J
A34626	2,6-DINITROTOLUENE	UG/KG :	3960U
A78300	3-NITROANILINE	UG/KG :	19200U
A34205	ACENAPHTHENE	UG/KG :	420J
A34616	2,4-DINITROPHENOL	UG/KG :	19200U
A34646	4-NITROPHENOL	UG/KG :	19200U
A81302	DIBENZOFURAN	UG/KG :	2000J
A34611	2,4-DINITROTOLUENE	UG/KG :	3960U
A34336	DIETHYLPHTHALATE	UG/KG :	3960U
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	3960U
A34381	FLUORENE	UG/KG :	200J
A00000	4-NITROANILINE	UG/KG :	19200U
A 00	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	19200U
A 33	N-NITROSODIPHENYLAMINE	UG/KG :	3960U

SAMPLE NUMBER : D869376

536	4-BROMOPHENYL PHENYL ETHER	UG/KG :	3960U
A39700	HEXACHLOROBENZENE	UG/KG :	3960U
A39032	PENTACHLOROPHENOL	UG/KG :	19200U
A34461	PHENANTHRENE	UG/KG :	12000B
A34220	ANTHRACENE	UG/KG :	2400J
A39110	DI-N-BUTYLPHTHALATE	UG/KG :	150B
A34376	FLUORANTHENE	UG/KG :	24000B
A34469	PYRENE	UG/KG :	25000B
A34292	BUTYL BENZYL PHTHALATE	UG/KG :	3960U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG :	7920U
A34526	BENZO(A)ANTHRACENE	UG/KG :	14000
A34320	CHRYSENE	UG/KG :	28000
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG :	27000
A34596	DI-N-OCTYLPHTHALATE	UG/KG :	3960U
A34230	BENZO(B)FLUORANTHENE	UG/KG :	21000
A34242	BENZO(K)FLUORANTHENE	UG/KG :	16000
A34247	BENZO(A)PYRENE	UG/KG :	14000
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG :	21000
A34556	DIBENZO(AH)ANTHRACENE	UG/KG :	3500J
A34521	BENZO(GHI)PERYLENE	UG/KG :	23000
[illegible]18	CHLOROMETHANE	UG/KG :	10U
A34413	BROMOMETHANE	UG/KG :	10U
A39175	VINYL CHLORIDE	UG/KG :	10U
A34311	CHLOROETHANE	UG/KG :	10U
A34423	METHYLENE CHLORIDE	UG/KG :	52B
A81552	ACETONE	UG/KG :	2.7B
A77041	CARBON DISULFIDE	UG/KG :	5.0U
A34501	1,1-DICHLOROETHYLENE	UG/KG :	5.0U
A34496	1,1-DICHLOROETHANE	UG/KG :	5.0U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG :	5.0U
A32106	CHLOROFORM	UG/KG :	5.0U
A34531	1,2-DICHLOROETHANE	UG/KG :	5.0U
A81595	2-BUTANONE(MEK)	UG/KG :	10U
A34506	1,1,1-TRICHLOROETHANE	UG/KG :	5.0U
A32102	CARBON TETRACHLORIDE	UG/KG :	5.0U
A77057	VINYL ACETATE	UG/KG :	10U
A32101	DICHLOROBROMOMETHANE	UG/KG :	5.0U
A34541	1,2-DICHLOROPROPANE	UG/KG :	5.0U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG :	5.0U
A39180	TRICHLOROETHYLENE	UG/KG :	5.0U
A[illegible]05	CHLORODIBROMOMETHANE	UG/KG :	5.0U
A34511	1,1,2-TRICHLOROETHANE	UG/KG :	5.0U

SAMPLE NUMBER : D869376

124	BENZENE	UG/KG	: 5.0U
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0U
A32104	BROMOFORM	UG/KG	: 5.0U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 10U
A77103	2-HEXANONE(MBK)	UG/KG	: 10U
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0U
A78131	TOLUENE	UG/KG	: 5.0U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0U
A34301	CHLOROBENZENE	UG/KG	: 5.0U
A78113	ETHYLBENZENE	UG/KG	: 5.0U
A77128	STYRENE	UG/KG	: 5.0U
A81551	XYLENE	UG/KG	: 5.0U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE

: 9,10-ANTHRACENEDIONE	UG/G	; 120J
: BENZO(C)CINNOLINE	UG/G	; 170J
: BENZO(B)NAPHTHO(2,3-D)FURAN	UG/G	; 60J
: BENZO(GHI)FLUORANTHENE	UG/G	; 270J
: BENZO(J)FLUORANTHENE	UG/G	; 1000J
: OTHER ORGANIC COMPOUNDS	UG/G	; 3000J

R Hurley 1-11-89

IEPA - CLP
CHAIN OF CUSTODY

D069377

NOV 30 1988

Seal #: 3377

Date Sealed: 11/28/88 By: AWU

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X110	11-29-88	3:20pm

Sample Appearance :

Collector Comments:

Sampler Signature : Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		BNA, PEST/PCB	N	11-29-88	3:21
2	12	2oz		VOA	N	11-29-88	3:20

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 10:30 Seal #: 3377 Intact?: Y/ N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 5:15pm Seal #: 3378

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 1:40 pm Seal #: 003378 Intact?: Y/ N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869377
SAMPLING POINT DESC. : JENNISON WRIGHT CORP/COLLINSVILLE/X110

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 1520 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : BNA/PEST/PCB'S/VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 QT & 2-3OZ SOIL TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39076	ALPHA-BHC	UG/KG	80U
A39338	BETA-BHC	UG/KG	80U
P34262	DELTA-BHC	UG/KG	80U
P39343	GAMMA-BHC (LINDANE)	UG/KG	80U
P39413	HEPTACHLOR	UG/KG	80U
P39333	ALDRIN	UG/KG	80U
P39423	HEPTACHLOR EPOXIDE	UG/KG	80U
P34364	ENDOSULFAN I	UG/KG	80U
P39383	DIELDRIN	UG/KG	160U
P39321	P,P'-DDE	UG/KG	160U
P39393	ENDRIN	UG/KG	160U
P34359	ENDOSULFAN II	UG/KG	160U
P39311	P,P'-DDD	UG/KG	160U
P34354	ENDOSULFAN SULFATE	UG/KG	160U
P39301	P,P'-DDT	UG/KG	160U
P39481	METHOXYCHLOR	UG/KG	800U
A78008	ENDRIN KETONE	UG/KG	160U
A39348	ALPHA-CHLORDANE	UG/KG	800U
P39811	GAMMA-CHLORDANE	UG/KG	800U
P39403	TOXAPHENE	UG/KG	1600U
P39514	AROCHLOR 1016	UG/KG	800U
P39491	AROCHLOR 1221	UG/KG	800U
P39495	AROCHLOR 1232	UG/KG	800U
P39499	AROCHLOR 1242	UG/KG	800U
P39503	AROCHLOR 1248	UG/KG	800U
P39507	AROCHLOR 1254	UG/KG	800U
P39511	AROCHLOR 1260	UG/KG	800U
A34694	PHENOL	UG/KG	559350U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	559350U

SAMPLE NUMBER : D869377

586	2-CHLOROPHENOL	UG/KG :	559350U
A34566	1,3-DICHLOROBENZENE	UG/KG :	559350U
A34571	1,4-DICHLOROBENZENE	UG/KG :	559350U
A77147	BENZYL ALCOHOL	UG/KG :	559350U
A34536	1,2-DICHLOROBENZENE	UG/KG :	559350U
A00000	2-METHYLPHENOL	UG/KG :	559350U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG :	559350U
A00000	4-METHYLPHENOL	UG/KG :	559350U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG :	559350U
A34396	HEXACHLOROETHANE	UG/KG :	559350U
A34447	NITROBENZENE	UG/KG :	559350U
A34408	ISOPHORONE	UG/KG :	559350U
A34591	2-NITROPHENOL	UG/KG :	559350U
A34606	2,4-DIMETHYLPHENOL	UG/KG :	559350U
A77247	BENZOIC ACID	UG/KG :	2712000U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG :	559350U
A34601	2,4-DICHLOROPHENOL	UG/KG :	559350U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG :	559350U
A34696	NAPHTHALENE	UG/KG :	11000J
A00000	4-CHLOROANILINE	UG/KG :	559350U
391	HEXACHLOROBUTADIENE	UG/KG :	559350U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG :	559350U
A77416	2-METHYLNAPHTHALENE	UG/KG :	559350U
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG :	559350U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG :	559350U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG :	2712000U
A34581	2-CHLORONAPHTHALENE	UG/KG :	559350U
A00000	2-NITROANILINE	UG/KG :	2712000U
A34341	DIMETHYLPHTHALATE	UG/KG :	559350U
A34200	ACENAPHTHYLENE	UG/KG :	559350U
A34626	2,6-DINITROTOLUENE	UG/KG :	559350U
A78300	3-NITROANILINE	UG/KG :	2712000U
A34205	ACENAPHTHENE	UG/KG :	28000J
A34616	2,4-DINITROPHENOL	UG/KG :	2712000U
A34646	4-NITROPHENOL	UG/KG :	2712000U
A81302	DIBENZOFURAN	UG/KG :	10000J
A34611	2,4-DINITROTOLUENE	UG/KG :	559350U
A34336	DIETHYLPHTHALATE	UG/KG :	16000J
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	559350U
A34381	FLUORENE	UG/KG :	559350U
A00000	4-NITROANILINE	UG/KG :	2712000U
000	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	2712000U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	559350U

SAMPLE NUMBER : D869377

536	4-BROMOPHENYL PHENYL ETHER	UG/KG	: 559350U
A39700	HEXACHLOROBENZENE	UG/KG	: 559350U
A39032	PENTACHLOROPHENOL	UG/KG	: 28000J
A34461	PHENANTHRENE	UG/KG	: 160000B
A34220	ANTHRACENE	UG/KG	: 410000J
A39110	DI-N-BUTYLPHTHALATE	UG/KG	: 559350U
A34376	FLUORANTHENE	UG/KG	: 1900000
A34469	PYRENE	UG/KG	: 1500000
A34292	BUTYL BENZYL PHTHALATE	UG/KG	: 559350U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG	: 1118700U
A34526	BENZO(A)ANTHRACENE	UG/KG	: 530000J
A34320	CHRYSENE	UG/KG	: 580000
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	: 559350U
A34596	DI-N-OCTYLPHTHALATE	UG/KG	: 559350U
A34230	BENZO(B)FLUORANTHENE	UG/KG	: 190000J
A34242	BENZO(K)FLUORANTHENE	UG/KG	: 559350U
A34247	BENZO(A)PYRENE	UG/KG	: 140000J
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG	: 559350U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG	: 559350U
A34521	BENZO(GHI)PERYLENE	UG/KG	: 559350U
118	CHLOROMETHANE	UG/KG	: 20U
A34413	BROMOMETHANE	UG/KG	: 20U
A39175	VINYL CHLORIDE	UG/KG	: 20U
A34311	CHLOROETHANE	UG/KG	: 20U
A34423	METHYLENE CHLORIDE	UG/KG	: 46B
A81552	ACETONE	UG/KG	: 4.8B
A77041	CARBON DISULFIDE	UG/KG	: 10U
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 10U
A34496	1,1-DICHLOROETHANE	UG/KG	: 10U
A00000	1,2-DICHLOROETHYLENE (TOTAL)	UG/KG	: 10U
A32106	CHLOROFORM	UG/KG	: 10U
A34531	1,2-DICHLOROETHANE	UG/KG	: 10U
A81595	2-BUTANONE(MEK)	UG/KG	: 3.7J
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 10U
A32102	CARBON TETRACHLORIDE	UG/KG	: 10U
A77057	VINYL ACETATE	UG/KG	: 20U
A32101	DICHLOROBROMOMETHANE	UG/KG	: 10U
A34541	1,2-DICHLOROPROPANE	UG/KG	: 10U
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 10U
A39180	TRICHLOROETHYLENE	UG/KG	: 10U
A32105	CHLORODIBROMOMETHANE	UG/KG	: 10U
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 10U

SAMPLE NUMBER : D869377

:	24 BENZENE	UG/KG	: 10U
	99 TRANS-1,3-DICHLOROPROPENE	UG/KG	: 10U
A32104	BROMOFORM	UG/KG	: 10U
A78133	4-METHYL-2-PENTANONE (MIBK)	UG/KG	: 20U
A77103	2-HEXANONE(MBK)	UG/KG	: 20U
A34475	TETRACHLOROETHYLENE	UG/KG	: 10U
A78131	TOLUENE	UG/KG	: 10U
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 10U
A34301	CHLOROBENZENE	UG/KG	: 10U
A78113	ETHYLBENZENE	UG/KG	: 10U
A77128	STYRENE	UG/KG	: 10U
A81551	XYLENE	UG/KG	: 10U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE

: 9,10-ANTHRACENDIONE	UG/G	; 20J
: METHYL ANTHRACENE	UG/G	; 20J
: METHYL PHENANTHRENE	UG/G	; 80J
: OTHER ORGANIC COMPOUNDS	UG/G	; 300J

J Hurley

IEPA - CLP
CHAIN OF CUSTODY

D069379

NOV 30 1988

Seal #: 3369

Date Sealed: 11/28/88 By: AWW

Facility Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME

Sample Appearance :

Collector Comments:

Sampler Signature : Division/Company

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
2	8	40ml	—	TRIP BLANK			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 11-29-88 Time: 8:25 Am Seal #: 3369 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 11-29-88 Time: 5:15 p Seal #: 3370

Courier - sample pickup: IEPA Personnel

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Deanne Virgin Signature: Deanne Virgin

Date: 11/30/88 Time: 310 Seal #: 000 3370 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869379
)LING POINT DESC. : BLANKS W/69367 69378

SUBMITTING SOURCE # : SITE # : 1190400008
DATE COLLECTED : 881129 TIME COLLECTED : 0840 SAMPLING PROGRAM :

COLLECTED BY : G RESIDE DELIVERED BY : G D
COMMENTS : VOA
FUNDING CODE : SA06 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 881130 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 BLANKS TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P34418	CHLOROMETHANE	UG/L	10U
P34413	BROMOMETHANE	UG/L	10U
P39175	VINYL CHLORIDE	UG/L	10U
P34311	CHLOROETHANE	UG/L	10U
P34423	METHYLENE CHLORIDE	UG/L	2.9J
P81552	ACETONE	UG/L	9.0J
P77041	CARBON DISULFIDE	UG/L	5.0U
P34501	1,1-DICHLOROETHYLENE	UG/L	5.0U
P34496	1,1-DICHLOROETHANE	UG/L	5.0U
)000	1,2-DICHLOROETHYLENE (TOTAL)	UG/L	5.0U
P32106	CHLOROFORM	UG/L	5.0U
P34531	1,2-DICHLOROETHANE	UG/L	5.0U
P81595	2-BUTANONE(MEK)	UG/L	10U
P34506	1,1,1-TRICHLOROETHANE	UG/L	5.0U
P32102	CARBON TETRACHLORIDE	UG/L	5.0U
P77057	VINYL ACETATE	UG/L	10U
P32101	DICHLOROBROMOMETHANE	UG/L	5.0U
P34541	1,2-DICHLOROPROPANE	UG/L	5.0U
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	5.0U
P39180	TRICHLOROETHYLENE	UG/L	5.0U
P32105	CHLORODIBROMOMETHANE	UG/L	5.0U
P34511	1,1,2-TRICHLOROETHANE	UG/L	5.0U
P78124	BENZENE	UG/L	5.0U
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	5.0U
P32104	BROMOFORM	UG/L	5.0U
P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	10U
P77103	2-HEXANONE(MBK)	UG/L	10U
P34475	TETRACHLOROETHYLENE	UG/L	5.0U
P78131	TOLUENE	UG/L	5.0U

SAMPLE NUMBER : D869379

1 316	1,1,2,2-TETRACHLOROETHANE	UG/L : 5.0U
1 301	CHLOROBENZENE	UG/L : 5.0U
P78113	ETHYLBENZENE	UG/L : 5.0U
P77128	STYRENE	UG/L : 5.0U
P81551	XYLENE	UG/L : 5.0U

J. Hurley

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D869485
)LING POINT DESC. : SPFLD LAB SUR->1 W/69368-77

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 881205 TIME COLLECTED : 1000 SAMPLING PROGRAM :

COLLECTED BY : JTS DELIVERED BY : JTS
COMMENTS : QC
FUNDING CODE : AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : QCBL SAMPLE PURPOSE CODE : - REPORTING INDICATOR : B

DATE RECEIVED : 881205 TIME RECEIVED : 1000 RECEIVED BY : JTS
LAB OBSERVATIONS : JTS SONX B5P3 TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A34694	PHENOL	UG/KG	: 330U
A34273	BIS(2-CHLOROETHYL)ETHER	UG/KG	: 330U
A34586	2-CHLOROPHENOL	UG/KG	: 330U
A34566	1,3-DICHLOROBENZENE	UG/KG	: 330U
A34571	1,4-DICHLOROBENZENE	UG/KG	: 330U
A77147	BENZYL ALCOHOL	UG/KG	: 330U
A34536	1,2-DICHLOROBENZENE	UG/KG	: 330U
A00000	2-METHYLPHENOL	UG/KG	: 330U
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	: 330U
)00	4-METHYLPHENOL	UG/KG	: 330U
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/KG	: 330U
A34396	HEXACHLOROETHANE	UG/KG	: 330U
A34447	NITROBENZENE	UG/KG	: 330U
A34408	ISOPHORONE	UG/KG	: 330U
A34591	2-NITROPHENOL	UG/KG	: 330U
A34606	2,4-DIMETHYLPHENOL	UG/KG	: 330U
A77247	BENZOIC ACID	UG/KG	: 1600U
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/KG	: 330U
A34601	2,4-DICHLOROPHENOL	UG/KG	: 330U
A34551	1,2,4-TRICHLOROBENZENE	UG/KG	: 330U
A34696	NAPHTHALENE	UG/KG	: 330U
A00000	4-CHLOROANILINE	UG/KG	: 330U
A34391	HEXACHLOROBUTADIENE	UG/KG	: 330U
A34452	4-CHLORO-3-METHYLPHENOL	UG/KG	: 330U
A77416	2-METHYLNAPHTHALENE	UG/KG	: 330U
A34386	HEXACHLOROCYCLOPENTADIENE	UG/KG	: 330U
A34621	2,4,6-TRICHLOROPHENOL	UG/KG	: 330U
A77687	2,4,5-TRICHLOROPHENOL	UG/KG	: 1600U
A34581	2-CHLORONAPHTHALENE	UG/KG	: 330U

SAMPLE NUMBER : D869485

A[illegible]00	2-NITROANILINE	UG/KG :	1600U
A[illegible]41	DIMETHYLPHTHALATE	UG/KG :	330U
A34200	ACENAPHTHYLENE	UG/KG :	330U
A34626	2,6-DINITROTOLUENE	UG/KG :	330U
A78300	3-NITROANILINE	UG/KG :	1600U
A34205	ACENAPHTHENE	UG/KG :	330U
A34616	2,4-DINITROPHENOL	UG/KG :	1600U
A34646	4-NITROPHENOL	UG/KG :	1600U
A81302	DIBENZOFURAN	UG/KG :	330U
A34611	2,4-DINITROTOLUENE	UG/KG :	330U
A34336	DIETHYLPHTHALATE	UG/KG :	32J
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/KG :	330U
A34381	FLUORENE	UG/KG :	330U
A00000	4-NITROANILINE	UG/KG :	1600U
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/KG :	1600U
A34433	N-NITROSODIPHENYLAMINE	UG/KG :	330U
A34636	4-BROMOPHENYL PHENYL ETHER	UG/KG :	330U
A39700	HEXACHLOROBENZENE	UG/KG :	330U
A39032	PENTACHLOROPHENOL	UG/KG :	1600U
A34461	PHENANTHRENE	UG/KG :	5.0J
A[illegible]20	ANTHRACENE	UG/KG :	330U
[illegible]10	DI-N-BUTYLPHTHALATE	UG/KG :	79J
A34376	FLUORANTHENE	UG/KG :	17J
A34469	PYRENE	UG/KG :	17J
A34292	BUTYL BENZYL PHTHALATE	UG/KG :	330U
A34631	3,3'-DICHLOROBENZIDINE	UG/KG :	660U
A34526	BENZO(A)ANTHRACENE	UG/KG :	330U
A34320	CHRYSENE	UG/KG :	330U
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG :	330U
A34596	DI-N-OCTYLPHTHALATE	UG/KG :	330U
A34230	BENZO(B)FLUORANTHENE	UG/KG :	330U
A34242	BENZO(K)FLUORANTHENE	UG/KG :	330U
A34247	BENZO(A)PYRENE	UG/KG :	330U
A34403	INDENO(1,2,3-CD)PYRENE	UG/KG :	330U
A34556	DIBENZO(AH)ANTHRACENE	UG/KG :	330U
A34521	BENZO(GHI)PERYLENE	UG/KG :	330U

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: OTHER PHTHALATES UG/KG ; 600
: OTHER ORGANIC COMPOUNDS UG/KG ; 2600

Page 1 of 1 Inorganic

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 1190400008 County Madison

Federal I.D. No. 006282479 Jennison-Wright (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed	
G-201	GWD	5	11-29-88	12:50	AM/PM
G-202	GWD	5	11-29-88	12:50	AM/PM
X101	GWD	1	11-29-88	4:45	AM/PM
X102	GWD	1	11-29-88	4:45	AM/PM
X103	GWD	1	11-29-88	4:45	AM/PM
X104	GWD	1	11-29-88	4:45	AM/PM
X105	GWD	1	11-29-88	4:45	AM/PM
X106	GWD	1	11-29-88	4:45	AM/PM
X107	GWD	1	11-29-88	4:45	AM/PM
X108	GWD	1	11-29-88	4:44	AM/PM
X109	GWD	1	11-29-88	4:45	AM/PM
X110	GWD	1	11-29-88	4:45	AM/PM

Sealer's Signature Gregory W. [illegible] Date 11-29-88 Time 4:45 AM/PM

Sampler(s) Gary Reside Ken Corkill

CARRIERS

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature Michael Darrin Date 11-30-88 Time 10:00 A.M. P.M.

Lab Location Champaign (City)

IL 532-1147

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3367

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816451	G201	11-29-88	8:50 A

Sample Appearance : Clear

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Gary Reside Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	3	11	GRN	TOTAL METALS	N	11-29-88	8:50 A
1	3	11	BLK	CYANIDE	N	11-29-88	8:50 A
1	3	11	PUP	SULFIDES	N	11-29-88	8:50 A
1	3	11		SULFATES	N	" "	8:50 A
1	10	500ml	GRY	MERCURY	N	" "	8:50 A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reside Signature: Gary Reside

Date: 11-29-88 Time: 8:30 AM Seal #: 3367 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 11-29-88 Time: 12:50 P Seal #: 3368

Courier - sample pickup: Fed Express

Courier - sample delivery: FedEx

I certify that the sample shipping container was received in the condition listed above with the seal intact and that the sample shipping container was sealed after receipt by the laboratory and that the sample will be in the custody of the laboratory personnel at all times or locked in a secure area.

Opened by (print): Michael Davison Signature: Michael Davison

Date: 11-30-88 Time: 10:00 A Seal #: 3368 Intact? (Y) / N

Lab Name: IEPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3367

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816452	C-202	11-29-88	10:00 - 10:15A

Sample Appearance : Slightly Silty

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Gregory W. Dunn Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	3	11	GRN	TOTAL METALS	Y	11-29-88	10:05A
1	3	11	BLK	CYANIDE	N	"	10:10A
1	3	11	PUP	SULFIDES	N	"	10:05A
1	3	11		SULFATES	N	"	10:00A
1	10	500ml	GRY	MERCURY	Y	"	10:15A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Gary Reicle Signature: Gary Reicle

Date: 11-29-88 Time: 8:30Am Seal #: 3367 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 11-29-88 Time: 12:50P Seal #: 3368

Courier - sample pickup: Fed Express

Courier - sample [illegible] FEDEX

I certify that [illegible] and that each bottle [illegible] the custody [illegible]

Opened by (print): [illegible] Signature: [illegible]

Date: 11-30-88 Time: [illegible] Seal #: [illegible] (Y) / N

Lab Name: IEPA - Champaign Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWC

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816441	X101	11-29-88	10:53 A

Sample Appearance : Black Soil

Collector Comments:

Sampler Signature : Gregory W. Dunn Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	10:53 A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28 Seal #: 3375 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45 P Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: [illegible]

I certify that I received the [illegible] intact and that each bottle in the shipping [illegible] will be in the custody of competent laboratory [illegible]

Opened by (print): Michael Davison [illegible]

Date: 11-30-88 Time: 10:00 A Seal #: 3376 Intact?: (Y) / N

Lab Name: IEPA - Champaign Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWU

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816442	X102	11-29-88	11:12A

Sample Appearance : Black - Some Organic Material

Collector Comments:

Sampler Signature : Gregory W. D— Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	11:12A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28A Seal #: 3375 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45P Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container [illegible] Intact and that each bottle [illegible] the sample will be in the custody [illegible]

Opened by (print): Michael Davison Signature: [illegible] Davison

Date: 11-30-88 Time: 10:00A Seal #: 3376 Intact? (Y) / N

Lab Name: IEPA Champaign Comment: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/98 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
unty: MADISON

Site Inventory # : IL190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816443	X103	11-29-88	11:20A

Sample Appearance : Black Soil

Collector Comments:

Sampler Signature : Gregory W. R Division/Company LPC/IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	11:20A

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: KWC 11-29-88 10:28A Seal #: 3375 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45P Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample on the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Michael Davison Signature: Michael Davison

Date: 11-30-88 Time: 10:00 A Seal #: 3376 Intact? (Y) / N

Lab Name: IEPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
egion: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816444	X104	11-29-88	12:40P

Sample Appearance : Brownish - Black

Collector Comments:

Sampler Signature : Gregory W. D[illegible] Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	12:40p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28 A Seal #: 3375 Intact? Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45p Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample [illegible] Fed Ex [illegible]

I certify that I received [illegible] seal intact and that each bottle in the [illegible] sample will be in the custody of competent [illegible]

Opened by (print): [illegible] Signature: [illegible]

Date: 11-30-88 Time: 10:00 A Seal #: 3376 Intact? Y / N

Lab Name: IEPA Champaign Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: KWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816445	X105	11-29-88	12:55p

Sample Appearance : Brownish

Collector Comments:

Sampler Signature : Gregory W. D[illegible] Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	12:55p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28A Seal #: 3375 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45p Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: FedEx

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Michael Davison Signature: Michael Davison

Date: 11-30-88 Time: 10:00A Seal #: 3376 Intact?: (Y) / N

Lab Name: IEPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
egion: COLLINSVILLE
ounty: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816446	X106	11-29-88	1:35p

Sample Appearance : Brown to Black

Collector Comments:

Sampler Signature : Gregory W. [illegible] Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	1:35p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28 A Seal #: 3375 Intact? Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45p Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the courier [illegible] seal intact and that each bottle in the shipping container was [illegible] the custody of competent laboratory [illegible]

Opened By (print): Michael Davison Signature: [illegible]

Date: 11-30-88 Time: 0:00A Seal #: 3376 Intact? Y / N

Lab Name: IEPA Champaign Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
egion: COLLINSVILLE
ounty: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816447	X107	11-29-88	1:59p

Sample Appearance : Black much organic material

Collector Comments:

Sampler Signature : Gregory W. D[illegible] Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	1:59

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28 A Seal #: 3375 Intact? Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45P Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample de[illegible] FED EX [illegible]

I certify that I received the sam[illegible] that each bottle in the shipping [illegible] the custody of competent labora[illegible]

Opened by (print): Michael Davison Signature: [illegible]

Date: 11-30-88 Time: [illegible] Seal #: 3376 Intact? Y / N

Lab Name: IEPA Champaign Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816448	X108	11-29-88	2:40p

Sample Appearance : Brown - Black Clay

Collector Comments:

Sampler Signature : Gregory W. [illegible] Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	2:40p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28A Seal #: 3375 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45p Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: FED EX

I certify that [illegible] intact and that each bottle in the [illegible] will be in the custody of competent laboratory personnel [illegible]

Opened by (print): [illegible] Signature: [illegible]

Date: 11-30-88 Time: [illegible] Seal #: 3376 Intact? (Y) / N

Lab Name: IEPA Champaign Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
gion: COLLINSVILLE
unty: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816449	X109	11-29-88	3:01p

Sample Appearance : Black · brown sandy

Collector Comments:

Sampler Signature : Gregory W. D[illegible] Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	3:01p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28A Seal #: 3375 Intact? (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45p Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: Fed Ex

I certify that I received the [illegible] container from the courier [illegible] and seal intact and that each bottle in the shipping container [illegible] after receiving the [illegible] the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Michael Davison Signature: Michael Davison

Date: 11-30-88 Time: 10:00A Seal #: 3376 Intact? (Y) N

Lab Name: IEPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3375

Date Sealed: 11/28/88 By: AWW

Facility
Name : JENNISON WRIGHT CORP.
Region: COLLINSVILLE
County: MADISON

Site Inventory # : 1190400008
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
B816450	X110	11-29-88	3:22p

Sample Appearance : Black - Rock, oily sheen

Collector Comments:

Sampler Signature : Gregory W. Dunn Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY	N	11-29-88	3:22p

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 10:28 A Seal #: 3375 Intact? Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 11-29-88 Time: 4:45 p Seal #: 3376

