Screening Site Inspection
Final Report

for

Allied Iron and Steel

ILD 980 259 014

June 10, 1996

Prepared for

U.S. Environmental Protection Agency
Contract 68-W8-0064
Work Assignment 29-5JZZ

EPA Region 5 Records Ctr.

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1.0 Introduction

On August 7, 1991, the Alternative Remedial Contracting Strategy (ARCS) V contractor was authorized, by approval of the work plan by the U.S. Environmental Protection Agency (USEPA) Region V, to conduct a screening site inspection (SSI) of the Allied Iron and Steel site in Peoria County, Illinois.

The site was initially placed on the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on July 27, 1988, as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency (IEPA).

The facility received its initial Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) evaluation in the form of a preliminary assessment (PA) report that was completed by the IEPA on August 17, 1990. The sampling portion of the SSI was conducted on April 19, 1993, when a field team collected five soil and five sediment samples.

The purposes of the SSI have been stated by the USEPA in a directive outlining pre-remedial program strategies. The directive essentially states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary Hazard Ranking System (HRS) score, 2) to establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) to 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 no further remedial action planned (NFRAP) or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites. 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 as NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all 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 a higher authority will receive a listing SI (USEPA 1988).

USEPA Region V requested that the ARCS V contractor identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2.0 Site Background

2.1 Introduction

The Allied Iron and Steel (Allied) site accepts scrap metal, including white goods (household appliances, refrigerators, washers/dryers), and construction and auto scrap for reclamation. In the past, Allied operated an aluminum sweat furnace and an incinerator. Incineration was used to recover copper from insulated wire. The furnace and incinerator are no longer onsite.

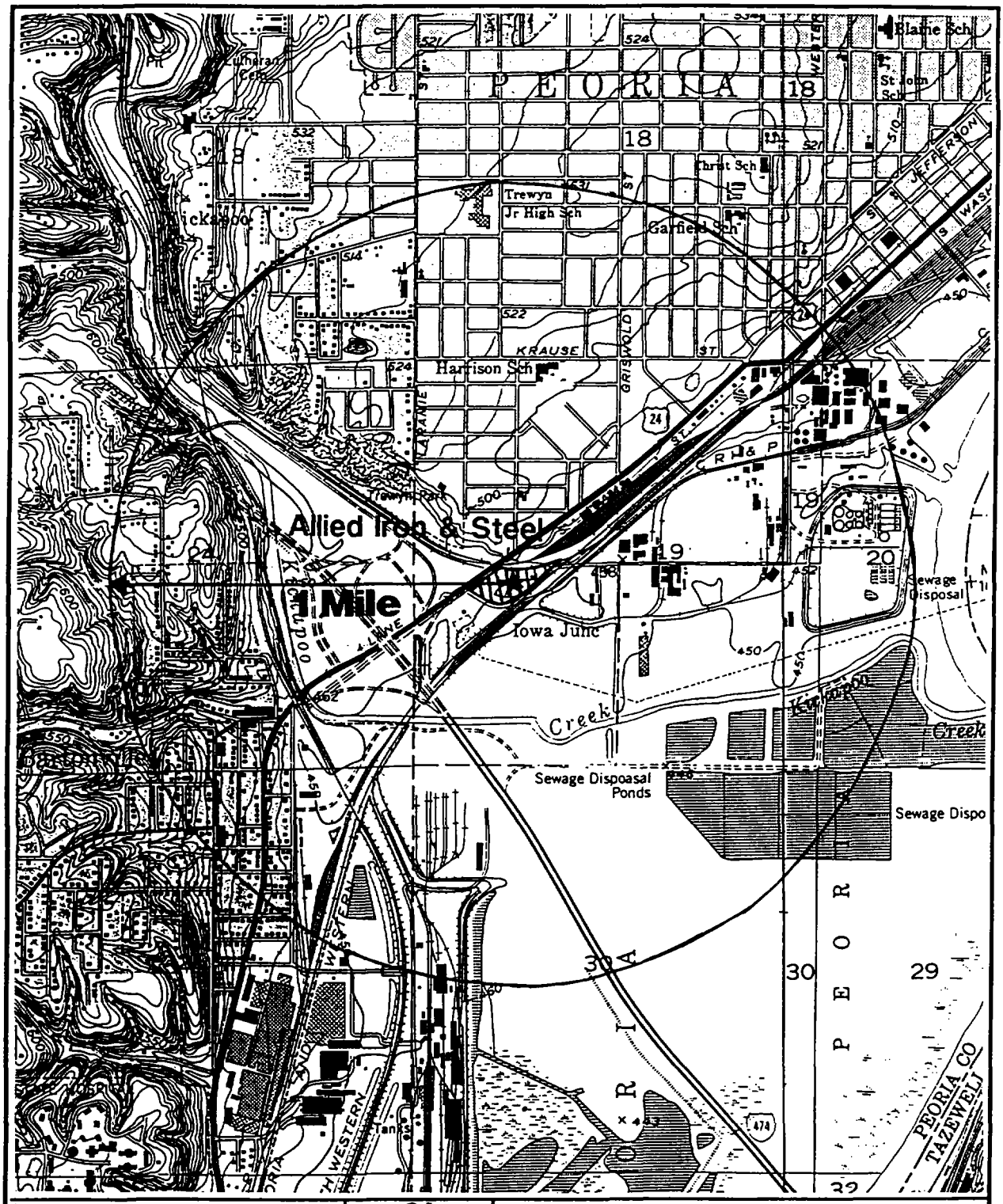
2.2 Site Description

Allied is at 2900 Clark Street, Peoria, Illinois. The area around Allied is an industrialized transportation corridor, commonly known as the Iowa Junction. The 5 acre Allied site is near the center of the western half of Section 19, Township 8 North, Range 8 East, Peoria County, Illinois [United States Geological Survey (USGS) 1949b]. Figure 2-1 is the site location map. Figure 2-2 is the site sketch.

Five structures are onsite: an office at the site's northern end, two garage/storage sheds along the eastern border, and an auto shredder and a control house at the center of the site. The former incinerator was located in the northwestern corner of the site. Various types of scrap metal are distributed throughout the site. Access to the site is restricted on the northern, eastern, and southern borders. Fencing along a portion of the southwestern border is nonexistent. The site is relatively flat but gently slopes to the west-northwest.

A drainage ditch is located along the southern border of the site. Drainage flow is to the east. Along the northwestern border is a drainage ditch that flows southwest to a sewer.

The property adjacent to Allied includes a vacant lot to the north, the Peoria and Pekin Union Railroad and Chicago and NorthWestern (C&NW) Railroad to the east, an electrical substation to the south, and the Burlington Northern Railroad and U.S. Route 24 to the northwest. Property an eighth of a mile north of Allied is used for residential and commercial purposes. A Browning Ferris Industries scrap processing facility and an unidentified scrap metal/junk yard occupy property located about half to three quarters of a mile east of Allied. Marshland and railroads are located about half to three quarters of a mile south of Allied, and residential property is half a mile to the west.



Source:
USGS Topographic Map, 1949b
Peoria, East/West Quandrangles

Scale:

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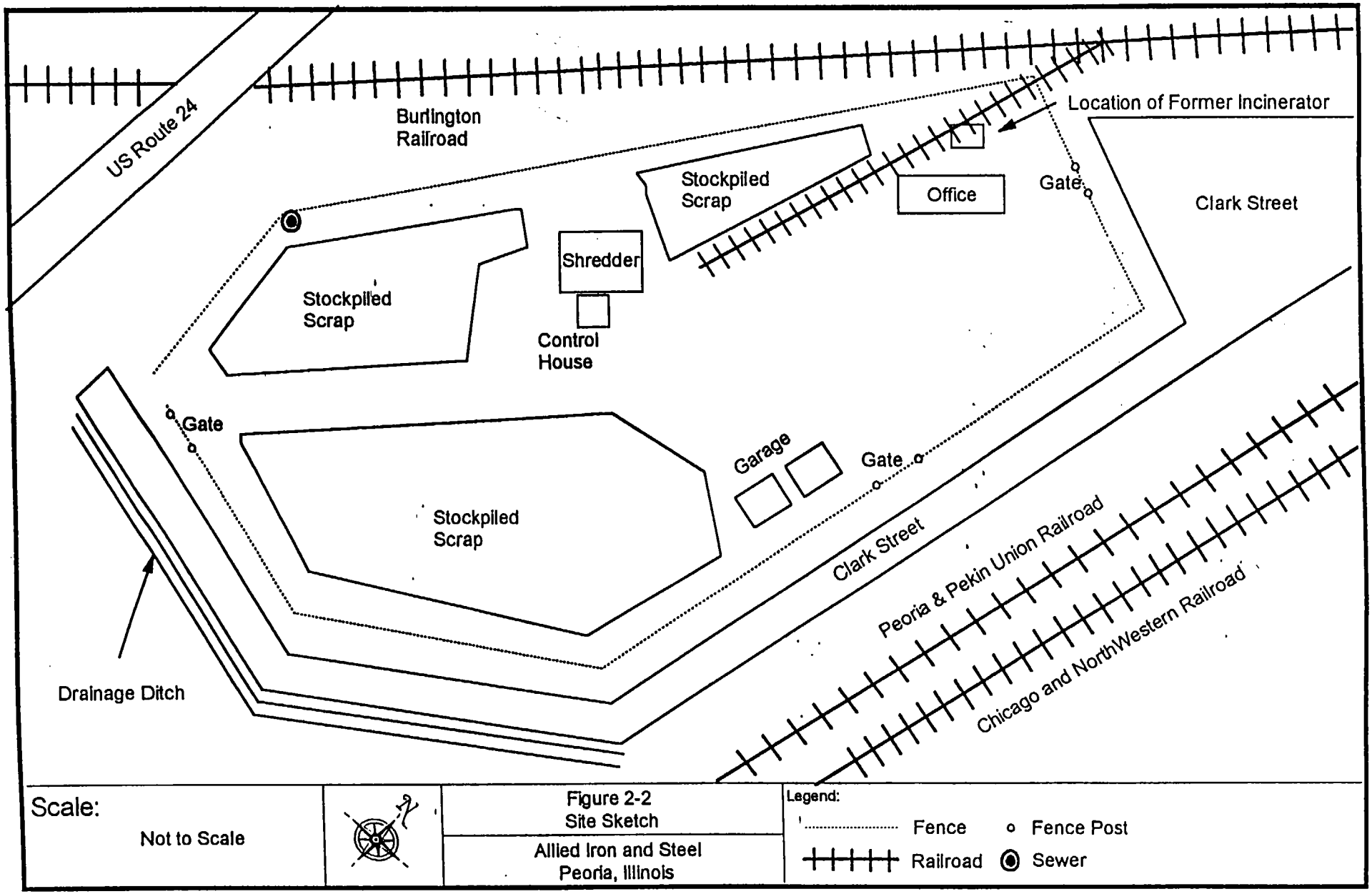
Figure 2-1
Site Location Map

Allied Iron and Steel
Peoria, Illinois



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2.3 Site History

2.3.1 Operational History

Howard and Irving Miller purchased the site in 1963, which was vacant at the time, from the Merkel and Ford families (IEPA 1990a). The Miller family began operating Allied as a scrap metal processing facility in 1963; it remains active to date.

2.3.2 Summary of Onsite Environmental Work

A 1988 IEPA report, *Ash Samplings of Ten Incinerators in Illinois,* documents the presence of hazardous substances in ash and soil samples collected at Allied. Reported results indicate the presence of 2,3,7,8-tetrachlorodibenzo-p-dioxin at 10.7 micrograms per kilogram (μg/kg) in ash samples and 0.12 μg/kg in soil samples. Other dioxin and furan isomers were detected at 268.91 μg/kg in ash and at 4.7 to 73.03 μg/kg in soil samples. IEPA's calculation of the toxicity equivalence resulted in 7.85 μg/kg in ash and 1.73 parts per billion in soil samples.

On March 17, 1989, Allied contacted the IEPA regarding a release from an offsite underground storage tank owned by Allied. An unknown amount of gasoline was released to the soil. Allied hired Illinois Oil Marketing Equipment, Inc., to remediate the release. An IEPA incident report is on file (IEPA 1990a).

On August 9, 1989, the IEPA filed an emission violation following particulate fallout of fibrous material from the shredder (IEPA 1990a).

On September 2, 1988, the IEPA received a citizen complaint regarding a brown fallout from the shredder dusting a nearby car lot. Allied was contacted and site manager, John Miller, agreed to wash the cars. File information does not indicate if violation enforcement followed (IEPA 1990a).

The PA report concludes that potential releases to groundwater, surface water, and soil are a threat. IEPA assigned the site a high priority for further inspection and referred the site to the USEPA, Region V, with a recommendation for a screening site inspection.

2.4 Applicability of Other Statutes

Allied is listed on the CERCLIS Illinois State/Event Listing under site identification number ILD 980 259 014 (USEPA 1993). The site is not listed on the USEPA Region V list of RCRA notifiers in Illinois (USEPA 1994).

3.0 Site Inspection Activities and Analytical Results

3.1 Introduction

This section outlines procedures used and observations made during the Allied SSI. Sampling activities were conducted in accordance with the approved quality assurance project plan (QAPjP) (USEPA 1991). Figure 3-1 presents onsite sample locations and Figure 3-2 presents offsite sample locations. Table 3-1 provides a summary of sample descriptions and locations.

Appendix B presents the USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13).

Samples collected for this SSI were analyzed under a routine analytical services (RAS) request for organic and inorganic substances contained on the USEPA Target Compound List (TCL) and Target Analyte List (TAL). In addition, two soil samples were analyzed for dioxins under a RAS request. All analyses were conducted by USEPA contract laboratory program (CLP) participant laboratories. Appendix C presents the TCL and TAL. Appendix D presents a summary of all SSI sampling analytical data. Appendix E contains onsite photographs and sample locations.

Groundwater samples were not collected as residents of Peoria and East Peoria are provided with city water. Use of nearby private wells was not confirmed by IEPA private well data bases, and are not believed to be associated with the aquifer of concern: the overburden aquifer, which is discussed in Section 5.2.

3.2 Site Reconnaissance

The SSI reconnaissance was conducted on August 28, 1992. This visit included a visual site inspection and site representative interview to determine the site status, ongoing activities, potential health or safety hazards, and to identify potential sampling locations.

3.3 Site Representative Interview

Mr. John Miller, site manager and son of the owner Irving Miller, was interviewed by the reconnaissance team on August 28, 1992, at the Allied site. The reconnaissance team explained the purpose of the SSI to Mr. Miller and gathered site-specific information.

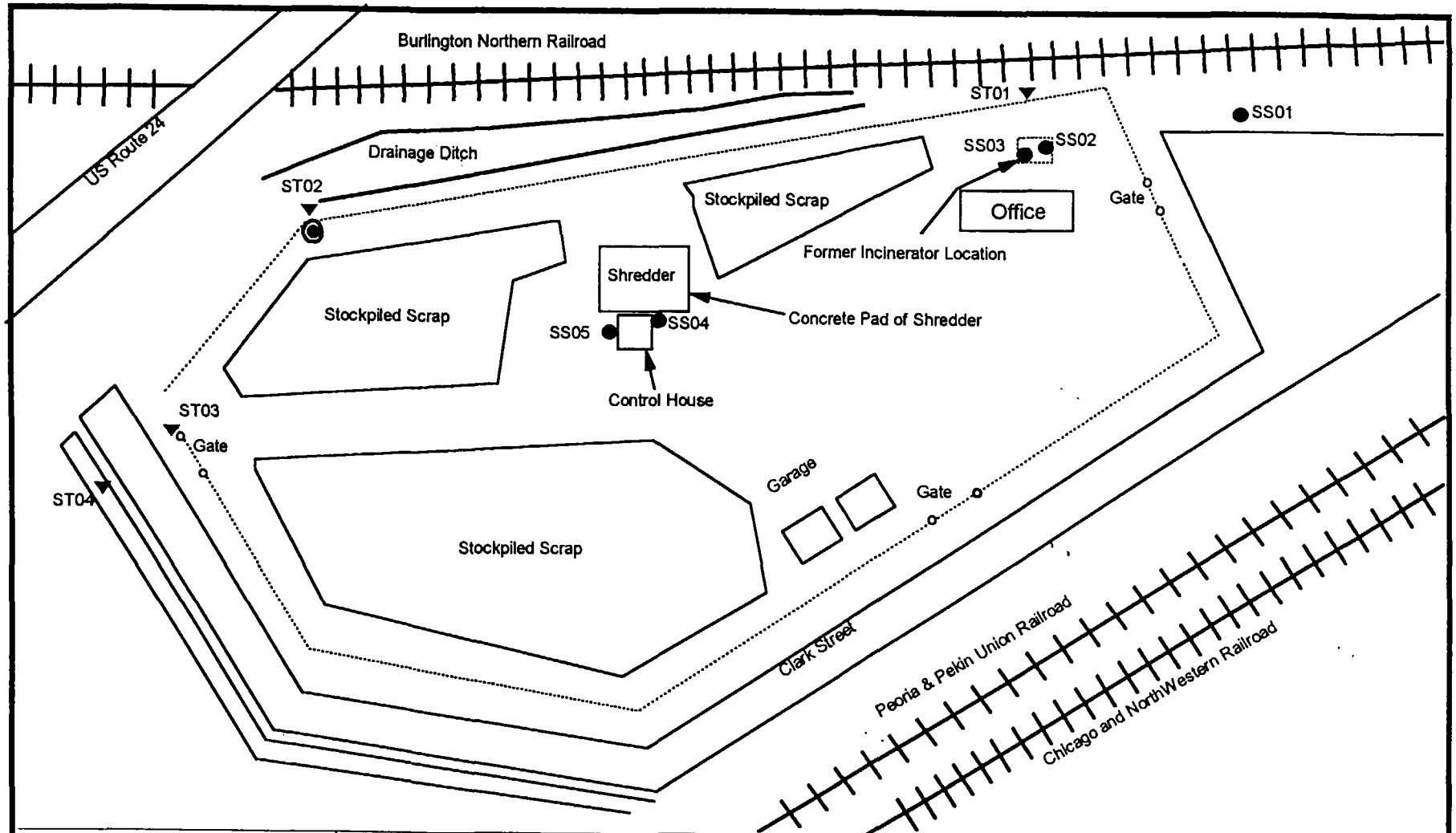

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Figure 3-1
Onsite Sampling Location Map
Allied Iron and Steel
Peoria, Illinois

Legend:
Sediment Sample
Soil Sample
Fence
Railroad
Fence Post
Sewer

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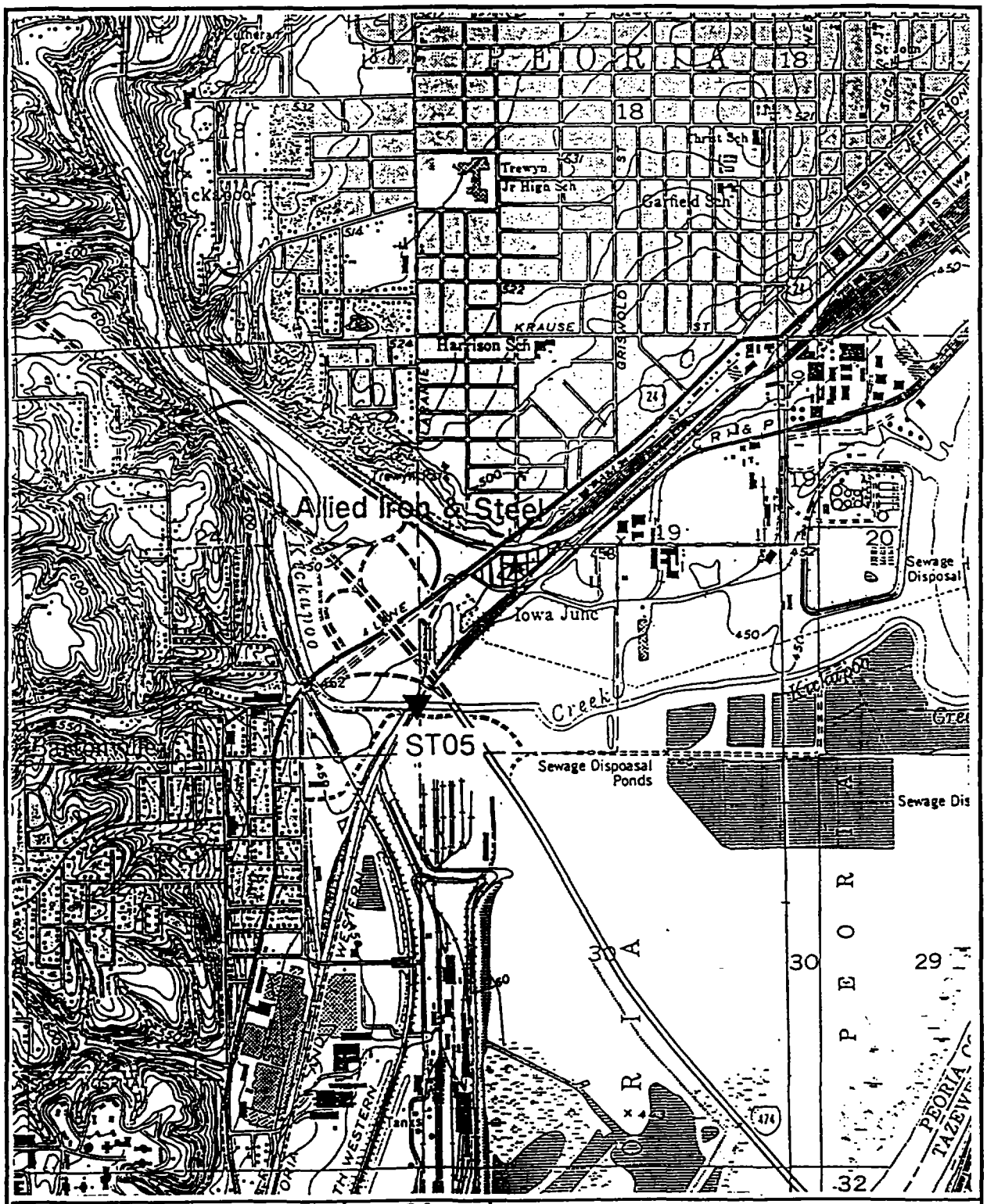

Source:
USGS Topographic Map, 1949b
Peoria, East/West Quandrangles

Legend:
▼ Sediment Sample Location

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Figure 3-2
Offsite Sample Location Map

Allied Iron and Steel
Peoria, Illinois

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Table 3-1
Sample Descriptions

Sample	Depth	Appearance	Location
ST01	0-6 Inches	Brown, gravelly	Sediment sample collected directly northwest of the location of the former incinerator. Designated background location.
ST02	0-6 Inches	Brown, gravelly	Sediment sample collected from the western corner of the site, directly west of the onsite sewage drain.
ST03	0-6 Inches	Brown, gravelly with some fibrous material.	Sediment sample collected adjacent to the west pole of the south entrance gate.
ST04	0-6 Inches	Dark brown, silty sand with clay, moist.	Sediment sample collected from drainage ditch south of Clark Street about 30 feet from the site.
ST05	0-6 Inches	Light brown, sand.	Sediment sample collected from the northern shore of Kickapoo Creek, at a location near the railroad bridge over the creek, about 1/2 mile southwest of the site .
SS01	0-6 Inches	Brown, gravelly	Soil sample collected 32 feet north of the front gate. Designated background location for TCL/TAL substances.
SS02	0-6 Inches	Brown, gravelly, moist	Soil sample collected 58 feet northwest from the office and 81 feet southwest from the western front gate pole. Designated background location for dioxin.
SS03	0-6 Inches	Brown, gravelly, moist	Soil sample collected 58 feet northwest from the office and 84 feet southwest from the western front gate pole.
SS04	0-6 Inches	Brown, moist	Soil sample collected at the northwestern corner of the shredder control house.

Table 3-1 (Continued) Sample Descriptions			
Sample	Depth	Appearance	Location
SS05	0-6 Inches	Brown, moist	Soil sample collected along the southwestern side of the shredder control house, just south of a staircase.

3.4 Sediment Sampling

On April 18, 1993, five sediment samples were collected to evaluate the condition of the surface water pathway. Each sediment sample was excavated with a clean, stainless steel spoon and placed in a clean sample jar. Allied representatives did not accept splits of sediment samples collected by the field team. Figures 3-1 and 3-2 present the sample locations. Table 3-1 presents a summary of sample locations and descriptions.

Sample jars were sealed, labeled, packaged, and transported to USEPA CLP participant laboratories in accordance with procedures set forth in the QAPjP.

Sediment samples scheduled for organic analysis were shipped on April 20, 1993, to Analytical Resources in Seattle, Washington. Sediment samples scheduled for inorganic analysis were shipped to Chemtech Consulting Group in Englewood, New Jersey, on April 20, 1993. All reusable sampling and personal protective equipment (PPE) were decontaminated before transport offsite. Disposable sampling and PPE were discarded in accordance with procedures outlined in the SSI project work plan and the QAPjP.

A background sample, ST01, was collected approximately 30 feet northwest of the location of the former incinerator. This location was selected as representative of background sediment conditions in the area. Samples ST02 through ST05 were selected to evaluate the overland flow segment of the surface water runoff pathway. Sample ST02 was collected along the western border of the site, between the site and the U.S. Route 24 embankment, near what appears to be a municipal sewer. Sample ST03 was collected at the western pole of the site's southern entrance gate. Sample ST04 was collected directly south of ST03, south of Clark Street in a drainage ditch. Sample ST05 was collected about one-half mile southwest of the site on the northern bank of the Kickapoo Creek, east of the C&NW railroad trestle over the creek.

3.5 Soil Sampling

Five soil samples were collected from onsite sample locations on April 19, 1993. Each sample was collected with a clean stainless steel spoon and placed in a clean sample jar. Allied representatives did not accept splits of soil samples collected by the field team. Figure 3-1 presents sample locations. Table 3-1 presents a summary of sample locations and descriptions.

Sample jars were sealed, labeled, packaged, and transported to USEPA CLP participant laboratories in accordance with procedures set forth in the QAPjP.

Soil samples scheduled for organic analysis were shipped to RCRA Environmental Laboratory in Tonawanda, New York, on April 20, 1993. Soil samples scheduled for inorganic analysis were shipped to Weyerhaeuser Analytical in Federal Way, Washington, on April 20, 1993.

A background sample, SS01, was collected approximately 32 feet north of the site's northern entrance gate. This location was selected as representative of background soil conditions in the area. Samples SS02 and SS03 were collected at the location of the former incinerator. These sample locations were selected to evaluate soil conditions in this area. A rectangular perimeter was drawn in the soil to represent the location of the incinerator. Mr. Miller, site manager, identified the incinerator location. Sample SS02 was collected near the northwestern corner of this perimeter, and SS03 was collected near the southeastern corner of the perimeter. Sample SS04 was collected near the northwestern corner of the control house. Sample SS05 was collected from the southern side of the control house, just southwest of the stairs. These sample locations were selected to evaluate soil conditions in the area of the shredder. A concrete pad prevented collecting soil samples directly beneath the shredder.

Two soil samples (SS02 and SS03), collected within the area designated as the location of the former incinerator, were analyzed for the presence of dioxins. Sample SS02 was designated as a dioxin background sample.

3.6 Analytical Results

This section summarizes analytical results from SSI samples. Appendix D presents all SSI analytical data. Laboratory analysis of the five sediment samples revealed the presence of volatile and semivolatile organic compounds, pesticides, metals, and cyanide at sample locations ST02 through ST04. Analysis of the five soil

samples revealed the presence of volatile and semivolatile organic compounds, pesticides, inorganic compounds, and dioxins at sample locations SS02 through SS05.

3.7 Key Samples

"Key samples" are those samples that contain substances in sufficient concentration to document an observed release. Table 3-2 identifies SSI key samples.

Table 3-2
Key Sample Summary
Sediment Samples

Substance	Sample Number			
	ST01 Background	ST02	ST03	ST04
Semivolatile Compounds - Concentrations in µg//kg				
Anthracene	380 U	-	700	-
Butylbenzylphthalate	1300	22000	-	-
Benzo(a)Anthracene	380 U	-	1200	-
Chrysene	320 J	-	2000	-
Bis(2-Ethylhexyl)Phthalate	810	100000	6100 D	-
Di-n-octylphthlate	380 UJ	10000 J	-	-
Benzo(b)Flouranthene	260 J	-	3000	-
Benzo(k)Flouranthene	300 J	-	3000	-
Benzo(a)Pyrene	380 U	-	2000	-
Indeno(1,2,3-cd)Pyrene	240 J	-	1800	-
Dibenzo(g,h)Anthracene	380 U	-	710	-
Benzo(g,h,i)Perylene	260 J	-	1200	-
Pesticides/PCBs - Concentrations in µg/kg				
Alpha-BHC	1.9 U	22 Y	-	-
Beta-BHC	1.9 U	20 Y	-	-
Delta-BHC	1.9 U	30 Y	-	-
Heptachlor	12	770 Y	-	-
Aldrin	7.3 Y	730 Y	-	-
Heptachlor Epoxide	7.1 Y	610 Y	-	-
Dieldrin	15 Y	340 Y	-	-
4,4'-DDE	13 Y	920 Y	-	-
Endrin	9.5 Y	150 Y	-	-
Endosulfan II	22 Y	220 Y	-	-
4,4'-DDD	7.5 Y	120 Y	-	-

Table 3-2 (Continued) Key Sample Summary Sediment Samples				
Substance	Sample Number			
	ST01 Background	ST02	ST03	ST04
Pesticides/PCBs - Concentration in µg/kg				
4,4'-DDT	87 Y	270 Y	-	-
Endrin Ketone	18 Y	250 Y	-	-
Endrin Aldehyde	3.7 U	150 Y	85 JY	-
Alpha-Chlordane	8.5 Y	49 Y	-	-
Gamma-Chlordane	19 Y	500 Y	-	-
Toxaphene	190 U	6500 Y	3500 JY	-
Aroclor-1221	76 U	5200 Y	-	-
Aroclor-1232	37 U	38000 Y	560 JY	90 Y
Aroclor-1242	160	23000 JPD	-	-
Aroclor-1248	37 U	32000 Y	690 JY	90 Y
Aroclor-1254	360	11000 JD	-	-
Aroclor-1260	160 P	2300	-	-

Table 3-2 (Continued)
Key Sample Summary
Sediment Samples

Substance	Sample Number		
	ST01 Background	ST02	ST03
Inorganic Compounds - Concentrations in mg/kg			
Antimony	9.0 U	22.4	--
Barium	76.9	1340	437
Cadmium	2.7	35.4	10
Chromium	14.6	158	189
Cobalt	5 B	27.4	16.5
Copper	135	906	421
Iron	14100	129000	84700
Lead	275	7120	1730
Manganese	345	1050	1570
Nickel	17.5	235	114
Silver	2.6	20.6	13.8
Sodium	232 B	848 B	-
Vanadium	12.5	-	43.4
Zinc	608	8680	4070

Table 3-2 (Continued) Key Sample Summary Soil Samples					
Substance	Sample Number				
	SS01 Background	SS02	SS03	SS04	SS05
Volatile Organic Compounds - Concentrations in µg/kg					
Acetone	11 U	-	18	-	-
Tetrachloroethene	11 U	130 J	-	-	-
Semivolatile Organic Compounds - Concentrations in µg/kg					
1,3-Dichlorobenzene	380 U	1200	-	-	-
1,4-Dichlorobenzene	380 U	680	-	-	-
1,2,4-Trichlorobenzene	380 UJ	2400	-	-	-
Naphthalene	36 J	560	-	-	-
2-Methylnaphthalene	52 J	520	-	3300 J	-
Hexachlorobenzene	380 U	6600 ED	-	-	-
Phenanthrene	41 J	-	-	2500 J	-
di-n-Butylphthalate	17 J	-	-	3700 J	1600 J
Flouranthene	29 J	-	-	1400 J	1500 J
Pyrene	52 J	470	-	3200 J	2400 J
Butylbenzylphthalate	280 J	-	-	59000	14000 J
Benzo(a)Anthracene	25 J	-	-	1100 J	1100 J
Chrysene	33 J	-	-	1700 J	-
bis(2-Ethylhexyl)Phthalate	250 J	1300	-	90000	50000 J

Table 3-2 (Continued)
Key Sample Summary
Soil Samples

Substance	Sample Number				
	SS01 Background	SS02	SS03	SS04	SS05
Pesticides/PCBs Concentrations in µg/kg					
Aroclor-1242	189 U	-	2900 J	80000 JCD	40000 JCD
Inorganic Concentrations in mg/kg					
Aluminum	4320	18400	-	-	-
Antimony	2.9 UJN	122 JN	68.7 JBN	32.8 JN	15.5 JN
Arsenic	5.3	16.8	38.9	24.9	16.0
Barium	62.6	350	-	2750	867
Cadmium	1.8	14.7	-	52.5	22.6
Calcium	13300	-	-	-	64700
Chromium	15.3	669	1490	2120	393
Cobalt	5.7 B	17.3	47.5 B	65.7	23.4
Copper	35.8 JN	13500 JN	14400 JN	1850 JN	14700 JN
Iron	12100	10300	47700	64500	13400
Lead	134 *	2950 *	5950 *	3760 *	2200 *
Manganese	375	2070	3640	2420	4100
Mercury	0.06	-	-	4.6	2.6
Nickel	14.6	286	516	438	192
Selenium	0.21	-	-	1.1	-
Silver	0.52 U	1.7 B	-	10.5	-
Sodium	78.3 B	278 B	158 B	1180	563 B
Thallium	0.17	0.24 B	-	-	-
Vanadium	13.8	-	-	-	67.9
Zinc	201 *	3080 *	1100 *	14700 *	7280 *

Table 3-2 (Continued) Key Sample Summary					
Dioxin Concentrations in µg/kg					
Substance	Sample Number				
	SS01	SS02 Background	SS03	SS04	SS05
123478-HxCDF	-	4.7	20	-	-
123678-HxCDF	-	2.5	11	-	-
234678-HxCDF	-	4	13	-	-

U Compound was analyzed for, but not detected. Reported value is the contract required detection limit (CRDL) for inorganic compounds and the contract required quantitation limit (CRQL) for organic compounds.