Courier - sample pickup: FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above [illegible] and seal intact and that each bottle in the shipping container was [illegible]. After recording the [illegible] the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Michael Davison Signature: Michael Davison

Date: 11-30-88 Time: 10:00 A Seal #: 3376 Intact? Y / N

Lab Name: IEPA Champaign Comments:

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

SOW No.: 7/87 REV. 12/87

EPA Sample No.	Lab Sample ID.
X101	B816441
X102	B816442
X103	B816443
X104	B816444
X105	B816445
X106	B816446
X107	B816447
X108	B816448
X109	B816449
X110	B816450
G201	B816451
G202	B816452

Were ICP interelement corrections applied? Yes/No ___

Were ICP background corrections applied? Yes/No ___
If yes-were raw data generated before application of background corrections? Yes/No ___

Comments:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

EPA SAMPLE : G201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816451

Level (low/med): _____ Date Received: 11/30/8

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	63	B		P
7440-36-0	Antimony			S	
7440-38-2	Arsenic	3	B	S	F
7440-39-3	Barium	81	B	N	P
7440-41-7	Beryllium	0.3	B		P
7440-43-9	Cadmium	3.2	B		P
7440-70-2	Calcium	143000			P
7440-47-3	Chromium	8	B		P
7440-48-4	Cobalt	12	B		P
7440-50-8	Copper	7	B		P
7439-89-6	Iron	83	B		P
7439-92-1	Lead	10		S	F
7439-95-4	Magnesium	31600			P
7439-96-5	Manganese	558			P
7439-97-6	Mercury	0	U		
7440-02-0	Nickel	32	B		P
7440-09-7	Potassium	4638	B		P
7782-49-2	Selenium	10		S	F
7440-22-4	Silver	2.3	U	N	P
7440-23-5	Sodium	31700			P
7440-28-0	Thallium	0	U	S	F
7440-62-2	Vanadium	5	B		P
7440-66-6	Zinc	315			
	Cyanide	7	B		AS
	Sulfate	300000			
	Sulfide	- <1000			

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:
Antimony not analyzed due to lamp failure

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE : G202

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: E8/6452

Level (low/med): _____ Date Received: 11/30/8

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30	U		P
7440-36-0	Antimony			S	F
7440-38-2	Arsenic	2	B	S	F
7440-39-3	Barium	73	B	N	P
7440-41-7	Beryllium	0.5	B		P
7440-43-9	Cadmium	3.7	B		P
7440-70-2	Calcium	229000			P
7440-47-3	Chromium	13			P
7440-48-4	Cobalt	11.6	B		P
7440-50-8	Copper	5.4	B		P
7439-89-6	Iron	0	U		P
7439-92-1	Lead	11		S	F
7439-95-4	Magnesium	59900			P
7439-96-5	Manganese	1120			P
7439-97-6	Mercury	0.2			
7440-02-0	Nickel	28.9	B		P
7440-09-7	Potassium	8790			P
7782-49-2	Selenium	3	B	S	F
7440-22-4	Silver	6.7	B	N	P
7440-23-5	Sodium	30600			P
7440-28-0	Thallium	0	U	S	F
7440-62-2	Vanadium	8	B		P
7440-66-6	Zinc	21			P
	Cyanide	0	U		AS
	Sulfate	330000			
	Sulfide	<1000			

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Antimony not analyzed due to lamp failure

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB

Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816441

Level (low/med): _____ Date Received: 11/30/88

% Solids: 74.6

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10491			P
7440-36-0	Antimony	2.4	B	S,N	F
7440-38-2	Arsenic	22.9		S	F
7440-39-3	Barium	400			P
7440-41-7	Beryllium	1.49	B		P
7440-43-9	Cadmium	5.74			P
7440-70-2	Calcium	13280			P
7440-47-3	Chromium	36.2			P
7440-48-4	Cobalt	11.8	B		P
7440-50-8	Copper	120		N	P
7439-89-6	Iron	35640			P
7439-92-1	Lead	840		S	F
7439-95-4	Magnesium	3499	B		P
7439-96-5	Manganese	717			P
7439-97-6	Mercury	0.65			AV
7440-02-0	Nickel	26.9	B		P
7440-09-7	Potassium	2120	B		P
7782-49-2	Selenium	1.7	U	S	F
7440-22-4	Silver	0	U		P
7440-23-5	Sodium	276	B		P
7440-28-0	Thallium	0.76	U	S	F
7440-62-2	Vanadium	37.9	B		P
7440-66-6	Zinc	653			P
	Cyanide	1.3	B		AS

Color Before: BLACK Clarity Before: OPAQUE Texture: FINE

Color After: GREEN Clarity After: CLEAR Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816442

Level (low/med): _____ Date Received: 11/30/88

% Solids: 73.0

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13799			P
7440-36-0	Antimony	4.8	B	S	F
7440-38-2	Arsenic	45.5		S	F
7440-39-3	Barium	921			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium	6.6			P
7440-70-2	Calcium	23570			P
7440-47-3	Chromium	80.8			P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	271			P
7439-89-6	Iron	41900			P
7439-92-1	Lead	2340		S	F
7439-95-4	Magnesium	3706	B		P
7439-96-5	Manganese	929			P
7439-97-6	Mercury	0.33			AV
7440-02-0	Nickel	29.7	B		P
7440-09-7	Potassium	1657	B		P
7782-49-2	Selenium	1.0	U	S	F
7440-22-4	Silver	1.33	U		P
7440-23-5	Sodium	237	B		P
7440-28-0	Thallium	0.51	U	S	F
7440-62-2	Vanadium	42.2	B		P
7440-66-6	Zinc	1545			P
	Cyanide	1.4	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Lt. Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB

Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816443

Level (low/med): _____ Date Received: 11/30/88

% Solids: 75.2

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9487			P
7440-36-0	Antimony	3.4	B	S	F
7440-38-2	Arsenic	21.2		S	F
7440-39-3	Barium	552			P
7440-41-7	Beryllium	1.34	B		P
7440-43-9	Cadmium	3.89	B		P
7440-70-2	Calcium	7717			P
7440-47-3	Chromium	28.3			P
7440-48-4	Cobalt	8.0	B		P
7440-50-8	Copper	87.2			P
7439-89-6	Iron	29300			P
7439-92-1	Lead	632		S	F
7439-95-4	Magnesium	1874	B		P
7439-96-5	Manganese	549			P
7439-97-6	Mercury	0.34			AV
7440-02-0	Nickel	22.8	B		P
7440-09-7	Potassium	1500	B		P
7782-49-2	Selenium	1.7	U	S	F
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	127	B		P
7440-28-0	Thallium	0.49	U	S	F
7440-62-2	Vanadium	29.9	B		P
7440-66-6	Zinc	780			P
	Cyanide	0.8	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816444

Level (low/med): _____ Date Received: 11/30/88

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9719			P
7440-36-0	Antimony	0.91	U	S	F
7440-38-2	Arsenic	7.3	B	S	F
7440-39-3	Barium	170.6	B		P
7440-41-7	Beryllium	0.85	B		P
7440-43-9	Cadmium	2.54	B		P
7440-70-2	Calcium	5086			P
7440-47-3	Chromium	19.6			P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	29.8			P
7439-89-6	Iron	19190			P
7439-92-1	Lead	134		S	F
7439-95-4	Magnesium	2695	B		P
7439-96-5	Manganese	529			P
7439-97-6	Mercury	0.09	U		AV
7440-02-0	Nickel	18.9	B		P
7440-09-7	Potassium	1741	B		P
7782-49-2	Selenium	0.91	U	S	F
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	2.9	B		P
7440-28-0	Thallium	0.45	U	S	F
7440-62-2	Vanadium	28.9	B		P
7440-66-6	Zinc	235			P
	Cyanide	0.3	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816445

Level (low/med): _____ Date Received: 11/30/88

% Solids: 78.3

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8430			P
7440-36-0	Antimony	0.77	U	S	F
7440-38-2	Arsenic	7.7	B	S	F
7440-39-3	Barium	171	B		P
7440-41-7	Beryllium	0.79	B		P
7440-43-9	Cadmium	7.2			P
7440-70-2	Calcium	5932			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	29.8			P
7439-89-6	Iron	17142			P
7439-92-1	Lead	158		S	F
7439-95-4	Magnesium	2607	B		P
7439-96-5	Manganese	521			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	16.8	B		P
7440-09-7	Potassium	1584	B		P
7782-49-2	Selenium	0.39	U	S	F
7440-22-4	Silver	0.0	U		P
7440-23-5	Sodium	0.0	U		P
7440-28-0	Thallium	0.58	U	S	F
7440-62-2	Vanadium	27.4	B		P
7440-66-6	Zinc	243.7			P
	Cyanide	0.4	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO: X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816446

Level (low/med): _____ Date Received: 11/30/88

% Solids: 77.7

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6877			P
7440-36-0	Antimony	0.66	U	S	F
7440-38-2	Arsenic	5.8	B	S	F
7440-39-3	Barium	130	B		P
7440-41-7	Beryllium	0.74	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	6451			P
7440-47-3	Chromium	13.2			P
7440-48-4	Cobalt	4.18	B		P
7440-50-8	Copper	17.1	B		P
7439-89-6	Iron	12814			P
7439-92-1	Lead	131		S	F
7439-95-4	Magnesium	2463	B		P
7439-96-5	Manganese	313			P
7439-97-6	Mercury	0.08	U		AV
7440-02-0	Nickel	11.5	B		P
7440-09-7	Potassium	1268	B		P
7782-49-2	Selenium	0.83	U	S	F
7440-22-4	Silver	0	U		P
7440-23-5	Sodium	0	U		P
7440-28-0	Thallium	0.33	U	S	F
7440-62-2	Vanadium	20	B		P
7440-66-6	Zinc	159.9			P
	Cyanide	0.3	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:
Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816447

Level (low/med): _____ Date Received: 11/30/88

% Solids: 74.8

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6883			P
7440-36-0	Antimony	0	U	S	F
7440-38-2	Arsenic	9.3	B	S	F
7440-39-3	Barium	153	B		P
7440-41-7	Beryllium	0.8	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	5600			P
7440-47-3	Chromium	17.2			P
7440-48-4	Cobalt	4.98	B		P
7440-50-8	Copper	25.5			P
7439-89-6	Iron	15105			P
7439-92-1	Lead	299		S	F
7439-95-4	Magnesium	2231	B		P
7439-96-5	Manganese	450			P
7439-97-6	Mercury	0.09	U		AV
7440-02-0	Nickel	135			P
7440-09-7	Potassium	1419	B		P
7782-49-2	Selenium	0.21	U	S	F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	0	U		P
7440-28-0	Thallium	0.42	U	S	F
7440-62-2	Vanadium	22.4	B		P
7440-66-6	Zinc	236			P
	Cyanide	0.3	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: B816448

Level (low/med): _____ Date Received: 11/30/88

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5839			P
7440-36-0	Antimony	1.17	U	S	F
7440-38-2	Arsenic	6.0	B	S	F
7440-39-3	Barium	156	B		P
7440-41-7	Beryllium	0.78	B		P
7440-43-9	Cadmium	0	U		P
7440-70-2	Calcium	20907			P
7440-47-3	Chromium	26.6			P
7440-48-4	Cobalt	5.3	B		P
7440-50-8	Copper	12.9	B		P
7439-89-6	Iron	18355			P
7439-92-1	Lead	27.8		S	F
7439-95-4	Magnesium	5950			P
7439-96-5	Manganese	821			P
7439-97-6	Mercury	0.09	U		AV
7440-02-0	Nickel	16.9	B		P
7440-09-7	Potassium	814	B		P
7782-49-2	Selenium	0.29	U	S	F
7440-22-4	Silver	0	U		P
7440-23-5	Sodium	11	U		P
7440-28-0	Thallium	0.29	U	S	F
7440-62-2	Vanadium	42.9	B		P
7440-66-6	Zinc	68.5			P
	Cyanide	0.1	B		AS

814

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: 881649

Level (low/med): _____ Date Received: 11/30/88

% Solids: 86.8

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3854			P
7440-36-0	Antimony	1.04	U	S	F
7440-38-2	Arsenic	7.98	B	S	F
7440-39-3	Barium	176	B		P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.1	U		P
7440-70-2	Calcium	13487			P
7440-47-3	Chromium	18			P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	25.8			P
7439-89-6	Iron	19257			P
7439-92-1	Lead	69.4		S	F
7439-95-4	Magnesium	3332	B		P
7439-96-5	Manganese	786			P
7439-97-6	Mercury	0.06	U		AV
7440-02-0	Nickel	14.4	B		P
7440-09-7	Potassium	935	B		P
7782-49-2	Selenium	0.35	U	S	F
7440-22-4	Silver	0	U		P
7440-23-5	Sodium	53	U		P
7440-28-0	Thallium	0.35	U	S	F
7440-62-2	Vanadium	26.1	B		P
7440-66-6	Zinc	194			P
	Cyanide	0.2	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO: X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Lab Sample ID: 881645O

Level (low/med): _____ Date Received: 11/30/88

% Solids: 65.9

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3668			P
7440-36-0	Antimony	0.73	U	S	F
7440-38-2	Arsenic	11.8		S	F
7440-39-3	Barium	108	B		P
7440-41-7	Beryllium	0.72	B		P
7440-43-9	Cadmium	2.4	B		P
7440-70-2	Calcium	26685			P
7440-47-3	Chromium	38.3			P
7440-48-4	Cobalt	2.8	U		P
7440-50-8	Copper	165			P
7439-89-6	Iron	11573			P
7439-92-1	Lead	271		S	F
7439-95-4	Magnesium	6070			P
7439-96-5	Manganese	674			P
7439-97-6	Mercury	0.51			AV
7440-02-0	Nickel	12.9	B		P
7440-09-7	Potassium	395	B		P
7782-49-2	Selenium	1.1	U	S	F
7440-22-4	Silver	0	U		P
7440-23-5	Sodium	0	U		P
7440-28-0	Thallium	1.27		S	F
7440-62-2	Vanadium	34.7	B		P
7440-66-6	Zinc	419			P
	Cyanide	2.0	B		AS

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

Sulfate & Sulfide not an appropriate test request for solid samples

TLI#13078 SAS 4307E
DATE 12-20-88

TRIANGLE LABORATORIES, INC.
MATRIX SPIKE
SAMPLE W101 AND W101 MS

ISOMER	SAMPLE (ng)	SPIKED (ng)	OBSERVED (ng)	RECOVERIES ABS	RECOVERIES %REC
2378-TCDD	ND	.500	.408	.408	82%
123478-PCDD	ND	2.500	2.280	2.280	91%
123478-HxCDD	ND	2.500	2.370	2.370	95%
123679-HxCDD	ND	2.500	2.141	2.141	86%
123789-HxCDD	ND	2.500	2.202	2.202	88%
1234678-HpCDD	.340	2.500	2.513	2.173	87%
OCDD	4.651	5.000	12.229	7.578	152%
2378-TCDF	ND	.500	.361	.361	72%
12378-PCDF	ND	2.500	2.279	2.279	91%
234678-PCDF	ND	2.500	2.178	2.178	87%
123478-HXCDF	ND	2.500	2.493	2.493	100%
123678-HxCDF	ND	2.500	2.283	2.283	91%
234678-HXCDF	ND	2.500	2.617	2.617	105%
123789-HXCDF	ND	2.500	2.227	2.227	89%
1234678-HpCDF	ND	2.500	2.237	2.237	89%
1234789-HpCDF	ND	2.500	2.103	2.103	84%
OCDF	ND	5.000	4.708	4.708	94%

DATE 12-20-88

TRIANGLE LABORATORIES, INC.
MATRIX SPIKE
SAMPLE G202 AND G202 MSD

ISOMER	SAMPLE (ppt)	SPIKED (ppt)	OBSERVED (ppt)	RECOVERIES ABS	RECOVERIES %REC
2378-TCDD	ND	1.000	.813	.813	81%
123478-PCDD	ND	5.000	4.519	4.519	90%
123478-HxCDD	ND	5.000	5.204	5.204	104%
123679-HxCDD	ND	5.000	4.428	4.428	89%
123789-HxCDD	ND	5.000	4.561	4.561	91%
1234678-HpCDD	ND	5.000	4.398	4.398	88%
OCDD	ND	10.000	9.284	9.284	93%
2378-TCDF	ND	1.000	.767	.767	77%
12378-PCDF	ND	5.000	4.464	4.464	89%
234678-PCDF	ND	5.000	4.528	4.528	91%
123478-HXCDF	ND	5.000	5.561	5.561	111%
123678-HxCDF	ND	5.000	4.870	4.870	97%
234678-HXCDF	ND	5.000	6.020	6.020	120%
123789-HXCDF	ND	5.000	5.489	5.489	110%
1234678-HpCDF	ND	5.000	4.668	4.668	93%
1234789-HpCDF	ND	5.000	4.389	4.389	88%
OCDF	ND	10.000	9.296	9.296	93%

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MP
DATE: 12/10/88
SAMPLEWT: 500.00

FILE NAME: S884691
SAMPLE ID: TLI H2O BLANK
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884685

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.005				
12378-PeCDD	ND		0.008				
123478-HxCDD	ND		0.010				
123678-HxCDD	ND		0.010				
123789-HxCDD	ND		0.013				
1234678-HpCDD	ND		0.018				
OCDD	ND		0.025				
2378-TCDF	ND		0.005				
12378-PeCDF	ND		0.005				
23478-PeCDF	ND		0.005				
123478-HxCDF	ND		0.010				
123678-HxCDF	ND		0.008				
234678-HxCDF	ND		0.010				
123789-HxCDF	ND		0.015				
1234678-HpCDF	ND		0.010				
1234789-HpCDF	ND		0.015				
OCDF	ND		0.022				
TOTAL TCDD	ND		0.005				
TOTAL PeCDD	ND		0.008				
TOTAL HxCDD	ND		0.010				
TOTAL HpCDD	ND		0.018				
TOTAL TCDF	ND		0.005				
TOTAL PeCDF	ND		0.005				
TOTAL HxCDF	ND		0.010				
TOTAL HpCDF	ND		0.013				

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
D : 12/10/88
S___LEWT: 10.00

FILE NAME: S884699 CONCAL: S884698
SAMPLE ID: TLI SOX BLANK
CASE NO: SAS 4307 E
PROJ NO: 13078

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		1.222				
12378-PeCDD	ND		1.345				
123478-HxCDD	ND		2.498				
123678-HxCDD	ND		2.183				
123789-HxCDD	ND		2.910				
1234678-HpCDD	ND		4.848				
OCDD	ND		8.787				
2378-TCDF	ND		1.170				
12378-PeCDF	ND		1.238				
23478-PeCDF	ND		1.282				
123478-HxCDF	ND		2.308				
123678-HxCDF	ND		1.792				
234678-HxCDF	ND		2.768				
123789-HxCDF	ND		3.585				
1234678-HpCDF	ND		3.103				
1234789-HpCDF	ND		4.150				
OCDF	ND		7.695				
TOTAL TCDD	ND		1.222				
TOTAL PeCDD	ND		1.345				
AL HxCDD	ND		2.495				
AL HpCDD	ND		4.848				
TOTAL TCDF	ND		1.170				
TOTAL PeCDF	ND		1.260				
TOTAL HxCDF	ND		2.450				
TOTAL HpCDF	ND		3.550				

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MP
DATE: 12/10/88
IPLEWT: 500.00

FILE NAME: S884692
SAMPLE ID: G201
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884685

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.035				
12378-PeCDD	ND		0.048				
123478-HxCDD	ND		0.120				
123678-HxCDD	ND		0.105				
123789-HxCDD	ND		0.140				
1234678-HpCDD	ND		0.300				
OCDD	ND		1.042				
2378-TCDF	ND		0.033				
12378-PeCDF	ND		0.035				
23478-PeCDF	ND		0.035				
123478-HxCDF	ND		0.088				
123678-HxCDF	ND		0.068				
234678-HxCDF	ND		0.105				
123789-HxCDF	ND		0.138				
1234678-HpCDF	ND		0.158				
1234789-HpCDF	ND		0.210				
OCDF	ND		0.912				
TOTAL TCDD	ND		0.035				
TOTAL PeCDD	ND		0.048				
TOTAL HxCDD	ND		0.120				
TOTAL HpCDD	ND		0.300				
TOTAL TCDF	ND		0.033				
TOTAL PeCDF	ND		0.035				
TOTAL HxCDF	ND		0.092				
TOTAL HpCDF	ND		0.180				

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MP
DATE: 12/10/88
PLEWT: 500.00

FILE NAME: S884693
SAMPLE ID: G202
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884685

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.030				
12378-PeCDD	ND		0.033				
123478-HxCDD	ND		0.058				
123678-HxCDD	ND		0.050				
123789-HxCDD	ND		0.068				
1234678-HpCDD	ND		0.110				
OCDD	ND		0.225				
2378-TCDF	ND		0.028				
12378-PeCDF	ND		0.028				
23478-PeCDF	ND		0.028				
123478-HxCDF	ND		0.048				
123678-HxCDF	ND		0.037				
234678-HxCDF	ND		0.058				
123789-HxCDF	ND		0.075				
1234678-HpCDF	ND		0.068				
1234789-HpCDF	ND		0.090				
OCDF	ND		0.198				
TOTAL TCDD	ND		0.030				
TOTAL PeCDD	ND		0.033				
TOTAL HxCDD	ND		0.058				
TOTAL HpCDD	ND		0.110				
TOTAL TCDF	ND		0.028				
TOTAL PeCDF	ND		0.028				
TOTAL HxCDF	ND		0.050				
TOTAL HpCDF	ND		0.077				

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MP
DATE: 12/10/88
PLEWT: 500.00

FILE NAME: S884694
SAMPLE ID: G202 MS
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884685

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.721				0.69	34.28	
12378-PeCDD	4.537				1.46	39.59	
123478-HxCDD	4.319				1.31	44.52	
123678-HxCDD	4.387				1.29	45.00	
123789-HxCDD	4.439				1.28	45.30	
1234678-HpCDD	4.070				0.93	50.30	
OCDD	9.693				0.86	57.09	
2378-TCDF	0.709				0.65	33.40	
12378-PeCDF	4.304				1.57	38.32	
23478-PeCDF	4.091				1.64	39.30	
123478-HxCDF	5.252				1.17	43.43	
123678-HxCDF	4.980				1.11	43.53	
234678-HxCDF	4.982				1.18	44.41	
123789-HxCDF	4.453				1.11	45.53	
1234678-HpCDF	3.976				0.88	48.39	
1234789-HpCDF	2.981				0.88	51.20	
OCDF	9.791				0.77	57.29	
TOTAL TCDD	0.721	1			0.69		
TOTAL PeCDD	4.537	1			1.46		
TOTAL HxCDD	13.138	3			1.29		
AL HpCDD	4.070	1			0.93		
AL TCDF	0.709	1			0.65		
TOTAL PeCDF	8.398	2			1.60		
TOTAL HxCDF	19.844	4			1.14		
TOTAL HpCDF	7.098	2			0.88		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MP
E: 12/10/88
SAMPLEWT: 500.00

FILE NAME: S884695
SAMPLE ID: G202 MSD
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884685

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.813				0.73	34.28	
12378-PeCDD	4.519				1.60	39.58	
123478-HxCDD	5.204				1.18	44.51	
123678-HxCDD	4.428				1.24	44.59	
123789-HxCDD	4.561				1.31	45.29	
1234678-HpCDD	4.398				1.00	50.29	
OCDD	9.284				0.87	57.09	
2378-TCDF	0.767				0.69	33.40	
12378-PeCDF	4.464				1.59	38.31	
23478-PeCDF	4.528				1.58	39.29	
123478-HxCDF	5.561				1.08	43.42	
123678-HxCDF	4.870				1.14	43.52	
234678-HxCDF	6.020				1.10	44.40	
123789-HxCDF	5.489				1.13	45.53	
1234678-HpCDF	4.668				0.93	48.39	
1234789-HpCDF	4.389				0.92	51.20	
OCDF	9.296				0.87	57.30	
TOTAL TCDD	0.813	1			0.73		
TOTAL PeCDD	4.519	1			1.60		
AL HxCDD	14.173	3			1.24		
TOTAL HpCDD	4.398	1			1.00		
TOTAL TCDF	0.767	1			0.69		
TOTAL PeCDF	8.991	2			1.59		
TOTAL HxCDF	21.649	4			1.11		
TOTAL HpCDF	9.094	2			0.93		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/11/88
S LEWT: 1.00

FILE NAME: S884718
SAMPLE ID: W101
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.015				
12378-PeCDD	ND		0.022				
123478-HxCDD	ND		0.025				
123678-HxCDD	ND		0.020				
123789-HxCDD	ND		0.028				
1234678-HpCDD	0.340				1.08	50.30	
OCDD	4.651				0.87	57.12	
2378-TCDF	ND		0.013				
12378-PeCDF	ND		0.015				
23478-PeCDF	ND		0.015				
123478-HxCDF	ND		0.018				
123678-HxCDF	ND		0.015				
234678-HxCDF	ND		0.022				
123789-HxCDF	ND		0.030				
1234678-HpCDF	ND		0.022				
1234789-HpCDF	ND		0.030				
OCDF	ND		0.048				
TOTAL TCDD	ND		0.015				
TOTAL PeCDD	ND		0.022				
TOTAL HxCDD	ND		0.025				
T L HpCDD	0.740	2			1.11		
T L TCDF	ND		0.013				
TOTAL PeCDF	ND		0.015				
TOTAL HxCDF	ND		0.020				
TOTAL HpCDF	ND		0.025				

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 13/11/88
S LEWT: 1.00

FILE NAME: S884715
SAMPLE ID: W101X MS
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710
Bn 12-20

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.408				0.78	34.28	
12378-PeCDD	2.280				1.56	39.59	
123478-HxCDD	2.370				1.37	44.52	
123678-HxCDD	2.141				1.20	45.00	
123789-HxCDD	2.202				1.23	45.30	
1234678-HpCDD	2.513				1.03	50.30	
OCDD	12.229				0.81	57.12	
2378-TCDF	0.361				0.72	33.40	
12378-PeCDF	2.279				1.61	38.32	
23478-PeCDF	2.178				1.72	39.30	
123478-HxCDF	2.493				1.16	43.44	
123678-HxCDF	2.283				1.15	43.53	
234678-HxCDF	2.617				1.21	44.40	
123789-HxCDF	2.227				1.12	45.54	
1234678-HpCDF	2.237				0.92	48.39	
1234789-HpCDF	2.103				0.93	51.21	
OCDF	4.708				0.93	57.31	
TOTAL TCDD	0.408	1			0.78		
TOTAL PeCDD	2.280	1			1.56		
TOTAL HxCDD	6.704	3			1.27		
TC HpCDD	3.099	2			1.01		
TC TCDF	0.361	1			0.72		
TOTAL PeCDF	4.458	2			1.67		
TOTAL HxCDF	9.609	4			1.16		
TOTAL HpCDF	4.455	3			0.92		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/11/88
MPLEWT: 1.00

FILE NAME: S884716
SAMPLE ID: W101 MSD
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.390				0.65	34.29	
12378-PeCDD	2.313				1.73	40.02	
123478-HxCDD	2.419				1.30	44.53	
123678-HxCDD	2.170				1.13	45.02	
123789-HxCDD	2.319				1.20	45.31	
1234678-HpCDD	2.617				1.11	50.32	
OCDD	17.900				0.83	57.14	
2378-TCDF	0.376				0.72	33.41	
12378-PeCDF	2.240				1.65	38.33	
23478-PeCDF	2.272				1.68	39.32	
123478-HxCDF	2.566				1.17	43.45	
123678-HxCDF	2.377				1.14	43.54	
234678-HxCDF	2.758				1.14	44.42	
123789-HxCDF	2.633				1.14	45.55	
1234678-HpCDF	2.072				0.90	48.41	
1234789-HpCDF	2.173				0.91	51.23	
OCDF	4.791				0.90	57.34	
TOTAL TCDD	0.390	1			0.65		
TOTAL PeCDD	2.313	1			1.73		
TOTAL HxCDD	6.886	3			1.21		
TAL HpCDD	3.397	2			1.12		
TOTAL TCDF	0.376	1			0.72		
TOTAL PeCDF	4.511	2			1.67		
TOTAL HxCDF	10.219	4			1.15		
TOTAL HpCDF	4.323	3			0.95		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/11/88
S/ EWT: 1.00

FILE NAME: S884717
SAMPLE ID: W102
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.015				
12378-PeCDD	ND		0.020				
123478-HxCDD	ND		0.025				
123678-HxCDD	ND		0.020				
123789-HxCDD	ND		0.028				
1234678-HpCDD	0.346				0.91	50.30	
OCDD	1.671				0.76	57.13	
2378-TCDF	ND		0.013				
12378-PeCDF	ND		0.015				
23478-PeCDF	ND		0.015				
123478-HxCDF	ND		0.018				
123678-HxCDF	ND		0.015				
234678-HxCDF	ND		0.022				
123789-HxCDF	ND		0.030				
1234678-HpCDF	0.078				1.01	48.39	
1234789-HpCDF	ND		0.033				
OCDF	ND		0.055				
TOTAL TCDD	ND		0.015				
TOTAL PeCDD	ND		0.020				
TOTAL HxCDD	ND		0.025				
T L HpCDD	0.556	2			0.95		
TOTAL TCDF	ND		0.013				
TOTAL PeCDF	ND		0.015				
TOTAL HxCDF	ND		0.020				
TOTAL HpCDF	0.089	1			1.01		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/10/88
SAMPLE WT: 7.20

FILE NAME: S884700
SAMPLE ID: X101
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		3.842				
12378-PeCDD	ND		6.500				
123478-HxCDD	ND		17.463				
123678-HxCDD	69.655				1.06	45.00	
123789-HxCDD	ND		20.337				
1234678-HpCDD	3803.006				0.98	50.30	
OCDD	53809.151				0.86	57.13	
2378-TCDF	27.930				0.74	33.40	
12378-PeCDF	ND		4.775				
23478-PeCDF	ND		4.942				
123478-HxCDF	ND			33.874			
123678-HxCDF	ND		10.390				
234678-HxCDF	ND		16.053				
123789-HxCDF	ND		20.793				
1234678-HpCDF	489.392				0.95	48.39	
1234789-HpCDF	ND		45.075				
OCDF	2745.572				0.89	57.31	
TOTAL TCDD	20.296	1			0.70		
TOTAL PeCDD	ND			28.070			
TOTAL HxCDD	564.962	4		597.964	1.24		
TOTAL HpCDD	10135.083	2			1.03		
TOTAL TCDF	105.819	5		173.460	0.79		
TOTAL PeCDF	165.456	2			1.57		
TOTAL HxCDF	548.486	3		584.455	1.25		
TOTAL HpCDF	1937.911	2			0.97		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/10/88
PLEWT: 7.15

FILE NAME: S884701
SAMPLE ID: X101 MS
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	62.161				0.85	34.29	
12378-PeCDD	315.483				1.70	39.59	
123478-HxCDD	390.503				1.16	44.52	
123678-HxCDD	434.538				1.15	45.00	
123789-HxCDD	409.587				1.24	45.31	
1234678-HpCDD	4930.652				1.00	50.30	
OCDD	62047.231				0.87	57.12	
2378-TCDF	91.829				0.80	33.41	
12378-PeCDF	318.101				1.57	38.32	
23478-PeCDF	296.254				1.50	39.30	
123478-HxCDF	405.655				1.14	43.44	
123678-HxCDF	340.625				1.16	43.53	
234678-HxCDF	370.369				1.12	44.41	
123789-HxCDF	296.661				1.09	45.55	
1234678-HpCDF	786.802				0.88	48.39	
1234789-HpCDF	253.756				0.91	51.22	
OCDF	3739.790				0.89	57.31	
TOTAL TCDD	121.416	5			0.80		
TOTAL PeCDD	369.310	5		389.518	1.51		
TOTAL HxCDD	1835.741	6		1885.191	1.21		
TOTAL HpCDD	11746.411	2			1.01		
TOTAL TCDF	228.542	8		283.449	0.75		
TOTAL PeCDF	880.065	8		896.859	1.59		
TOTAL HxCDF	2009.890	7			1.11		
TOTAL HpCDF	2703.189	3			0.90		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/13/88
SAMPLEWT: 7.55

FILE NAME: S884751
SAMPLE ID: X-101-MSD
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884746

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	72.520				0.67	34.18	
12378-PeCDD	328.882				1.53	39.48	
123478-HxCDD	452.010				1.31	44.41	
123678-HxCDD	434.968				1.24	44.48	
123789-HxCDD	461.874				1.19	45.19	
1234678-HpCDD	5290.099				1.03	50.16	
OCDD	64827.659				0.88	56.53	
2378-TCDF	114.071				0.80	33.30	
12378-PeCDF	344.404				1.53	38.21	
23478-PeCDF	309.799				1.64	39.19	
123478-HxCDF	445.992				1.05	43.32	
123678-HxCDF	343.264				1.07	43.42	
234678-HxCDF	360.633				1.11	44.30	
123789-HxCDF	315.365				1.07	45.42	
1234678-HpCDF	957.947				1.00	48.26	
1234789-HpCDF	270.884				1.03	51.06	
OCDF	4908.511				0.92	57.11	
TOTAL TCDD	112.390	2			0.78		
TOTAL PeCDD	328.882	1			1.53		
TOTAL HxCDD	2010.641	5		2143.745	1.26		
TOTAL HpCDD	12148.438	2			1.03		
TOTAL TCDF	336.208	8		401.163	0.74		
TOTAL PeCDF	764.182	3		946.989	1.63		
TOTAL HxCDF	2214.972	7			1.11		
TOTAL HpCDF	3191.194	3			0.98		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MP
DATE: 12/29/88
SAMPLEWT: 7.58

FILE NAME: M883989
SAMPLE ID: X102
CASE NO: SAS 4307E
PROJ NO: 13078R

CONCAL: M883983

NAME	CONC(ppb)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.003				
12378-PeCDD	0.099				1.51	36.17	
123478-HxCDD	0.331				1.52	41.02	
123678-HxCDD	2.279				1.21	41.11	
123789-HxCDD	0.790				1.12	41.40	
1234678-HpCDD	197.765				1.07	46.12	
OCDD	2125.451				0.89	52.03	
2378-TCDF	0.076				0.85	30.12	
12378-PeCDF	0.041				1.45	34.53	PR
23478-PeCDF	ND			0.022			
123478-HxCDF	0.379				1.19	39.56	
123678-HxCDF	ND			0.150			
234678-HxCDF	ND			0.361			
123789-HxCDF	ND		0.013				
1234678-HpCDF	13.779				0.97	44.33	
1234789-HpCDF	ND		0.033				
OCDF	92.634				0.91	52.20	
TOTAL TCDD	0.202	6		0.222	0.76		
TOTAL PeCDD	0.407	3		0.808	1.58		
TOTAL HxCDD	10.207	6		10.346	1.26		
TOTAL HpCDD	304.782	2			1.08		
TOTAL TCDF	0.382	7		0.647	0.77		
TOTAL PeCDF	1.318	4		1.635	1.46		E
TOTAL HxCDF	9.917	3		15.017	1.15		E
TOTAL HpCDF	81.219	2			0.98		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MC
TE: 12/11/88
SAMPLEWT: 7.26

FILE NAME: S884704
SAMPLE ID: X103
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.600				
12378-PeCDD	ND		0.777				
123478-HxCDD	ND		1.730				
123678-HxCDD	9.517				1.30	45.01	
123789-HxCDD	7.550				1.40	45.31	
1234678-HpCDD	407.301				1.06	50.32	
OCDD	5558.448				0.89	57.14	
2378-TCDF	11.014				0.70	33.42	
12378-PeCDF	3.799				1.59	38.33	
23478-PeCDF	2.672				1.52	39.33	
123478-HxCDF	8.937				1.32	43.44	
123678-HxCDF	3.717				1.18	43.56	
234678-HxCDF	4.955				1.13	44.42	
123789-HxCDF	ND		2.040				
1234678-HpCDF	ND			66.579			
1234789-HpCDF	ND		2.768				
OCDF	249.599				0.91	57.34	
TOTAL TCDD	19.509	3			0.72		
TOTAL PeCDD	3.878	1		15.645	1.54		
AL HxCDD	95.583	5			1.31		
TOTAL HpCDD	998.169	2			1.02		
TOTAL TCDF	50.212	7		72.406	0.73		
TOTAL PeCDF	46.064	5		60.433	1.61		
TOTAL HxCDF	53.984	4		100.776	1.17		
TOTAL HpCDF	136.563	1		212.726	0.88		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MC
DATE: 12/11/88
SAMPLEWT: 8.30

FILE NAME: S884705
SAMPLE ID: X104
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.772				
12378-PeCDD	ND		1.030				
123478-HxCDD	ND		2.385				
123678-HxCDD	12.833				1.21	45.02	
123789-HxCDD	ND		2.777				
1234678-HpCDD	684.737				1.03	50.31	
OCDD	11022.075				0.87	57.13	
2378-TCDF	5.444				0.83	33.42	
12378-PeCDF	ND		0.782				
23478-PeCDF	ND		0.810				
123478-HxCDF	8.481				1.10	43.44	
123678-HxCDF	ND		1.488				
234678-HxCDF	ND		2.298				
123789-HxCDF	ND		2.975				
1234678-HpCDF	86.182				1.12	48.39	
1234789-HpCDF	ND		4.145				
OCDF	402.648				0.99	57.31	
TOTAL TCDD	ND			5.865			
TOTAL PeCDD	9.095	1			1.34		
TOTAL HxCDD	127.058	4		136.241	1.18		
TOTAL HpCDD	2066.205	2			1.02		
TOTAL TCDF	18.081	5		28.476	0.79		
TOTAL PeCDF	19.586	2			1.40		
TOTAL HxCDF	121.500	4			1.13		
TOTAL HpCDF	330.970	2			1.01		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MC
DATE: 12/11/88
PLEWT: 8.13

FILE NAME: S884706
SAMPLE ID: X105
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.485				
12378-PeCDD	ND		0.648				
123478-HxCDD	ND		1.532				
123678-HxCDD	10.932				1.22	45.02	
123789-HxCDD	8.811				1.17	45.31	
1234678-HpCDD	574.798				1.06	50.32	
OCDD	9034.390				0.87	57.13	
2378-TCDF	ND			3.738			
12378-PeCDF	ND		0.520				
23478-PeCDF	ND		0.537				
123478-HxCDF	6.185				1.07	43.44	
123678-HxCDF	ND		0.925				
234678-HxCDF	ND		1.430				
123789-HxCDF	ND		1.853				
1234678-HpCDF	ND			65.522			
1234789-HpCDF	ND		2.487				
OCDF	263.358				0.95	57.33	
TOTAL TCDD	5.382	1			0.74		
TOTAL PeCDD	7.604	1			1.51		
TOTAL HxCDD	119.046	6			1.26		
TC[illegible] HpCDD	1768.459	2			1.03		
TC[illegible] TCDF	4.441	2		15.810	0.74		
TOTAL PeCDF	9.863	1		18.881	1.47		
TOTAL HxCDF	66.990	3		105.276	1.09		
TOTAL HpCDF	182.915	1		257.869	0.98		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MC
DATE: 12/11/88
AMPLEWT: 7.45

FILE NAME: S884707
SAMPLE ID: X106
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.448				
12378-PeCDD	ND		0.600				
123478-HxCDD	ND		1.448				
123678-HxCDD	ND		1.265				
123789-HxCDD	ND		1.685				
1234678-HpCDD	79.217				1.03	50.31	
OCDD	1066.862				0.82	57.12	
2378-TCDF	ND			3.070			
12378-PeCDF	ND		0.475				
23478-PeCDF	ND		0.490				
123478-HxCDF	ND		1.080				
123678-HxCDF	ND		0.838				
234678-HxCDF	ND		1.295				
123789-HxCDF	ND		1.678				
1234678-HpCDF	18.014				1.11	48.40	
1234789-HpCDF	ND		2.790				
OCDF	ND			81.255			
TOTAL TCDD	3.606	1			0.81		
TOTAL PeCDD	ND		0.600				
TOTAL HxCDD	ND			17.438			
TOTAL HpCDD	207.476	2			1.04		
TOTAL TCDF	ND			6.678			
TOTAL PeCDF	ND			10.591			
TOTAL HxCDF	18.975	2			1.10		
TOTAL HpCDF	55.592	2			1.07		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MC
DATE: 12/11/88
PLEWT: 7.56

FILE NAME: S884708
SAMPLE ID: X107
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884698

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.618				
12378-PeCDD	ND		0.895				
123478-HxCDD	ND		1.530				
123678-HxCDD	ND		1.338				
123789-HxCDD	ND		1.780				
1234678-HpCDD	61.052				1.02	50.31	
OCDD	708.331				0.88	57.13	
2378-TCDF	ND			8.241			
12378-PeCDF	ND		0.707				
23478-PeCDF	ND		0.732				
123478-HxCDF	3.705				1.17	43.44	
123678-HxCDF	ND		0.885				
234678-HxCDF	ND		1.368				
123789-HxCDF	ND		1.770				
1234678-HpCDF	ND			14.974			
1234789-HpCDF	ND		2.640				
OCDF	38.474				0.97	57.32	
TOTAL TCDD	7.354	1		10.820	0.66		
TOTAL PeCDD	4.895	1			1.36		
TOTAL HxCDD	18.725	2			1.06		
TOTAL HpCDD	147.267	2			1.08		
TOTAL TCDF	11.330	4		37.070	0.73		
TOTAL PeCDF	15.439	1		27.412	1.50		
TOTAL HxCDF	32.224	4			1.19		
TOTAL HpCDF	ND			38.524			

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: MC
DATE: 12/11/88
SAMPLEWT: 8.33

FILE NAME: S884711
SAMPLE ID: X108
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		3.915				
12378-PeCDD	ND		5.213				
123478-HxCDD	ND		6.478				
123678-HxCDD	41.277				1.15	44.59	
123789-HxCDD	ND		7.545				
1234678-HpCDD	5814.239				1.13	50.28	
OCDD	101074.080				0.80	57.09	
2378-TCDF	ND		5.740				
12378-PeCDF	ND		3.150				
23478-PeCDF	ND		3.262				
123478-HxCDF	ND		3.728				
123678-HxCDF	ND		2.893				
234678-HxCDF	ND		4.470				
123789-HxCDF	ND		5.793				
1234678-HpCDF	244.915				0.99	48.38	
1234789-HpCDF	ND		6.955				
OCDF	29041.420				0.86	57.29	
TOTAL TCDD	ND		3.915				
TOTAL PeCDD	ND		5.213				
TOTAL HxCDD	414.598	5			1.12		
TOTAL HpCDD	19302.749	2			1.11		
TOTAL TCDF	ND		5.740				
TOTAL PeCDF	ND		3.205				
TOTAL HxCDF	182.427	2			1.08		
TOTAL HpCDF	1484.578	2			0.96		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/11/88
MPLEWT: 8.89

FILE NAME: S884712
SAMPLE ID: X109
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	7.351				0.85	34.43	
12378-PeCDD	78.225				1.59	40.04	
123478-HxCDD	523.187				1.09	44.56	
123678-HxCDD	2104.422				1.25	45.03	
123789-HxCDD	1932.908				1.23	45.29	
1234678-HpCDD	201585.693				1.05	50.33	
OCDD	760936.175				0.93	57.29	S
2378-TCDF	ND		2.047				
12378-PeCDF	ND		2.697				
23478-PeCDF	ND		2.792				
123478-HxCDF	117.064				1.14	43.47	
123678-HxCDF	ND			10.254			
234678-HxCDF	42.005				1.09	44.43	
123789-HxCDF	ND		6.907				
1234678-HpCDF	5127.828				0.95	48.42	
1234789-HpCDF	327.047				1.15	51.23	
OCDF	34922.855				0.87	57.40	
TOTAL TCDD	79.463	4			0.75		
TOTAL PeCDD	1837.862	8		1959.962	1.61		
TOTAL HxCDD	41946.440	7			1.21		
TOTAL HpCDD	537156.270	2			1.03		S
TOTAL TCDF	ND		2.047				
TOTAL PeCDF	74.027	3			1.55		
TOTAL HxCDF	4011.346	5		4046.041	1.15		
TOTAL HpCDF	29153.654	3			1.02		

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH
DATE: 12/11/88
SAMPLE WT: 7.67

FILE NAME: S884713
SAMPLE ID: X110
CASE NO: SAS 4307 E
PROJ NO: 13078

CONCAL: S884710

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
12378-PeCDD	0.105				1.34	40.15	
123478-HxCDD	ND		0.020				
123678-HxCDD	13.340				1.24	45.09	
123789-HxCDD	4.923				1.19	45.35	
1234678-HpCDD	1253.422				1.03	50.37	S
OCDD	6744.598				0.91	57.37	S
2378-TCDF	0.057				0.87	34.21	
12378-PeCDF	0.298				1.74	38.54	
23478-PeCDF	0.371				1.53	39.46	
123478-HxCDF	3.986				1.18	43.54	
123678-HxCDF	0.493				1.11	44.04	
234678-HxCDF	1.302				1.14	44.49	
123789-HxCDF	ND			0.191			
1234678-HpCDF	122.964				0.94	48.46	
1234789-HpCDF	7.731				0.95	51.27	
OCDF	ND		0.033				
TOTAL TCDD	0.103	1			0.85		
TOTAL PeCDD	1.590	10			1.53		
TOTAL HxCDD	129.629	6		130.894	1.22		
TOTAL HpCDD	2943.278	2			1.03		S
TOTAL TCDF	0.338	7			0.76		
TOTAL PeCDF	7.289	11		7.322	1.57		
TOTAL HxCDF	87.182	7		87.313	1.13		
TOTAL HpCDF	647.731	3			0.94		

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

X 101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

Concentration Units (ug/L or mg/kg dry weight): _____

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony	75-125	11.0	B	2.4	B	6.22	138.2	N	F
Arsenic	75-125	81.1		22.9		62.2	93.5		F
Barium	75-125	956		400		522	106.5		P
Beryllium	75-125	15.7		1.49	B	13	109.3		P
Cadmium	75-125	19.9		5.74		13	108.9		P
Calcium									
Chromium	75-125	94.3		36.2		52	111.7		P
Cobalt	75-125	151		11.8	B	130	107.1		P
Copper	75-125	232		120		65	172.3	N	P
Iron									
Lead	75-125	980		841		12.4	1120		F
Magnesium									
Manganese	75-125	1074		717		52	686		P
Mercury	75-125	1.46		0.65		0.66	122.7		AV
Nickel	75-125	141		26.9	B	104	109.7		P
Potassium									
Selenium	75-125	5.3		1.7	U	5.0	72		F
Silver	75-125	14.3		0	U	13	110.0		P
Sodium									
Thallium	75-125	11		0.76	U	12.4	82.5		F
Vanadium	75-125	176		37.9	B	130	106.2		P
Zinc	75-125	640		653		52	-25		P
Cyanide	75-125	11.57		1.3	B	11.02	93.2		AS

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

X 101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

% Solids for Sample: 74.6 % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight): _____

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	±20%	10491		9752		7.3		P
Antimony	60	2.4	B	2.6		8.0		F
Arsenic	10	22.9		24		4.6		F
Barium	200	400		310		25.3		P
Beryllium	5	1.49	B	1.46	B	2.0		P
Cadmium	5	5.74		3.99	B	36.0		P
Calcium	±20%	13280		12846		3.3		P
Chromium	10	36.2		30.4		17.4		P
Cobalt	250	11.8	B	9.66	B	19.9		P
Copper	125	120		112		6.9		P
Iron	±20%	35640		31385		12.7		P
Lead	±20%	840		980		15.4		F
Magnesium	5000	3499	B	3248	B	7.4		P
Manganese	±20	717		587		19.9		P
Mercury	1.0	0.65		0.54		18.5		AV
Nickel	±20	26.9	B	27.8	B	3.3		P
Potassium	5000	2120	B	1984	B	6.6		P
Selenium	5	1.7	U	2.3	B	30.0		F
Silver		0	U	0				P
Sodium	5000	276	B	248	B	10.7		P
Thallium	10	0.76	U	0.94	U	21.1		F
Vanadium	50	37.9	B	35.9	B	5.4		P
Zinc	±20%	653		635		2.8		P
Cyanide	10	1.3	B	1.1	B	16.6		AS

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

X 101

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	10491		10690		1.9		P
Antimony							
Arsenic							
Barium	400		394		1.5		P
Beryllium	1.49	B	1.7	B	NR		P
Cadmium	5.74		7.44		NR		P
Calcium	13280		14100		6.2		P
Chromium	36.2		40.1		10.8		P
Cobalt	11.8	B	14.4	B	NR		P
Copper	120		119		0.8		P
Iron	35640		34179		4.1		P
Lead							
Magnesium	3499	B	3655	B	4.4		P
Manganese	7.7		692		3.5		P
Mercury							
Nickel	26.9	B	28.7	B	6.7		P
Potassium	2120	B	1697	B			P
Selenium							
Silver	0	U	2.6	B	NR		P
Sodium	276	B	352	B	NR		P
Thallium							
Vanadium	37.9	B	40.5	B	6.9		P
Zinc	653		915		40.1		P

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

G 201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

B816451

Concentration Units (ug/L or mg/kg dry weight): _____

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2451		63	B	2000	119.4		P
Antimony									
Arsenic	75-125	1270		3	B	1030	123.0		F
Barium	75-125	1416		81	B	2000	66.8	N	P
Beryllium	75-125	51.6		0.3	B	50	102.6		P
Cadmium	75-125	54.8		3.2	B	50	103.2		P
Calcium									
Chromium	75-125	212		8	B	200	102.0		P
Cobalt	75-125	512		12	B	500	100.0		P
Copper	75-125	258		7	B	250	100.4		P
Iron	75-125	1115		83	B	1000	103.2		P
Lead	75-125	500		10		500	98.0		F
Magnesium									
Manganese	75-125	799		558		200	120.5		P
Mercury	75-125	1.036		0	U	1.00	102.5		AV
Nickel	75-125	435		32	B	400	100.8		P
Potassium									
Selenium	75-125	650		10		525	121.9		F
Silver	75-125	21.2		2.3	U	50	37.8	N	P
Sodium									
Thallium	75-125	1130		0	U	1000	113.0		F
Vanadium	75-125	518		5	B	500	102.6		P
Zinc	75-125	535		315		200	110.0		P
Cyanide		100		7	B	100	93		AS

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

G 201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

% Solids for Sample: _____ % Solids for Duplicate: _____

B816451

Concentration Units (ug/L or mg/kg dry weight): _____

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200	63	B	133	B	71.4		P
Antimony								
Arsenic	10	3	B	4	B	28.5		F
Barium	200	81	B	81	B	0.0		P
Beryllium	5	0.3	B	0.3	B	0.0		P
Cadmium	5	3.2	B	3.4	B	6.0		P
Calcium	± 20	143000		149000		4.1		P
Chromium	10	8	B	9.9	B	21.2		P
Cobalt	50	12	B	12.2	B	1.6		P
Copper	25	7	B	6.6	B	5.9		P
Iron	100	83	B	76	B	8.8		P
Lead	5	10		9		10.5		F
Magnesium	± 20	31600		33100		4.6		P
Manganese	± 20	558		580		3.9		P
Mercury		0	U	0	U			AV
Nickel	40	32	B	36	B	11.8		P
Potassium	± 20	4638	B	5280		13.0		P
Selenium	25	10		12		18.2		F
Silver	10	2.3	B	5.5	B	82.0		P
Sodium	± 20	31700		33200		4.6		P
Thallium	50	0	U	1	B	200		F
Vanadium	50	5	B	6.6	B	27.6		P
Zinc	± 20	315		327		3.7		P
Cyanide	10	7	B	8	B	13.3		AS

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

G 201

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

B816451

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	63		107		NR		P
Antimony							
Arsenic							
Barium	81		89.5		10.5		P
Beryllium	0.3		1.0		NR		P
Cadmium	3.2		7.9		NR		P
Calcium	143000		146150		2.2		P
Chromium	8		18		NR		P
Cobalt	12		25		NR		P
Copper	7		11.5		NR		P
Iron	83		78.5		5.4		P
Lead							
Magnesium	31600		31300		0.9		P
Manganese	558		590		5.7		P
Mercury							
Nickel	32		43		NR		P
Potassium	4638		3200		31.0		P
Selenium							
Silver	2.3		8.5		NR		P
Sodium	31700		33120		4.5		P
Thallium							
Vanadium	5		12.3		NR		P
Zinc	315		335		6.3		

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Initial Calibration Source: Inorganic Ventures, Inc

Continuing Calibration Source: Inorganic Ventures, Inc

Concentration Units: ug/L SOIL RUN

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	12000	11970	99.8	12000	12300	102.5	12200	101.7	P
Antimony	20	19	95.0	20	19	95.0	19	95.0	F
Arsenic	30	32	106.6	30	31	103.3	31	103.3	F
Barium	2000	1945	97.2	2000	2100	105.0	2100	105.0	P
Beryllium	50	49.9	99.8	50	49.7	99.4	48.9	97.8	P
Cadmium	50	49.2	98.4	50	49.5	99.0	48.9	97.8	P
Calcium	100000	100200	100.2	100000	100900	100.9	99300	99.3	P
Chromium	200	198	99.0	200	196	98.0	195	97.5	P
Cobalt	500	478	95.6	500	480	96.0	473	94.6	P
Copper	250	237	94.8	250	242	96.8	240	96.0	P
Iron	11000	11070	100.6	11000	11100	100.9	10700	97.3	P
Lead	60	64	106.6	60	60	110.0	66	110.0	F
Magnesium	50000	48290	96.6	50000	50000	100.0	49400	98.8	P
Manganese	1200	1204	100.3	1200	1200	100.0	1200	100.0	P
Mercury	1.4	1.38	98.5	1.4	1.37	97.8	1.29	92.1	AV
Nickel	400	384	96.0	400	377	94.2	371	92.8	P
Potassium	10000	9800	98.0	10000	9700	97.0	9900	99.0	P
Selenium	7.5	7	93.3	7.5	7	93.3	7	93.3	F
Silver	50	44	88.0	50	42	84.0	43	86.0	P
Sodium	100000	98100	98.1	100000	103500	103.5	104200	104.2	P
Thallium	20	19	95.0	20	18	90.0	18	90.0	F
Vanadium	500	484	96.8	500	476	95.2	470	94.0	P
Zinc	200	199	99.5	200	21.5	107.5	206	103.0	P
Cyanide	100	88	88.0	100	88	88.0	88	88.0	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Initial Calibration Source: Inorganic Ventures, Inc

Continuing Calibration Source: Inorganic Ventures, Inc

Concentration Units: ug/L WATER RUN (ICP)

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	12000	12600	105.0	12000	12000	100.0			P
Antimony									F
Arsenic	30	30	100.0	30	31	103.3	31	103.3	F
Barium	2000	2100	95.2	2000	1900	95.0			P
Beryllium	50	53	106.0	50	51	102.0			P
Cadmium	50	52	104.0	50	49	98.0			P
Calcium	100000	104500	104.5	100000	100100	100.2			P
Chromium	200	203	101.5	200	196	98.0			P
Cobalt	500	495	99.0	500	476	95.2			P
Copper	250	251	100.4	250	238	95.2			P
Iron	11000	11400	103.6	11000	11000	100.0			P
Lead	60	63	105.0	60	64	106.6	65	108.3	F
Magnesium	50000	50900	101.8	50000	47800	95.6			P
Manganese	1200	1300	108.3	1200	1200	100.0			P
Mercury									
Nickel	400	394	98.5	400	382	95.5			P
Potassium	10000	10100	101.0	10000	10300	103.0			P
Selenium	15	14	93.3	15	15	100.0	15	100.0	F
Silver	50	45	90.0	50	42	84.0			P
Sodium									
Thallium	20	20	100.0	20	20	100.0	22	110.0	F
Vanadium	500	498	99.6	500	485	97.0			P
Zinc	200	214	107.0	200	202	101.0			P
Cyanide	100	88	88.0	100	88	88.0			AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2B
CRDL STANDARD FOR AA AND ICP

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

AA CRDL Standard Source: Inorganic Ventures, Inc

ICP CRDL Standard Source: Inorganic Ventures, Inc

Concentration Units: ug/L SOIL RUN

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony	20	20						
Arsenic	20	20						
Barium								
Beryllium				10	10	100.0	10	100.
Cadmium				10	9.7	97.0	9.1	91.
Calcium								
Chromium				20	20.5	102.5	19.8	99.
Cobalt				20	19.6	98.0	18.8	94.
Copper				20	19.2	96.0	18.7	93.
Iron								
Lead	10	11						
Magnesium								
Manganese				*	*			
Mercury	0.40	0.42						
Nickel				20	17.2	86.0	20.0	100.
Potassium								
Selenium	10	10						
Silver				20	19.5	97.5	17.8	89.0
Sodium								
Thallium	20	21						
Vanadium				20	21.4	107.0	19.3	96.5
Zinc				20	20.2	101.0	21.5	107.5

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2B
CRDL STANDARD FOR AA AND ICP

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

AA CRDL Standard Source: Inorganic Ventures, Inc

ICP CRDL Standard Source: Inorganic Ventures, Inc

Concentration Units: ug/L WATER RUN (ICP)

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic	20	21						
Barium								
Beryllium				20	20.6	103.0	22.2	111.
Cadmium				20	19.6	98.0	21.2	106.
Calcium								
Chromium				20	17	85.0	22	110.
Cobalt				20	17.1	85.5	22	110.
Copper				20	17	85.0	22	110.
Iron								
Lead	10	10						
Magnesium								
Manganese								
Mercury								
Nickel				20	20	100.0	22	110.
Potassium								
Selenium	10	11						
Silver				20	16	80.0	20	100.
Sodium								
Thallium	20	21						
Vanadium				20	17	85.0	22	110.
Zinc				20	19	95.0	23	115.