J Reported concentration is estimated.

D Secondary dilution factor.

Y Compounds have raised detection limits due to interfering Aroclor peaks.

B Reported value is less than the CRDL, but greater or equal to the Instrument Detection Limit.

P Twenty-five percent difference for detected concentrations between the two gas chromatograph columns. The lower of the two values is reported and flagged "P."

C Identification of compound confirmed by gas chromatograph/mass spechtrometery.

E Concentration exceeds calibration range.

* Duplicate analysis was not within control limits.

4.0 Characterization of Sources

4.1 Introduction

Two contaminated soil sources are identified at the Allied site: the former incinerator area and the shredder area. These areas are defined by key sample locations that document observed releases.

4.2 Contaminated Soil--Former Incinerator Area

4.2.1 Description

The former incinerator area covers an estimated 144 square feet of exposed soil in the northeastern corner of the site. Past soil sampling has documented the presence of dioxin in this area. Two soil samples, SS02 and SS03, were collected from the former incinerator area during this SSI. Data from the analysis of these samples document observed releases of hazardous substances to the soil in this area. About 5 cubic yards of soil are estimated to be affected by the observed releases.

4.2.2 Waste Characteristics

Documented observed releases to the former incinerator area include two volatile organic compounds, eight semivolatile organic compounds, one polychlorinated biphenyl (PCB), three dioxin compounds, and 16 inorganic compounds.

4.2.3 Potentially Affected Migration Pathways

Observed releases to the soil pathway are documented in soil samples SS02 and SS03. This causes the soil exposure pathway to be of concern. This source does not have an engineered or vegetated cover, and exposure by direct contact is likely.

Analytical data suggest migration of hazardous substances from the soil source area has affected the surface water pathway. Sediment samples ST01 through ST04, collected from the assumed surface water pathway, show a release of semivolatile compounds, pesticides and PCBs, and inorganic compounds.

4.3 Contaminated Soil--Shredder Area

4.3.1 Description

Contaminated soil in the shredder area covers an estimated 900 square feet of exposed soil near the active shredder. Two soil samples, SS04 and SS05, were

collected from the shredder area during this SSI. Data from the analysis of these samples document observed releases of hazardous substances to the soil in this area. About 15 cubic yards of soil are estimated to be affected by the observed releases.

4.3.2 Waste Characteristics

Documented observed releases to soil in the shredder area include nine semivolatile organic compounds, one PCB, and 18 inorganic compounds.

4.3.3 Potentially Affected Migration Pathways

Observed releases to the soil pathway are documented in soil samples SS04 and SS05. This causes the soil exposure pathway to be of concern. This source does not have an engineered or vegetated cover, and exposure by direct contact is likely.

Analytical data suggests migration of potential contaminants from the soil source area has affected the surface water pathway. Sediment samples ST01 through ST04 show a release of semivolatile organic compounds, pesticides and PCBs, and inorganic compounds.

4.4 Other Potential Sources

Several nearby industrial facilities may contain potential sources: Browning Ferris Industries (ILD 056 752 371), Commercial Solvents (ILD 981 193 469), the IBS Dioxin site (ILD 065 523 503), and Martin Peoria Term (ILD 025 743 576) (USEPA 1993). Browning Ferris Industries operates a scrap metal processing facility at 2510 Clark Street, immediately east of Allied. The IBS Dioxin site is a scrap metal processor, located about one-half mile northeast of Allied at 2424 Clark Street. Commercial Solvents and Martin Peoria Term are located about three-fourths of a mile northeast of Allied, at the intersection of Clark and Darst Streets and 220 South Darst Street, respectively.

5.0 Discussion of Migration Pathways

5.1 Introduction

This section includes information useful in analyzing the potential impact of *hazardous substances observed at the Allied site on the four migration pathways:* groundwater, surface water, soil, and air.

5.2 Groundwater

Geologic units within 4 miles of the Allied site are composed of unconsolidated alluvial and glacial sediments (overburden) over Paleozoic age bedrock (Piskin and Bergstrom 1975, Berg and Kempton 1988).

Overburden deposits in the site area are composed of alluvium and glacial outwash sediments in the Illinois River valley, and predominantly glacial sediments (till and drift units) in the upland areas adjacent to the valley (Bergstrom 1956, Selkregg and Kempton 1958). Alluvial and glacial outwash sand and gravel units in the valley are excellent sources of groundwater. In general, usable quantities of groundwater in upland till units are widely scattered; however, southeast of Peoria the upland till units in Tazewell County are underlain by glacial outwash sands that produce usable quantities of groundwater.

Nearby wells penetrate up to 131 feet of unconsolidated sediments. Appendix F contains logs of wells installed near the site. These logs show water is pumped from sand and gravel lenses, ranging from about 18 to 100 feet below the ground surface. The total thickness of overburden sediments ranges from 50 to 300 feet in Peoria County (Bergstrom 1956).

The hydraulic continuity between unconsolidated valley and upland sediments is not known. These unconsolidated sediments are here considered to be interconnected and collectively named as the overburden aquifer.

Bedrock aquifers are not known to be used as a drinking water source in the 4 mile study area around the Allied site. The uppermost bedrock exposed in the Peoria area is the Pennsylvanian age Carbondale Formation (Willman et al. 1975). Pennsylvanian strata include alternating shale, sandstone, limestone, and coal units. These units yield some groundwater in western Peoria County; however, they are not a significant source of groundwater (Bergstrom 1956). No bedrock wells are documented in the study area [Illinois State Water Survey (ISWS) 1993].

The overburden aquifer is of concern within the study area. Private and municipal wells are screened in this aquifer, at depths ranging from 33 to 190 feet below ground surface (IEPA 1992, ISWS 1993).

The nearest municipal well is about 1 mile northeast of the site. Municipal wells within 4 miles of the site serve about 52,828 persons (IEPA 1989a, 1989b, 1989c, 1990a, 1990b, 1990c, 1990d, 1992); some portion of this population reside more than 4 miles from the site. The nearest private well is about 1 mile southwest of the site, on the southern side of the Kickapoo Creek (ISWS 1993). Approximately 667 persons obtain water from private wells located within 4 miles of the site. Table 5-1 presents public water suppliers within 4 miles of the Allied site. Table 5-2 presents private and public well users within 4 miles of the site. Appendix A presents a 4-mile radius map that identifies nearby private and public well locations.

No groundwater samples were collected during this SSI. No drinking water wells have been identified in the assumed downgradient direction from the site, between the site and the nearby surface water bodies (Kickapoo Creek, Illinois River).

5.3 Surface Water

Surface water runoff flows to the north-northwest across the site, and then west to the site's western border onto Clark Street. Runoff then flows easterly in a drainage ditch on the southern side of Clark Street. The Clark Street ditch empties into a ditch on the western side of the Peoria and Pekin Union and C&NW railroad tracks. Surface water flows south in the railroad ditch, eventually entering the Kickapoo Creek about 1,300 feet southwest of the site.

Sample locations along the surface water runoff pathway include sediment sample locations ST01 through ST05, in the overland flow route described above. Key samples, presented in Table 3-2, document observed releases to this pathway.

No drinking water intakes exist within 15 downstream miles from the overland flow probable point of entry to the Kickapoo Creek. The probable point of entry is about 1,300 feet southwest of the site.

Sensitive environments along the 15 mile surface water pathway include the Pekin Lake Fish and Wildlife Area and the Worley Lake National Area about 5.5 miles downstream of the site, the Powerton Lake Fish and Wildlife Area about 8 miles from the site, and the Banner Marsh Fish and Wildlife Area about 14 miles from the site along the Illinois River.

Table 5-1
Public Water Supply Sources Within 4 Miles of Allied Iron and Steel Site

Distance/ Direction From Site	Source Name	Location of Source	Approximate Population Served	Source Type
Non-responsive [redacted]			480	Overburden Aquifer
			185	Overburden Aquifer
			2,913	Overburden Aquifer
			6,850	Overburden Aquifer
			600	Overburden Aquifer
			600	Overburden Aquifer
			20,600	Overburden Aquifer
			20,600	Overburden Aquifer

Source: ISWS 1993, U.S. Department of Commerce 1990.

Table 5-2 Municipal and Private Well Users		
Radial Distance from Allied Iron and Steel (miles)	Approximate Population Served by Municipal Wells	Approximate Population Served by Private Wells
0.00 - 0.25	-	0
0.25 - 0.50	-	0
0.50 - 1.00	-	80
1.00 - 2.00	48,050	209
2.00 - 3.00	600	97
3.00 - 4.00	4,178	281

Source: ISWS 1993, U.S. Department of Commerce 1990.

About 16 miles of forested, scrub-shrub, and emergent wetlands line the Kickapoo Creek and Illinois River within 15 downstream miles of the site [U.S. Department of the Interior (USDI) 1988b, 1988c, 1988d].

5.4 Soil

Analytical results of soil samples collected from onsite locations indicate a release of volatile organic compounds, semivolatile organic compounds, pesticides/PCBs, and dioxins. The release of these hazardous substances is associated with the location of the former incinerator and the onsite auto shredder.

Potential targets include the 18 employees at the Allied site. The Allied site is fenced; however, the fencing is non-existent at the southwestern corner allowing site access. Therefore, public access is a possibility. The estimated population within 1 mile of the site is 6,182 (U.S. Department of Commerce 1990; USGS 1949a, 1949b, 1960a, 1960b). No residences, schools, or daycare centers are within 200 feet of onsite source areas.

Sensitive environments within 4 miles of the site include a natural area approximately 1 mile south of the site and the Worley Lake Rookery Natural Area, approximately 3 miles south of the site on the Illinois River. The St. Mary's Cemetery Natural Area is located 2.5 miles north of the site on the Kickapoo Creek.

An unidentified natural area is located approximately 2.75 miles directly north of the site at the northeastern corner of the Horseshoe Bottom area.

Endangered or threatened animal plant sites within 4 miles of the site include an animal area approximately 1 mile directly south of the site and an endangered or threatened plant area is approximately 1 mile downstream, on the southern side of the Illinois River (IDC 1993, 1994).

5.5 Air

No air samples were collected during the SSI. Potential targets in this pathway include residential homes to the north, west, and southwest; businesses to the north and east; and marshland south of the Kickapoo Creek (USDI 1988a, 1988b, 1988c, 1988d). A total of 40,767 persons are estimated to reside within 4 miles of the Allied site (USGS 1949a, 1949b, 1960a, 1960b)

Sensitive environments within 4 miles of the site include a natural area approximately 1 mile south of the site and the Worley Lake Rookery Natural Area, approximately 3 miles south of the site on the Illinois River. The St. Mary's Cemetery Natural Area is located 2.5 miles north of the site on the Kickapoo Creek. An unidentified natural area is located approximately 2.75 miles directly north of the site at the northeastern corner of the Horseshoe Bottom area.

An estimated 48 acres of wetlands are within 4 miles of the site (USDI 1988a, 1988b, 1988c, 1988d).

Endangered or threatened animal plant sites within 4 miles of the site include an animal area approximately 1 mile directly south of the site and an endangered or threatened plant area is approximately 1 mile downstream, on the southern side of the Illinois River (IDC 1993, 1994).

6.0 References

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APPENDIX A

Allied Iron and Steel

Four Mile Map and
15 Mile Downstream Map

SDMS US EPA Region V

Imagery Insert Form

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Appendix A – Site 4-Mile Map & 1.5-Mile Downstream Map

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APPENDIX B

Allied Iron and Steel

USEPA Form 2070-13

Site Inspection Report

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980259014

I. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
ALLIED IRON AND STEEL	2900 WEST CLARK STREET

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
PEORIA	IL	61602	PEORIA	143	18

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
40393 2	089381 4	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

II. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
4 , 4 , 93 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1963 (BEGINNING YEAR) PRESENT (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☒ B. EPA CONTRACTOR BVWS (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
JEFF ALBANO	ENVIRONMENTAL SCIENTIST	BVWST	(312) 346-3775
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
STEVE MEHAY	ENVIRONMENTAL SCIENTIST	BVWST	(312) 346-3775
TIM MOODY	TECHNICIAN	BVWST	(312) 346-3775
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
JOHN MILLER	SITE MANAGER	2900 WEST CLARKE STREET PEORIA, ILLINOIS 61602	(309 637-7756
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	SAMPLING	DRIZZLE, RAIN, OVERCAST, 68°F.

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
JOHN MILLER	ALLIED IRON AND STEEL	(309) 637-7756

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
JEFF ALBANO	USEPA	BVWST	(312)346-3775	/ / (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980259014

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

X A. SOLID
_ B. POWDER, FINES
_ C. SLUDGE
_ E. SLURRY
_ F. LIQUID
_ G. GAS
X D. OTHER ASH, SOIL (Specify)

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

TONS _____
CUBIC YARDS 20
NO. OF DRUMS NONE

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

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

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
OCC	2,3,7,8 TETRACHLORDIBEN-				
	ZO-P-DIOXIN	174606	UNKNOWN	10.7	ug/kg
OCC	OTHER ISOMERS	-	UNKNOWN	268.91	ug/kg
OCC	BUTYLBENZYLPHTHALATE	85-68-7		22,000	ug/kg
OCC	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	*	100000	ug/kg
PSD	ALPHA-BHC	319-84-6		22	ug/kg
PSD	BETA-BHC	319-85-7		20	ug/kg
PSD	BETA-BHC	319-86-8		30	ug/kg
PSD	HEPTACHLOR	76-44-8		770	ug/kg
PSD	ALDRIN	309-00-2		730	ug/kg
PSD	HEPTACHLOR EPOXIDE	1024-57-3		610	ug/kg
PSD	DIELDRIN	60-57-1		340	ug/kg
PSD	4,4-DDE	75-22-9		920	ug/kg
OCC	DI-N-OCTYL PHTHLATE *	117-84-0		100,000	ug/kg
OCC	ANTHRACENE *	120-12-7		700	ug/kg
OCC	BENZO(a)ANTHRACENE *	56-55-7		1200	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)

IEPA DIVISION OF LAND POLLUTION CONTROL FILES ASH SAMPLINGS OF 10 INCINERATORS IN ILLINOIS IEPA ENV/88-028 PEORIA COUNTY ASCS OFFICE PEORIA COUNTY RECORDER OFFICE DIVISION OF AIR POLLUTION CONTROL FILES
*USEPA ANALYTICAL DATA, CASE NO. 19813 APRIL, 20, 1993.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

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ILD	980259014

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
X SOL	SOLVENTS			
PSD	PESTICIDES			
X OCC	OTHER ORGANIC CHEMICALS			
X IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
X 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
MES	THALLIUM *	7440.28-0		0.24	mg/kg
MES	VANADIUM *			67.9	mg/kg
MES	ZINC *			14,700	mg/kg
SOL	ACETONE	67-64-1		18	ug/kg
SOL	TETRACHLOROETHENE	127-18-4		130	ug/kg
OCC	1,3-DICHLOROBENZENE*	541-73-1		1200	ug/kg
OCC	1,4-DICHLOROBENZENE*	106-46-7		680	ug/kg
OCC	1,2,4-TRICHLOROBENZENE*	120-82-1		2400	ug/kg
OCC	NAPTHALENE*	91-20-3		560	ug/kg
OCC	2-METHYLNAPTHALENE*	91-57-6		3300	ug/kg
OCC	HEXACHLOROBENZENE*	118-74-1		6600	ug/kg
OCC	PHENATHRENE*	85-01-8		2500	ug/kg
OCC	DI-N-BUTYLPHTAALATE*	84-74-2		3700	ug/kg
OCC	CHRYSENE*	218-01-9		2000	ug/kg
OCC	BENZO(b)Flouranthene*	205-99-2		3000	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)

IEPA DIVISION OF LAND POLLUTION CONTROL FILES ASH SAMPLINGS OF 10 INCINERATORS IN ILLINOIS IEPA ENV/88-028 PEORIA COUNTY ASCS OFFICE PEORIA COUNTY RECORDER OFFICE DIVISION OF AIR POLLUTION CONTROL FILES
*USEPA ANALYTICAL DATA, CASE NO. 19813 APRIL 20, 1993.

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EPA

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- _ C. SLUDGE
- _ D. OTHER _____ (Specify)
- _ E. SLURRY
- _ F. LIQUID
- _ G. GAS

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

TONS _____

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
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ACD	ACIDS			
BAS	BASES			
X 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
PSD	ENDRIN *	72-20-8		150	ug/kg
PSD	ENDOSULFAN II *	33213-65-9		220	ug/kg
PSD	4,4'-DDD *	72-54-8		120	ug/kg
PSD	4,4'-DDT *	50-29-3		270	ug/kg
PSD	ENDRIN KETONE*	53494-70-5		250	ug/kg
PSD	ENDRIN ALDEHYDE *	7421-36-3		150	ug/kg
PSD	ALPHA-CHLORDANE *	5103-71-9		49	ug/kg
PSD	GAMMA-CHLORDANE *	5103-74-2		500	ug/kg
PSD	TOXAPHENE *	8001-35-2		6500	ug/kg
OCC	AROCLOR-1221 *	11104-28-2		5200	ug/kg
OCC	AROCLOR-1232 *	11141-16-5		38,000	ug/kg
OCC	AROCLOR-1242 *	53469-21-9		80,000	ug/kg
OCC	AROCLOR-1248 *	12672-29-6		32,000	ug/kg
OCC	AROCLOR-1254 *	11097-61-1		11,000	ug/kg
OCC	AROCLOR-1260 *	11096-82-5		2,300	ug/kg
MES	ALUMINUM *	1344-28-1		18,400	mg/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)

*USEPA ANALYTICAL DATA, CASE NO. 19813 APRIL 20, 1993

EPA FORM 2070-13 (7-81)

EPA

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

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- _ C. SLUDGE
- _ D. OTHER _____ (Specify)
- _ E. SLURRY
- _ F. LIQUID
- _ G. GAS

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

TONS _____

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
X 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
MES	ANTIMONY	7440-36-0		122	mg/kg
MES	ARSENIC*	7440-36-2		16.0	mg/kg
MES	BARIUM *	7440-39-3		2750	mg/kg
MES	CADMIUM *	7440-43-9		52.5	mg/kg
MES	CALCIUM*			64,700	mg/kg
MES	CHROMIUM *	7440-47-3		2120	mg/kg
MES	COBALT *	10210-68-1		65.7	mg/kg
MES	COPPER *			14,700	mg/kg
MES	IRON *	1309-37-1		129,000	mg/kg
MES	LEAD *	7439-92-1		7,120	mg/kg
MES	MANGANESE*	7439-96-5		4100	mg/kg
MES	MERCURY *			4.6	mg/kg
MES	NICKEL*	7440-02-0		516	mg/kg
MES	SELENIUM *	7782-49-2		1.1	mg/kg
MES	SILVER *	7440-22-4		20.6	mg/kg
MES	SODIUM *			1180	mg/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)

*USEPA ANALYTICAL DATA, CASE NO. 19813 APRIL 20, 1993.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980259014

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

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

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	FLOURANTHENE *	206-44-0		1400	ug/kg
OCC	PYRENE *	129-00-0		3200	ug/kg
OCC					
OCC	BENZO (a) ANTHRALENE *	56-55-3		1100	ug/kg
OCC	CHRYSENE *	218-01-9		1700	ug/kg
OCC	BIS(2-ETHYLHEXYL)	117-81-7		90,000	ug/kg
	PHTHALATE				ug/kg
OCC	123478-HX CDF *	70648-26-9		20	ug/kg
OCC	123678-HX CDF *	57117-44-9		11	ug/kg
OCC	234678-HX CDF *	60851-34-5		13	ug/kg
OCC	BENZO (k) FLOURANTHENE*	207-08-9		3000	ug/kg
OCC	BENZO (a) PYRENE *	50-32-8		2000	ug/kg
OCC	INDENO (1,2,3-cd)PYRENE *	193-39-5		1800	ug/kg
OCC	DIBENZO (a,h) ANTHRALENE*	53-70-3		710	ug/kg
OCC	BENZO (g,h,i) PERYLENE *	191-24-2		1200	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, sampling analysis, reports)

* USEPA ANALYTICAL DATA, CASE NO. 19813 APRIL 20, 1993.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980259014

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 53,495
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

THE POTENTIAL FOR CONTAMINANTS TO MIGRATE FROM SOURCE AREAS TO GROUNDWATER SUPPLIES IS A CONCERN.

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 53,495
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

THE POTENTIAL FOR CONTAMINANTS TO MIGRATE FROM ON SITE SOURCE AREAS, AND SEDIMENTS IS A CONCERN.

01 ☒ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 40,767
02 ☐ OBSERVED (DATE: 9-2-89/8-7-89) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

THE IEPA RESPONDED TO TWO REPORTS OF FALLOUT FROM THE AUTO SHREDDER. ALLIED RECEIVED A CIL FOR VIOLATION OF 9(a) AND 201.141.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NOT APPLICABLE

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☒ OBSERVED (DATE: [illegible]) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

SITE IS NOT ENTIRELY ENCLOSED BY A FENCE, ALLOWING FOR ACCESS TO THE SITE FROM THE WEST AND SOUTH BORDERS.

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 20 cubic yards
02 ☒ OBSERVED (DATE: 4-20-93) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION

THE INCINERATOR AREA AND THE SHREDDER AREA HAVE OBSERVED RELEASES. THE INCINERATOR AREA CONSTITUTES ABOUT 5 CUBIC YARDS OF SOIL AND THE SHREDDER AREA CONSTITUTES ABOUT 15 CUBIC YARDS OF SOIL.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

MUNICIPAL AND PRIVATE WELL USERS WITHIN 4 MILES OF THE SITE AND THE SURFACE WATER PATHWAY. MOST OF THE POPULATION IS SERVED BY MUNICIPAL WATER.

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: 18
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

18 PERSONS ARE EMPLOYED AT ALLIED AND HAVE ACCESS TO POTENTIAL SOURCE AREAS.

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE REPORTED

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980259014

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

NONE OBSERVED.

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

NONE OBSERVED

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

NONE DOCUMENTED.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: 8-26-92) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ---
04 NARRATIVE DESCRIPTION

SOURCE AREAS (FORMER INCINERATOR AREA AND SHREDDER) DO NOT HAVE DIKING OR CONTAINMENT FOR RUNOFF.

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

NONE OBSERVED.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: 8-26-92) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NO CONTAINMENT OF STORM DRAIN, LOCATED AT THE SOUTHWEST CORNER OF THE SITE.

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

NONE OBSERVED.

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

UNRESTRICTED ACCESS FROM SOUTHWESTERN CORNER OF THE SITE.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 40,767

IV. COMMENTS

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

USEPA RECONNAISSANCE SSI INSPECTION 8-26-92.
IEPA CERCLA PRELIMINARY ASSESSMENT REPORT - SEPTEMBER 29, 1990.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980259014

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				CURRENT STATUS OF PERMIT
☐ B. UIC				UNKNOWN. ALUMINUM FURNACE
☐ C. AIR				AND INCINERATOR NO LONGER
☐ D. RCRA				OPERATING.
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☒ G. STATE (Specify)	76050058	-	8-24-91	AUTO SHREDDER
☒ H. LOCAL (Specify)	86080070	-	11-17-91	ALUMINUM FURNACE
☒ I. OTHER (Specify)	80010078	-	02-1988	COPPER WIRE INCINERATOR
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
☐ A. SURFACE IMPOUNDMENT			☐ A. INCENERATION	☒ A. BUILDINGS ON SITE
☐ B. PILES			☐ B. UNDERGROUND INJECTION	
☐ C. DRUMS, ABOVE GROUND			☐ C. CHEMICAL/PHYSICAL	
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL	
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING	06 AREA OF SITE
☐ F. LANDFILL			☐ F. SOLVENT RECOVERY	
☐ G. LANDFARM			☒ G. OTHER RECYCLING/RECOVERY	5 (Acres)
☐ H. OPEN DUMP			☐ H. OTHER (Specify)	

07 COMMENTS

THE ALLIED IRON & STEEL SITE STOCK PILES SCRAP METAL OVER THE MAJORITY OF THE SITE. IRON (FE) CONTAMINATION A POTENTIAL.

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.

SOURCE AREAS DO NOT HAVE RESTRICTIVE, OR CONTAINMENT MEASURES.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

SITE IS FENCED, HOWEVER, THE INTEGRITY OF THE FENCE IS COMPROMISED ON THE SOUTH-WESTERN CORNER.

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

IEPA CERCLA PRELIMINARY ASSESSMENT REPORT SEPTEMBER 28, 1990.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980259014

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ☒	A. ☒	B. ☐	C. ☒	A. 1.2 (mi)
NON-COMMUNITY	C. ☐	D. ☒	D. ☒	E. ☐	F. ☐	B. 0.75 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

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

02 POPULATION SERVED BY GROUND WATER 53,495

03 DISTANCE TO NEAREST DRINKING WATER WELL 3/4 (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
0-5 (ft)	SOUTH-SOUTHEAST	18 (ft)	(gpd)	☐ YES ☒ NO

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

MUNICIPAL WELLS DELUX MHP - 200 CONNECTIONS, 5019D-91, 112 DEEP, SERVING 480 PERSONS,

Non-responsive

[redacted]

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
KICKAPOO CREEK	☐	0.3 (mi)
ILLINOIS RIVER	☐	2 (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. 6182 NO. OF PERSONS	B. 14,088 NO. OF PERSONS	C. 26,158 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.2 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 503 (ESTIMATED)

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.1 (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)

POPULATION IS ESTIMATED BY MULTIPLYING THE NUMBER OF STRUCTURES BY THE AVERAGE NUMBER OF PERSONS PER HOUSEHOLD PER COUNTY CENSUS INFORMATION. DENSELY POPULATED AREAS ARE ESTIMATED BY A PERCENTAGE OF TOTAL POPULATION FOR A GIVEN CITY AND A GIVEN DISTANCE RING.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE: ILD | 02 SITE NUMBER: 980259014

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
100 (ft)	0-1 (ft)	UNKNOWN

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
3 (in)	3 (in)	0-5 %	NORTH-NORTHWEST	0-2 %

09 FLOOD POTENTIAL: SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. - (mi) OTHER: B. 2 (mi)

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

ENDANGERED SPECIES: -

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 0.8 (mi)	B. 0.5 (mi)	C. - (mi)	D. - (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

THE SITE IS LOCATED WITHIN THE ILLINOIS RIVER VALLEY. THE GEOLOGY IS COMPOSED OF GLACIAL DRIFT OF VARIABLE CHARACTER AND THICKNESS. SEDIMENTS ASSOCIATED WITH THE VALLEY DIFFER FROM THAT OF THE UPLANDS. THE SITE IS UNDERLAIN BY AT LEAST 20 FEET OF CAHOKIA ALUVIUM, OR 20 FEET OF HENRY FORMATION. THE CARBONDALE SHALE COMPRISES THE UPPER BEDROCK. IT IS RELATIVELY IMPERMEABLE, AND ESSENTIALLY AN AQUITARD AND IS ABOUT 200 FEET THICK. THE KEOKUK-BURMINGTON LIMESTONE AQUIFER LIES BENEATH THE CARBONDALE SHALE.

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

IEPA CERCLA PRELIMINARY ASSESSMENT REPORT - SEPTEMBER 28, 1990.
BERGSTROM, R.E., 1956 GROUNDWATER GEOLOGY IN WESTERN, ILLINOIS, NORTH PART, ILLINOIS STATE GEOLOGICAL SURVEY, CIRCULAR #222.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980259014

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SOIL	5	RECORD ENVIRONMENTAL, TONAWANDA, NY 14150 4-20-93. WEYERHAUSER ANALYTICAL, FEDERAL WAY, WA 98003 4-20-93.	12.94
WASTE			
AIR			
RUNOFF			
SPILL			
SEDIMENT	5	ANALYTICAL RESOURCES, SEATTLE, WA 98108 4-20-93	1.94
VEGETATION			
OTHER	2	CALIFORNIA ANALYTICAL, WEST SACRAMENTO, CALIFORNIA 95691	2.94

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF USEPA (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS USEPA REGION V

V. OTHER FIELD DATA COLLECTED (Describe results or observations)

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

USEPA ANALYTICAL DATA, CASE NO. 19813, 4-20-93.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980259014

II. CURRENT OWNER(S)

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

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
1612 S.W. ADAMS			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
PEORIA	IL	61602			

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

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
1612 S.W. ADAMS			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
PEORIA	IL	61602			

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

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

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

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

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

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

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

01 NAME	02 D+B NUMBER
ANN/HERBERT MERKEL	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER
BETTY/DON FORD	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sampling results, photos)

IEPA CERCLA PRELIMINARY ASSESSMENT REPORT - SEPTEMBER 28, 1990.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980259014

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME: IRVING & HOWARD MILLER	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 1612 SOUTH WEST ADAMS	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY: PEORIA	06 STATE: IL	07 ZIP CODE: 61602	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION: 21+	09 NAME OF OWNER: SAME AS ABOVE				

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

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

IEPA CERCLA PRELIMINARY ASSESSMENT REPORT SEPTEMBER 28, 1990.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980259014

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
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
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
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)

* ALLIED IS SUPPLIED WITH SCRAP METAL FROM VARIOUS PRIVATE SOURCES. IEPA CERCLA PRELIMINARY ASSESSMENT REPORT - SEPTEMBER 28, 1990.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980259014

II. PAST RESPONSE ACTIVITIES

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

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

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

01 ☒ D. SPILLED MATERIAL REMOVED — 02 DATE 3-17-89 — 03 AGENCY _____
04 DESCRIPTION
OFFSITE LEAKING UST REMEDIATED BY PRIVATE CONTRACTOR. IEPA INCIDENT REPORT ON FILE.