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3
BLANKS

JENNISON WRIGHT CORP
MADISON CORP. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	15		-87	U	20				0.1		P
Antimony	0	U	0	U	0	U			-0	U	
Arsenic	0	U	0	U	0	U			0	U	
Barium	3		2		2				0.00	U	P
Beryllium	0	U	0	U	0	U			0.00	U	P
Cadmium	0	U	0	U	0	U			0.00	U	P
Calcium	144		49		117				0.3		P
Chromium	3		0	U	1				0.00	U	P
Cobalt	3		1		1				0.00	U	P
Copper	2		1		0	U			0.00	U	P
Iron	29		12		12				0.25		P
Lead	0	U	0	U	0	U			0	U	
Magnesium	57		21		40				0.0	U	P
Manganese	2		-26	U	2				0.00	U	P
Mercury	0	U	0	U	0	U			0	U	
Nickel	-1	U	3		1				0.00	U	P
Potassium	-38	U	-17		10				0.0	U	P
Selenium	1		0	U	1				1		
Silver	3		0	U	0	U			0.00	U	P
Sodium	57		-290		240				-0.3	U	P
Thallium	-0	U	0	U	0	U			0	U	
Vanadium	3		0	U	0	U			0.00	U	P
Zinc	0	U	4		1				0.00	U	P
Cyanide	0	U	0	U	0	U			0.000	U	AS

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3
BLANKS

JENNISON WRIGHT CORP
MADISON CORP. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-360		11						10		
Antimony											
Arsenic	0		0		0		0		0		
Barium	-1		1						2		
Beryllium	0		0						0		
Cadmium	0		0						1		
Calcium	-300		84						70		
Chromium	0		2						2		
Cobalt	0		2						1		
Copper	0		1						6		
Iron	-85		8						10		
Lead	0		0		0		0		1		
Magnesium	-300		22						80		
Manganese	0		0						3		
Mercury											
Nickel	5		0						4		
Potassium	0		-10						70		
Selenium	0		0		0		1		2		
Silver	0		1						3		
Sodium	110		90						330		
Thallium	0		0		0		0		0		
Vanadium	0		1						3		
Zinc	0		1								
Cyanide											

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4

ICP INTERFERENCE CHECK SAMPLE

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No: _____ SAS No.: _____ SDG No.: 1

ICP ID Number: _____ ICS Source: Inorganic Ventures, Inc

Concentration Units: ug/L SOIL SAMPLES

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	504000	504000	498000	497000	98.6	499000	500000	99.2
Antimony								
Arsenic								
Barium		4000	3	3700	92.5	0	3900	97.5
Beryllium		100	1	99	99.0	2	97	97.0
Cadmium		100	1	90	90.0	3	86	86.0
Calcium	500000	500000	475000	470000	94.0	462000	458000	91.6
Chromium		400	7	370	92.5	5	3.54	88.5
Cobalt		1000	7	875	87.5	6	850	85.0
Copper		500	7	480	96.0	6	480	96.0
Iron	102000	102000	103000	104000	102.0	99000	101000	98.1
Lead								
Magnesium	50000	50000	455000	454000	90.8	455000	451000	90.2
Manganese		400	-9	356	89.0	-13	344	86.0
Mercury								
Nickel		500	11	690	138.0	10	660	132.0
Potassium								
Selenium								
Silver		100	6	90	90.0	6	86	86.0
Sodium								
Thallium								
Vanadium		1000	5	910	91.0	4	883	88.3
Zinc		400	23	380	95.0	23	375	93.8

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ICP INTERFERENCE CHECK SAMPLE

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No: _____ SAS No.: _____ SDG No.: 1

ICP ID Number: 01 ICS Source: Inorganic Ventures, Inc

Concentration Units: ug/L WATER SAMPLES

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	504000	504000	496000	496000	98.4	494000	497000	98.6
Antimony								
Arsenic								
Barium		4000	2	3700	92.5	23	3650	91.2
Beryllium		100	2	98	98.0	3	100	100.0
Cadmium		100	0	86	86.0	2	86	86.0
Calcium	500000	500000	464000	458000	91.6	466000	464000	92.8
Chromium		400	4	355	88.8	11	367	91.7
Cobalt		1000	3	849	84.9	11	865	86.5
Copper		500	5	472	94.4	12	477	95.4
Iron	102000	102000	101000	102000	100.0	102000	104000	102.0
Lead								
Magnesium	500000	500000	439000	434000	86.8	430000	425000	85.0
Manganese		400	-9	349	87.2	-7	351	87.8
Mercury								
Nickel		500	3	666	133.2	13	686	137.2
Potassium								
Selenium								
Silver		100	2	82	82.0	5	84	84.0
Sodium								
Thallium								
Vanadium		1000	0	890	89.0	9	921	92.1
Zinc		400	24	371	92.8	28	367	91.8

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LABORATORY CONTROL SAMPLE

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Solid LCS Source: NBS 1646

Aqueous LCS Source: Inorganic Ventures, Inc

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	12000	11700	97.5	62500	18100				
Antimony				0.4					
Arsenic	30	29		11.6					
Barium	2000	1900	95.0						
Beryllium	50	51	102.0	1.5	1.3				
Cadmium	50	45	90.0	0.36	0				
Calcium	100000	95000	95.0	8300	4316				
Chromium	200	183	91.5	76	41.3				
Cobalt	500	452	90.4	10.5	8.8				
Copper	250	233	93.2	18	15.4				
Iron	11000	10600	96.4	33500	30120				
Lead	60	62		28.2					
Magnesium	50000	46000	92.0	10900	8680				
Manganese	1200	1100	91.7	375	252				
Mercury	1.4	1.29							
Nickel	400	359	89.8	32	22.8				
Potassium	10000	9100	91.0	14000	3600				
Selenium	15	15		0.6					
Silver	50	34	68.0						
Sodium	100000	98200	98.2	20000	10500				
Thallium	20	22		0.5					
Vanadium	500	459	91.8	88	52.3				
Zinc	200	197	99.0	138	117				
Cyanide	0.100	0.098							

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LABORATORY CONTROL SAMPLE

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Solid LCS Source: USEPA WP976 Municipal Studge

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				4558	3644				
Antimony									
Arsenic				17					
Barium									
Beryllium				0.28	0.3				
Cadmium				20.8	13.6				
Calcium									
Chromium				204	178				
Cobalt									
Copper				1095	1100				
Iron				16155	18400				
Lead				5.9	5.5				
Magnesium									
Manganese				205	201				
Mercury				16.3					
Nickel				198	172				
Potassium									
Selenium									
Silver				80.6	76				
Sodium									
Thallium									
Vanadium				13	9				
Zinc				1323	1400				
Cyanide									

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816441	X 101	Sb	1	6	10	10	25	18	50	30	11	0.99937	
		As	1	36	10	41	25	45	50	56	92	0.99575	
		Pb	100	18	10	22	25	31	50	43	3500	0.99855	
		Se	1	4	10	8	25	14	50	26	7	0.99879	
		Tl	1	1	10	5	25	11	50	23	2	0.99878	

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816442	X 102	Sb	1	10	10	15	25	22	50	35	19	0.99974	
		As	1	46	10	49	25	52	50	59	179	0.99797	
		Pb	100	45	10	51	25	58	50	70	9200	0.99910	
		Se	1	2	10	7	25	12	50	23	4	0.99838	
		Tl	1	1	10	5	25	12	50	23	2	0.99981	

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816443	X 103	Sb	1	7	10	12	25	20	50	31	14	0.99897	
		As	1	32	10	35	25	41	50	50	87	0.99937	
		Pb	100	15	10	21	25	28	50	44	2600	0.99806	
		Se	1	3	10	8	25	14	50	24	7	0.99912	
		Tl	1	1	10	5	25	12	50	23	2	0.99981	

U.S. EPA - CLP

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816444	X 104	Sb	1	2	10	7	25	15	50	27	4	0.99974	
		As	1	13	10	16	25	22	50	32	32	0.99898	
		Pb	10	32	10	36	25	44	50	58	590	0.99853	
		Se	1	2	10	6	25	13	50	23	4	0.99950	
		Tl	1	1	10	5	25	12	50	23	2	0.99981	

U.S. EPA - CLP

8

STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816445	X105	Sb	1	2	10	7	25	15	50	27	4	0.99974	
		As	1	15	10	19	25	25	50	34	40	0.99959	
		Pb	10	41	10	46	25	54	50	66	820	0.99974	
		Se	1	2	10	5	25	13	50	24	2	0.99776	
		Tl	1	1	10	6	25	12	50	23	3	0.99956	

U.S. EPA - CLP

8

STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816446	X106	Sb	1	2	10	7	25	14	50	26	4	0.99996	
		As	1	13	10	16	25	22	50	31	35	0.99937	
		Pb	10	42	10	48	25	55	50	69	790	0.99931	
		Se	1	3	10	7	25	12	50	24	5	0.99686	
		Tl	1	1	10	5	25	12	50	23	2	0.99981	

U.S. EPA - CLP

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816447	X107	Sb	1	4	10	8	25	16	50	27	8	0.99910	
		As	1	17	10	22	25	28	50	37	44	0.99784	
		Pb	10	69	10	75	25	81	50	94	1410	0.99844	
		Se	1	2	10	5	25	12	50	24	1	0.99752	
		Tl	1	1	10	5	25	11	50	23	2	0.99878	

U.S. EPA - CLP

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816448	X108	Sb	1	0	10	6	25	13	50	26	0	0.99944	
		As	1	17	10	22	25	27	50	38	41	0.99838	
		Pb	10	12	10	17	25	25	50	40	210	0.99921	
		Se	1	2	10	5	25	13	50	23	2	0.99735	
		Tl	1	1	10	5	25	12	50	23	2	0.99981	

U.S. EPA - CLP

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816449	X109	Sb	1	3	10	8	25	15	50	27	6	0.99996	
		As	1	17	10	22	25	26	50	36	46	0.99640	
		Pb	10	22	10	28	25	36	50	50	400	0.99988	
		Se	1	1	10	6	25	11	50	22	2	0.99838	
		Tl	1	1	10	5	25	13	50	25	2	0.99937	

U.S. EPA - CLP

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816450	X110	Sb	1	2	10	7	25	14	50	25	4	0.99966	
		As	1	23	10	27	25	32	50	41	65	0.99971	
		Pb	10	64	10	70	25	76	50	86	1490	0.99672	
		Se	1	4	10	7	25	13	50	25	6	0.99647	
		Tl	1	3	10	8	25	15	50	27	7	0.99996	

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816451	G201	Sb	1		10		25		50				
		As	1	1	10	5	25	12	50	23	3	0.99981	
		Pb		5	10	10	25	18	50	31	10	0.99997	
		Se	1	4	10	9	25	15	50	26	10	0.99956	
		Tl	1	0	10	5	25	14	50	27	0	0.99955	

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B816452	G202	Sb	1		10		25		50				
		As	1	1	10	5	25	12	50	24	2	0.99952	
		Pb		6	10	11	25	19	50	33	11	0.99976	
		Se	1	1	10	6	25	12	50	23	3	0.99956	
		Tl	1	0	10	2	25	7	50	14	0	0.99819	

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STANDARD ADDITION RESULTS

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Concentration Units: ug/L

EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: JENNISON WRIGHT CORP MADISON CO. # 1190400008

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

Matrix (soil/water): _____ Level (low/med): _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead							
Magnesium							
Manganese							
Mercury							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Thallium							
Vanadium							
Zinc							

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10
HOLDING TIMES

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

EPA Sample No.	Matrix	Date Received	Mercury Prep Date	Mercury Holding Time	Cyanide Prep Date	Cyanide Holding Time
X101	SOIL	11/30/88	12/14/88	14	12/12/88	12
X102	SOIL	11/30/88	12/14/88	14	12/12/88	12
X103	SOIL	11/30/88	12/14/88	14	12/12/88	12
X104	SOIL	11/30/88	12/14/88	14	12/12/88	12
X105	SOIL	11/30/88	12/14/88	14	12/12/88	12
X106	SOIL	11/30/88	12/14/88	14	12/12/88	12
X107	SOIL	11/30/88	12/14/88	14	12/12/88	12
X108	SOIL	11/30/88	12/14/88	14	12/12/88	12
X109	SOIL	11/30/88	12/14/88	14	12/12/88	12
X110	SOIL	11/30/88	12/14/88	14	12/12/88	12
G101	WATER	11/30/88	12/14/88	14	12/12/88	12
G102	WATER	11/30/88	12/14/88	14	12/12/88	12

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

ICP ID Number: _____ Date: _____

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	40	P
Antimony	217.6	BZ	60	2	F
Arsenic	193.7	BZ	10	1	F
Barium	455.40		200	5	P
Beryllium	313.04		5	0.3	P
Cadmium	226.50		5	2	P
Calcium	315.80		5000	130	P
Chromium	267.71		10	4	P
Cobalt	228.61		50	4	P
Copper	324.75		25	4	P
Iron	259.94		100	20	P
Lead	283.3	BZ	5	1	F
Magnesium	279.55		5000	30	P
Manganese	257.61		15	1	P
Mercury	253.7		0.2	0.15	AV
Nickel	231.60		40	8	P
Potassium	766.49		5000	80	P
Selenium	196.0	BZ	5	2	F
Silver	328.06		10	4	P
Sodium	589.59		5000	140	P
Thallium	276.8	BZ	10	1	F
Vanadium	311.07		50	4	P
Zinc	213.86		20	9	P

Comments:

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ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

ICP ID Number: _____ Date: _____

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc						

Comments:

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13
ICP LINEAR RANGES (QUARTERLY)

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

ICP ID Number: 01 Date: _____

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	3 x 10	344000	
Antimony			NR
Arsenic			NR
Barium	3 x 10	2000	
Beryllium	3 x 10	1000	
Cadmium	3 x 10	1000	
Calcium	3 x 10	476000	
Chromium	3 x 10	995	
Cobalt	3 x 10	1000	
Copper	3 x 10	992	
Iron	3 x 10	190000	
Lead			NR
Magnesium	3 x 10	251000	
Manganese	3 x 10	4990	
Mercury			NR
Nickel	3 x 10	997	
Potassium	3 x 10	48500	
Selenium			NR
Silver	3 x 10	990	
Sodium	3 x 10	495000	
Thallium			NR
Vanadium	3 x 10	993	
Zinc	3 x 10	1006	

Comments:

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13
ICP LINEAR RANGES (QUARTERLY)

JENNISON WRIGHT CORP
MADISON CO. # 1190400008

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1

ICP ID Number: 01 Date: _____

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	3 x 10	344000	
Antimony			NR
Arsenic			NR
Barium	3 x 10	2000	
Beryllium	3 x 10	1000	
Cadmium	3 x 10	1000	
Calcium	3 x 10	476000	
Chromium	3 x 10	995	
Cobalt	3 x 10	1000	
Copper	3 x 10	992	
Iron	3 x 10	190000	
Lead			NR
Magnesium	3 x 10	251000	
Manganese	3 x 10	4990	
Mercury			NR
Nickel	3 x 10	997	
Potassium	3 x 10	48500	
Selenium			NR
Silver	3 x 10	990	
Sodium	3 x 10	495000	
Thallium			NR
Vanadium	3 x 10	993	
Zinc	3 x 10	1006	

Comments:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA - SPRINGFIELD Contract: _____

Lab Code: D869367 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: D869367

Sample wt/vol: 1000 (g/mL) mL Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. - dec. - Date Extracted: 12/5/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 12/30/88 & 1/24/89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.05	U
319-85-7	beta-BHC	.05	U
319-86-8	delta-BHC	.05	U
58-89-9	gamma-BHC (Lindane)	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10 U	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10 U	U
72-43-5	Methoxychlor	.5	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.5	U
5103-74-2	gamma-Chlordane	.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.5	U
11104-28-2	Aroclor-1221	.5	U
11141-16-5	Aroclor-1232	.5	U
53469-21-9	Aroclor-1242	.5	U
12672-29-6	Aroclor-1248	.5	U
11097-69-1	Aroclor-1254	.5	U
11096-82-5	Aroclor-1260	.5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: D869368 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869368

Sample wt/vol: 30.11 (g/mL) g Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 30% dec. - Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88 & 1/24/89

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	450	
5103-74-2	gamma-Chlordane	500	
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA-SPFLD Contract: _____

Lab Code: D869369 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869369

Sample wt/vol: 30.02 (g/mL) g Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 29% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88+1/24/89

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA-SPFLD Contract: _____

Lab Code: D869370 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869370

Sample wt/vol: 30.04 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 26% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sepf Date Analyzed: 12/30/88 + 1/24/89

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SPFLD- ILLINOIS IEPA Contract: _____

Lab Code: D869371 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869371

Sample wt/vol: 30.10 (g/mL) g Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 18% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88 & 1/24/89

GPC Cleanup: (Y/N) N pH: 5.7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ILLINOIS IEPA-SPELD Contract: _____

Lab Code: D869372 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869372

Sample wt/vol: 30.04 (g/mL) g Lab File ID: -

Level: (low/med) _____ Date Received: 11/30/88

% Moisture: not dec. 23% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88+1/24/89

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1

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

CAS NO.	COMPOUND	ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ILLINOIS IEPA - SPFLD Contract: _____

Lab Code: D869373 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869373

Sample wt/vol: 30.13 (g/mL) g Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27% dec. - Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88 & 12/31/89

GPC Cleanup: (Y/N) N pH: 6.4% Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA -SPFLD Contract: _____

Lab Code: D869374 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869374

Sample wt/vol: 30.02 (g/mL) g Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88 & 1/24/89

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA-SPFLD Contract: _____

Lab Code: D869375 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869375

Sample wt/vol: 30.04 (g/mL) g Lab File ID: -

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 21% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88 + 1/24/89

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA -SPFLD Contract: _____

Lab Code: D869376 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869376

Sample wt/vol: 30.01 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 19% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/13/88 & 1/24/89

GPC Cleanup: (Y/N) N pH: 7.9% Dilution Factor: .10

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	80	U
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	80	U
5103-71-9	alpha-Chlordane	400	U
5103-74-2	gamma-Chlordane	400	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: ILLINOIS IEPA -SPELD Contract: _____

Lab Code: D869377 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D869377

Sample wt/vol: 30.07 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 41% dec. _____ Date Extracted: 12/7/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 12/30/88 & 1/24/89

GPC Cleanup: (Y/N) N pH: 7.2% Dilution Factor: .01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	80	U
319-85-7	beta-BHC	80	U
319-86-8	delta-BHC	80	U
58-89-9	gamma-BHC (Lindane)	80	U
76-44-8	Heptachlor	80	U
309-00-2	Aldrin	80	U
1024-57-3	Heptachlor epoxide	80	U
959-98-8	Endosulfan I	80	U
60-57-1	Dieldrin	160	U
72-55-9	4,4'-DDE	160	U
72-20-8	Endrin	160	U
33213-65-9	Endosulfan II	160	U
72-54-8	4,4'-DDD	160	U
1031-07-8	Endosulfan sulfate	160	U
50-29-3	4,4'-DDT	160	U
72-43-5	Methoxychlor	800	U
53494-70-5	Endrin ketone	160	U
5103-71-9	alpha-Chlordane	800	U
5103-74-2	gamma-Chlordane	800	U
8001-35-2	Toxaphene	1600	U
12674-11-2	Aroclor-1016	800	U
11104-28-2	Aroclor-1221	800	U
11141-16-5	Aroclor-1232	800	U
53469-21-9	Aroclor-1242	800	U
12672-29-6	Aroclor-1248	800	U
11097-69-1	Aroclor-1254	800	U
11096-82-5	Aroclor-1260	800	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ıb Name: SPFLD - ILLINOIS IEPA Contract: _____

Lab Code: D869378 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: D869378

Sample wt/vol: 1000 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/5/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 12/30/88 + 1/24/89

GPC Cleanup: (Y/N) N pH: 6 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.05	U
319-85-7	beta-BHC	.05	U
319-86-8	delta-BHC	.05	U
58-89-9	gamma-BHC (Lindane)	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.5	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.5	U
5103-74-2	gamma-Chlordane	.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.5	U
11104-28-2	Aroclor-1221	.5	U
11141-16-5	Aroclor-1232	.5	U
53469-21-9	Aroclor-1242	.5	U
12672-29-6	Aroclor-1248	.5	U
11097-69-1	Aroclor-1254	.5	U
11096-82-5	Aroclor-1260	.5	U

2E
WATER PESTICIDE SURROGATE RECOVERY

1 Name: SPRINGFIELD - ILL.IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	69367	63%	
02	69378	81%	
03	69931 BL	81%	
04	69930 MS	76%	
05	69930 MSD	73%	
06			
07			
08			
09			
10			
11			
12			
13			
14			
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16			
17			
18			
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20			
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23			
24			
25			
26			
27			
28			
29			
30			

ADVISORY QC LIMITS (24-154)

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

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2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SPRINGFIELD Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	69368	41%	
02	69369	22%	
03	69370	26%	
04	69371	14% *	
05	69372	23%	
06	69373	22%	
07	69374	39%	
08	69375	48%	
09	69376	32%	
10	69377	D	
11	69538BL	18% *	
12	69961MS	76%	
13	69961MSD	73%	
14			
15			
16			
17			
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19			
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22			
23			
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26			
27			
28			
29			
30			

ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutylchlorendate

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILL. IEPA - SPPLD Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: 69930

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	.2	-	.172	86%	56-123
Heptachlor	.2	-	.108	54%	40-131
Aldrin	.2	-	.168	84%	40-120
Dieldrin	.5	-	.47	94%	52-126
Endrin	.5	-	.46	92%	56-121
4,4'-DDT	.5	-	.335	77%	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	.2	.176	88%	2.2%	15	56-123
Heptachlor	.2	.111	55%	1.8%	20	40-131
Aldrin	.2	.178	89%	5.7%	22	40-120
Dieldrin	.5	.49	98%	4.1%	18	52-126
Endrin	.5	.475	95%	3.2%	21	56-121
4,4'-DDT	.5	.445	89%	14%	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS IEPA - SPFLD Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: 69961 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	26.6	-	30.06	113%	46-127
Heptachlor	26.6	-	31.12	117%	35-130
Aldrin	26.6	-	31.12	117%	34-132
Dieldrin	66.6	-	84.58	127%	31-134
Endrin	66.6	-	84.58	127%	42-139
4,4'-DDT	66.6	-	88.57	133%	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	26.6	17.29	65%	54%*	50	46-127
Heptachlor	26.6	19.68	74%	45%*	31	35-130
Aldrin	26.6	19.95	75%	44%*	43	34-132
Dieldrin	66.6	54.61	82%	43%*	38	31-134
Endrin	66.6	58.61	88%	36%	45	42-139
4,4'-DDT	66.6	48.62	73%	60%*	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 5 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

Name: SPRINGFIELD-ILLIEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: D869931 Lab File ID: _____

Matrix: (soil/water) WATER Level: (low/med) _____

Date Extracted: 12/5/88 Extraction: (SepF/Cont/Sonc) SepF

Date Analyzed (1): 12/30/88 Date Analyzed (2): 1/24/89

Time Analyzed (1): – Time Analyzed (2): 1057 pm

Instrument ID (1): HP Instrument ID (2): V6A

GC Column ID (1): 1.5/1.95 GC Column ID (2): 1.5/1.95

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	69367	D869367	12/30/88	1/24/89
02	69378	D869378	12/30/88	1/24/89
03	69931 BL	D869931	12/30/88	1/24/89
04	69930MS	D869930MS	12/30/88	–
05	69930MSD	D869930MSD	12/30/88	
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

MENTS: _____

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4C

PESTICIDE METHOD BLANK SUMMARY

Name: SPRINGFIELD-ILL IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Matrix: (soil/water) SOIL Level: (low/med) LOW

Date Extracted: 12/7/88 Extraction: (SepF/Cont/Sonc) Sonc

Date Analyzed (1): 12/31/88 Date Analyzed (2): 1/25/89

Time Analyzed (1): — Time Analyzed (2): 10[32] AM

Instrument ID (1): HP1 Instrument ID (2): V6A

GC Column ID (1): 1.5/1.95 GC Column ID (2): 1.5/1.95

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	69368	D869368	12/31/88	1/25/89
02	69369	D869369	12/31/88	1/25/89
03	69370	D869370	12/31/88	1/25/89
04	69371	D869371	12/31/88	1/25/89
05	69372	D869372	12/31/88	1/25/89
06	69373	D869373	12/31/88	1/25/89
07	69374	D869374	12/31/88	1/25/89
08	69375	D869375	12/31/88	1/25/89
09	69376	D869376	12/31/88	1/25/89
10	69377	D869377	12/31/88	1/25/89
11	69538 BL	D869538BL	12/31/88	1/25/89
12	69961 MS	D869961 MS	12/29/88	—
13	69961 MSD	D869961 MSD	12/29/88	—
14				
15				
16				
17				
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26				

MENTS: _____

FORM IV PEST 1/87 Rev.

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ILL. EPA - SPEED Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: 1.5/1.95

Dates of Analyses: 1/24/89 to 1/25/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</= 10.0%)
Aldrin	93.55	105.04	109.60	8.2%
Endrin	11.94	14.37	13.87	3%
4,4'-DDT	94.18	96.00	79.35	10% (1)
DBC	122.13	121.93	126.00	4.2%

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
01	EVAL MIX B	1/24/89	1:33 PM	13%	7.1%	10.2%
02	EVAL MIX B	1/25/89	3:14 AM	4.2%	7.2%	5.8%
03	EVAL MIX B					
04	EVAL MIX B					
05	EVAL MIX B					
06	EVAL MIX B					
07	EVAL MIX B					
08	EVAL MIX B					
09	EVAL MIX B					
10	EVAL MIX B					
11	EVAL MIX B					
12	EVAL MIX B					
13	EVAL MIX B					
14	EVAL MIX B					

(2) See Form instructions.

8E
PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: ILL. EPA - SPFLD Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: 1.5/1.95

Dates of Analyses: 1/24/89 to 1/25/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVAL STDA	1/24/89	12:41 P.M.	0	
02	EVALB	EVAL STDB		1:33	.02%	
03	EVALC	EVAL STDC		2:24	.07%	
04	INDA	Ind Std A		3:15	.09%	
05	INDB	Ind Std B		4:07	.15%	
06	TOXAPH	TOX		4:58	.16%	
07	AR1660	1016/1260		5:49	.11%	
08	AR1221	1221		6:41	.19%	
09	AR1232	1232		7:32	.21%	
10	AR1242	1242		8:23	.16%	
11	AR1248	1248		9:15	.07%	
12	AR1254	1254		10:06	.03%	
13	69367	D8 69367		10:57	.22%	
14	69378	D8 69378		11:49	.12%	
15	69931 BL	D8 69931 BL	1/25/89	12:40 AM	.25%	
16	69368	D8 69368		1:31	.03%	
17	69369	D8 69369		2:23	.28%	
18	EVAL B	EVAL STD B		3:14	.002%	
19	69370	D8 69370		10:37	.24%	
20	69371	D8 69371		11:29	.58%	
21	69372	D8 69372		12:20 PM	.75%	
22	69373	D8 69373		1:11	.82%	
23	69374	D8 69374		2:03	.07%	
24	IND A	Mixed Std A		2:54	.75%	
25	69375	D8 69375		3:45	.73%	
26	69376	D8 69376		4:37	1.4%	
27	69377	D8 69377		5:28		*
28	69538 BL	D8 69538 BL		6:19	.72%	
29	IND A	Mixed Std A		7:11	.65%	
30	IND B	Mixed Std B		8:02	.71%	
31						
32						
33						
34						
35						
36						
37						
38						

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

FORM VIII PEST-2 1/87 Rev.