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

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

01 ☒ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY ALLIED IRON & STEEL
04 DESCRIPTION
ASH MATERIAL REMOVED AFTER INCINERATOR DISMANTLED. LOCATION OF ASH IS UNKNOWN. REMOVAL CONDUCTED BY ALLIED.

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

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

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

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

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

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

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

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

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

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

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980259014

II PAST RESPONSE ACTIVITIES (Continued)

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

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

01 ☒ T. BULK TANKAGE REPAIRED — 02 DATE 4-17-89 — 03 AGENCY IEPA
04 DESCRIPTION GASOLINE UST LEAK OCCURRED OFF SITE ON 4-17-89. AN UNKNOWN AMOUNT OF GASOLINE WAS RELEASED. TANK WAS REMOVED. IEPA REPORT ON FILE.

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

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

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

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

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

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

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

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

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

IEPA REPORT ON ASH SAMPLING OF TEN INCINERATORS IN ILLINOIS - DIOXINS DOCUMENTED IN SOIL AND ASH SAMPLES AT ALLIED IRON AND STEEL SITE.

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

USEPA SSI RECONNAISSANCE INSPECTION 8-26-92
IEPA CLRCLA PRELIMINARY ASSESSMENT REPORT, 11-28-90.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE: ILD | 02 SITE NUMBER: 980259014

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

THE IEPA RESPONDED TO TWO FALLOUT INCIDENTS INVOLVING THE AUTO SHREDDER ON SEPTEMBER 2, 1988 AND AUGUST 9, 1989. ALLIED WAS ISSUED A CIL (COMPLIANCE INQUIRY LETTER) VIOLATION g(a) AND 201.141.

ALLIED ALSO RECEIVED A CIL FOR LACK OF AN OPERATING PERMIT FOR THE ALUMINUM FURNACE SOMETIME IN 1986.

AN UNKNOWN AMOUNT OF GASOLINE WAS RELEASED FROM AN OFFSITE UST, ON 4-17-89. THE OFFSITE LOCATION WAS NOTED AS 10,000 NORTH GALENA ROAD, PEORIA, IL. THE RELEASE WAS CAUSED BY CORROSION OF THE UST.

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

IEPA IESDA INCIDENT REPORT.

EPA FORM 2070-13 (7-81)

Appendix C

Allied Iron and Steel

Target Compound List and Target Analyte List

Target Compound List

Volatiles

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethene (total)
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Bromodichloromethane
1,2-Dichloropropane
Cis-1,3-Dichloroprpane
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
trans-1,3-Dichloropropane
Bromoform
4-Methyl-2-pentanone
2-Hexanone
Tetrachloroethene
Toluene
1,1,2,2-Tetrachloroethane
Chlorobenzene
Ethyl benzene
Styrene
Xylenes (total)

Source: Target Compound List for water and soil with low or medium levels of volatile and semivolatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, September 27, 1991.

Target Compound List (Continued)

Semivolatiles

Phenol
bis(2-Chloroethyl) ether
2-Chlorophenol
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
2-Methylphenol
2,2-oxybis-(1-Chloropropane)*
4-Methylphenol
N-Nitroso-di-n-dipropylamine
Hexachloroethane
Nitrobenzene
Isophorone
2-Nitrophenol
2,4-Dimethylphenol
bis(2-Chloroethoxy) methane
2,4-Dichlorophenol
1,2,4-Trichlorobenzene
Naphthalene
4-Chloroaniline
Hexachlorobutadiene
4-Chloro-3-methylhenol
2-Methylnaphthalene
Hexachlorocyclopentadiene
2,46-Trichlorophenol
2,4,5-Trichlorophenol
2-Chloronephthalene
2-Nitroaniline
Dimethylphthalate
Acenaphthylene
2,6-Dinitrotoluene
3-Nitroaniline
Acenaphthene
2,4-Dinitrophenol
4-Nitrophenol
Dibenzofuran
2,4-Dinitrotoluene
Diethylphthalate
4-Chlorphenyl-phenyl ether
Fluroene
4-Nitroaniline
4,6-Dinitro-2-methylphenol
N-Nitrosodiphenylamine
4-Bromophenyl-phenyl ether
Hexachlorobenzene
Pentachlorophenol
Phenanthrenel
Anthracene
Carbazole
Di-n-butylphthalate
Fluoranthene
Pyrene
Butyl benzyl phthalate
3,3-Dichlorbenzidine
Benzo(a)anthracene
Chrysene
bis(2-Ethylhexyl)phthalate
Di-n-Octyphthalate
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzp(a)pyrene
Indeno(1,2,3-cd)pyrene
Dibenzo(a,h)anthracene
Benzo(g,h,i)perylene

*Previously known by the name of bis(2-chlorousipropyl) ether.

Soruce: Target Compound List for water and soil with low or medium levels of volatile and semivolatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, September 27, 1991.

Target Compound List (Continued)

Pesticide/PCB

alpha-BHC	4,4-DDT
beta-BHC	Methoxychlor
delta-BHC	Endrin ketone
gamma-BHC (Lindane)	Endrin aldehyde
Heptachlor	alpha-chlordane
Aldrin	gamma-chlordane
Heptachlor epoxide	Toxaphene
Endosulfan I	Aroclor-1016
Dieldrin	Aroclor-1221
4,4-DDE	Aroclor-1232
Endrin	Aroclor-1242
Endosulfan II	Aroclor-1248
4,4-DDD	Aroclor-1254
Endosulfan sulfate	Aroclor-1260

Source: Target Compound List for water and soil containing less than high concentrations of pesticides/aroclors, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, September 27, 1991.

Target Analyte List

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	Cyanide

Source: Target Analyte List in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, September 27, 1991.

APPENDIX D

Allied Iron and Steel

Analytical Results

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Semivolatile Compounds D-6
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Inorganic Analysis D-9
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Tentatively Identified Compounds D-10

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Data Reporting Qualifiers
Definitions for Organic Chemical Data Qualifiers

R Indicates that the data are unusable. The compound may or may not be present.

U Indicates compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.

J Indicates an estimated value. This flag is used either when estimated a concentration for tentatively identified compounds (TICs) 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 sample quantitation limit but greater than zero.

N Indicates presumptive evidence of a compound. This flag is only used for TICs where the identification is based on a mass spectral library search. It is applied to all TIC results. It is not used for generic characterization of a TIC.

P Used for pesticide Aroclor target analyte when there is greater than 25 percent difference for detected concentrations between the two gas chromatograph (GC) columns. The lower of the two values is reported and flagged with a "P."

C Applies to results where identifications has been confirmed by GC/mass spectrometer (MS).

B Used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag must be used for a TIC as well ad for a positively identified Target Compound List (TCL) compound.

E Identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/polychlorinated biphenyls (PCBs) analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications.

D Identifies all compounds identified in an analysis at a secondary dilution factor.

A Indicates that a TIC is a suspected aldol-condensation product.

Y Compound detection limits are raised due to aroclor interference peaks.

Data Reporting Qualifiers
Definitions for Inorganic Chemical Data Qualifiers

R Indicates that the data are unusable. The compound may or may not be present.

U Indicates compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.

J Indicates an estimated value.

B Indicates the reported value is less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

E Indicates the reported value is estimated because of the presence of interference.

M Indicates duplicate injection precision criteria not met.

N Indicates spiked sample recovery not within control limits, while sample absorbance is less than 50 percent of spike absorbance.

* Indicates duplicate analysis was not within control limits.

+ Indicates correlation coefficient for the MSA was less than 0.995.

Volatile Organic Analysis for Sediments
Allied Iron and Steel

Volatile Compound	Sample Location Concentrations in ug/kg				
	ST01	ST02	ST03	ST04	STO5
Chloromethane	11 UJ	14 UJ	15 UJ	13 UJ	12 UJ
Bromomethane	11 U	14 UJ	15 U	13 U	12 U
Vinyl Chloride	11 U	14 UJ	15 U	13 U	12 U
Chloroethane	11 U	14 UJ	15 U	13 U	12 U
Methylene Chloride	11 U	14 UJ	15 U	13 U	12 U
Acetone	11 U	14 UJ	15 U	13 U	12 U
Carbon Disulfide	11 U	14 UJ	15 U	13 U	12 U
1,1-Dichloroethene	11 U	14 UJ	15 U	13 U	12 U
1,1-Dichloroethane	11 U	14 UJ	15 U	13 U	12 U
1,2-Dichloroethene (total)	11 U	14 UJ	15 U	13 U	12 U
Chloroform	11 U	14 UJ	15 U	13 U	12 U
1,2-Dichloroethane	11 U	14 UJ	15 U	13 U	12 U
2-Butanone	11 U	14 UJ	15 U	13 U	12 U
1,1,1-Trichloroethane	11 U	14 UJ	15 UJ	13 U	12 U
Carbon Tetrachloride	11 U	14 UJ	15 UJ	13 U	12 U
Bromodichloromethane	11 U	14 UJ	15 UJ	13 U	12 U
1,2-Dichloropropane	11 U	14 UJ	15 UJ	13 U	12 U
cis-1,3-Dichloropropene	11 U	14 UJ	15 UJ	13 U	12 U
Trichloroethene	11 U	14 UJ	15 UJ	13 U	12 U
Dibromochloromethane	11 U	14 UJ	15 UJ	13 U	12 U
1,1,2-Trichloroethane	11 U	14 UJ	15 UJ	13 U	12 U
Benzene	11 U	14 UJ	15 UJ	13 U	12 U
trans-1,3-Dichloropropene	11 U	14 UJ	15 UJ	13 U	12 U
Bromoform	11 U	14 U	15 U	13 U	12 U
4-Methyl-2-Pentanone	11 U	14 UJ	15 UJ	13 U	12 U
2-Hexanone	11 U	14 UJ	15 UJ	13 U	12 U
Tetrachloroethene	11 U	14 UJ	15 UJ	13 U	12 U
1,1,2,2-Tetrachloroethane	11 U	14 UJ	15 UJ	13 U	12 U
Toluene	11 U	14 UJ	15 UJ	13 U	12 U
Chlorobenzene	11 U	14 UJ	15 UJ	13 U	12 U
Ethylbenzene	11 U	14 UJ	15 UJ	13 U	12 U
Styrene	11 U	14 UJ	15 UJ	13 U	12 U
Xylene (total)	11 U	14 UJ	15 UJ	13 U	12 U
Total Number of TICs *	2	2	2	5	2

NOTE: * - Number, not concentrations, of tentatively identified compounds (TICs) found in each

Semivolatile Organic Analysis for Sediments
Allied Iron and Steel

Semivolatile Compound	Sample Locations Concentrations in ug/kg				
	ST01	ST02	ST03	ST04	ST05
Phenol	380 U	13000 U	410 U	430 U	350 U
bis(2-Chloroethyl)Ether	380 U	13000 U	410 U	430 U	350 U
2-Chlorophenol	380 U	13000 U	410 U	430 U	350 U
1,3-Dichlorobenzene	380 U	13000 U	410 U	430 U	350 U
1,4-Dichlorobenzene	380 U	13000 U	410 U	430 U	350 U
1,2-Dichlorobenzene	380 U	13000 U	410 U	430 U	350 U
2-Methylphenol	380 U	13000 U	410 U	430 U	350 U
2,2'-Oxybis(1-Chloropropane	380 UJ	13000 U	410 UJ	430 UJ	350 UJ
4-Methylphenol	380 U	13000 U	410 U	430 U	350 U
n-Nitroso-di-n-propylamine	380 U	13000 U	410 U	430 U	350 U
Hexachloroethane	380 U	13000 U	410 U	430 U	350 U
Nitrobenzene	380 U	13000 U	410 U	430 U	350 U
Isophorone	380 U	13000 U	410 U	430 U	350 U
2-Nitrophenol	380 U	13000 U	410 U	430 U	350 U
2,4-Dimethylphenol	380 U	13000 U	410 U	430 U	350 U
bis(2-Chloroethoxy)Methane	380 U	13000 U	410 U	430 U	350 U
2,4-Dichlorophenol	380 U	13000 U	410 U	430 U	350 U
1,2,4-Trichlorobenzene	380 U	13000 U	410 U	430 U	350 U
Naphthalene	380 U	13000 U	330 J	430 U	350 U
4-Chloroaniline	380 U	13000 U	410 U	430 UJ	350 UJ
Hexachlorobutadiene	380 U	13000 U	410 U	430 U	350 U
4-Chloro-3-Methylphenol	380 U	13000 U	410 U	430 U	350 U
2-Methylnaphthalene	300 J	13000 U	680	430 U	350 U
Hexachlorocyclopentadiene	380 U	13000 U	410 U	430 U	350 U
2,4,6-Trichlorophenol	380 U	13000 U	410 U	430 U	350 U
2,4,5-Trichlorophenol	930 U	32000 U	1000 U	1000 U	850 U
2-Chloronaphthalene	380 U	13000 U	410 U	430 U	350 U
2-Nitroaniline	930 U	13000 U	1000 U	1000 U	850 U
Dimethyl Phthalate	380 U	13000 U	410 U	430 U	350 U
Acenaphthylene	380 U	13000 U	550	430 U	350 U
2,6-Dinitrotoluene	380 U	13000 U	410 U	430 U	350 U
3-Nitroaniline	930 U	32000 U	1000 U	1000 U	850 U
Acenaphthene	380 U	13000 U	410 U	430 U	350 U
2,4-Dinitrophenol	930 UJ	32000 UJ	1000 UJ	1000 UJ	850 UJ
4-Nitrophenol	930 UJ	32000 UJ	1000 UJ	1000 UJ	850 UJ
Dibenzofuran	380 U	13000 U	410 U	430 U	350 U
2,4-Dinitrotoluene	380 U	13000 U	410 U	430 U	350 U
Diethylphthalate	380 U	13000 U	410 U	430 U	350 U
4-Chlorophenyl Phenyl Ether	380 U	13000 U	410 U	430 U	350 U
Fluorene	380 U	13000 U	410 U	430 U	350 U
4-Nitroaniline	930 UJ	32000 U	1000 UJ	1000 U	850 U
4,6-Dinitro-2-Methylphenol	930 U	32000 U	1000 U	1000 U	850 U

Semivolatile Organic Analysis for Sediments (Continued) Allied Iron and Steel					
Semivolatile Compound	Sample Locations Concentrations in ug/kg				
	ST01	ST02	ST03	ST04	ST05
Hexachlorobenzene	380 U	13000 U	410 U	430 U	350 U
Pentachlorophenol	930 U	32000 U	1000 U	1000 U	850 U
Phenanthrene	620	13000 U	540	430 U	350 U
Anthracene	380 U	13000 U	700	430 U	350 U
Carbazole	380 U	13000 U	410 U	430 U	350 U
di-n-Butylphthalate	380 U	13000 U	350 J	430 U	350 U
Fluoranthene	360 J	13000 U	840	270 J	350 U
Pyrene	360 J	13000 U	1100	250 J	350 U
Butyl Benzyl Phthalate	1300	22000	2900	430 U	350 U
3,3'-Dichlorobenzidine	380 U	13000 UJ	410 U	430 U	350 U
Benzo(a)Anthracene	380 U	13000 U	1200	430 U	350 U
Chrysene	320 J	13000 UJ	2000	430 U	350 U
bis(2-Ethylhexyl)Phthalate	810	100000	6100 D	430 U	350 U
di-n-Octyl Phthalate	380 UJ	10000 J	580 J	430 U	350 U
Benzo(b)Fluoranthene	260 J	13000 U	3000	430 U	350 U
Benzo(k)Fluoranthene	300 J	13000 U	3000	430 U	350 U
Benzo(a)Pyrene	380 U	13000 U	2000	430 U	350 U
Indeno(1,2,3-cd)Pyrene	240 J	13000 U	1800	430 U	350 U
Dibenzo(a,h)Anthracene	380 U	13000 U	710	430 U	350 U
Benzo(g,h,i)Perylene	260 J	13000 U	1200	430 U	350 U
Total Number of TICs *	20	20	20	20	7

* - Number, not concentrations, of tentatively identified compounds (TICs) found in each sample.

Pesticide and PCB Analysis for Sediments
Allied Iron and Steel

Pesticide/PCB	Sample Location Concentrations in ug/kg				
	ST01	ST02	ST03	ST04	ST05
Alpha-BHC	1.9 U	22 Y	2.1 U	2.2 U	1.8 U
Beta-BHC	1.9 U	20 Y	2.1 U	2.2 U	1.8 U
Delta-BHC	1.9 U	30 Y	3.5 JY	2.2 U	2.8 U
Gamma-BHC (Lindane)	2.2 Y	13 U	2.4 JY	2.2 U	1.8 U
Heptachlor	12	770 Y	20 JY	2.2 U	1.8 U
Aldrin	7.3 Y	730 Y	20 JY	2.2 U	1.8 U
Heptachlor Epoxide	7.1 Y	610 Y	22 JY	2.3 Y	1.8 U
Endosulfan I	1.9 U	13 U	2.1 U	2.2 U	1.8 U
Dieldrin	15 Y	340 Y	280 JY	4.9 Y	4.3 Y
4,4'-DDE	13.0 Y	920.0 Y	80.0 JY	5.3 Y	3.6 U
Endrin	9.5 Y	150 Y	64 JY	4.3 U	3.6 U
Endosulfan II	22 Y	220 Y	140.0 JY	4.7 Y	3.6 U
4,4'-DDD	7.5 Y	120 Y	57.0 JP	4.9 Y	3.6 U
Endosulfan Sulfate	3.7 U	25.0 U	4.1 U	4.3 U	3.6 U
4,4'-DDT	87 Y	270 Y	340 JPD	23 Y	2.6 JP
Methoxychlor	29 Y	130 U	85 JY	22 U	18 U
Endrin Ketone	18 Y	250 Y	120.0 JY	5.3 Y	3.6 U
Endrin Aldehyde	3.7 U	150 Y	85.0 JY	4.3 U	3.6 U
Alpha-Chlordane	8.5 Y	49.0 Y	71 JPD	2	1 JP
Gamma-Chlordane	19 Y	500.0 Y	150 JPD	6 P	1.5 JP
Toxaphene	190 U	6500 Y	3500 JY	220 U	180 U
Aroclor-1016	37 U	250 U	41 U	43 U	36 U
Aroclor-1221	76 U	5200 Y	190 JY	87 U	72 U
Aroclor-1232	37 U	38000 Y	560 JY	90 Y	36 U
Aroclor-1242	160	23000 JPD	600 JP	43 U	36 U
Aroclor-1248	37 U	32000 Y	690 JY	90 Y	36 U
Aroclor-1254	360	11000 JD	2700 JD	100	36 U
Aroclor-1260	160 P	2300	1300 JD	47	36 U

Inorganic Analysis for Sediments Allied Iron and Steel					
Metals and Cyanide	Sample Locations and Number Concentration in mg/kg				
	ST01	ST02	ST03	ST04	ST05
Aluminum	3020.00	7540.00	8800.00	4800.00	4740.00
Antimony	9.00 U	22.40	11.30 U	9.90 U	9.90 U
Arsenic	52.90	16.60 S	16.00	8.70 S	3.30
Barium	76.90	1340.00	437.00	75.10	66.50
Beryllium	0.69 U	0.83 U	0.87 U	0.76 U	0.76 U
Cadmium	2.70	35.40	10.00	0.76 U	0.76 U
Calcium	37700.00	25900.00	31600.00	13000.00	14300.00
Chromium	14.60	158.00	189.00	21.30	9.40
Cobalt	5.00 B	27.40	16.50	5.90 B	6.20 B
Copper	135.00	906.00	421.00	35.70	12.10
Iron	14100.00	129000	84700.00	14900.00	11900.00
Lead	275.00	7120.00	1730.00	127.00	12.40
Magnesium	17300.00	7610.00	10400.00	6740.00	7410.00
Manganese	345.00	1050.00	1570.00	530.00	398.00
Mercury	2.00	2.50	1.60	0.13 U	0.13 U
Nickel	17.50	235.00	114.00	17.30	12.20
Potassium	460.00 B	331.00 B	839.00 B	557.00 B	407.00 B
Selenium	0.69 UW	8.30 U	0.87 U	7.60 U	7.60 UW
Silver	2.60	20.60	13.80	2.50 B	2.30 U
Sodium	232.00 B	848.00 B	335.00 B	243.00 B	224.00 B
Thallium	1.60 UJ	1.90 UW	2.00 UW	1.80 UW	1.80 UJW
Vanadium	12.50	35.00	43.40	13.30	13.20
Zinc	608.00	8680.00	4070.00	303.00	45.10
Cyanide	1.10 U	1.40 U	1.40 U	1.30 U	1.30 U

Volatile Organic Analysis for Sediments Tentatively Identified Compounds Allied Iron and Steel		
Compound Name	Retention Time	Estimated Concentration
ST01		
Unknown Silane Isomer (BP M/	11.83	10 UJB
Decamethylcyclopentasiloxane	14.15	15 UJBN
ST02		
Unknown Silane Isomer (BP M/	11.83	33 UJB
Decamethylcyclopentasiloxane	14.15	52 UJBN
ST03		
Unknown Silane Isomer (BP M/	11.83	25 UJB
Decamethylcyclopentasiloxane	14.15	45 UJBN
ST04		
Unknown Silane Isomer (BP M/	11.82	10 UJB
C10.H16 Isomer (BP M/E 93)	12.27	300 J
C10.H16 Isomer (BP M/E 93)	13.27	7 J
C10.H16 Isomer (BP M/E 93)	13.67	11 J
Decamethylcyclopentasiloxane	14.15	16 UJBN
ST05		
Unknown Silane Isomer (BP M/	11.83	13 UJB

Semivolatile Organic Analysis for Sediments Tentatively Identified Compounds Allied Iron and Steel		
Compound Name	Retention Time	Estimated Concentration
ST01		
Dichloroisocyanatobenzene	15.32	230 J
C11 H10 Isomer (BP M/E 142)	15.43	320 J
Unknown HC Coelute (BP M/E 5	16.90	260 J
Dimethylnaphthalene Isomer	17.10	260 J
Dimethylnaphthalene Isomer	17.37	480 J
Dimethylnaphthalene Isomer	17.70	300 J
Unknown HC Coelute (BP M/E 7	17.95	310 J
Trimethylnaphthalene Isomer	19.47	270 J
Trimethylnaphthalene Isomer	19.75	310 J
Trimethylnaphthalene Isomer	20.13	350 J
Unknown HC Coelute (BP M/E 5	21.65	330 J
2,6,10,14-Tetramethylpentade	21.73	1100 JN
Methylnaphthalene Isomer (BP	22.35	450 J
Unknown HC (BP M/E 57)	22.42	220 J
Unknown HC (BP M/E 57)	33.43	270 J
Unknown HC Coelute (BP M/E 2	35.28	600 J
Unknown (BP M/E 95)	35.92	320 J
Unknown (BP M/E 43)	36.57	490 J
Unknown (BP M/E 191)	37.85	460 J
Unknown (BP M/E 43)	38.73	300 J
ST02		
Trichlorobiphenyl Isomer COE	23.80	4600 J
Methylphenol Isomer (BP M/E	26.27	4900 J
Unknown (BP M/E 237)	30.23	6800 J
Unknown (BP M/E 97)	31.43	4400 J
Unknown (BP M/E 149)	32.58	4800 J
Unknown (BP M/E 43)	32.68	4100 J
Unknown (BP M/E 55)	34.27	8900 J
Unknown (BP M/E 149)	34.60	6200 J
Unknown (BP M/E 43)	34.65	5800 J
Unknown (BP M/E 149)	34.88	8500 J
Benzenedicarboxylic Acid Iso	35.15	19000 J
Unknown (BP M/E 69)	35.25	6700 J
Unknown (BP M/E 149)	35.43	5500 J
Unknown (BP M/E 149)	35.48	4300 J
Unknown (BP M/E 57)	35.58	5100 J
Unknown (BP M/E 43)	36.05	4100 J
Unknown (BP M/E 191)	36.53	8800 J
Benzenedicarboxylic Acid Iso	36.88	5500 J
Unknown (BP M/E 191)	37.28	8600 J
Unknown (BP M/E 191)	38.13	4500 J

Semivolatile Organic Analysis for Sediments (Continued) Tentatively Identified Compounds Allied Iron and Steel		
Compound Name	Retention Time	Estimated Concentration
ST03		
Unknown (BP M/E 135)	16.93	770 J
Pentachlorobiphenyl Isomer C	26.90	680 J
Unknown (BP M/E 143)	27.82	27000 J
Pentachlorobiphenyl Isomer C	28.43	680 J
Unknown (BP M/E 216)	28.72	850 J
Unknown (BP M/E 55)	29.65	880 J
Unknown (BP M/E 83)	30.33	1200 J
Unknown (BP M/E 57)	31.52	1100 J
Unknown (BP M/E 57)	34.67	680 J
Unknown (BP M/E 69)	34.97	1100 J
Unknown (BP M/E 43)	35.40	720 J
Unkonwn (BP M/E 252)	35.47	790 J
Unknown (BP M/E 149)	35.78	1400 J
Unknown (BP M/E 95)	36.03	770 J
Unknown (BP M/E 69)	37.08	830 J
Unknown (BP M/E 69)	37.82	650 J
Unknown (BP M/E 95)	37.93	1100 J
Unknown (BP M/E 95)	37.93	660 J
Unknown (BP M/E 55)	38.12	640 J
Unknown (BP M/E 69)	38.30	630 J
ST04		
C10.H16 Isomer (BP M/E 93)	7.42	610 J
Unknown (BP M/E 41)	20.08	160 J
Unknown HC (BP M/E 71)	21.68	170 J
Unknown (BP M/E 73)	25.20	200 J
Unknown (BP M/E 81)	28.83	240 J
Unknown (BP M/E 121)	30.68	210 J
Unknown (BP M/E 242)	32.62	150 J
Unknown HC (BP M/E 43)	33.37	230 J
Unknown (BP M/E 57)	34.70	260 J
Unknown (BP M/E 69)	34.78	170 J
Unknown HC Coelute (BP M/E 5	35.23	650 J
Unknown (BP M/E 57)	36.50	190 J
Unknown HC (BP M/E 57)	36.97	330 J
Unknown (BP M/E 43)	37.12	240 J
Unknown (BP M/E 191)	37.80	180 J
Unknown (BP M/E 43)	37.98	160 J
Unknown (BP M/E 57)	38.65	270 J
Unknown (BP M/E 95)	38.87	140 J
Unknown (BP M/E 43)	39.38	400 J
Unknown (BP M/E 69)	39.60	

Semivolatile Organic Analysis for Sediments (Continued) Tentatively Identified Compounds Allied Iron and Steel		
Compound Name	Retention Time	Estimated Concentration
ST05		
Unknown HC (BP M/E 57)	21.73	120 J
Unknown HC (BP M/E 57)	33.40	77 J
Unknown HC Coelute (BP M/E 2	35.25	180 J
Unknown HC (BP M/E 57)	37.00	120 J
Unknown (BP M/E 191)	37.82	90 J
Unknown (BP M/E 71)	38.67	280 J
Unknown (BP M/E 207)	38.92	85 J

Volatile Organic Analysis for Soil Samples Allied Iron and Steel					
Volatile Compound	Sample Locations Concentrations in ug/kg				
	SS01	SS02	SS03	SS04	SS05
Chloromethane	11 UJ	14 UJ	15 UJ	13 UJ	12 UJ
Bromomethane	11 U	14 UJ	15 U	13 U	12 U
Vinyl Chloride	11 U	14 UJ	15 U	13 U	12 U
Chloroethane	11 U	14 UJ	15 U	13 U	12 U
Methylene Chloride	11 U	14 UJ	15 U	13 U	12 U
Acetone	11 U	14 UJ	18	13 U	12 U
Carbon Disulfide	11 U	14 UJ	15 U	13 U	12 U
1,1-Dichloroethene	11 U	14 UJ	15 U	13 U	12 U
1,1-Dichloroethane	11 U	14 UJ	15 U	13 U	12 U
1,2-Dichloroethene (total)	11 U	14 UJ	15 U	13 U	12 U
Chloroform	11 U	14 UJ	15 U	13 U	12 U
1,2-Dichloroethane	11 U	14 UJ	15 U	13 U	12 U
2-Butanone	11 U	14 UJ	15 U	13 U	12 U
1,1,1-Trichloroethane	11 U	14 UJ	15 UJ	13 U	12 U
Carbon Tetrachloride	11 U	14 UJ	15 UJ	13 U	12 U
Bromodichloromethane	11 U	14 UJ	15 UJ	13 U	12 U
1,2-Dichloropropane	11 U	14 UJ	15 UJ	13 U	12 U
cis-1,3-Dichloropropene	11 U	14 UJ	15 UJ	13 U	12 U
Trichloroethene	11 U	14 UJ	15 UJ	13 U	12 U
Dibromochloromethane	11 U	14 UJ	15 UJ	13 U	12 U
1,1,2-Trichloroethane	11 U	14 UJ	15 UJ	13 U	12 U
Benzene	11 U	14 UJ	15 UJ	13 U	12 U
trans-1,3-Dichloropropene	11 U	14 UJ	15 UJ	13 U	12 U
Bromoform	11 U	14 U	15 U	13 U	12 U
4-Methyl-2-Pentanone	11 U	14 UJ	15 UJ	13 U	12 U
2-Hexanone	11 U	14 UJ	15 UJ	13 U	12 U
Tetrachloroethene	11 U	14 UJ	130 J	13 U	12 U
1,1,2,2-Tetrachloroethane	11 U	14 UJ	15 UJ	13 U	12 U
Toluene	11 U	14 UJ	15 UJ	13 U	12 U
Chlorobenzene	11 U	14 UJ	15 UJ	13 U	12 U
Ethylbenzene	11 U	14 UJ	15 UJ	13 U	12 U
Styrene	11 U	14 UJ	15 UJ	13 U	12 U
Xylene (total)	11 U	14 UJ	15 UJ	13 U	12 U
Total Number of TICs *	0	5	10	9	7

* Number, not concentrations, of tentatively identified compounds (TICs).