9

PESTICIDE/PCB STANDARDS SUMMARY

ILL. IEPA

Lab Name: SPRINGFIELD Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: 1.5/1.95

DATE(S) OF ANALYSIS	FROM: 1/24/89	DATE OF ANALYSIS	
	TO: 1/25/89	TIME OF ANALYSIS	
TIME(S) OF ANALYSIS	FROM: 12:41 PM	EPA SAMPLE NO. (STANDARD)	
	TO: 1:02 PM		

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	3.322	3.233	3.411	19,336				
beta-BHC	4.627	4.511	4.743	3,968				
delta-BHC	5.378	5.267	5.489	11,238				
gamma-BHC	4.134	4.062	4.206	15,485				
Heptachlor	5.015	4.928	5.102	9,778				
Aldrin	6.015	5.9087	6.1213	10,772				
Hept. epoxide	8.844	8.682	9.006	6,402				
Endosulfan I	11.050	10.852	11.248	4,949				
Dieldrin	13.382	13.139	13.625	9,867				
4,4'-DDE	12.289	12.014	12.564	4,608				
Endrin	16.139	15.786	16.492	1,389				
Endosulfan II	19.396	19.026	19.766	2,700				
4,4'-DDD	18.485	18.086	18.844	2,373				
Endo. sulfate	30.373	29.706	31.040	433				
4,4'-DDT	22.100	21.712	22.488	1,033				
Methoxychlor	40.709	39.923	41.495	205				
Endrin ketone	40.839	39.976	41.702	1,270				
a. Chlordane	10.556	10.311	10.801	5,186				
g. Chlordane	9.704	9.477	9.931	5,922				
Toxaphene	13.161	12.908	13.414	672				
Aroclor-1016	4.894	4.796	4.990	313				
Aroclor-1221	3.053	2.989	3.117	16,889				
Aroclor-1232	3.054	2.985	3.123	173				
Aroclor-1242	4.895	4.781	5.009	304				
Aroclor-1248	8.849	8.641	9.057	178				
Aroclor-1254	15.303	14.923	15.683	220				
Aroclor-1260	33.313	32.620	34.006	236				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ILLINOIS IEPA-SPELD Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: 1.5/1.95

DATE(S) OF ANALYSIS FROM: 1/24/89 TO: 1/25/89
TIME(S) OF ANALYSIS FROM: 12:41 PM TO: 5:02 PM

DATE OF ANALYSIS 1/25/89
TIME OF ANALYSIS 2:54 PM
EPA SAMPLE NO. (STANDARD) IND A

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	3.322	3.233	3.411	19,336				
beta-BHC	4.627	4.511	4.743	3,968				
delta-BHC	5.378	5.267	5.489	11,738				
gamma-BHC	4.134	4.062	4.206	15,485	4.159	15,501	Y	.05%
Heptachlor	5.015	4.928	5.102	9,778	5.045	9,817	Y	.19%
Aldrin	6.015	5.9087	6.1213	10,772	6.051	10,729	Y	.19%
Hept. epoxide	8.844	8.682	9.006	6,402	8.897	6,486	Y	.65
Endosulfan I	11.050	10.852	11.248	4,949	11.125	4,983	Y	.3%
Dieldrin	13.382	13.139	13.625	9,867	13.470	9,942	Y	.38%
4,4'-DDE	12.289	12.014	12.564	4,608				
Endrin	16.139	15.786	16.492	1,389				
Endosulfan II	19.396	19.026	19.766	2,700	19.499	2,721	Y	.38
4,4'-DDD	18.485	18.086	18.844	2,373				
Endo. sulfate	30.373	29.706	31.040	433				
4,4'-DDT	22.100	21.712	22.488	1,033	22.248	969	Y	3.2%
Methoxychlor	40.709	39.923	41.495	205	40.922	206	Y	.2%
Endrin ketone	40.839	39.976	41.702	1,270				
a. Chlordane	10.556	10.311	10.801	5,186				
g. Chlordane	9.704	9.477	9.931	5,922				
Toxaphene	13.161	12.908	13.414	672				
Aroclor-1016	4.894	4.796	4.990	313				
Aroclor-1221	3.053	2.989	3.117	16,889				
Aroclor-1232	3.054	2.985	3.123	173				
Aroclor-1242	4.895	4.781	5.009	304				
Aroclor-1248	8.349	8.641	9.057	178				
Aroclor-1254	15.303	14.923	15.683	220				
Aroclor-1260	33.313	32.620	34.006	236				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: SPFLD - ILL. IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: 1.5/1.95

DATE(S) OF ANALYSIS	FROM: 1/24/89 TO: 1/25/89	DATE OF ANALYSIS	1/25/89
TIME(S) OF ANALYSIS	FROM: 12:41 PM TO: 7:02 PM	TIME OF ANALYSIS	7:11 PM
		EPA SAMPLE NO. (STANDARD)	IND A

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	3.322	3.233	3.411	19,336				
beta-BHC	4.627	4.511	4.843	3,968				
delta-BHC	5.378	5.267	5.489	11,238				
gamma-BHC	4.134	4.062	4.206	15,485	4.153	16,149	N	2%
Heptachlor	5.015	4.928	5.102	9,778	5.040	10,462	N	3.3%
Aldrin	6.015	5.9087	6.1213	10,722	6.043	11,421	N	2.9%
Hept. epoxide	8.844	8.682	9.006	6,402	8.880	7,393	N	7.1%
Endosulfan I	11.050	10.852	11.248	4,949	11.104	5,564	N	5.8%
Dieldrin	13.382	13.139	13.625	9,867	13.451	10,280	N	2.0%
4,4'-DDE	12.289	12.014	12.564	4,608				
Endrin	16.139	15.786	16.492	1,389				
Endosulfan II	19.396	19.026	19.766	2,700	19.440	2,984	N	5.0%
4,4'-DDD	18.485	18.086	18.844	2,373				
Endo. sulfate	30.373	29.706	31.040	433				
4,4'-DDT	22.100	21.712	22.488	1,033	22.364	1,176	N	6.5%
Methoxychlor	40.709	39.923	41.495	205	40.919	222	N	4.0%
Endrin ketone	40.839	39.976	41.702	1,270				
a. Chlordane	10.556	10.311	10.801	5,186				
g. Chlordane	9.704	9.477	9.931	5,922				
Toxaphene	13.161	12.908	13.414	672				
Aroclor-1016	4.894	4.796	4.990	313				
Aroclor-1221	3.053	2.989	3.117	16,889				
Aroclor-1232	3.054	2.985	3.123	173				
Aroclor-1242	4.895	4.781	5.009	304				
Aroclor-1248	8.849	8.641	9.057	178				
Aroclor-1254	15.303	14.923	15.683	220				
Aroclor-1260	33.313	32.620	34.006	236				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: SPRNGFIELD - ILLIEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: 1.5/1.95

DATE(S) OF ANALYSIS	FROM: 1/24/89	DATE OF ANALYSIS	1/25/89
	TO: 1/25/89	TIME OF ANALYSIS	8:02 PM
TIME(S) OF ANALYSIS	FROM: 12:41 PM	EPA SAMPLE NO. (STANDARD)	IND B
	TO: 8:02 PM		

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
alpha-BHC	3.322	3.233	3.411	19,336	3.338	19,440	Y	.27%
beta-BHC	4.627	4.511	4.743	3,968	4.651	4,054	Y	1.0%
delta-BHC	5.378	5.267	5.489	11,738	5.405	11,903	Y	.69%
gamma-BHC	4.134	4.062	4.206	15,485				
Heptachlor	5.015	4.928	5.102	9,778				
Aldrin	6.015	5.9087	6.1213	10,722	6.045	10,644	Y	.59%
Hept. epoxide	8.844	8.682	9.006	6,402				
Endosulfan I	11.050	10.852	11.248	4,949				
Dieldrin	13.382	13.139	13.625	9,867				
4,4'-DDE	12.289	12.014	12.564	4,608	12.356	4,688	Y	.86%
Endrin	16.139	15.786	16.492	1,389	16.223	1,555	Y	5.6%
Endosulfan II	19.396	19.026	19.766	2,700				
4,4'-DDD	18.485	18.086	18.844	2,373	18.583	2,419	Y	.96%
Endo. sulfate	30.373	29.706	31.040	433	30.577	433	Y	0%
4,4'-DDT	22.100	21.712	22.488	1,033				
Methoxychlor	40.709	39.923	41.495	205				
Endrin ketone	40.839	39.976	41.702	1,270	41.104	1,088	Y	7.7%
a. Chlordane	10.556	10.311	10.801	5,186	10.609	5,259	Y	.69%
g. Chlordane	9.704	9.477	9.931	5,922	9.757	5,980	Y	.49%
Toxaphene	13.161	12.908	13.414	672				
Aroclor-1016	4.894	4.796	4.990	313				
Aroclor-1221	3.053	2.989	3.117	16,889				
Aroclor-1232	3.054	2.985	3.123	173				
Aroclor-1242	4.895	4.781	5.009	304				
Aroclor-1248	8.849	8.641	9.057	178				
Aroclor-1254	15.303	14.923	15.683	220				
Aroclor-1260	33.313	32.620	34.006	236				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

10

PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

Lab Name: SPRINGFIELD-ILLIEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column ID (1): 1.5/1.95 GC Column ID (2): 1.6/6.4

Instrument ID (1): V6A Instrument ID (2): V6B

Lab Sample ID: D869368

Lab File ID: _____ (only if confirmed by GC/MS)

PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01 γ Chlordane	Column 1	9.698	9.477	9.931	Y	N
02	Column 2	7.55	7.55	7.55	N	-
03 α Chlordane	Column 1	10.511	10.311	10.801	Y	N
04	Column 2	8.830	8.830	8.830	N	-
05	Column 1				-	-
06	Column 2				-	-
07	Column 1				-	-
08	Column 2				-	-
09	Column 1				-	-
10	Column 2				-	-
11	Column 1				-	-
12	Column 2				-	-

Comments: The sample was analyzed 12/20/88. In that analysis run, the DBC retention time shifted and the DDT breakdown became excessive. The chlordane was confirmed on another column, and the retention time window sequence and analysis run were repeated on another instrument and column.

FORM X PEST 1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869378

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A1207LC05

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. ____ Date Analyzed: 12/07/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869378

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G05

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869378

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G05

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G201

ab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869378

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G05T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2213-23-2	HEPTANE, 2,4-DIMETHYL-	6.78	6.1	J
2. 75-91-2	HYDROPEROXIDE, 1,1-DIMETHYLE	7.18	8.1	J
3. 286-20-4	7-OXABICYCLO[4.1.0]HEPTANE	7.62	3.7	J
4. 6975-98-0	DECANE, 2-METHYL-	11.85	5.0	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869367

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A1207LC04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. ____ Date Analyzed: 12/07/88

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
67-64-1	Acetone	76	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	2	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869367

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	0.8	J
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869367

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869367

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G04T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-65-9	OCTANE (DOT)	6.77	2.5	J
2. 17453-93-9	DODECANE, 5-METHYL-	11.84	2.3	J
3. 57346-67-5	SILANAMINE, 1,1,1-TRIMETHYL-	22.55	0.35	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869379

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A1207LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/07/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	0.07	J
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869441

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G06

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) WATER Lab Sample ID: D869441

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DEC14G06

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/02/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869368

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A1208LC03

Level: (low/med) MED Date Received: 11/30/88

% Moisture: not dec. 30 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1400	U
74-83-9	Bromomethane	1400	U
75-01-4	Vinyl Chloride	1400	U
75-00-3	Chloroethane	1400	U
75-09-2	Methylene Chloride	3400	BE
67-64-1	Acetone	1600	BE
75-15-0	Carbon Disulfide	710	U
75-35-4	1,1-Dichloroethene	710	U
75-35-3	1,1-Dichloroethane	710	U
540-59-0	1,2-Dichloroethene (total)	710	U
67-66-3	Chloroform	710	U
107-06-2	1,2-Dichloroethane	710	U
78-93-3	2-Butanone	150	J
71-55-6	1,1,1-Trichloroethane	710	U
56-23-5	Carbon Tetrachloride	710	U
108-05-4	Vinyl Acetate	1400	U
75-27-4	Bromodichloromethane	710	U
78-87-5	1,2-Dichloropropane	710	U
10061-01-5	cis-1,3-Dichloropropene	710	U
79-01-6	Trichloroethene	710	U
124-48-1	Dibromochloromethane	710	U
79-00-5	1,1,2-Trichloroethane	710	U
71-43-2	Benzene	710	U
10061-02-6	Trans-1,3-Dichloropropene	710	U
75-25-2	Bromoform	710	U
108-10-1	4-Methyl-2-Pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	710	U
79-34-5	1,1,2,2-Tetrachloroethane	1400	U
108-88-3	Toluene	710	U
108-90-7	Chlorobenzene	710	U
100-41-4	Ethylbenzene	710	U
100-42-5	Styrene	710	U
	Total Xylenes	710	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869368

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK02

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 30 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 51.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	24000	U
111-44-4	bis(2-Chloroethyl)Ether	24000	U
95-57-8	2-Chlorophenol	24000	U
541-73-1	1,3-Dichlorobenzene	24000	U
106-46-7	1,4-Dichlorobenzene	24000	U
100-51-6	Benzyl Alcohol	24000	U
95-50-1	1,2-Dichlorobenzene	24000	U
95-48-7	2-Methylphenol	24000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	24000	U
106-44-5	4-Methylphenol	24000	U
621-64-7	N-Nitroso-Di-n-Propylamine	24000	U
67-72-1	Hexachloroethane	24000	U
98-95-3	Nitrobenzene	24000	U
78-59-1	Isophorone	24000	U
88-75-5	2-Nitrophenol	24000	U
105-67-9	2,4-Dimethylphenol	24000	U
65-85-0	Benzoic Acid	120000	U
111-91-1	bis(2-Chloroethoxy)Methane	24000	U
120-83-2	2,4-Dichlorophenol	24000	U
120-82-1	1,2,4-Trichlorobenzene	24000	U
91-20-3	Naphthalene	240	EJ
106-47-8	4-Chloroaniline	24000	U
87-68-3	Hexachlorobutadiene	24000	U
59-50-7	4-Chloro-3-Methylphenol	24000	U
91-57-6	2-Methylnaphthalene	200	EJ
77-47-4	Hexachlorocyclopentadiene	24000	U
88-06-2	2,4,6-Trichlorophenol	24000	U
95-95-4	2,4,5-Trichlorophenol	120000	U
91-58-7	2-Chloronaphthalene	24000	U
88-74-4	2-Nitroaniline	120000	U
131-11-3	Dimethyl Phthalate	24000	U
208-96-8	Acenaphthylene	24000	U
606-20-2	2,6-Dinitrotoluene	24000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869368

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK02

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 30 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	110000	U
83-32-9	Acenaphthene	24000	U
51-28-5	2,4-Dinitrophenol	110000	U
100-02-7	4-Nitrophenol	110000	U
132-64-9	Dibenzofuran	24000	U
121-14-2	2,4-Dinitrotoluene	24000	U
84-66-2	Diethylphthalate	24000	U
7005-72-3	4-Chlorophenyl-phenylether	24000	U
86-73-7	Fluorene	24000	U
100-10-6	4-Nitroaniline	110000	U
534-52-1	4,6-Dinitro-2-Methylphenol	110000	U
86-30-6	N-Nitrosodiphenylamine (1)	24000	U
101-55-3	4-Bromophenyl-phenylether	24000	U
118-74-1	Hexachlorobenzene	24000	U
87-86-5	Pentachlorophenol	110000	U
85-01-8	Phenanthrene	1000	BEJ
120-12-7	Anthracene	24000	U
84-74-2	Di-n-Butylphthalate	230	BEJ
206-44-0	Fluoranthene	1400	BEJ
129-00-0	Pyrene	1400	BEJ
85-68-7	Butylbenzylphthalate	24000	U
91-94-1	3,3'-Dichlorobenzidine	47000	U
56-55-3	Benzo(a)Anthracene	24000	U
218-01-9	Chrysene	24000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	570	J
117-84-0	Di-n-Octyl Phthalate	24000	U
205-99-2	Benzo(b)Fluoranthene	820	EJ
207-08-9	Benzo(k)Fluoranthene	24000	U
50-32-8	Benzo(a)Pyrene	310	EJ
193-39-5	Indeno(1,2,3-cd)Pyrene	24000	U
53-70-3	Dibenz(a,h)Anthracene	24000	U
191-24-2	Benzo(g,h,i)Perylene	24000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869368

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK02T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 30 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 70.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.13	1400	J
2. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	28.46	410	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869369

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1209LC08

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 29 Date Analyzed: 12/09/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	38	B
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-35-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
----------	Total Xylenes	7	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869369

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC16HK03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 29 dec. _____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/16/88

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 102

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	47000	U
111-44-4	bis(2-Chloroethyl)Ether	47000	U
95-57-8	2-Chlorophenol	47000	U
541-73-1	1,3-Dichlorobenzene	47000	U
106-46-7	1,4-Dichlorobenzene	47000	U
100-51-6	Benzyl Alcohol	47000	U
95-50-1	1,2-Dichlorobenzene	47000	U
95-48-7	2-Methylphenol	47000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	47000	U
106-44-5	4-Methylphenol	47000	U
621-64-7	N-Nitroso-Di-n-Propylamine	47000	U
67-72-1	Hexachloroethane	47000	U
98-95-3	Nitrobenzene	47000	U
78-59-1	Isophorone	47000	U
88-75-5	2-Nitrophenol	47000	U
105-67-9	2,4-Dimethylphenol	47000	U
65-85-0	Benzoic Acid	230000	U
111-91-1	bis(2-Chloroethoxy)Methane	47000	U
120-83-2	2,4-Dichlorophenol	47000	U
120-82-1	1,2,4-Trichlorobenzene	47000	U
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	47000	U
87-68-3	Hexachlorobutadiene	47000	U
59-50-7	4-Chloro-3-Methylphenol	47000	U
91-57-6	2-Methylnaphthalene	47000	U
77-47-4	Hexachlorocyclopentadiene	47000	U
88-06-2	2,4,6-Trichlorophenol	47000	U
95-95-4	2,4,5-Trichlorophenol	230000	U
91-58-7	2-Chloronaphthalene	47000	U
88-74-4	2-Nitroaniline	230000	U
131-11-3	Dimethyl Phthalate	47000	U
208-96-8	Acenaphthylene	47000	U
606-20-2	2,6-Dinitrotoluene	47000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869369

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC16HK03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 29 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/16/88

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 102

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	230000	U
83-32-9	Acenaphthene	47000	U
51-28-5	2,4-Dinitrophenol	230000	U
100-02-7	4-Nitrophenol	230000	U
132-64-9	Dibenzofuran	47000	U
121-14-2	2,4-Dinitrotoluene	47000	U
84-66-2	Diethylphthalate	47000	U
7005-72-3	4-Chlorophenyl-phenylether	47000	U
86-73-7	Fluorene	47000	U
100-10-6	4-Nitroaniline	230000	U
534-52-1	4,6-Dinitro-2-Methylphenol	230000	U
86-30-6	N-Nitrosodiphenylamine (1)	47000	U
101-55-3	4-Bromophenyl-phenylether	47000	U
118-74-1	Hexachlorobenzene	47000	U
87-86-5	Pentachlorophenol	2600	EJ
85-01-8	Phenanthrene	1100	BEJ
120-12-7	Anthracene	590	BEJ
84-74-2	Di-n-Butylphthalate	260	BEJ
206-44-0	Fluoranthene	1500	BEJ
129-00-0	Pyrene	1800	BEJ
85-68-7	Butylbenzylphthalate	800	EJ
91-94-1	3,3'-Dichlorobenzidine	95000	U
56-55-3	Benzo(a)Anthracene	1800	BEJ
218-01-9	Chrysene	3300	BEJ
117-81-7	bis(2-Ethylhexyl)Phthalate	47000	U
117-84-0	Di-n-Octyl Phthalate	47000	U
205-99-2	Benzo(b)Fluoranthene	47000	U
207-08-9	Benzo(k)Fluoranthene	820	EJ
50-32-8	Benzo(a)Pyrene	47000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	47000	U
53-70-3	Dibenz(a,h)Anthracene	47000	U
191-24-2	Benzo(g,h,i)Perylene	47000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869369

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC16HK03T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 29 dec. _____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/16/88

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 143

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	7.17	190	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869370

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC07

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 26 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	13	B
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-35-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
	Total Xylenes	7	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869370

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK05

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 26 dec. _____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	39	BJ
111-44-4	bis(2-Chloroethyl)Ether	2200	U
95-57-8	2-Chlorophenol	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U
106-46-7	1,4-Dichlorobenzene	2200	U
100-51-6	Benzyl Alcohol	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U
95-48-7	2-Methylphenol	2200	U
39638-32-9	bis(2-Chloroisopropyl)Ether	2200	U
106-44-5	4-Methylphenol	2200	U
621-64-7	N-Nitroso-Di-n-Propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2,4-Dimethylphenol	2200	U
65-85-0	Benzoic Acid	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	2200	U
120-83-2	2,4-Dichlorophenol	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U
91-20-3	Naphthalene	51	J
106-47-8	4-Chloroaniline	2200	U
87-68-3	Hexachlorobutadiene	2200	U
59-50-7	4-Chloro-3-Methylphenol	2200	U
91-57-6	2-Methylnaphthalene	62	J
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethyl Phthalate	2200	U
208-96-8	Acenaphthylene	2200	U
606-20-2	2,6-Dinitrotoluene	2200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869370

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK05

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 26 dec. _____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	2200	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2200	U
121-14-2	2,4-Dinitrotoluene	2200	U
84-66-2	Diethylphthalate	2200	U
7005-72-3	4-Chlorophenyl-phenylether	2200	U
86-73-7	Fluorene	2200	U
100-10-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-Methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2200	U
101-55-3	4-Bromophenyl-phenylether	2200	U
118-74-1	Hexachlorobenzene	2200	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	410	BEJ
120-12-7	Anthracene	2200	U
84-74-2	Di-n-Butylphthalate	70	BJ
206-44-0	Fluoranthene	940	BEJ
129-00-0	Pyrene	850	BEJ
85-68-7	Butylbenzylphthalate	2200	U
91-94-1	3,3'-Dichlorobenzidine	4500	U
56-55-3	Benzo(a)Anthracene	670	BEJ
218-01-9	Chrysene	740	BEJ
117-81-7	bis(2-Ethylhexyl)Phthalate	240	J
117-84-0	Di-n-Octyl Phthalate	2200	U
205-99-2	Benzo(b)Fluoranthene	480	EJ
207-08-9	Benzo(k)Fluoranthene	2200	U
50-32-8	Benzo(a)Pyrene	470	EJ
193-39-5	Indeno(1,2,3-cd)Pyrene	2200	U
53-70-3	Dibenz(a,h)Anthracene	2200	U
191-24-2	Benzo(g,h,i)Perylene	2200	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869370

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK05T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 26 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 7.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-21-4	ACETIC ACID, 1-METHYLETHYL E	6.50	930	J
2. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.18	21000	J B
3. 4305-26-4	2-HEXANONE, 6-(ACETYLOXY)-	8.90	390	J
4. 84-65-1	9,10-ANTHRACENEDIONE	24.55	48	J
5. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	28.52	4400	J
6. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	28.71	45	J
7. 6418-41-3	TRIDECANE, 3-METHYL-	29.76	72	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869371

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC06

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 18 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	25	B
67-64-1	Acetone	6	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
----------	Total Xylenes	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869371

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 18 dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
39638-32-9	bis(2-Chloroisopropyl)Ether	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	37	J
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	46	J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	25	J
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869371

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 18 dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	35	J
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-10-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	35	J
84-74-2	Di-n-Butylphthalate	170	EJ
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	810	U
56-55-3	Benzo(a)Anthracene	230	EJ
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U
117-84-0	Di-n-Octyl Phthalate	400	U
205-99-2	Benzo(b)Fluoranthene	400	U
207-08-9	Benzo(k)Fluoranthene	400	U
50-32-8	Benzo(a)Pyrene	400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
53-70-3	Dibenz(a,h)Anthracene	400	U
191-24-2	Benzo(g,h,i)Perylene	400	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869372

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC08

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 23 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
	Total Xylenes	6	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869371

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G04T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 18 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.000

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-21-4	ACETIC ACID, 1-METHYLETHYL E	6.52	4600	J
2. 4305-26-4	2-HEXANONE, 6-(ACETYLOXY)-	8.89	1700	J
3. 628-67-1	1,4-BUTANEDIOL, DIACETATE	9.94	310	J
4. 5343-96-4	2-BUTANOL, 3-METHYL-, ACETAT	10.40	550	J
5. 5343-96-4	2-BUTANOL, 3-METHYL-, ACETAT	10.77	330	J
6. 573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	17.74	120	J
7. 17301-33-6	UNDECANE, 4,8-DIMETHYL-	18.07	290	J
8. 10425-87-3	BENZYL ALCOHOL, .ALPHA.-ISOB	19.09	150	J
9. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	19.47	73	J
10. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	19.92	120	J
11. 54105-67-8	HEPTADECANE, 2,6-DIMETHYL-	21.15	750	J
12. 86-28-2	9H-CARBAZOLE, 9-ETHYL-	21.89	46	J
13. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	23.09	700	J
14. 54833-23-7	EICOSANE, 10-METHYL-	23.32	110	J
15. 17312-59-3	UNDECANE, 4-ETHYL-	25.39	140	J
16. 6418-45-7	NONADECANE, 3-METHYL-	27.31	85	J
17. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	28.39	1000	J
18. 111-65-9	OCTANE (DOT)	33.01	62	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869372

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC20G03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 23 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/20/88

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	48	J
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
39638-32-9	bis(2-Chloroisopropyl)Ether	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	49	J
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	49	J
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	24	J
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethyl Phthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869372

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC20G03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 23 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/20/88

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	12	J
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	25	J
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	28	BJ
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	10	JX
100-10-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	11	J
85-01-8	Phenanthrene	110	BJ
120-12-7	Anthracene	20	BJ
84-74-2	Di-n-Butylphthalate	170	BEJ
206-44-0	Fluoranthene	200	BEJ
129-00-0	Pyrene	160	BJ
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	860	U
56-55-3	Benzo(a)Anthracene	89	BJ
218-01-9	Chrysene	250	BEJ
117-81-7	bis(2-Ethylhexyl)Phthalate	430	U
117-84-0	Di-n-Octyl Phthalate	430	U
205-99-2	Benzo(b)Fluoranthene	160	J
207-08-9	Benzo(k)Fluoranthene	79	J
50-32-8	Benzo(a)Pyrene	430	U
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	Dibenz(a,h)Anthracene	430	U
191-24-2	Benzo(g,h,i)Perylene	430	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869372

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC20G03T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 23 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/20/88

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.000

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4305-26-4	2-HEXANONE, 6-(ACETYLOXY)-	8.97	1700	J
2. 5343-96-4	2-BUTANOL, 3-METHYL-, ACETAT	10.47	530	J
3. 628-68-2	ETHANOL, 2,2'-OXYBIS-, DIACE	10.82	330	J
4. 13362-80-6	QUINOLINE, 4,8-DIMETHYL-	18.09	56	J
5. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	19.99	160	J
6. 14002-51-8	[1,1'-BIPHENYL]-4-CARBONYL C	20.50	34	J
7. 30571-71-2	DECANE, 3-BROMO-	21.20	80	J
8. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	23.14	420	J
9. 84-65-1	9,10-ANTHRACENEDIONE	24.60	35	J
10. 6418-43-5	HEXADECANE, 3-METHYL-	26.46	35	J
11. 2381-21-7	PYRENE, 1-METHYL-	27.17	30	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869373

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC09

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-35-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
	Total Xylenes	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869373

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G06

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)Ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
100-51-6	Benzyl Alcohol	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
39638-32-9	bis(2-Chloroisopropyl)Ether	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-Di-n-Propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
65-85-0	Benzoic Acid	2200	U
111-91-1	bis(2-Chloroethoxy)Methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	9	J
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-Methylphenol	450	U
91-57-6	2-Methylnaphthalene	8	J
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethyl Phthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869373

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G06

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	10	J
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	10	J
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	24	BJ
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	6	J
100-10-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-Methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	150	BEJ
120-12-7	Anthracene	33	BJ
84-74-2	Di-n-Butylphthalate	99	BJ
206-44-0	Fluoranthene	170	BEJ
129-00-0	Pyrene	150	BEJ
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	900	U
56-55-3	Benzo(a)Anthracene	170	BEJX
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1200	
117-84-0	Di-n-Octyl Phthalate	450	U
205-99-2	Benzo(b)Fluoranthene	45	JX
207-08-9	Benzo(k)Fluoranthene	67	JX
50-32-8	Benzo(a)Pyrene	450	U
193-39-5	Indeno(1,2,3-cd)Pyrene	450	U
53-70-3	Dibenz(a,h)Anthracene	450	U
191-24-2	Benzo(g,h,i)Perylene	450	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869373

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G06T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.000

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 628-63-7	ACETIC ACID, PENTYL ESTER	5.70	73	J
2. 108-21-4	ACETIC ACID, 1-METHYLETHYL E	6.52	3200	J
3. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.25	69000	J
4. 4305-26-4	2-HEXANONE, 6-(ACETYLOXY)-	8.90	1500	J
5. 5343-96-4	2-BUTANOL, 3-METHYL-, ACETAT	10.42	640	J
6. 14250-88-5	PENTANAL, 2,2-DIMETHYL-	10.52	72	J
7. 587-89-3	BUTYRIC ACID, P-FLUOROPHENYL	10.79	110	J
8. 5905-01-1	[2,2'-BIFURAN]-5,5'-DICARBOX	16.67	90	J
9. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	19.94	160	J
10. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	23.09	480	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869374

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC10

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-35-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
	Total Xylenes	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869374

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G07

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2300	U
111-44-4	bis(2-Chloroethyl)Ether	2300	U
95-57-8	2-Chlorophenol	2300	U
541-73-1	1,3-Dichlorobenzene	2300	U
106-46-7	1,4-Dichlorobenzene	2300	U
100-51-6	Benzyl Alcohol	2300	U
95-50-1	1,2-Dichlorobenzene	2300	U
95-48-7	2-Methylphenol	2300	U
39638-32-9	bis(2-Chloroisopropyl)Ether	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-Di-n-Propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	2300	U
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
65-85-0	Benzoic Acid	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
120-82-1	1,2,4-Trichlorobenzene	2300	U
91-20-3	Naphthalene	9	J
106-47-8	4-Chloroaniline	2300	U
87-68-3	Hexachlorobutadiene	2300	U
59-50-7	4-Chloro-3-Methylphenol	2300	U
91-57-6	2-Methylnaphthalene	13	J
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethyl Phthalate	2300	U
208-96-8	Acenaphthylene	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869374

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G07

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	2300	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2300	U
121-14-2	2,4-Dinitrotoluene	2300	U
84-66-2	Diethylphthalate	24	BJ
7005-72-3	4-Chlorophenyl-phenylether	2300	U
86-73-7	Fluorene	2300	U
100-10-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-Methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2300	U
101-55-3	4-Bromophenyl-phenylether	2300	U
118-74-1	Hexachlorobenzene	2300	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	200	BEJ
120-12-7	Anthracene	27	BJ
84-74-2	Di-n-Butylphthalate	90	BJ
206-44-0	Fluoranthene	190	BEJ
129-00-0	Pyrene	140	BJ
85-68-7	Butylbenzylphthalate	2300	U
91-94-1	3,3'-Dichlorobenzidine	4500	U
56-55-3	Benzo(a)Anthracene	2300	U
218-01-9	Chrysene	2300	U
117-81-7	bis(2-Ethylhexyl)Phthalate	6600	
117-84-0	Di-n-Octyl Phthalate	2300	U
205-99-2	Benzo(b)Fluoranthene	2300	U
207-08-9	Benzo(k)Fluoranthene	2300	U
50-32-8	Benzo(a)Pyrene	2300	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2300	U
53-70-3	Dibenz(a,h)Anthracene	2300	U
191-24-2	Benzo(g,h,i)Perylene	2300	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869374

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15G07T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 27 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 7.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-21-4	ACETIC ACID, 1-METHYLETHYL E	6.50	460	J
2. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.17	9900	J
3. 3744-02-3	4-PENTEN-2-ONE, 4-METHYL-	8.89	180	J
4. 2916-31-6	1,3-DIOXOLANE, 2,2-DIMETHYL-	10.42	65	J
5. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	23.09	60	J
6. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	28.44	1000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869375

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1209LC02

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 21 Date Analyzed: 12/09/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	30	B
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
----------	Total Xylenes	6	U

DEC15H3.MSQ 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869375

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 21 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 97.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	41000	U
111-44-4	bis(2-Chloroethyl)Ether	41000	U
95-57-8	2-Chlorophenol	41000	U
541-73-1	1,3-Dichlorobenzene	41000	U
106-46-7	1,4-Dichlorobenzene	41000	U
100-51-6	Benzyl Alcohol	41000	U
95-50-1	1,2-Dichlorobenzene	41000	U
95-48-7	2-Methylphenol	41000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	41000	U
106-44-5	4-Methylphenol	41000	U
621-64-7	N-Nitroso-Di-n-Propylamine	41000	U
67-72-1	Hexachloroethane	41000	U
98-95-3	Nitrobenzene	41000	U
78-59-1	Isophorone	41000	U
88-75-5	2-Nitrophenol	41000	U
105-67-9	2,4-Dimethylphenol	41000	U
65-85-0	Benzoic Acid	200000	U
111-91-1	bis(2-Chloroethoxy)Methane	41000	U
120-83-2	2,4-Dichlorophenol	41000	U
120-82-1	1,2,4-Trichlorobenzene	41000	U
91-20-3	Naphthalene	1300	EJ
106-47-8	4-Chloroaniline	41000	U
87-68-3	Hexachlorobutadiene	41000	U
59-50-7	4-Chloro-3-Methylphenol	41000	U
91-57-6	2-Methylnaphthalene	490	EJ
77-47-4	Hexachlorocyclopentadiene	41000	U
88-06-2	2,4,6-Trichlorophenol	41000	U
95-95-4	2,4,5-Trichlorophenol	200000	U
91-58-7	2-Chloronaphthalene	41000	U
88-74-4	2-Nitroaniline	200000	U
131-11-3	Dimethyl Phthalate	41000	U
208-96-8	Acenaphthylene	41000	U
606-20-2	2,6-Dinitrotoluene	41000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869375

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 21 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 97.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	200000	U
83-32-9	Acenaphthene	2100	EJ
51-28-5	2,4-Dinitrophenol	200000	U
100-02-7	4-Nitrophenol	200000	U
132-64-9	Dibenzofuran	1800	EJ
121-14-2	2,4-Dinitrotoluene	41000	U
84-66-2	Diethylphthalate	41000	U
7005-72-3	4-Chlorophenyl-phenylether	41000	U
86-73-7	Fluorene	4300	EJ
100-10-6	4-Nitroaniline	200000	U
534-52-1	4,6-Dinitro-2-Methylphenol	200000	U
86-30-6	N-Nitrosodiphenylamine (1)	41000	U
101-55-3	4-Bromophenyl-phenylether	41000	U
118-74-1	Hexachlorobenzene	41000	U
87-86-5	Pentachlorophenol	200000	U
85-01-8	Phenanthrene	28000	BEJ
120-12-7	Anthracene	30000	BEJ
84-74-2	Di-n-Butylphthalate	210	BEJ
206-44-0	Fluoranthene	45000	BE
129-00-0	Pyrene	36000	BEJ
85-68-7	Butylbenzylphthalate	41000	U
91-94-1	3,3'-Dichlorobenzidine	81000	U
56-55-3	Benzo(a)Anthracene	14000	BEJ
218-01-9	Chrysene	16000	BEJ
117-81-7	bis(2-Ethylhexyl)Phthalate	41000	U
117-84-0	Di-n-Octyl Phthalate	41000	U
205-99-2	Benzo(b)Fluoranthene	7100	EJ
207-08-9	Benzo(k)Fluoranthene	41000	U
50-32-8	Benzo(a)Pyrene	8100	EJ
193-39-5	Indeno(1,2,3-cd)Pyrene	41000	U
53-70-3	Dibenz(a,h)Anthracene	41000	U
191-24-2	Benzo(g,h,i)Perylene	41000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869375

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK03T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 21 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 126

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.15	660	J
2. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	24.04	130	J
3. 2381-21-7	PYRENE, 1-METHYL-	27.31	43	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869376

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC11

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 19 Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	52	B
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	0.6	J
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
	Total Xylenes	6	U

DEC20G4.MSQ 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869376

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC20G04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 19 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/20/88

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4100	U
111-44-4	bis(2-Chloroethyl)Ether	4100	U
95-57-8	2-Chlorophenol	4100	U
541-73-1	1,3-Dichlorobenzene	4100	U
106-46-7	1,4-Dichlorobenzene	4100	U
100-51-6	Benzyl Alcohol	4100	U
95-50-1	1,2-Dichlorobenzene	4100	U
95-48-7	2-Methylphenol	4100	U
39638-32-9	bis(2-Chloroisopropyl)Ether	4100	U
106-44-5	4-Methylphenol	4100	U
621-64-7	N-Nitroso-Di-n-Propylamine	4100	U
67-72-1	Hexachloroethane	4100	U
98-95-3	Nitrobenzene	4100	U
78-59-1	Isophorone	4100	U
88-75-5	2-Nitrophenol	4100	U
105-67-9	2,4-Dimethylphenol	4100	U
65-85-0	Benzoic Acid	20000	U
111-91-1	bis(2-Chloroethoxy)Methane	4100	U
120-83-2	2,4-Dichlorophenol	4100	U
120-82-1	1,2,4-Trichlorobenzene	4100	U
91-20-3	Naphthalene	2600	EJ
106-47-8	4-Chloroaniline	4100	U
87-68-3	Hexachlorobutadiene	4100	U
59-50-7	4-Chloro-3-Methylphenol	4100	U
91-57-6	2-Methylnaphthalene	550	EJ
77-47-4	Hexachlorocyclopentadiene	4100	U
88-06-2	2,4,6-Trichlorophenol	4100	U
95-95-4	2,4,5-Trichlorophenol	20000	U
91-58-7	2-Chloronaphthalene	4100	U
88-74-4	2-Nitroaniline	20000	U
131-11-3	Dimethyl Phthalate	4100	U
208-96-8	Acenaphthylene	400	EJ
606-20-2	2,6-Dinitrotoluene	4100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869376

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC20G04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 19 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/20/88

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	20000	U
83-32-9	Acenaphthene	410	EJ
51-28-5	2,4-Dinitrophenol	20000	U
100-02-7	4-Nitrophenol	20000	U
132-64-9	Dibenzofuran	2000	EJ
121-14-2	2,4-Dinitrotoluene	4100	U
84-66-2	Diethylphthalate	4100	U
7005-72-3	4-Chlorophenyl-phenylether	4100	U
86-73-7	Fluorene	200	EJ
100-10-6	4-Nitroaniline	20000	U
534-52-1	4,6-Dinitro-2-Methylphenol	20000	U
86-30-6	N-Nitrosodiphenylamine (1)	4100	U
101-55-3	4-Bromophenyl-phenylether	4100	U
118-74-1	Hexachlorobenzene	4100	U
87-86-5	Pentachlorophenol	20000	U
85-01-8	Phenanthrene	11000	BE
120-12-7	Anthracene	2400	BEJ
84-74-2	Di-n-Butylphthalate	150	BJ
206-44-0	Fluoranthene	24000	BE
129-00-0	Pyrene	24000	BE
85-68-7	Butylbenzylphthalate	4100	U
91-94-1	3,3'-Dichlorobenzidine	8200	U
56-55-3	Benzo(a)Anthracene	14000	BE
218-01-9	Chrysene	28000	BE
117-81-7	bis(2-Ethylhexyl)Phthalate	27000	E
117-84-0	Di-n-Octyl Phthalate	4100	U
205-99-2	Benzo(b)Fluoranthene	21000	E
207-08-9	Benzo(k)Fluoranthene	16000	E
50-32-8	Benzo(a)Pyrene	14000	E
193-39-5	Indeno(1,2,3-cd)Pyrene	21000	E
53-70-3	Dibenz(a,h)Anthracene	3500	EJ
191-24-2	Benzo(g,h,i)Perylene	28000	E

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869376

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC20G04T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 19 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/20/88

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 12.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.18	570	J
2. 230-17-1	BENZO[C]CINNOLINE	21.95	430	J
3. 84-65-1	9,10-ANTHRACENEDIONE	24.59	300	J
4. 1591-30-6	[1,1'-BIPHENYL]-4,4'-DICARBO	25.46	510	J
5. 3353-12-6	PYRENE, 4-METHYL-	26.89	500	J
6. 2381-21-7	PYRENE, 1-METHYL-	27.14	570	J
7. 3353-12-6	PYRENE, 4-METHYL-	27.44	400	J
8. 3353-12-6	PYRENE, 4-METHYL-	27.71	410	J
9. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	28.51	500	J
10. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	28.71	390	J
11. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	29.09	330	J
12. 203-12-3	BENZO[GHI]FLUORANTHENE	29.27	690	J
13. 52558-80-2	L-ALANINE, N-(TRIFLUOROACETY	31.04	320	J
14. 3697-24-3	CHRYSENE, 5-METHYL-	31.99	280	J
15. 1090-13-7	5,12-NAPHTHACENEDIONE	32.21	250	J
16. 481-74-3	9,10-ANTHRACENEDIONE, 1,8-DI	35.47	400	J
17. 207-08-9	BENZO[K]FLUORANTHENE	36.81	470	J
18. 520-28-5	4H-1-BENZOPYRAN-4-ONE, 5-HYD	37.67	330	J
19. 205-82-3	BENZO[J]FLUORANTHENE	38.11	2600	J
20. 50-32-8	BENZO[A]PYRENE	39.22	490	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869377

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1209LC03

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 41 Date Analyzed: 12/09/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	46	B
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-35-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	4	J
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	17	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	Trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
	Total Xylenes	8	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869377

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 41 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	560000	U
111-44-4	bis(2-Chloroethyl)Ether	560000	U
95-57-8	2-Chlorophenol	560000	U
541-73-1	1,3-Dichlorobenzene	560000	U
106-46-7	1,4-Dichlorobenzene	560000	U
100-51-6	Benzyl Alcohol	560000	U
95-50-1	1,2-Dichlorobenzene	560000	U
95-48-7	2-Methylphenol	560000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	560000	U
106-44-5	4-Methylphenol	560000	U
621-64-7	N-Nitroso-Di-n-Propylamine	560000	U
67-72-1	Hexachloroethane	560000	U
98-95-3	Nitrobenzene	560000	U
78-59-1	Isophorone	560000	U
88-75-5	2-Nitrophenol	560000	U
105-67-9	2,4-Dimethylphenol	560000	U
65-85-0	Benzoic Acid	2700000	U
111-91-1	bis(2-Chloroethoxy)Methane	560000	U
120-83-2	2,4-Dichlorophenol	560000	U
120-82-1	1,2,4-Trichlorobenzene	560000	U
91-20-3	Naphthalene	11000	EJ
106-47-8	4-Chloroaniline	560000	U
87-68-3	Hexachlorobutadiene	560000	U
59-50-7	4-Chloro-3-Methylphenol	560000	U
91-57-6	2-Methylnaphthalene	560000	U
77-47-4	Hexachlorocyclopentadiene	560000	U
88-06-2	2,4,6-Trichlorophenol	560000	U
95-95-4	2,4,5-Trichlorophenol	2700000	U
91-58-7	2-Chloronaphthalene	560000	U
88-74-4	2-Nitroaniline	2700000	U
131-11-3	Dimethyl Phthalate	560000	U
208-96-8	Acenaphthylene	560000	U
606-20-2	2,6-Dinitrotoluene	560000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869377

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK04

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 41 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2700000	U
83-32-9	Acenaphthene	29000	EJ
51-28-5	2,4-Dinitrophenol	2700000	U
100-02-7	4-Nitrophenol	2700000	U
132-64-9	Dibenzofuran	10000	EJ
121-14-2	2,4-Dinitrotoluene	560000	U
84-66-2	Diethylphthalate	16000	BEJ
7005-72-3	4-Chlorophenyl-phenylether	560000	U
86-73-7	Fluorene	560000	U
100-10-6	4-Nitroaniline	2700000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2700000	U
86-30-6	N-Nitrosodiphenylamine (1)	560000	U
101-55-3	4-Bromophenyl-phenylether	560000	U
118-74-1	Hexachlorobenzene	560000	U
87-86-5	Pentachlorophenol	28000	EJ
85-01-8	Phenanthrene	16000	BEJ
120-12-7	Anthracene	42000	BEJ
84-74-2	Di-n-Butylphthalate	560000	U
206-44-0	Fluoranthene	1900000	BE
129-00-0	Pyrene	1500000	BE
85-68-7	Butylbenzylphthalate	560000	U
91-94-1	3,3'-Dichlorobenzidine	1100000	U
56-55-3	Benzo(a)Anthracene	540000	BEJ
218-01-9	Chrysene	590000	BE
117-81-7	bis(2-Ethylhexyl)Phthalate	560000	U
117-84-0	Di-n-Octyl Phthalate	560000	U
205-99-2	Benzo(b)Fluoranthene	180000	EJ
207-08-9	Benzo(k)Fluoranthene	560000	U
50-32-8	Benzo(a)Pyrene	140000	EJ
193-39-5	Indeno(1,2,3-cd)Pyrene	560000	U
53-70-3	Dibenz(a,h)Anthracene	560000	U
191-24-2	Benzo(g,h,i)Perylene	560000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869377

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC15HK04T

Level: (low/med) LOW Date Received: 11/30/88

% Moisture: not dec. 41 dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/15/88

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1700

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 613-12-7	ANTHRACENE, 2-METHYL-	23.80	95	J
2. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	24.02	410	J
3. 84-65-1	9,10-ANTHRACENEDIONE	24.54	92	J
4. 1591-30-6	[1,1'-BIPHENYL]-4,4'-DICARBO	25.39	130	J
5. 610-22-0	1,2-BENZENEDICARBOXYLIC ACID	25.97	90	J
6. 238-84-6	11H-BENZO[A]FLUORENE	26.79	190	J
7. 2381-21-7	PYRENE, 1-METHYL-	27.06	330	J
8. 238-84-6	11H-BENZO[A]FLUORENE	27.22	86	J
9. 3353-12-6	PYRENE, 4-METHYL-	27.34	200	J
10. 203-12-3	BENZO[GHI]FLUORANTHENE	29.16	120	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

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

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A1208LC01L

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

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

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A1208LC01M

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/08/88

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	180	J
67-64-1	Acetone	1500	E
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	500	U
75-35-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
78-93-3	2-Butanone	1000	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
108-05-4	Vinyl Acetate	1000	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	Trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	1000	U
591-78-6	2-Hexanone	1000	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
	Total Xylenes	500	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: ILLINOIS EPA Contract: 119040008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869485

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC14HK01

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	29	J
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869485

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC14HK01

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	32	J
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-10-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	4	J
120-12-7	Anthracene	4	J
84-74-2	Di-n-Butylphthalate	80	J
206-44-0	Fluoranthene	17	J
129-00-0	Pyrene	16	J
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	1	J
218-01-9	Chrysene	5	J
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix: (soil/water) SOIL Lab Sample ID: D869485

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DEC14HK01T

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/05/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/14/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.000

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 112-58-3	HEXANE, 1,1'-OXYBIS-	5.47	66	J
2. 10150-87-5	2-BUTANONE, 4-(ACETYLOXY)-	5.72	110	J
3. 108-21-4	ACETIC ACID, 1-METHYLETHYL E	6.55	1700	J
4. 625-06-9	2-PENTANOL, 2,4-DIMETHYL-	7.28	31000	J
5. 3744-02-3	4-PENTEN-2-ONE, 4-METHYL-	8.94	590	J
6. 3240-09-3	5-HEXEN-2-ONE, 5-METHYL-	10.44	190	J
7. 371-41-5	PHENOL, 4-FLUORO-	10.82	65	J
8. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	19.99	100	J
9. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	23.14	650	J
10. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	28.46	70	J

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	G201	103	92	94		0
02	G202	112 *	100	102		1
03	VBLK	108	90	92		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(88-110)
S2 (BFB)	= Bromofluorobenzene	(86-115)
S3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	G201	49	69	60	62	44	32		0
02	G201								0
03	G202	48	67	69	50	46	83		0
04	G202								0
05	SBLK	73	80	13	72	54	100		0
06	SBLK								0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VBLK	113	115	96		0
02	X102	113	69 *	91		1
03	X103	116	72 *	93		1
04	X104	116	83	103		0
05	X105	98	70 *	86		1
06	X106	117	93	104		0
07	X107	112	82	106		0
08	X108	104	95	114		0
09	X109	113	87	92		0
10	X110	121 *	82	94		1

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VBLK	99	90	85		0
02	VBLK					
03	X101	88	78	71		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-2 1/87 Rev.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

ab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	SBLK	47	64	63	40	37	60		1
02	X101	50	51	45	61	59	45		0
03	X102	35	46	53	49	51	35		0
04	X103	56	60	59	72	71	53		0
05	X104	67	85	110	90	81	65		0
06	X105	39	45	108	53	74	34		0
07	X106	51	64	56	63	67	28		0
08	X107	51	64	56	63	34	28		0
09	X108	43	48	47	55	54	60		0
10	X109	53	66	44	82	78	71		0
11	X110	47	51	111	61	62	44		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix Spike - EPA Sample No.: G201

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	30.7	61	61-145
Trichloroethene	50.0	0	47.3	95	71-120
Benzene	50.0	0	49.0	98	76-127
Toluene	50.0	0	45.8	92	76-125
Chlorobenzene	50.0	0	48.1	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	30.3	61	0	14	61-145
Trichloroethene	50.0	47.0	94	1	14	71-120
Benzene	50.0	49.4	99	-1	11	76-127
Toluene	50.0	47.9	96	-4	13	76-125
Chlorobenzene	50.0	49.1	98	-2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix Spike - EPA Sample No.: X104 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	71.6	143	59-172
Trichloroethene	50.0	0	48.2	96	62-137
Benzene	50.0	0	54.5	109	66-142
Toluene	50.0	0.0744	52.5	105	59-139
Chlorobenzene	50.0	0	57.3	115	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	70.8	142	1	22	59-172
Trichloroethene	50.0	47.8	96	0	24	62-137
Benzene	50.0	54.3	109	0	21	66-142
Toluene	50.0	51.5	103	2	21	59-139
Chlorobenzene	50.0	55.1	110	4	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Matrix Spike - EPA Sample No.: X101 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	400	0	97.8	24 *	26- 90
2-Chlorophenol	400	0	108	27	25-102
1,4-Dichlorobenzene	200	0	103	52	28 104
N-Nitroso-di-n-prop.(1)	200	0	186	93	41 126
1,2,4-Trichlorobenzene	200	0	122	61	38 107
4-Chloro-3-methylphenol	400	0	112	28	26 103
Acenaphthene	200	0	128	64	31-137
4-Nitrophenol	400	0	122	31	11-114
2,4-Dinitrotoluene	200	0	220	110 *	28- 89
Pentachlorophenol	400	0	98.8	25	17-109
Pyrene	200	0	80.0	40	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	400	91.8	23 *	4	35	26- 90
2-Chlorophenol	400	109	27	0	50	25-102
1,4-Dichlorobenzene	200	103	52	0	27	28 104
N-Nitroso-di-n-prop.(1)	200	248	124	-29	38	41 126
1,2,4-Trichlorobenzene	200	117	59	3	23	38 107
4-Chloro-3-methylphenol	400	112	28	0	33	26 103
Acenaphthene	200	125	63	2	19	31-137
4-Nitrophenol	400	124	31	0	50	11-114
2,4-Dinitrotoluene	200	298	149 *	-30	47	28- 89
Pentachlorophenol	400	94.6	24	4	47	17-109
Pyrene	200	80.0	40	0	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 4 out of 22 outside limits

COMMENTS: 69368 SONEX 10ML DIL 1/5 + INTERNAL STD 1UL
40(4MIN) TO 270 @ 10DEGREE/MIN DB-5 CAP. 30M

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1207LC03 Lab Sample ID: D869379

Date Analyzed: 12/07/88 Time Analyzed: 1135

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G201	D869378	A1207LC05	1250
02	G202	D869367	A1207LC04	1216
03	MS	D869378MS	A1207LC12	1706

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

.ab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1208LC01M Lab Sample ID: D869368

Date Analyzed: 12/08/88 Time Analyzed: 0924

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X101	D869368	A1208LC03	1040

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1208LC01L Lab Sample ID: D869371MS

Date Analyzed: 12/08/88 Time Analyzed: 0924

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		D869371MS	A1209LC09	1459
02		D869371MSD	A1209LC10	1533
03	X102	D869369	A1209LC08	1424
04	X103	D869370	A1208LC07	1313
05	X104	D869371	A1208LC06	1229
06	X105	D869372	A1208LC08	1357
07	X106	D869373	A1208LC09	1435
08	X107	D869374	A1208LC10	1515
09	X108	D869375	A1209LC02	1043
10	X109	D869376	A1208LC11	1552
11	X110	D869377	A1209LC03	1122

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC14HK01 Lab Sample ID: D869485

Date Extracted: 12/05/88 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 12/14/88 Time Analyzed: 1659

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: FINN

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	X101	D869368	DEC15HK02	12/15/88
02	X102	D869369	DEC16HK03	12/16/88
03	X103	D869370	DEC15HK05	12/15/88
04	X104	D869371	DEC15G04	12/15/88
05	X105	D869372	DEC20G03	12/20/88
06	X106	D869373	DEC15G06	12/15/88
07	X107	D869374	DEC15G07	12/15/88
08	X108	D869375	DEC15HK03	12/15/88
09	X109	D869376	DEC20G04	12/20/88
10	X110	D869377	DEC15HK04	12/15/88

COMMENTS: 69485 SONEX + INTERNAL STD 1UL 1.0ML **BLANK**
40(4MIN) TO 270 @ 10DEGREE/MIN DB-5 CAP. 30M

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC14G06 Lab Sample ID: D869441

Date Extracted: 12/02/88 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 12/14/88 Time Analyzed: 1526

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: FINN

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	G201	D869378	DEC14G05	12/14/88
02	G201	D869378	DEC14G05T	12/14/88
03	G202	D869367	DEC14G04	12/14/88
04	G202	D869367	DEC14G04T	12/14/88
05	WMATRIX	D869439	DEC20G06	12/20/88
06	WMATRIX	D869439	DEC20G06	12/20/88
07	WMATRIX	D869439	DEC20G06	12/20/88
08	WMATRIX	D869439	DEC20G06	12/20/88

COMMENTS: 69441 OH-/H+ + INTERNAL ***BLANK*** 1.0ML-1UL
40(4MIN) TO 270 @ 10DEGREE/MIN DB-5 CAP. 30M

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1202LC05 BFB Injection Date: 12/02/88

Instrument ID: 5100 BFB Injection Time: 1114

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.6
75	30.0 - 60.0% of mass 95	35.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	Greater than 50.0% of mass 95	62.0
175	5.0 - 9.0% of mass 174	3.8 (6.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	59.3 (95.6)1
177	5.0 - 9.0% of mass 176	4.3 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01			A1202LC10	12/02/88	1740
02			A1202LC11	12/02/88	1814
03			A1202LC13	12/02/88	1921
04			A1202LC15	12/02/88	2029
05			A1202LC17	12/02/88	2137

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1207LC07 BFB Injection Date: 12/07/88

Instrument ID: 5100 BFB Injection Time: 1406

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	13.4
75	30.0 - 60.0% of mass 95	37.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	Greater than 50.0% of mass 95	60.0
175	5.0 - 9.0% of mass 174	4.2 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	58.1 (96.8)1
177	5.0 - 9.0% of mass 176	3.8 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLK	D869379	A1207LC03	12/07/88	1135
02	G202	D869367	A1207LC04	12/07/88	1216
03	G201	D869378	A1207LC05	12/07/88	1250
04			A1207LC07	12/07/88	1406
05	MS	D869378MS	A1207LC12	12/07/88	1706
06		D869378MSD	A1207LC13	12/07/88	1739

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1208LC01 BFB Injection Date: 12/08/88

Instrument ID: 5100 BFB Injection Time: 0924

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	13.7
75	30.0 - 60.0% of mass 95	37.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	Greater than 50.0% of mass 95	58.6
175	5.0 - 9.0% of mass 174	4.3 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	57.1 (97.4)1
177	5.0 - 9.0% of mass 176	2.2 (3.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLK		A1208LC01L	12/08/88	0924
02	VBLK		A1208LC01M	12/08/88	0924
03	X101	D869368	A1208LC03	12/08/88	1040
04			A1208LC04	12/08/88	1122
05	X104	D869371	A1208LC06	12/08/88	1229
06	X103	D869370	A1208LC07	12/08/88	1313
07	X105	D869372	A1208LC08	12/08/88	1357
08	X106	D869373	A1208LC09	12/08/88	1435
09	X107	D869374	A1208LC10	12/08/88	1515
10	X109	D869376	A1208LC11	12/08/88	1552

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: A1209LC05 BFB Injection Date: 12/09/88

Instrument ID: 5100 BFB Injection Time: 1241

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	13.4
75	30.0 - 60.0% of mass 95	37.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	56.7
175	5.0 - 9.0% of mass 174	3.9 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	55.4 (97.7)1
177	5.0 - 9.0% of mass 176	2.0 (3.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	X108	D869375	A1209LC02	12/09/88	1043
02	X110	D869377	A1209LC03	12/09/88	1122
03			A1209LC05	12/09/88	1241
04	X102	D869369	A1209LC08	12/09/88	1424
05		D869371MS	A1209LC09	12/09/88	1459
06		D869371MSD	A1209LC10	12/09/88	1533

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC08G01 DFTPP Injection Date: 12/08/88

Instrument ID: INCOS50 DFTPP Injection Time: 0820

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.9
68	Less than 2.0% of mass 69	0.4 (0.9)1
69	Mass 69 relative abundance	43.0
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	47.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	19.2
365	Greater than 1.00% of mass 198	2.59
441	Present, but less than mass 443	11.5
442	Greater than 40.0% of mass 198	84.9
443	17.0 - 23.0% of mass 442	15.3 (18.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01			DEC08G02	12/08/88	1010
02			DEC08G05	12/08/88	1422
03			DEC08HK03	12/08/88	1905
04			DEC08HK06	12/08/88	2216

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC14G01 DFTPP Injection Date: 12/14/88

Instrument ID: INCOS50 DFTPP Injection Time: 0854

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.3
68	Less than 2.0% of mass 69	0.2 (0.5)1
69	Mass 69 relative abundance	38.0
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	41.5
197	Less than 1.0% of mass 198	0.1
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 1.00% of mass 198	2.37
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	75.9
443	17.0 - 23.0% of mass 442	14.1 (18.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01			DEC14G02	12/14/88	1027
02	G202	D869367	DEC14G04	12/14/88	1311
03	G202	D869367	DEC14G04T	12/14/88	1311
04	G201	D869378	DEC14G05	12/14/88	1420
05	G201	D869378	DEC14G05T	12/14/88	1420
06	SBLK	D869441	DEC14G06	12/14/88	1526
07	SBLK	D869485	DEC14HK01	12/14/88	1659
08	SBLK	D869485	DEC14HK01T	12/14/88	1659
09	SBLK	D869485	DEC14HK01	12/14/88	1659

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS-EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC15G01 DFTPP Injection Date: 12/15/88

Instrument ID: INCOS50 DFTPP Injection Time: 0823

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.3 (0.8)1
69	Mass 69 relative abundance	40.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	44.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	19.2
365	Greater than 1.00% of mass 198	2.45
441	Present, but less than mass 443	10.9
442	Greater than 40.0% of mass 198	84.9
443	17.0 - 23.0% of mass 442	14.9 (17.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01			DEC15G02	12/15/88	0859
02	X104	D869371	DEC15G04	12/15/88	1141
03	X104	D869371	DEC15G04T	12/15/88	1141
04	X106	D869373	DEC15G06	12/15/88	1356
05	X106	D869373	DEC15G06T	12/15/88	1356
06	X107	D869374	DEC15G07	12/15/88	1507
07	X107	D869374	DEC15G07T	12/15/88	1507
08	X101	D869368	DEC15HK02	12/15/88	1845
09	X101	D869368	DEC15HK02T	12/15/88	1845
10	X108	D869375	DEC15HK03	12/15/88	1952
11	X108	D869375	DEC15HK03T	12/15/88	1952
12	X110	D869377	DEC15HK04	12/15/88	2058
13	X110	D869377	DEC15HK04T	12/15/88	2058
14	X103	D869370	DEC15HK05	12/15/88	2204
15	X103	D869370	DEC15HK05T	12/15/88	2204