SOIL-VOL

Semivolatile Organic Analysis for Soil Samples
Allied Iron and Steel

Semivolatile Compound	Sample Location / Concentrations in ug/kg				
	SS01	SS02	SS03	SS04	SS05
Phenol	220 J	390 UJ	11000 UJ	13000 UJ	12000 UJ
bis(2-Chloroethyl)Ether	380 U	390 U	11000 U	13000 U	12000 U
2-Chlorophenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
1,3-Dichlorobenzene	380 U	1200	11000 U	13000 U	12000 U
1,4-Dichlorobenzene	380 U	680	11000 U	13000 U	12000 U
1,2-Dichlorobenzene	380 U	250 J	11000 U	13000 U	12000 U
2-Methylphenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
2,2'-oxybis(1-Chloropropane)	380 U	390 UJ	11000 U	13000 U	12000 UJ
4-Methylphenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
n-Nitroso-Di-n-Propylamine	380 UJ	390 U	11000 U	13000 U	12000 U
Hexachloroethane	380 U	390 U	11000 U	13000 U	12000 U
Nitrobenzene	380 U	390 U	11000 U	13000 U	12000 U
Isophorone	380 U	390 U	11000 U	13000 U	12000 U
2-Nitrophenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
2,4-Dimethylphenol	380 UJ	390 U	11000 UJ	13000 UJ	12000 UJ
bis(2-Chloroethoxy)Methane	380 U	390 U	11000 U	13000 U	12000 U
2,4-Dichlorophenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
1,2,4-Trichlorobenzene	380 UJ	2400	11000 U	13000 U	12000 U
Naphthalene	36 J	560	870 J	710 J	930 J
4-Chloroaniline	380 U	390 U	11000 U	13000 U	12000 U
Hexachlorobutadiene	380 U	390 U	11000 U	13000 U	12000 U
4-Chloro-3-Methylphenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
2-Methylnaphthalene	52 J	520	2000 J	3300 J	2000 J
Hexachlorocyclopentadiene	380 U	390 U	11000 U	13000 UJ	12000 UJ
2,4,6-Trichlorophenol	380 UJ	390 UJ	11000 UJ	13000 UJ	12000 UJ
2,4,5-Trichlorophenol	920 UJ	950 UJ	27000 UJ	32000 UJ	31000 UJ
2-Chloronaphthalene	380 U	150 J	11000 U	13000 U	12000 UJ
2-Nitroaniline	920 U	950 U	27000 U	32000 U	31000 UJ
Dimethyl Phthalate	380 U	390 U	11000 U	13000 U	12000 UJ
Acenaphthylene	380 U	390 U	11000 U	13000 U	12000 UJ
2,6-Dinitrotoluene	380 U	390 U	11000 U	13000 U	12000 UJ
3-Nitroaniline	920 U	950 U	27000 U	32000 U	31000 UJ
Acenaphthene	380 UJ	390 U	11000 U	690 J	12000 UJ
2,4-Dinitrophenol	920 UJ	950 UJ	27000 UJ	32000 UJ	31000 UJ
4-Nitrophenol	920 UJ	950 UJ	27000 UJ	32000 UJ	31000 UJ
Dibenzofuran	380 U	220 J	11000 U	13000 U	12000 UJ
2,4-Dinitrotoluene	380 U	390 U	11000 U	13000 U	12000 UJ
Diethylphthalate	380 U	390 U	11000 U	13000 U	12000 UJ
4-Chlorophenyl-phenylether	380 U	390 U	11000 U	13000 U	12000 UJ
Fluorene	380 U	390 U	11000 U	1200 J	12000 UJ
4-Nitroaniline	920 U	950 U	27000 U	32000 U	31000 UJ
4,6-Dinitro-2-Methylphenol	920 UJ	950 UJ	27000 UJ	32000 UJ	31000 UJ
n-Nitrosodiphenylamine	380 U	390 UJ	11000 UJ	13000 U	12000 UJ
4-Bromophenyl-phenylether	380 U	930 UJ	11000 UJ	13000 U	12000 UJ

Semivolatile Organic Analysis for Soil Samples (Continued)
Allied Iron and Steel

Semivolatile Compound	Sample Location and Number / Concentrations in ug/kg				
	SS01	SS02	SS03	SS04	SS05
Hexachlorobenzene	380 U	6600 ED	11000 UJ	13000 U	12000 UJ
Pentachlorophenol	920 UJ	950 UJ	27000 UJ	32000 UJ	31000 UJ
Phenanthrene	41 J	1000 J	550 J	2500 J	1200 J
Anthracene	380 U	390 UJ	11000 UJ	13000 U	710 J
Carbazole	380 U	390 UJ	11000 UJ	13000 U	310 J
di-n-Butylphthalate	17 J	390 UJ	11000 UJ	3700 J	1600 J
Fluoranthene	29 J	160 J	11000 UJ	1400 J	1500 J
Pyrene	52 J	470	11000 U	3200 J	2400 J
Butylbenzylphthalate	280 J	390 U	11000 U	59000	14000 J
3,3'-Dichlorobenzidine	380 U	390 U	11000 U	13000 U	12000 UJ
Benzo(a)Anthracene	25 J	110 J	11000 U	1100 J	1100 J
Chrysene	33 J	350 J	11000 U	1700 J	1200 J
bis(2-Ethylhexyl)Phthalate	250 J	1300	11000 U	90000	50000 J
di-n-Octyl Phthalate	380 UJ	390 UJ	11000 UJ	13000 U	12000 U
Benzo(b)Fluoranthene	46 J	390 UJ	11000 UJ	13000 U	12000 U
Benzo(k)Fluoranthene	37 J	390 UJ	11000 UJ	13000 U	12000 U
Benzo(a)Pyrene	35 J	390 UJ	11000 UJ	13000 U	12000 U
Indeno(1,2,3-cd)Pyrene	380 UJ	390 UJ	11000 UJ	13000 U	12000 U
Dibenzo(a,h)Anthracene	380 UJ	390 UJ	11000 UJ	13000 U	12000 U
Benzo(g,h,i)Perylene	100 J	390 UJ	11000 UJ	13000 U	12000 U
Total Number of TICs	9	9	20	20	5

SS-SV

Pesticide/PCB Analysis for Soil Samples Allied Iron and Steel					
Pesticide/ PCB	Sample Location Concentrations in ug/kg				
	SS01	SS02	SS03	SS04	SS05
Alpha-BHC	9.2 UJ	20 UJ	9.2 UJ	200 UR	210 UR
Beta-BHC	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Delta-BHC	9.2 UJ	20 UJ	9.2 UJ	200 UR	210 UR
Gamma-BHC (Lindane)	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Heptachlor	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Aldrin	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Heptachlor Epoxide	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Endosulfan I	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Dieldrin	18 U	11 JP	18 UJ	380 UR	410 UR
4,4'-DDE	18 U	12 JP	18 UJ	380 UR	410 UR
Endrin	18 U	39 UJ	18 UJ	380 UR	410 UR
Endosulfan II	18 U	19 JP	18 UJ	380 UR	410 UR
4,4'-DDD	18 U	39 UJ	18 UJ	380 UR	410 UR
Endosulfan Sulfate	18 U	39 UJ	18 UJ	380 UR	410 UR
4,4'-DDT	18 U	35 JP	18 UJ	380 UR	410 UR
Methoxychlor	92 U	200 UJ	92 UJ	2000 UR	2100 UR
Endrin Ketone	18 U	39 UJ	18 UJ	380 UR	410 UR
Endrin Aldehyde	18 U	39 UJ	18 UJ	380 UR	410 UR
Alpha-Chlordane	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Gamma-Chlordane	9.2 U	20 UJ	9.2 UJ	200 UR	210 UR
Toxaphene	920 U	2000 UJ	920 UJ	20000 UR	21000 UR
Aroclor-1016	180 U	390 UJ	180 UJ	3800 UR	4100 UR
Aroclor-1221	360 U	790 UJ	360 UJ	7700 UR	8400 UR
Aroclor-1232	180 U	390 UJ	180 UJ	3800 UR	4100 UR
Aroclor-1242	180 U	1500 JP	2900 J	80000 JC	40000 JCD
Aroclor-1248	130 J	390 UJ	180 UJ	3800 UR	4100 UR
Aroclor-1254	350 P	390 UJ	180 UJ	3800 UR	4100 UR
Aroclor-1260	180 U	390 UJ	180 UJ	3800 UR	4100 UR

SSPest

Inorganic Analysis for Soil Samples
Allied Iron and Steel

Metals and Cyanide	Sample Locations Concentrations in mg/kg				
	SS01	SS02	SS03	SS04	SS05
Aluminum	4320	18400	3360	7030	7830
Antimony	2.9 UJN	122 JN	68.7 JBN	32.8 JN	15.5 JN
Arsenic	5.3	16.8	38.9	24.9	16.0
Barium	62.6	350	123 B	2750	867
Beryllium	0.36 JB	0.60 B	0.56 U	0.57 B	0.36 JB
Cadmium	1.8	14.7	6.9 U	52.5	22.6
Calcium	13300	25900	7790 B	32800	64700
Chromium	15.3	669	1490	2120	393
Cobalt	5.7 B	17.3	47.5 B	65.7	23.4
Copper	35.8 JN	13500 JN	14400 JN	1850 JN	14700 JN
Iron	12100	1E+05	5E+05	6E+05	1E+05
Lead	134 *	2950 *	5950 *	3760 *	2200 *
Magnesium	6160	7310	1690 B	7490	11500
Manganese	375	2070	3640	2420	4100
Mercury	0.06 B	0.09 B	0.09 B	4.6	2.6
Nickel	14.6	286	516	438	192.0
Potassium	633 B	727 JB	1360 U	608 JB	452 JB
Selenium	0.21 B	0.55 JBW	0.21 U	1.1	0.70 JBW
Silver	0.52 U	1.7 B	5.4 U	10.5	0.68 U
Sodium	78.3 B	278 B	158 B	1180	563 B
Thallium	0.17 U	0.24 B	0.17 UJW	0.19 U	0.20 U
Vanadium	13.8	31.4	39.7 B	0.50 U	67.9
Zinc	201 *	3080 *	1100 *	14700 *	7280 *
Cyanide	0.54 U	0.60 U	0.54 U	0.65 U	0.65 U

soilmet

Dioxin Analysis for Soils Allied Iron and Steel		
PCDD/PCDF Analyte	Sample Location Concentrations in ug/kg	
	SS02	SS03
2378-TCDD	0.8 J	0.35 J
2378-TCDF	2.7 J	3.1 J
12378-PeCDF	6.7 J	12
12378-PeCDD	1.2 J	1.4 J
23478-PeCDF	3.9 J	8.6
123478-HxCDF	4.7	20
123678-HxCDF	2.5	11
123478-HxCDD	1.5	0.92 J
123678-HxCDD	3.8	2.9
123789-HxCDD	1.4	1.5
234678-HxCDF	4	13
123789-HxCDF	1.4	2.3 J
1234678-HpCDF	19	46
1234678-HpCDD	9.3	15
1234789-HpCDF	2.6	6.9
OCDD	16 J	24
OCDF	19 J	30

pcdd-df

Volatile Organic Analysis for Soil Samples Tentatively Identified Compounds Allied Iron and Steel Concentrations in ug/kg		
Compound Name	Retention Time	Estimated Concentration
Sample SS02		
Dichloro Benzene Isomer	23.38	33 J
Dichloro Benzene Isomer	23.50	26 J
Unknown	24.53	8 J
Trichloro Benzene Isomer	25.70	27 J
Unknown	26.27	8 J
Sample SS03		
Saturated Hydrocarbon	22.73	120 J
Unknown	24.12	350 J
Unknown	24.63	140 UJB
Unknown	25.03	370 JB
Unknown	25.40	88 J
Unknown	25.52	180 J
Unknown	25.80	79 J
Saturated Hydrocarbon	25.92	300 J
Unknown	26.20	460 J
Unknown	26.43	41 J
Sample SS04		
Trichlorofluoromethane	6.52	21 JN
Unknown	22.23	57 J
Unknown	23.28	41 J
Unknown Hydrocarbon	24.03	86 J
Alkyl Substituted Compound	24.53	52 J
Unknown	25.07	82 J
Unknown	25.42	50 J
Saturated Hydrocarbon	25.82	120 J
Unknown	26.10	190 J
Sample SS05		
Ethylmethylbenzene Derivativ	22.23	10 J
Trichloro Benzene Isomer	23.57	9 J
Dimethyl Benzene Isomer	23.95	11 J
Unknown	24.55	35 J
Alkyl Benzene Derivative	25.43	25 J
Unknown	26.12	11 J
Unknown	26.25	11 J

SSTICVOL

Semivolatile Organic Analysis for Soil Samples Tentatively Identified Compounds Allied Iron and Steel Concentrations in ug/kg		
Compound Name	Retention Time	Estimated Concentration
Sample SS01		
Unsaturated Hydrocarbon	5.68	450 J
Unknown	6.72	1800 J
Unknown	7.03	360 J
Unknown	8.12	750 J
Dimethyl Benzene Methanol	10.13	140 JN
Unsaturated Hydrocarbon	20.87	200 J
Unknown	24.38	150 J
Unknown	26.83	120 J
Unknown	36.57	81 J
Sample SS02		
Unsaturated Hydrocarbon	5.68	450 J
Unknown	6.72	1800 J
Unknown	7.03	360 J
Unknown	8.12	750 J
Dimethyl Benzene Methanol	10.13	140 JN
Unsaturated Hydrocarbon	20.87	200 J
Unknown	24.38	150 J
Unknown	26.83	120 J
Unknown	36.57	81 J
Sample SS03		
Unknown Hydrocarbon	10.47	7500 J
Saturated Hydrocarbon	12.52	18000 J
Saturated Hydrocarbon	12.75	13000 J
Unknown	13.72	9600 J
Saturated Hydrocarbon	13.88	28000 J
Saturated Hydrocarbon	14.40	29000 J
Unknown	14.58	8600 J
Unknown Hydrocarbon	14.70	15000 J
Saturated Hydrocarbon	15.75	23000 J
Saturated Hydrocarbon	16.18	20000 J
Unknown	17.00	11000 J
Unknown	18.57	8600 J
Unknown Hydrocarbon	18.65	11000 J
Unknown Hydrocarbon	18.83	12000 J
Unknown Hydrocarbon	20.97	45000 J
Unknown Hydrocarbon	22.43	39000 J
Saturated Hydrocarbon	23.53	20000 J
Unknown	23.68	8700 J
Unknown	35.82	15000 J
Unknown	36.60	10000 J

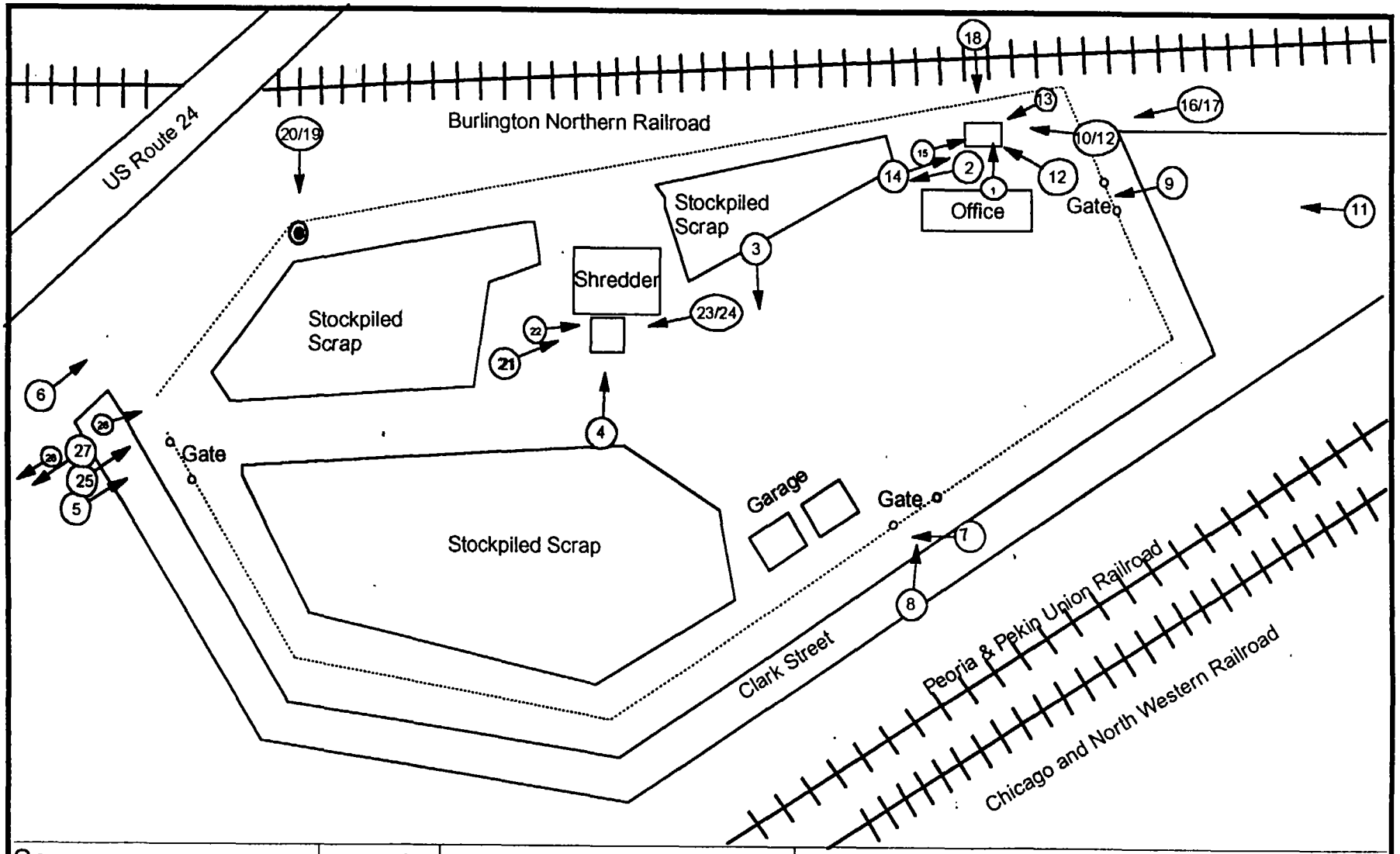
Semivolatile Organic Analysis for Soil Samples (Continued) Tentatively Identified Compounds Allied Iron and Steel Concentrations in ug/kg		
Compound Name	Retention Time	Estimated Concentration
Sample SS04		
Saturated Hydrocarbon	14.18	15000 J
Saturated Hydrocarbon	15.52	9300 J
Saturated Hydrocarbon	15.97	17000 J
Dimethyl Naphthalene Isomer	16.27	8800 J
Saturated Hydrocarbon	17.62	20000 J
Unknown	18.60	8500 J
Unknown Hydrocarbon	19.18	30000 J
Unknown Hydrocarbon	20.72	35000 J
Long Chain Sat. Hydrocarbon	22.07	8600 J
Unknown Hydrocarbon	22.15	14000 J
Trichlorobiphenyl Isomer	23.05	12000 J
Trichlorobiphenyl Isomer	23.25	7100 J
Unknown Hydrocarbon	23.42	14000 J
Tetrachlorobiphenyl Isomer	23.93	6900 J
Unknown Acid	24.25	9700 J
Unknown Hydrocarbon	24.68	10000 J
Unknown Acid	26.73	20000 J
Unknown	28.40	9200 J
Unknown	32.55	24000 J
Unknown Ester	34.33	7500 J
Sample SS05		
Unknown Hydrocarbon	20.57	4200 J
Trichlorobiphenyl Isomer	22.90	3500 J
Unknown	24.07	5700 J
Unknown	26.53	3400 J
Unknown	28.22	5400 J