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC16HK01 DFTPP Injection Date: 12/16/88

Instrument ID: INCOS50 DFTPP Injection Time: 1703

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.4
68	Less than 2.0% of mass 69	0.2 (0.6)1
69	Mass 69 relative abundance	40.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	44.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	19.6
365	Greater than 1.00% of mass 198	2.38
441	Present, but less than mass 443	11.2
442	Greater than 40.0% of mass 198	86.0
443	17.0 - 23.0% of mass 442	15.7 (18.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01			DEC16HK02	12/16/88	1756
02	X102	D869369	DEC16HK03	12/16/88	2019
03	X102	D869369	DEC16HK03T	12/16/88	2019

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID: DEC20G01 DFTPP Injection Date: 12/20/88

Instrument ID: INCOS50 DFTPP Injection Time: 1343

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.1
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	44.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	20.4
365	Greater than 1.00% of mass 198	2.53
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	96.8
443	17.0 - 23.0% of mass 442	17.8 (18.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01			DEC20G02	12/20/88	1419
02	X105	D869372	DEC20G03	12/20/88	1525
03	X105	D869372	DEC20G03T	12/20/88	1525
04	X109	D869376	DEC20G04	12/20/88	1631
05	X109	D869376	DEC20G04T	12/20/88	1631
06			DEC20G05	12/20/88	1847
07	WMATRIX	D869439	DEC20G06	12/20/88	1951
08	WMATRIX	D869439	DEC20G06	12/20/88	1951
09	WMATRIX	D869439	DEC20G06	12/20/88	1951
10	WMATRIX	D869439	DEC20G06	12/20/88	1951
11	WDMATRIX	D869439R	DEC20G07	12/20/88	2102
12	WDMATRIX	D869439R	DEC20G07	12/20/88	2102
13	WDMATRIX	D869439R	DEC20G07	12/20/88	2102
14	WDMATRIX	D869439R	DEC20G07	12/20/88	2102
15	SMATRIX	D869484	DEC20G08	12/20/88	2213
16	SMATRIX	D869484	DEC20G08	12/20/88	2213
17	SMATRIX	D869484	DEC20G08	12/20/88	2213
18	SMATRIX	D869484	DEC20G08	12/20/88	2213
19	SMATRIX	D869484	DEC20G08	12/20/88	2213
20	SMATRIX	D869484	DEC20G08	12/20/88	2213
21	SMATRIX	D869484	DEC20G08	12/20/88	2213

5A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: 5100 , Calibration Date(s): 12/02/88 12/02/88

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = A1202LC10 RRF50 = A1202LC11
RRF100= A1202LC13 RRF150= A1202LC15 RRF200= A1202LC17

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane #	1.900	2.015	2.412	2.433	2.177	2.187	10.8#
Bromomethane	1.412	1.615	1.715	1.542	1.850	1.627	10.2
Vinyl Chloride *	2.708	2.802	3.467	3.547	3.651	3.235	13.7*
Chloroethane	0.794	0.849	0.794	0.941	0.901	0.856	7.6
Methylene Chloride	3.098	3.240	2.950	3.239	2.938	3.093	4.8
Acetone	0.500	0.519	0.518	0.512	0.609	0.532	8.3
Carbon Disulfide	6.003	6.521	6.956	6.423	6.509	6.482	5.2
1,1-Dichloroethene *	2.138	2.101	1.876	1.750	1.413	1.856	15.9*
1,1-Dichloroethane #	5.156	6.377	6.378	5.938	5.674	5.905	8.7#
1,2-Dichloroethene (total)	3.174	3.456	3.470	3.403	3.520	3.405	4.0
Chloroform *	5.627	8.074	9.835	10.485	10.098	8.824	22.8*
1,2-Dichloroethane	0.316	0.333	0.332	0.338	0.330	0.330	2.5
2-Butanone	0.022	0.032	0.032	0.032	0.031	0.030	14.6
1,1,1-Trichloroethane	3.261	4.629	5.707	6.475	6.250	5.264	25.2
Carbon Tetrachloride	0.235	0.254	0.249	0.238	0.220	0.239	5.5
Vinyl Acetate	0.201	0.210	0.234	0.227	0.301	0.235	16.8
Bromodichloromethane	0.354	0.399	0.407	0.418	0.441	0.404	7.9
1,2-Dichloropropane *	0.406	0.424	0.412	0.423	0.422	0.417	1.9*
cis-1,3-Dichloropropene	0.291	0.301	0.341	0.383	0.424	0.348	16.1
Trichloroethene	0.350	0.373	0.359	0.362	0.364	0.362	2.3
Dibromochloromethane	0.299	0.334	0.383	0.449	0.465	0.386	18.5
1,1,2-Trichloroethane	0.376	0.422	0.459	0.478	0.483	0.444	10.1
Benzene	1.083	1.128	1.049	0.989	0.868	1.023	9.8
Trans-1,3-Dichloropropene	0.690	0.845	0.910	0.939	0.994	0.876	13.3
Bromoform #	0.172	0.207	0.228	0.261	0.276	0.229	18.2#
4-Methyl-2-Pentanone	0.197	0.209	0.239	0.212	0.191	0.210	8.8
2-Hexanone	0.141	0.153	0.156	0.161	0.151	0.152	4.9
Tetrachloroethene	0.299	0.324	0.313	0.325	0.321	0.316	3.4
1,1,2,2-Tetrachloroethane #	0.575	0.641	0.722	0.876	0.929	0.749	20.2#
Toluene *	1.434	1.666	1.832	1.876	1.854	1.732	10.8*
Chlorobenzene #	0.882	1.052	1.104	1.143	1.164	1.069	10.6#
Ethylbenzene *	0.456	0.555	0.581	0.634	0.613	0.568	12.2*
Styrene	1.046	1.056	1.046	1.076	1.212	1.087	6.5
Total Xylenes	0.603	0.741	0.758	0.825	0.779	0.741	11.3
Toluene-d8							
BFB							
1,2-Dichloroethane-d4							

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration Date(s): 12/08/88 12/08/88

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = DEC08G02 RRF50 = DEC08G05
RRF80 = DEC08HK03 RRF120= DEC08HK05 RRF160= DEC08HK06

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	0.871	0.971	0.993	0.960	0.864	0.932	6.4*
bis(2-Chloroethyl)Ether	0.708	0.735	0.712	0.665	0.620	0.688	6.6
2-Chlorophenol	0.812	0.827	0.818	0.759	0.700	0.783	6.8
1,3-Dichlorobenzene	0.968	0.905	0.848	0.774	0.707	0.840	12.3
1,4-Dichlorobenzene *	1.000	0.939	0.871	0.808	0.733	0.870	12.1*
Benzyl Alcohol	0.380	0.448	0.459	0.442	0.390	0.424	8.5
1,2-Dichlorobenzene	0.937	0.895	0.850	0.763	0.704	0.830	11.5
2-Methylphenol	0.638	0.701	0.695	0.666	0.573	0.655	8.0
bis(2-Chloroisopropyl)Ether	1.149	1.231	1.275	1.191	1.085	1.186	6.2
4-Methylphenol	0.626	0.744	0.752	0.702	0.597	0.684	10.2
N-Nitroso-Di-n-Propylamine #	0.468	0.550	0.606	0.578	0.479	0.536	11.3#
Hexachloroethane	0.389	0.397	0.381	0.356	0.319	0.368	8.6
Nitrobenzene	0.269	0.314	0.350	0.374	0.374	0.336	13.4
Isophorone	0.630	0.750	0.786	0.815	0.738	0.744	9.5
2-Nitrophenol *	0.157	0.192	0.212	0.219	0.211	0.198	12.7*
2,4-Dimethylphenol	0.320	0.385	0.401	0.417	0.415	0.388	10.3
Benzoic Acid		0.167	0.168	0.203	0.185	0.181	9.4
bis(2-Chloroethoxy)Methane	0.441	0.481	0.518	0.532	0.500	0.494	7.2
2,4-Dichlorophenol *	0.302	0.348	0.349	0.355	0.343	0.339	6.3*
1,2,4-Trichlorobenzene	0.398	0.394	0.372	0.362	0.350	0.375	5.5
Naphthalene	1.202	1.252	1.238	1.259	1.228	1.236	1.8
4-Chloroaniline	0.265	0.349	0.477	0.494	0.453	0.408	23.9
Hexachlorobutadiene *	0.254	0.230	0.206	0.207	0.211	0.222	9.3*
4-Chloro-3-Methylphenol *	0.250	0.364	0.374	0.359	0.330	0.335	15.1*
2-Methylnaphthalene	0.719	0.785	0.751	0.759	0.695	0.742	4.7
Hexachlorocyclopentadiene #	0.201	0.204	0.225	0.323	0.328	0.256	25.0#
2,4,6-Trichlorophenol *	0.517	0.477	0.475	0.516	0.477	0.492	4.5*
2,4,5-Trichlorophenol		0.488	0.463	0.484	0.473	0.477	2.4
2-Chloronaphthalene	1.700	1.470	1.464	1.621	1.504	1.552	6.7
2-Nitroaniline		0.343	0.387	0.351	0.418	0.375	9.2
Dimethyl Phthalate	1.248	1.493	1.457	1.188	1.430	1.363	10.0
Acenaphthylene	2.083	2.238	2.141	2.186	2.218	2.173	2.9
2,6-Dinitrotoluene	0.139	0.267	0.279	0.214	0.274	0.235	25.3
3-Nitroaniline		0.336	0.369	0.247	0.352	0.326	16.7
Acenaphthene *	1.407	1.368	1.379	1.429	1.401	1.397	1.7*
2,4-Dinitrophenol #		0.146	0.147	0.090	0.136	0.130	20.7#
4-Nitrophenol #		0.262	0.258	0.146	0.216	0.221	24.4#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration Date(s): 12/08/88 12/08/88

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = DEC08G02 RRF50 = DEC08G05
RRF80 = DEC08HK03 RRF120= DEC08HK05 RRF160= DEC08HK06

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.899	2.006	1.893	1.733	1.857	1.878	5.2
2,4-Dinitrotoluene	0.145	0.386	0.373	0.228	0.332	0.293	35.3
Diethylphthalate	1.187	1.583	1.483	1.041	1.447	1.348	16.7
4-Chlorophenyl-phenylether	0.695	0.704	0.670	0.577	0.645	0.658	7.7
Fluorene	1.346	1.472	1.462	1.211	1.434	1.385	7.9
4-Nitroaniline		0.352	0.342	0.198	0.255	0.287	25.6
4,6-Dinitro-2-Methylphenol		0.127	0.130	0.111	0.117	0.121	7.3
N-Nitrosodiphenylamine (1) *						0.000	0.0*
4-Bromophenyl-phenylether	0.311	0.254	0.239	0.290	0.251	0.269	11.2
Hexachlorobenzene	0.359	0.303	0.294	0.314	0.292	0.312	8.8
Pentachlorophenol *		0.184	0.178	0.171	0.167	0.175	4.3*
Phenanthrene	1.133	1.150	1.100	1.076	1.053	1.102	3.6
Anthracene	1.036	1.118	1.062	1.030	1.026	1.054	3.6
Di-n-Butylphthalate	0.709	1.499	1.436	1.250	1.346	1.248	25.3
Fluoranthene *	0.687	1.222	1.125	0.933	0.749	0.943	24.5*
Pyrene	0.746	1.273	1.147	0.933	0.721	0.964	25.2
Butylbenzylphthalate	0.361	0.851	0.933	0.874	1.107	0.825	33.7
3,3'-Dichlorobenzidine	0.099	0.426	0.544	0.404	0.334	0.361	45.7
Benzo(a)Anthracene	1.069	1.416	1.365	1.249	1.287	1.277	10.5
Chrysene	1.050	1.146	1.137	1.143	1.119	1.119	3.6
bis(2-Ethylhexyl)Phthalate						0.000	0.0
Di-n-Octyl Phthalate *	1.768	2.913	3.005	3.636	3.200	2.904	23.9*
Benzo(b)Fluoranthene	2.171	1.982	1.568	2.192	2.309	2.044	14.2
Benzo(k)Fluoranthene	2.171	1.817	1.568	2.192	2.309	2.011	15.4
Benzo(a)Pyrene *	1.484	1.822	1.713	1.982	1.899	1.780	10.8*
Indeno(1,2,3-cd)Pyrene	0.239	1.508	1.431	1.322	0.737	1.047	52.0
Dibenz(a,h)Anthracene		1.404	1.421	1.379	0.720	0.985	63.4
Benzo(g,h,i)Perylene		1.654	1.511	1.522	0.317	1.001	77.8
Nitrobenzene-d5						0.000	0.0
2-Fluorobiphenyl						0.000	0.0
Terphenyl-d14						0.000	0.0
Phenol-d5						0.000	0.0
2-Fluorophenyl						0.000	0.0
2,4,6-Tribromophenol						0.000	0.0

(1) Cannot be separated from Diphenylamine

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: 5100 Calibration date: 12/07/88 Time: 1406

Lab File ID: A1207LC07 Init. Calib. Date(s): 12/02/88 12/02/88

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	2.187	2.066	5.5	#
Bromomethane		1.627	1.615	0.7	
Vinyl Chloride	*	3.235	2.513	22.3	*
Chloroethane		0.856	0.849	0.8	
Methylene Chloride		3.093	3.446	-11.4	
Acetone		0.532	0.519	2.4	
Carbon Disulfide		6.482	6.515	-0.5	
1,1-Dichloroethene	*	1.856	1.933	-4.1	*
1,1-Dichloroethane	#	5.905	6.992	-18.4	#
1,2-Dichloroethene (total)		3.405		100.0	
Chloroform	*	8.824	7.182	18.6	*
1,2-Dichloroethane		0.330	0.238	27.9	
2-Butanone		0.030	0.026	13.3	
1,1,1-Trichloroethane		5.264	3.483	33.8	
Carbon Tetrachloride		0.239	0.185	22.6	
Vinyl Acetate		0.235	0.227	3.4	
Bromodichloromethane		0.404	0.324	19.8	
1,2-Dichloropropane	*	0.417	0.416	0.2	*
cis-1,3-Dichloropropene		0.348	0.152	56.3	
Trichloroethene		0.362	0.353	2.5	
Dibromochloromethane		0.386	0.358	7.3	
1,1,2-Trichloroethane		0.444	0.339	23.7	
Benzene		1.023	1.017	0.6	
Trans-1,3-Dichloropropene		0.876	0.284	67.6	
Bromoform	#	0.229	0.244	-6.6	#
4-Methyl-2-Pentanone		0.210	0.231	-10.0	
2-Hexanone		0.152	0.153	-0.7	
Tetrachloroethene		0.316	0.410	-29.8	
1,1,2,2-Tetrachloroethane	#	0.749	0.477	36.3	#
Toluene	*	1.732	1.389	19.8	*
Chlorobenzene	#	1.069	1.032	3.5	#
Ethylbenzene	*	0.568	0.529	6.9	*
Styrene		1.087	1.056	2.9	
Total Xylenes		0.741	0.680	8.2	
Toluene-d8			0.534	-99.9	
BFB		0.002	0.863	-99.9	
1,2-Dichloroethane-d4			0.100	-99.9	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: 5100 Calibration date: 12/08/88 Time: 1122

Lab File ID: A1208LC04 Init. Calib. Date(s): 12/02/88 12/02/88

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	2.187	2.179	0.4	#
Bromomethane		1.627	1.734	-6.6	
Vinyl Chloride	*	3.235	3.272	-1.1	*
Chloroethane		0.856	0.827	3.4	
Methylene Chloride		3.093	2.286	26.1	
Acetone		0.532	0.591	-11.1	
Carbon Disulfide		6.482	2.769	57.3	
1,1-Dichloroethene	*	1.856	1.741	6.2	*
1,1-Dichloroethane	#	5.905	5.043	14.6	#
1,2-Dichloroethene (total)		3.405		100.0	
Chloroform	*	8.824	9.188	-4.1	*
1,2-Dichloroethane		0.330	0.281	14.9	
2-Butanone		0.030	0.051	-70.0	
1,1,1-Trichloroethane		5.264	3.958	24.8	
Carbon Tetrachloride		0.239	0.155	35.2	
Vinyl Acetate		0.235	0.175	25.5	
Bromodichloromethane		0.404	0.327	19.1	
1,2-Dichloropropane	*	0.417	0.458	-9.8	*
cis-1,3-Dichloropropene		0.348	0.173	50.3	
Trichloroethene		0.362	0.373	-3.0	
Dibromochloromethane		0.386	0.350	9.3	
1,1,2-Trichloroethane		0.444	0.439	1.1	
Benzene		1.023	1.178	-15.2	
Trans-1,3-Dichloropropene		0.876	0.352	59.8	
Bromoform	#	0.229	0.317	-38.4	#
4-Methyl-2-Pentanone		0.210	0.649	-99.9	
2-Hexanone		0.152	0.390	-99.9	
Tetrachloroethene		0.316	0.401	-26.9	
1,1,2,2-Tetrachloroethane	#	0.749	0.908	-21.2	#
Toluene	*	1.732	1.610	7.0	*
Chlorobenzene	#	1.069	1.073	-0.4	#
Ethylbenzene	*	0.568	0.560	1.4	*
Styrene		1.087	1.114	-2.5	
Total Xylenes		0.741	0.681	8.1	
Toluene-d8			0.566	-99.9	
BFB		0.002	0.868	-99.9	
1,2-Dichloroethane-d4			0.118	-99.9	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: 5100 Calibration date: 12/09/88 Time: 1241

Lab File ID: A1209LC05 Init. Calib. Date(s): 12/02/88 12/02/88

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	2.187	1.978	9.6	#
Bromomethane		1.627	1.799	-10.6	
Vinyl Chloride	*	3.235	3.153	2.5	*
Chloroethane		0.856	0.862	-0.7	
Methylene Chloride		3.093	2.139	30.8	
Acetone		0.532	1.409	-99.9	
Carbon Disulfide		6.482	3.145	51.5	
1,1-Dichloroethene	*	1.856	1.036	44.2	*
1,1-Dichloroethane	#	5.905	4.682	20.7	#
1,2-Dichloroethene (total)		3.405		100.0	
Chloroform	*	8.824	7.370	16.5	*
1,2-Dichloroethane		0.330	0.269	18.5	
2-Butanone		0.030	0.095	-99.9	
1,1,1-Trichloroethane		5.264	3.321	36.9	
Carbon Tetrachloride		0.239	0.169	29.3	
Vinyl Acetate		0.235	0.201	14.5	
Bromodichloromethane		0.404	0.343	15.1	
1,2-Dichloropropane	*	0.417	0.445	-6.7	*
cis-1,3-Dichloropropene		0.348	0.163	53.2	
Trichloroethene		0.362	0.393	-8.6	
Dibromochloromethane		0.386	0.378	2.1	
1,1,2-Trichloroethane		0.444	0.436	1.8	
Benzene		1.023	1.102	-7.7	
Trans-1,3-Dichloropropene		0.876	0.382	56.4	
Bromoform	#	0.229	0.310	-35.4	#
4-Methyl-2-Pentanone		0.210	0.720	-99.9	
2-Hexanone		0.152	0.387	-99.9	
Tetrachloroethene		0.316	0.401	-26.9	
1,1,2,2-Tetrachloroethane	#	0.749	0.840	-12.2	#
Toluene	*	1.732	1.607	7.2	*
Chlorobenzene	#	1.069	1.028	3.8	#
Ethylbenzene	*	0.568	0.538	5.3	*
Styrene		1.087	1.096	-0.8	
Total Xylenes		0.741	0.683	7.8	
Toluene-d8			0.579	-99.9	
BFB		0.002	0.798	-99.9	
1,2-Dichloroethane-d4			0.117	-99.9	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/14/88 Time: 1027

Lab File ID: DEC14G02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol *	0.932	1.009	-8.3 *
bis(2-Chloroethyl)Ether	0.688	0.726	-5.5
2-Chlorophenol	0.783	0.812	-3.7
1,3-Dichlorobenzene	0.840	0.931	-10.8
1,4-Dichlorobenzene *	0.870	0.955	-9.8 *
Benzyl Alcohol	0.424	0.341	19.6
1,2-Dichlorobenzene	0.830	0.899	-8.3
2-Methylphenol	0.655	0.660	-0.8
bis(2-Chloroisopropyl)Ether	1.186	0.914	22.9
4-Methylphenol	0.684	0.674	1.5
N-Nitroso-Di-n-Propylamine #	0.536	0.434	19.0 #
Hexachloroethane	0.368	0.395	-7.3
Nitrobenzene	0.336	0.374	-11.3
Isophorone	0.744	0.677	9.0
2-Nitrophenol *	0.198	0.180	9.1 *
2,4-Dimethylphenol	0.388	0.373	3.9
Benzoic Acid	0.181	0.139	23.2
bis(2-Chloroethoxy)Methane	0.494	0.434	12.2
2,4-Dichlorophenol *	0.339	0.366	-8.0 *
1,2,4-Trichlorobenzene	0.375	0.409	-9.1
Naphthalene	1.236	1.181	4.5
4-Chloroaniline	0.408	0.286	29.9
Hexachlorobutadiene *	0.222	0.246	-10.8 *
4-Chloro-3-Methylphenol *	0.335	0.325	3.0 *
2-Methylnaphthalene	0.742	0.731	1.5
Hexachlorocyclopentadiene #	0.256	0.177	30.9 #
2,4,6-Trichlorophenol *	0.492	0.568	-15.5 *
2,4,5-Trichlorophenol	0.477	0.561	-17.6
2-Chloronaphthalene	1.552	1.619	-4.3
2-Nitroaniline	0.375	0.227	39.5
Dimethyl Phthalate	1.363	1.572	-15.3
Acenaphthylene	2.173	2.233	-2.8
2,6-Dinitrotoluene	0.235	0.237	-0.9
3-Nitroaniline	0.326	0.242	25.8
Acenaphthene *	1.397	1.360	2.6 *
2,4-Dinitrophenol #	0.130	0.077	40.8 #
4-Nitrophenol #	0.221	0.141	36.2 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/14/88 Time: 1027

Lab File ID: DEC14G02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.878	2.039	-8.6
2,4-Dinitrotoluene	0.293	0.294	-0.3
Diethylphthalate	1.348	1.418	-5.2
4-Chlorophenyl-phenylether	0.658	0.742	-12.8
Fluorene	1.385	1.439	-3.9
4-Nitroaniline	0.287	0.167	41.8
4,6-Dinitro-2-Methylphenol	0.121	0.081	33.1
N-Nitrosodiphenylamine (1) *			*
4-Bromophenyl-phenylether	0.269	0.298	-10.8
Hexachlorobenzene	0.312	0.334	-7.1
Pentachlorophenol *	0.175	0.167	4.6 *
Phenanthrene	1.102	1.077	2.3
Anthracene	1.054	1.048	0.6
Di-n-Butylphthalate	1.248	1.011	19.0
Fluoranthene *	0.943	0.889	5.7 *
Pyrene	0.964	0.863	10.5
Butylbenzylphthalate	0.825	0.345	58.2
3,3'-Dichlorobenzidine	0.361	0.120	66.8
Benzo(a)Anthracene	1.277	1.263	1.1
Chrysene	1.119	1.258	-12.4
bis(2-Ethylhexyl)Phthalate			
Di-n-Octyl Phthalate *	2.904	2.023	30.3 *
Benzo(b)Fluoranthene	2.044	2.522	-23.4
Benzo(k)Fluoranthene	2.011	2.555	-27.1
Benzo(a)Pyrene *	1.780	1.943	-9.2 *
Indeno(1,2,3-cd)Pyrene	1.047	0.895	14.5
Dibenz(a,h)Anthracene	1.231	1.061	13.8
Benzo(g,h,i)Perylene	1.251		100.0
Nitrobenzene-d5		0.321	-99.9
2-Fluorobiphenyl		1.965	-99.9
Terphenyl-d14		3.709	-99.9
Phenol-d5		1.120	-99.9
2-Fluorophenyl		1.347	-99.9
2,4,6-Tribromophenol		0.489	-99.9

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/15/88 Time: 0859

Lab File ID: DEC15G02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol *	0.932	0.945	-1.4 *
bis(2-Chloroethyl)Ether	0.688	0.686	0.3
2-Chlorophenol	0.783	0.786	-0.4
1,3-Dichlorobenzene	0.840	0.885	-5.4
1,4-Dichlorobenzene *	0.870	0.929	-6.8 *
Benzyl Alcohol	0.424	0.398	6.1
1,2-Dichlorobenzene	0.830	0.884	-6.5
2-Methylphenol	0.655	0.645	1.5
bis(2-Chloroisopropyl)Ether	1.186	1.092	7.9
4-Methylphenol	0.684	0.676	1.2
N-Nitroso-Di-n-Propylamine #	0.536	0.494	7.8 #
Hexachloroethane	0.368	0.386	-4.9
Nitrobenzene	0.336	0.365	-8.6
Isophorone	0.744	0.715	3.9
2-Nitrophenol *	0.198	0.197	0.5 *
2,4-Dimethylphenol	0.388	0.362	6.7
Benzoic Acid	0.181	0.141	22.1
bis(2-Chloroethoxy)Methane	0.494	0.460	6.9
2,4-Dichlorophenol *	0.339	0.365	-7.7 *
1,2,4-Trichlorobenzene	0.375	0.411	-9.6
Naphthalene	1.236	1.192	3.6
4-Chloroaniline	0.408	0.316	22.6
Hexachlorobutadiene *	0.222	0.236	-6.3 *
4-Chloro-3-Methylphenol *	0.335	0.317	5.4 *
2-Methylnaphthalene	0.742	0.739	0.4
Hexachlorocyclopentadiene #	0.256	0.176	31.3 #
2,4,6-Trichlorophenol *	0.492	0.531	-7.9 *
2,4,5-Trichlorophenol	0.477	0.502	-5.2
2-Chloronaphthalene	1.552	1.527	1.6
2-Nitroaniline	0.375	0.267	28.8
Dimethyl Phthalate	1.363	1.504	-10.3
Acenaphthylene	2.173	2.150	1.1
2,6-Dinitrotoluene	0.235	0.248	-5.5
3-Nitroaniline	0.326	0.268	17.8
Acenaphthene *	1.397	1.357	2.9 *
2,4-Dinitrophenol #	0.130	0.108	16.9 #
4-Nitrophenol #	0.221	0.162	26.7 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/15/88 Time: 0859

Lab File ID: DEC15G02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.878	2.083	-10.9
2,4-Dinitrotoluene	0.293	0.328	-12.0
Diethylphthalate	1.348	1.547	-14.8
4-Chlorophenyl-phenylether	0.658	0.765	-16.3
Fluorene	1.385	1.560	-12.6
4-Nitroaniline	0.287	0.232	19.2
4,6-Dinitro-2-Methylphenol	0.121	0.101	16.5
N-Nitrosodiphenylamine (1) *			*
4-Bromophenyl-phenylether	0.269	0.270	-0.4
Hexachlorobenzene	0.312	0.329	-5.4
Pentachlorophenol *	0.175	0.170	2.9 *
Phenanthrene	1.102	1.109	-0.6
Anthracene	1.054	1.045	0.9
Di-n-Butylphthalate	1.248	1.510	-21.0
Fluoranthene *	0.943	1.029	-9.1 *
Pyrene	0.964	1.074	-11.4
Butylbenzylphthalate	0.825	0.749	9.2
3,3'-Dichlorobenzidine	0.361	0.254	29.6
Benzo(a)Anthracene	1.277	1.267	0.8
Chrysene	1.119	1.147	-2.5
bis(2-Ethylhexyl)Phthalate			
Di-n-Octyl Phthalate *	2.904	3.375	-16.2 *
Benzo(b)Fluoranthene	2.044	2.379	-16.4
Benzo(k)Fluoranthene	2.011	2.379	-18.3
Benzo(a)Pyrene *	1.780	1.970	-10.7 *
Indeno(1,2,3-cd)Pyrene	1.047	1.324	-26.5
Dibenz(a,h)Anthracene	1.231	1.246	-1.2
Benzo(g,h,i)Perylene	1.251	0.443	64.6
Nitrobenzene-d5		0.335	-99.9
2-Fluorobiphenyl		1.793	-99.9
Terphenyl-d14		2.659	-99.9
Phenol-d5		1.139	-99.9
2-Fluorophenyl		1.274	-99.9
2,4,6-Tribromophenol		0.538	-99.9

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/16/88 Time: 1756

Lab File ID: DEC16HK02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	0.932	1.038	-11.4	*
bis(2-Chloroethyl)Ether		0.688	0.769	-11.8	
2-Chlorophenol		0.783	0.869	-11.0	
1,3-Dichlorobenzene		0.840	0.940	-11.9	
1,4-Dichlorobenzene	*	0.870	0.991	-13.9	*
Benzyl Alcohol		0.424	0.436	-2.8	
1,2-Dichlorobenzene		0.830	0.920	-10.8	
2-Methylphenol		0.655	0.714	-9.0	
bis(2-Chloroisopropyl)Ether		1.186	1.128	4.9	
4-Methylphenol		0.684	0.743	-8.6	
N-Nitroso-Di-n-Propylamine	#	0.536	0.521	2.8	#
Hexachloroethane		0.368	0.403	-9.5	
Nitrobenzene		0.336	0.364	-8.3	
Isophorone		0.744	0.721	3.1	
2-Nitrophenol	*	0.198	0.201	-1.5	*
2,4-Dimethylphenol		0.388	0.389	-0.3	
Benzoic Acid		0.181	0.147	18.8	
bis(2-Chloroethoxy)Methane		0.494	0.471	4.7	
2,4-Dichlorophenol	*	0.339	0.371	-9.4	*
1,2,4-Trichlorobenzene		0.375	0.406	-8.3	
Naphthalene		1.236	1.258	-1.8	
4-Chloroaniline		0.408	0.303	25.7	
Hexachlorobutadiene	*	0.222	0.242	-9.0	*
4-Chloro-3-Methylphenol	*	0.335	0.337	-0.6	*
2-Methylnaphthalene		0.742	0.787	-6.1	
Hexachlorocyclopentadiene	#	0.256	0.145	43.4	#
2,4,6-Trichlorophenol	*	0.492	0.507	-3.0	*
2,4,5-Trichlorophenol		0.477	0.493	-3.4	
2-Chloronaphthalene		1.552	1.570	-1.2	
2-Nitroaniline		0.375	0.290	22.7	
Dimethyl Phthalate		1.363	1.475	-8.2	
Acenaphthylene		2.173	2.123	2.3	
2,6-Dinitrotoluene		0.235	0.244	-3.8	
3-Nitroaniline		0.326	0.269	17.5	
Acenaphthene	*	1.397	1.380	1.2	*
2,4-Dinitrophenol	#	0.130	0.106	18.5	#
4-Nitrophenol	#	0.221	0.164	25.8	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/16/88 Time: 1756

Lab File ID: DEC16HK02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.878	2.033	-8.3
2,4-Dinitrotoluene	0.293	0.351	-19.8
Diethylphthalate	1.348	1.516	-12.5
4-Chlorophenyl-phenylether	0.658	0.776	-17.9
Fluorene	1.385	1.546	-11.6
4-Nitroaniline	0.287	0.246	14.3
4,6-Dinitro-2-Methylphenol	0.121	0.101	16.5
N-Nitrosodiphenylamine (1) *			*
4-Bromophenyl-phenylether	0.269	0.266	1.1
Hexachlorobenzene	0.312	0.318	-1.9
Pentachlorophenol *	0.175	0.162	7.4 *
Phenanthrene	1.102	1.175	-6.6
Anthracene	1.054	1.129	-7.1
Di-n-Butylphthalate	1.248	1.541	-23.5
Fluoranthene *	0.943	1.131	-19.9 *
Pyrene	0.964	1.136	-17.8
Butylbenzylphthalate	0.825	0.930	-12.7
3,3'-Dichlorobenzidine	0.361	0.239	33.8
Benzo(a)Anthracene	1.277	1.265	0.9
Chrysene	1.119	1.158	-3.5
bis(2-Ethylhexyl)Phthalate			
Di-n-Octyl Phthalate *	2.904	3.694	-27.2 *
Benzo(b)Fluoranthene	2.044	2.819	-37.9
Benzo(k)Fluoranthene	2.011	2.825	-40.5
Benzo(a)Pyrene *	1.780	2.079	-16.8 *
Indeno(1,2,3-cd)Pyrene	1.047	0.844	19.4
Dibenz(a,h)Anthracene	1.231	0.815	33.8
Benzo(g,h,i)Perylene	1.251	0.240	80.8
Nitrobenzene-d5		0.335	-99.9
2-Fluorobiphenyl		1.807	-99.9
Terphenyl-d14		2.738	-99.9
Phenol-d5		1.237	-99.9
2-Fluorophenyl		1.319	-99.9
2,4,6-Tribromophenol		0.539	-99.9

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/20/88 Time: 1419

Lab File ID: DEC20G02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	0.932	0.989	-6.1	*
bis(2-Chloroethyl)Ether		0.688	0.751	-9.2	
2-Chlorophenol		0.783	0.829	-5.9	
1,3-Dichlorobenzene		0.840	0.905	-7.7	
1,4-Dichlorobenzene	*	0.870	0.938	-7.8	*
Benzyl Alcohol		0.424	0.447	-5.4	
1,2-Dichlorobenzene		0.830	0.884	-6.5	
2-Methylphenol		0.655	0.701	-7.0	
bis(2-Chloroisopropyl)Ether		1.186	1.109	6.5	
4-Methylphenol		0.684	0.726	-6.1	
N-Nitroso-Di-n-Propylamine	#	0.536	0.513	4.3	#
Hexachloroethane		0.368	0.399	-8.4	
Nitrobenzene		0.336	0.388	-15.5	
Isophorone		0.744	0.775	-4.2	
2-Nitrophenol	*	0.198	0.217	-9.6	*
2,4-Dimethylphenol		0.388	0.402	-3.6	
Benzoic Acid		0.181	0.195	-7.7	
bis(2-Chloroethoxy)Methane		0.494	0.497	-0.6	
2,4-Dichlorophenol	*	0.339	0.378	-11.5	*
1,2,4-Trichlorobenzene		0.375	0.415	-10.7	
Naphthalene		1.236	1.257	-1.7	
4-Chloroaniline		0.408	0.258	36.8	
Hexachlorobutadiene	*	0.222	0.246	-10.8	*
4-Chloro-3-Methylphenol	*	0.335	0.371	-10.8	*
2-Methylnaphthalene		0.742	0.785	-5.8	
Hexachlorocyclopentadiene	#	0.256	0.152	40.6	#
2,4,6-Trichlorophenol	*	0.492	0.519	-5.5	*
2,4,5-Trichlorophenol		0.477	0.515	-8.0	
2-Chloronaphthalene		1.552	1.548	0.3	
2-Nitroaniline		0.375	0.312	16.8	
Dimethyl Phthalate		1.363	1.462	-7.3	
Acenaphthylene		2.173	2.161	0.6	
2,6-Dinitrotoluene		0.235	0.252	-7.2	
3-Nitroaniline		0.326	0.239	26.7	
Acenaphthene	*	1.397	1.369	2.0	*
2,4-Dinitrophenol	#	0.130	0.093	28.5	#
4-Nitrophenol	#	0.221	0.123	44.3	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Instrument ID: FINN Calibration date: 12/20/88 Time: 1419

Lab File ID: DEC20G02 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.878	1.963	-4.5
2,4-Dinitrotoluene	0.293	0.259	11.6
Diethylphthalate	1.348	1.267	6.0
4-Chlorophenyl-phenylether	0.658	0.699	-6.2
Fluorene	1.385	1.353	2.3
4-Nitroaniline	0.287	0.152	47.0
4,6-Dinitro-2-Methylphenol	0.121	0.105	13.2
N-Nitrosodiphenylamine (1) *			*
4-Bromophenyl-phenylether	0.269	0.327	-21.6
Hexachlorobenzene	0.312	0.344	-10.3
Pentachlorophenol *	0.175	0.164	6.3 *
Phenanthrene	1.102	1.102	0.0
Anthracene	1.054	1.058	-0.4
Di-n-Butylphthalate	1.248	1.067	14.5
Fluoranthene *	0.943	0.829	12.1 *
Pyrene	0.964	0.865	10.3
Butylbenzylphthalate	0.825	0.755	8.5
3,3'-Dichlorobenzidine	0.361	0.252	30.2
Benzo(a)Anthracene	1.277	1.261	1.3
Chrysene	1.119	1.216	-8.7
bis(2-Ethylhexyl)Phthalate			
Di-n-Octyl Phthalate *	2.904	3.611	-24.4 *
Benzo(b)Fluoranthene	2.044	2.383	-16.6
Benzo(k)Fluoranthene	2.011	2.445	-21.6
Benzo(a)Pyrene *	1.780	1.871	-5.1 *
Indeno(1,2,3-cd)Pyrene	1.047	1.257	-20.1
Dibenz(a,h)Anthracene	1.231	1.202	2.4
Benzo(g,h,i)Perylene	1.251	0.404	67.7
Nitrobenzene-d5		0.370	-99.9
2-Fluorobiphenyl		1.837	-99.9
Terphenyl-d14		2.617	-99.9
Phenol-d5		1.174	-99.9
2-Fluorophenyl		1.385	-99.9
2,4,6-Tribromophenol		0.429	-99.9

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D86936

Instrument ID: INCOS50 Calibration date: 12/20/88 Time: 1847

Lab File ID: DEC20G05 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol *	0.932	1.590	-70.6 *
bis(2-Chloroethyl)Ether	0.688		100.0
2-Chlorophenol	0.783	1.404	-79.3
1,3-Dichlorobenzene	0.840		100.0
1,4-Dichlorobenzene *	0.870	0.778	10.6 *
Benzyl Alcohol	0.424		100.0
1,2-Dichlorobenzene	0.830		100.0
2-Methylphenol	0.655		100.0
bis(2-Chloroisopropyl)Ether	1.186		100.0
4-Methylphenol	0.684		100.0
N-Nitroso-Di-n-Propylamine #	0.536	0.222	58.6 #
Hexachloroethane	0.368		100.0
Nitrobenzene	0.336		100.0
Isophorone	0.744		100.0
2-Nitrophenol *	0.198		100.0 *
2,4-Dimethylphenol	0.388		100.0
Benzoic Acid	0.181		100.0
bis(2-Chloroethoxy)Methane	0.494		100.0
2,4-Dichlorophenol *	0.339		100.0 *
1,2,4-Trichlorobenzene	0.375	0.339	9.6
Naphthalene	1.236		100.0
4-Chloroaniline	0.408		100.0
Hexachlorobutadiene *	0.222		100.0 *
4-Chloro-3-Methylphenol *	0.335	0.194	42.1 *
2-Methylnaphthalene	0.742		100.0
Hexachlorocyclopentadiene #	0.256		100.0 #
2,4,6-Trichlorophenol *	0.492		100.0 *
2,4,5-Trichlorophenol	0.477		100.0
2-Chloronaphthalene	1.552		100.0
2-Nitroaniline	0.375		100.0
Dimethyl Phthalate	1.363		100.0
Acenaphthylene	2.173		100.0
2,6-Dinitrotoluene	0.235		100.0
3-Nitroaniline	0.326		100.0
Acenaphthene *	1.397	0.354	74.7 *
2,4-Dinitrophenol #	0.130		100.0 #
4-Nitrophenol #	0.221	0.196	11.3 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D86936

Instrument ID: INCOS50 Calibration date: 12/20/88 Time: 1847

Lab File ID: DEC20G05 Init. Calib. Date(s): 12/08/88 12/08/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.878		100.0
2,4-Dinitrotoluene	0.293	0.056	80.9
Diethylphthalate	1.348		100.0
4-Chlorophenyl-phenylether	0.658		100.0
Fluorene	1.385		100.0
4-Nitroaniline	0.287		100.0
4,6-Dinitro-2-Methylphenol	0.121		100.0
N-Nitrosodiphenylamine (1) *			*
4-Bromophenyl-phenylether	0.269		100.0
Hexachlorobenzene	0.312		100.0
Pentachlorophenol *	0.175	1.000	-99.9 *
Phenanthrene	1.102		100.0
Anthracene	1.054		100.0
Di-n-Butylphthalate	1.248		100.0
Fluoranthene *	0.943		100.0 *
Pyrene	0.964	1.000	-3.7
Butylbenzylphthalate	0.825		100.0
3,3'-Dichlorobenzidine	0.361		100.0
Benzo(a)Anthracene	1.277		100.0
Chrysene	1.119		100.0
bis(2-Ethylhexyl)Phthalate			
Di-n-Octyl Phthalate *	2.904		100.0 *
Benzo(b)Fluoranthene	2.044		100.0
Benzo(k)Fluoranthene	2.011		100.0
Benzo(a)Pyrene *	1.780		100.0 *
Indeno(1,2,3-cd)Pyrene	1.047		100.0
Dibenz(a,h)Anthracene	1.231		100.0
Benzo(g,h,i)Perylene	1.251		100.0
Nitrobenzene-d5			
2-Fluorobiphenyl			
Terphenyl-d14			
Phenol-d5			
2-Fluorophenyl			
2,4,6-Tribromophenol			

(1) Cannot be separated from Diphenylamine

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): A1207LC07 Date Analyzed: 12/07/88

Instrument ID: 5100 Time Analyzed: 1406

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10900	1.97	155000	5.38	74200	15.95
	UPPER LIMIT	21800		310000		148400	
	LOWER LIMIT	5450		77500		37100	
	EPA SAMPLE NO.						
01		17500	1.90	169000	5.10	77900	15.72
02	G202	20000	2.03	138000	5.72	62600	16.14
03	MS	18400	1.90	174000	5.08	80300	15.70
04	VBLK	22100 *	1.98	159000	5.37	75000	15.92

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): A1208LC04 Date Analyzed: 12/08/88

Instrument ID: 5100 Time Analyzed: 1122

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD		0.00	205000	5.53	104000	16.04
	UPPER LIMIT	0		410000		208000	
	LOWER LIMIT	0		102500		52000	
	EPA SAMPLE NO.						
01	VBLK			204000	5.33	95100	15.90
02	VBLK			204000	5.33	95100	15.90
03	VBLK			204000	5.33	95100	15.90
04	X101			206000	5.28	96800	15.89
05	X103			119000	6.00	47000 *	16.20
06	X104			133000	5.47	58100	15.97
07	X105			153000	5.77	71300	16.12
08	X106			133000	5.30	57700	15.84
09	X107			131000	5.57	51200 *	16.02
10	X109			166000	5.18	68700	15.75

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): A1209LC05 Date Analyzed: 12/09/88

Instrument ID: 5100 Time Analyzed: 1241

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD		0.00	205000	5.75	105000	16.10
	UPPER LIMIT	0		410000		210000	
	LOWER LIMIT	0		102500		52500	
	EPA SAMPLE NO.						
01				163000	5.30	70400	15.85
02				146000	5.42	66000	15.95
03	X102			165000	5.25	63400	15.82
04	X108			140000	5.73	69600	16.09
05	X110			160000	5.43	61400	15.94

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 1/87 Rev.

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

ab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): DEC14G02 Date Analyzed: 12/14/88

Instrument ID: FINN Time Analyzed: 1027

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	12200	10.97	23200	14.12	9800	18.64
	UPPER LIMIT	24400		46400		19600	
	LOWER LIMIT	6100		11600		4900	
	EPA SAMPLE NO.						
01	G201	15200	10.97	32000	14.12	13900	18.65
02	G201						
03	G202	13600	10.97	29200	14.10	13600	18.64
04	G202						
05	SBLK	14900	10.99	33200	14.14	15900	18.65
06	SBLK						
07	SBLK	18900	10.95	40800	14.10	17900	18.64
08	SBLK	14900	10.99	33200	14.14	15900	18.65

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

ab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): DEC15G02 Date Analyzed: 12/15/88

Instrument ID: FINN Time Analyzed: 0859

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	14500	10.95	27500	14.09	12500	18.60
	UPPER LIMIT	29000		55000		25000	
	LOWER LIMIT	7250		13750		6250	
	EPA SAMPLE NO.						
01	X101	24200	10.94	54600	14.09	26700 *	18.60
02	X101						
03	X103	22300	10.95	49300	14.10	23200	18.62
04	X103						
05	X104	22500	10.94	48500	14.09	19900	18.60
06	X104						
07	X106	33600 *	10.95	74200 *	14.09	26500 *	18.62
08	X106						
09	X107	31300 *	10.94	65700 *	14.09	22600	18.62
10	X107						
11	X108	22300	10.95	50800	14.10	23300	18.62
12	X108						
13	X110	20600	10.95	47300	14.09	22900	18.62
14	X110						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): DEC16HK02 Date Analyzed: 12/16/88

Instrument ID: FINN Time Analyzed: 1756

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	14000	10.99	28200	14.14	12800	18.65
	UPPER LIMIT	28000		56400		25600	
	LOWER LIMIT	7000		14100		6400	
	EPA SAMPLE NO.						
01	X102	22500	10.97	52900	14.10	23600	18.64
02	X102						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1190400008

Lab Code: SPFLD Case No.: NOV88 SAS No.: _____ SDG No.: D86936

Lab File ID (Standard): DEC20G02 Date Analyzed: 12/20/88

Instrument ID: FINN Time Analyzed: 1419

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	24800	10.97	46200	14.10	21300	18.64
	UPPER LIMIT	49600		92400		42600	
	LOWER LIMIT	12400		23100		10650	
	EPA SAMPLE NO.						
01	X105	76700 *	11.00	178000 *	14.15	69100 *	18.67
02	X105						
03	X109	24100	10.99	60700	14.14	22800	18.65
04	X109						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

TRIANGLE LABORATORIES, INC.

POLYCHLORINATED DIBENZO-p-DIOXINS

and

POLYCHLORINATED DIBENZOFURANS

USER MANUAL

Rev. yt-4

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Section 1

Foreword

The purpose of this User Manual is to provide details pertaining to the assembly of the data package and the calculation procedures used to generate the results submitted with each Sample Data Pack and summarized on the Sample Data Summary Sheet. All data packages are assembled in a manner allowing the Data User to recalculate the reported results independently. The data package is composed of four main sections where useful information can be retrieved during the reconstitution of the reported data.

Section 2

Data Package Structure

2.1 Case Narrative

The Case Narrative describes the analytical methodologies used during the analysis of the samples, the type of standard compounds used, their functions and isomer concentration and percent recovery calculation techniques. The HRGC/HRMS conditions are also summarized along with other pertinent information regarding the sample handling by Triangle Laboratories.

Furthermore, the criteria used to validate the initial calibration data, continuing calibration data and GC column performance checks are specified in the Case Narrative. Tables summarizing the composition of calibration and fortification solutions are given at the end of the Case Narrative. Problems encountered during the analysis will be discussed in the QA/QC Remarks Section of the Case Narrative.

2.2 Document Control

This section contains all the paper work that is associated with the project including the Sample Management & Tracking Form, laboratory bench sheets, copies of the sample receiving log book, correspondence, injection log book chronological listing of the sample and QA/QC analyses, sample traffic form and chain-of-custody documentation if any are required.

In particular, the Sample Management & Tracking Form (first page of the Document Control Section) provides data regarding the sample handling and processing. For instance, the extraction date, the sample weight or volume used during the extraction/cleanup procedure can be found on this form. Also available on the form are the volume of the sample fortification solution (internal and surrogate standards), percent moisture/lipids (if requested as part of the analysis) and the concentration of the recovery standards.

2.3 Sample Data

For each sample analyzed, a "sample data pack" is provided, which consists of:

- A Sample Data Summary Top Sheet (Figure 1), which summarizes the analyte concentrations, specific congener retention times, ion-abundance ratios and percent recoveries, analyst initials, date of analysis, TLI project number, Client identification, Client Sample identification, GC/MS file name, and continuing calibration file name. The Case Narrative defines the terminology used on this reporting form (e.g., EMPC, ppt...).

- A set of dBase-generated pages ("I" file; Figure 2) reporting the mass of the ions monitored, their corresponding area measurements and retention times for all the GC/MS peaks recorded within the appropriate retention time windows is provided following the Sample Data Summary Sheet. The data can be used by the Data User during the audit to recalculate the results reported on the Sample Data Summary Top Sheet. Additionally, the "B" file (Figure 3) summarizes the ion-abundance ratios ("RATIO") and relative retention times ("RT") of the GC/MS signals. Note that under the header "M/Z" of the "B" file are represented the low-mass ions used in the computation of the ratios (e.g., M/Z 316 = m/z 316/ m/z 318; the values originate from the corresponding m/z's with right retention time from the "I" file). The results from the computation of the ion-abundance ratios ("AREA MATCH_RAT") and relative retention times ("MATCH_RT") are compared to tolerance windows (as stipulated in the Case Narrative) and a true "T" or false "F" statement is printed depending on the outcome of the computation and the acceptable values.

- Occasionally, a set of "manual area checks" are provided in the data pack. They consist of displays such as the one shown in Figure 4 where the area of the peak is printed on an expanded zone of the selected ion current profile. The manually determined area are inserted into the "B" file before reprocessing the data. All such alterations are documented in the data pack by way of the "B" files used.

- All the raw data obtained during the GC/MS and consisting of the selected ion current profiles (i.e., chromatograms) for all the ions monitored (analytes and isotopically labeled standards) are part of our standard data package. Additional selected ion current profiles, which are used for QA/QC purposes, are included.

2.4 Calibration Data

This section contains the continuing calibration data and GC column performance checks performed every 12 hours during which samples are analyzed. A summary of the analyte relative response factors (RRFs) obtained during the multi-point initial calibration is provided. A copy of the raw data (i.e., chromatograms and RRF computations) from all GC column performance checks as well as all continuing calibration runs

are included.

2.4.1 Calibration Data

Each continuing calibration Data Summary Top Sheet reports the daily analyte RRFs, the analyte retention times and the delta RRFs, which are used to verify the validity of the instrumentation calibration.

2.4.2 GC Column Performance

The selected ion current profiles (SICPs) obtained during the GC column performance checks are included in this section. The objective of "GC Column Performance Checks" is to verify and document the GC column resolution and ability, in particular, to separate specific isomers from close-eluting isomers (demonstration of isomer-specific analyses) and to determine the various retention time windows during which classes of PCDD/PCDF congeners are eluting.

Three type of fused-silica capillary columns are currently employed during the analysis of samples for PCDDs and PCDFs. Each column use is discussed below.

60-m DB-5

Figure 5 represents examples of SICPs obtained following the analysis of the GC column performance mixture at the beginning of a 12-hour shift during which samples are analyzed. The first (F) and last (L) PCDD/PCDF eluting congeners are identified on the chromatograms. Note that the SICPs corresponding to the labeled standards are given to provide a retention time marker for specific isomers.

Additionally, the structures of the TCDD isomers known to elute closely to 2,3,7,8-TCDD on the 60-m DB-5 column are shown. The separation between the 2,3,7,8-TCDD isomer and the closest eluting TCDD isomers (i.e., 1,2,3,4-, 1,2,3,7-, 1,2,3,8- and 1,2,3,9-TCDD) must be such that the percent valley does not exceed 25%. Note that this particular GC column is not capable of segregating the 2,3,7,8-TCDF congener from its close-eluting TCDF isomers. Therefore, the concentration reported for 2,3,7,8-TCDF under such conditions must be considered as maximum possible concentration until isomer specificity can be achieved and demonstrated (see DB-225 and tandem GC/GC columns below).

TANDEM SP-2331/DB-17

The tandem column SP-2331/DB-17 is not only capable of separating 2,3,7,8-TCDD from the other 21 TCDD isomers but also the 2,3,7,8-TCDF isomer from the other 37 TCDF isomers. This column is often used by Triangle Laboratories to "confirm" the presence and quantify 2,3,7,8-TCDF when

requested by the Client. Figures 6 represents the SICPs for TCDD and TCDF and identify the structures of the close-eluting TCDD and TCDF isomers.

30-m DB-225

The 30-m DB-225 is only capable of 2,3,7,8-TCDF specificity and is not very often used by Triangle Laboratories. However, should we decide to use such column for specific projects, the Calibration Data Section will contain SICPs (as shown in Figure 7) demonstrating the 2,3,7,8-TCDF isomer specificity.

PCDD/PCDF Retention Time Windows

Figure 8 represents a series of SICPs showing the first and last eluting PCDD/PCDF (tetra- through octachlorinated) congeners, which are used to determine the various retention time windows before the analyses of field samples.

Section 3

Quality Control Selected Ion Current Profiles

At the completion of each HRGC/HRMS run and before initiating the following run, the Analyst is required to print a series of selected ion current profiles (SICPs) that are indicative of the instrument overall performance during the analysis. These particular printouts are easily recognizable by their reduced format as shown in Figure 9. Among these traces, the ones shown in Figure 9 are of special importance as they are used to monitor the instrument stability during the GC/MS run.

How does Triangle Laboratories monitor the instrument stability?

Under high-resolution mass spectrometric conditions, the use of a reference compound such as perfluorokerosene (PFK) is required. The function of PFK is to provide ions that can be used as lock-mass ions to compensate for mass-drift occurring during the analysis. Triangle Laboratories takes advantage of the presence of the PFK ions to monitor the instrument stability during the GC/MS run [*Tondeur & al., Anal. Chem. 56, 1344-1347 (1984); Biomed. and Envir. Mass Spectrom. 14, 449-456 (1987)*].

A constant amount of PFK is allowed to penetrate the ion chamber of the mass spectrometer. Thus, the response for any of the monitored lock-mass ions is expected, in the absence of "interferences", to remain constant (Figure 9A). Significant deviations (Figure 9B) from a constant response may suggest that the data reported on the Sample Data Summary Sheet are questionable (an appropriate flag will be placed on the affected analytes).

In general, two types of problems can be identified this way. First, the loss of the lock-mass ion (Figure 9C) is characterized by a negative-going deflection that persists for a time exceeding the peak width of a normal GC/MS signal. In such situation, the Analyst will repeat the analysis and verify that the loss of the lock-mass ion is not the consequence of a coeluting interference capable of producing large quantities of ions having an exact mass sufficiently close to the PFK ions that misidentification of the latter can result. In the absence of a properly monitored lock-mass ion, the detection of the analytes is totally compromised.

The second type of problem corresponds to the elution of genuine compounds present in the cleaned up sample extract. Their presence is easily recognizable by a series of negative-going deflections that correspond to "negative" GC/MS signals as demonstrated in Figure 9B. The effect on the data of such compounds -- labeled "quantitative interferences" -- is twofold:

1) From a qualitative point of view, the sensitivity of the detection system may have been critically reduced and

consequently, false negatives may be reported;

2) Quantitatively, the reported concentrations of specific isomers and totals as well as the internal/surrogate standards percent recoveries may be invalid.

Quantitative interferences are substances, generally of unknown chemical composition and structure, that have not been fractionated during the sample cleanup. They do not produce ions at the masses which are normally monitored for PCDD/PCDF analysis but elute within the PCDD/PCDF retention time windows. When large (e.g., 100 ng/sec) quantities are entering the ion chamber, it is believed that space charge effects, responsible for ion-source detuning may contribute to the changes observed in the SICPs of the lock-mass ions, thus depicting fluctuations in the sensitivity of the detection system.

The presence of "quantitative interferences" in a sample extract cannot be detected by other means and in the absence of such quality control SICPs, the data reported may be of questionable value. The re-injection of another aliquot of the sample extract does not constitute a solution. Triangle Laboratories will flag the data when such effect is observed and will recommend additional cleanup. This may require an R & D program.

Note: The exact masses of the PFK ions used to monitor the instrument response with time are m/z 330.9792 (for the tetra- and pentachlorinated PCDD/PCDF species), m/z 403.8529 (for the hexachlorinated species) and m/z 442.9728 (for the hepta- and octachlorinated compounds).

TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E) QA/QC SUMMARY

ANALYST: DH
DATE: 09/14/88
SAMPLE WT: 1000.00

FILE NAME: S883376
SAMPLE ID:
CASE NO:
PROJ NO: 12596

CONCAL: S883371

SURROGATE RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37CL-TCDD	10.00	100.00		31.04	
13C12-PeCDF 234	10.40	104.00	1.53	36.00	
13C12-HxCDF 478	9.75	97.50	0.52	40.08	
13C12-HxCDD 478	9.97	99.70	1.23	41.18	
13C12-HpCDF 789	10.76	107.60	0.42	46.59	

ALTERNATE STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	9.67	96.70	0.50	42.16	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13 [illegible]-TCDF	7.02	70.20	0.75	30.14	
2378-13C12-TCDD	7.93	79.30	0.76	31.02	
13C12-PeCDF 123	9.08	90.80	1.54	35.02	
13C12-PeCDD 123	9.05	90.50	1.46	36.29	
13C12-HxCDF 678	8.85	88.50	0.52	40.18	
13C12-HxCDD 678	9.29	92.90	1.22	41.26	
13C12-HpCDF 678	7.54	75.40	0.38	44.45	
13C12-HpCDD 678	7.33	73.30	0.96	46.19	
13C12-OCDD	10.89	54.45	0.91	51.42	

Figure 1: Sample Data Summary Topsheet (QA/QC Summary)

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TRIANGLE LABORATORIES, INC.
PCDD/PCDF ANALYSIS (8290E)

ANALYST: DH FILE NAME: S883376 CONCAL: S883371
DA 09/14/88 SAMPLE ID:
SA EWT: 1000.00 CASE NO:
PROJ NO: 12596

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.020				
12378-PeCDD	ND		0.025				
23478-HxCDD	ND		0.030				
123678-HxCDD	ND		0.030				
123789-HxCDD	ND		0.035				
1234678-HpCDD	ND		0.050				
OCDD	ND			0.294			
2378-TCDF	ND		0.020				
12378-PeCDF	ND		0.018				
23478-PeCDF	ND		0.020				
123478-HxCDF	ND		0.022				
123678-HxCDF	ND		0.020				
234678-HxCDF	ND		0.025				
123789-HxCDF	ND		0.033				
1234678-HpCDF	ND			0.052			
1234789-HpCDF	ND		0.045				
OCDF	ND		0.070				
TOTAL TCDD	ND		0.020				
TOTAL PeCDD	ND		0.025				
TOTAL HxCDD	ND		0.033				
TOTAL HpCDD	ND		0.050				
TC TCDF	ND		0.020				
TC PeCDF	ND		0.018				
TOTAL HxCDF	ND		0.025				
TOTAL HpCDF	ND			0.060			

Figure 1: Sample Data Summary Topsheet (Analyte Concentrations)

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