SVSS-DC

APPENDIX E

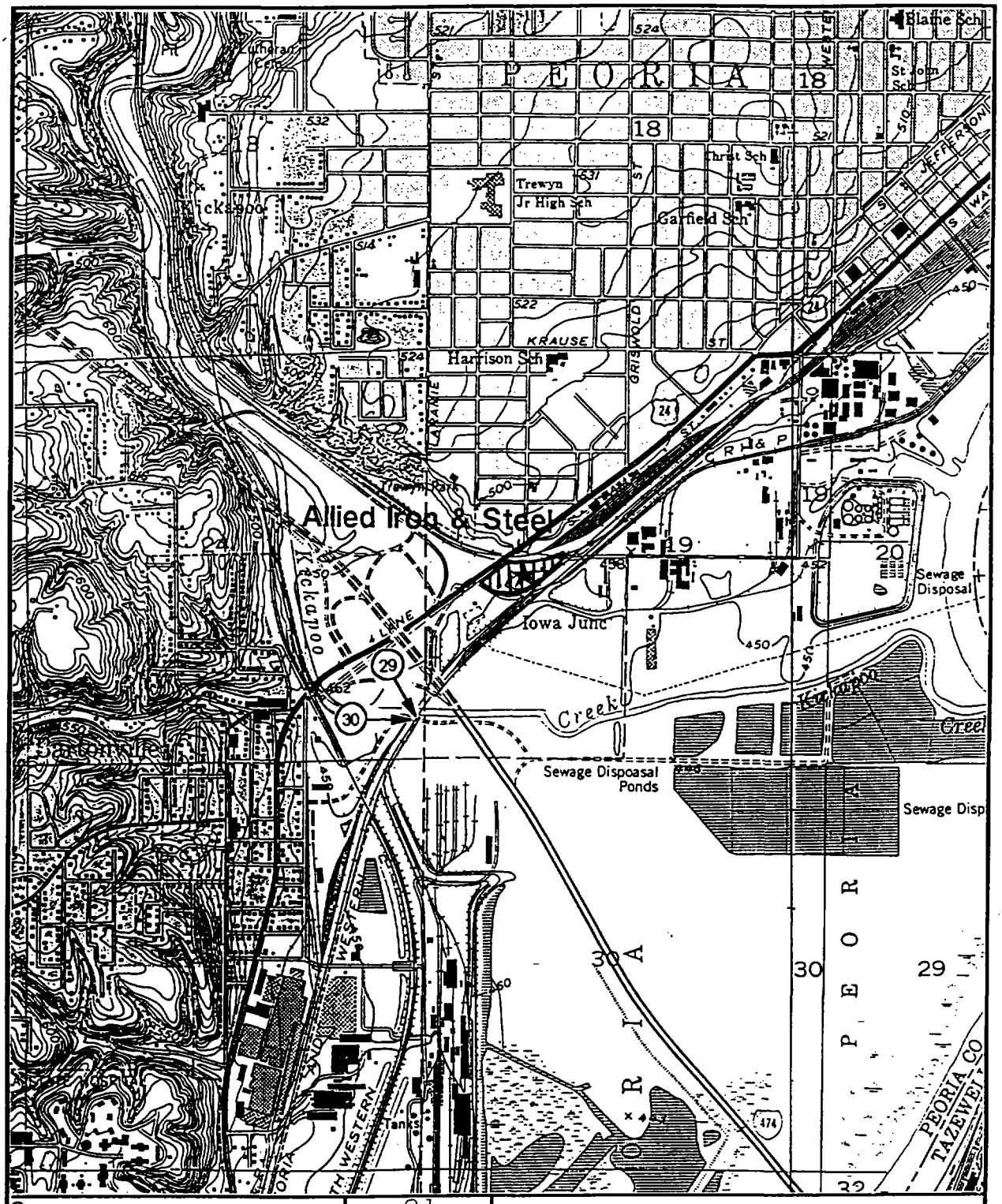
Allied Iron and Steel

Site Photographs



Source: Reconnaissance, 1992	Onsite Photo Location Map	Legend: Fence; Fence Post; Railroad; Sewer
Scale: Not to Scale	Allied Iron and Steel Peoria, Illinois	

FRE00051.pre 4/20/94



Source: USGS 1949a, 1949b	N	Offsite Photo Location Map
Scale: 1 inch = 2,000 feet		Allied Iron and Steel Peoria, Illinois

FRE00052 4/18/94

Date: 8-26-92

Time: 0922

Photo Taken By: J. Albano

Photo Number: 01

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to northwest.

Description: The area of the former copper wire incinerator operations.

Date: 8-26-92

Time: 0924

Photo Taken By: J. Albano

Photo Number: 02

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: View of site operations.

Date: 8-26-92

Time: 0926

Photo Taken By: J. Albano

Photo Number: 03

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southeast.

Description: Various types of reclaimed scrap metal. Note tanks to left and corner.

Date: 8-26-92

Time: 0929

Photo Taken By: J. Albano

Photo Number: 04

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to northwest.

Description: View of shredder (right) and control house (center).

Date: 8-26-92

Time: 0930

Photo Taken By: J. Albano

Photo Number: 05

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: View of site (south of shredder) from western gate.

Date: 8-26-92

Time: 0931

Photo Taken By: J. Albano

Photo Number: 06

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: View of site operations. Note absence of fencing along western border.

Date: 8-26-92

Time: 0934

Photo Taken By: J. Albano

Photo Number: 07

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southwest.

Description: View of Southeastern border of site. Note garage at center of photo.

Date: 8-26-92

Time: 0937

Photo Taken By: J. Albano

Photo Number: 08

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to northwest.

Description: View of second entrance gate along southern border of site; on Clark Street.

Date: 8-26-92

Time: 0940

Photo Taken By: J. Albano

Photo Number: 09

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: Allied office and scale house.

Date: 8-26-92

Time: 0945

Photo Taken By: J. Albano

Photo Number: 10

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southwest.

Description: Expanded view of former copper wire incinerator area (left). Note darker soil to right of scrap site.

Date: 8-26-92

Time: 0950

Photo Taken By: J. Albano

Photo Number: 11

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: View of Allied facility.

Date: 4-19-93

Time: 1338

Photo Taken By: J. Albano

Photo Number: 12

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south-southwest.

Description: Expanded view of former incinerator area as estimated by site manager. Note markings in soil.

Date: 4-19-93

Time: 1339

Photo Taken By: J. Albano

Photo Number: 13

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: View of incinerator location and soil sampling location SS02 (red flag) and SS03 (blue flag). Location of suspected presence of dioxin.

Date: 4-19-93

Time: 1340

Photo Taken By: J. Albano

Photo Number: 14

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: Expanded view at sample locations SS02 and SS03.

Date: 4-19-93

Time: 1346

Photo Taken By: J. Albano

Photo Number: 15

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: Close up of soil sample location SS03. Location of suspected presence of dioxin.

Date: 4-19-93

Time: 1415

Photo Taken By: J. Albano

Photo Number: 16

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: Background soil sample location SS01 (red flag).

Date: 4-19-93

Time: 1416

Photo Taken By: J. Albano

Photo Number: 17

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: Closeup of soil sample location SS01.

Date: 4-19-93

Time: 1438

Photo Taken By: J. Albano

Photo Number: 18

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southeast.

Description: View of sediment sample location ST01. ST01 is located directly west of soil samples SS02 and SS03.

Date: 4-19-93

Time: 1450

Photo Taken By: J. Albano

Photo Number: 19

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southeast.

Description: View of sediment sample location ST02 (red flag).

Date: 4-19-93

Time: 1452

Photo Taken By: J. Albano

Photo Number: 20

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southeast.

Description: Close up of sediment sample location ST02. Soil was observed to contain fibrous materials, rocks, gravel and sand.

Date: 4-19-93

Time: 1510

Photo Taken By: J. Albano

Photo Number: 21

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: View of soil sample location SS05 (blue flag).

Date: 4-19-93

Time: 1511

Photo Taken By: J. Albano

Photo Number: 22

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to northeast.

Description: Close up of soil sample location SS05.

Date: 4-19-93

Time: 1523

Photo Taken By: J. Albano

Photo Number: 23

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southwest.

Description: View of soil sample location SS04 (blue flag).

Date: 4-19-93

Time: 1524

Photo Taken By: J. Albano

Photo Number: 24

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southwest.

Description: Close up of soil sample location SS04.

Date: 4-19-93

Time: 1600

Photo Taken By: J. Albano

Photo Number: 25

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: View of sediment sample location ST03 (red flag in front of tank).

Date: 4-19-93

Time: 1601

Photo Taken By: J. Albano

Photo Number: 26

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to north.

Description: Close up of sediment sample location ST03.

Date: 4-19-93

Time: 1610

Photo Taken By: J. Albano

Photo Number: 27

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: View of sediment sample location ST04 (blue flag center, between trees).

Date: 4-19-93

Time: 1611

Photo Taken By: J. Albano

Photo Number: 28

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to south.

Description: Close up of sediment sample location ST04.

Date: 4-19-93

Time: 1635

Photo Taken By: J. Albano

Photo Number: 29

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to southeast.

Description: View of sediment sample location ST05 (red flag).

Date: 4-19-93

Time: 1636

Photo Taken By: J. Albano

Photo Number: 30

Location/ILD #: Allied Iron Steel
ILD 980 259 014

Direction of Photo: View to east.

Description: View of sediment sample location ST05, located east of railroad tracks about 1 mile south of the Allied site.

APPENDIX F

Allied Iron and Steel

Representative Well Logs

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

INSTRUCTIONS TO [illegible]

FILL IN ALL PERTINENT INFORMATION REQUE[illegible]ED 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 PROP[illegible]R 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 X. In Rock____.
   Tubular X. Gravel Packed____.
   d. Grout:

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

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____ No X
4. Date well completed July 25, 1981
5. Permanent Pump Installed? Yes X Date_____ No____
   Manufacturer Red Jacket Type Sub Location_____
   Capacity____gpm. Depth of Setting 95 Ft.
6. Well Top Sealed? Yes X 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 X No____
10. Pressure Tank Size X gal. Type_____
    Location_____
11. Water Sample Submitted? Yes____ No____

REMARKS:

F-1

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owne[redacted] Non-responsive
    Address [redacted]
    Driller Albrecht License No. 102-120
11. Permit No. 100485 Date 7-9-81
12. Water from gravel (Formation) 13. County Peoria
    at depth 102 to 112 ft.
    Sec. [redacted] Twp. [redacted] Rge. [redacted] Elev.____
14. Screen: Diam. 8 in.
    Length: 10 ft. Slot 60

	X		

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
8	Steel	0	102

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
topsoil & clay	15	15
yellow sand & some gravel	45	60
small gravel	10	70
gravel	42	112

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Bryan Zieglen DATE 12/81

From driller's log

Cinders	0-5
Sand & yellow clay	5-20
Gravel	20-30
Sand, dry	30-90
Sand, Little water	90-100
Sand, Little coarser	100-105
Sand, Finer	105-110
Sand, coarser	110-130
Coarse Sand	130-131
Shale at 131	

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

FILL IN ALL PERTINENT INFORMATION REQUESTE 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. 32 in. Depth 34 ft.
   Curb material Concrete Buried Slab: Yes ✓ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ____. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed yes.
   d. Grout:

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

2. Distance to Nearest: New Construction
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed 8-4-69
5. Permanent Pump Installed? Yes ____ No ____
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes yes No ____
7. Pitless Adaptor Installed? Yes ____ No ____
8. Well Disinfected? Yes ____ No ____
9. Water Sample Submitted? Yes ____ No ____

REMARKS: I do not install the Pump. Other questions ask I don't know about. The Pump man installs + finishes up the well.

IDPH 4.065
10/68

F-3

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property [redacted] Non-responsive
    Address
    Driller E. T. HAMPTON License No. 72-185
11. Permit No. DF604-9 Date 4-30-69
12. Water from 18 to 20 (Formation) 13. County Peoria
    at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
    Sec. [redacted] Non-responsive
    Twp.
    Rge.
    Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
24"	Concrete Casing	1	34

SHOW LOCATION IN [redacted] Non-responsive

NW SW

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
Yellow Clay	1'	18'
Water bearing Material	18'	20'
Yellow Clay	20'	34'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Edward T. Hampton DATE 8-9-69

LOG OF WATER WELL

Property owner [redacted] Well No. NF 4791

Drilled by E.T. HAMPTON Year 9-68

Formations passed through	Thickness	Depth of Bottom
Yellow Clay	1'	17'
Water bearing gravel	17'	19'
Yellow Clay	19'	30'

[Continue on back if necessary]

Finished in Bored Well at _____ to 30 ft.

Cased with 24 inch Concrete Casing from 0 to 30 ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name Peoria, Co. Elev. _____

Description of location [redacted]

of described section

Sec. [redacted]

Twp [redacted]

Rge. [redacted]

Signed E.T. Hampton County ~~[illegible]~~ Peoria

Copy for Illinois State Geological Survey Index:

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

INSTRUCTIONS TO F[illegible]

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 X. In Rock ____.
   Tubular X. Gravel Packed ____.
   d. Grout:

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

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 ____ No X
4. Date well completed July 25, 1981
5. Permanent Pump Installed? Yes X Date ____ No ____
   Manufacturer Red Jacket Type Sub Location ____
   Capacity ____ gpm. Depth of Setting 95 Ft.
6. Well Top Sealed? Yes X 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 X No ____
10. Pressure Tank Size X gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No ____

REMARKS:

F-5

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owne[redacted] Non-respon sive No. ____
    Address ____
    Driller Albrecht License No. 102-120
11. Permit No. 100485 Date 7-9-81
12. Water from gravel (Formation) 13. County Peoria
    at depth 102 to 112 ft.
14. Screen: Diam. 8 in.
    Length: 10 ft. Slot 60

Sec. [redacted] Non-respons ive
Twp.
Rge.
Elev. ____

	X		

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
8	Steel	0	102

SHOW LOCATION IN [redacted] Non-respon sive

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
topsoil & clay	15	15
yellow sand & some gravel	45	60
small gravel	10	70
gravel	42	112

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Bryan Ziegler DATE 12/81