

**PHASE I ENVIRONMENTAL
SITE ASSESSMENT**

OF THE

SOUTH BEND AREA A PROPERTIES

LOCATED

**SOUTH OF SAMPLE STREET, EAST OF PRAIRIE AVENUE, NORTH OF
CONRAIL AND WEST OF FRANKLIN
SOUTH BEND, INDIANA 46601**

JANUARY 2001

Prepared For:

**THE CITY OF SOUTH BEND DEPARTMENT OF COMMUNITY
AND ECONOMIC DEVELOPMENT
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1.0 INTRODUCTION

1.1 General

On November 14, 2000, the City of South Bend authorized Hull & Associates, Inc. (HAI) to proceed with a Phase I Environmental Site Assessment of the properties comprising Area A, located south of Sample Street, east of Prairie Avenue, north of Conrail and west of Franklin Street (the Site). The Properties included in Area A are the Underground Pipe & Valve property located at 1100 Prairie Avenue, the Huckins Tool & Die property located at 1010 Prairie Avenue, the South Bend Lathe property located at 400 West Sample Street and the Allied Products Corp. property located at 601 West Broadway Street. This Assessment was conducted as part of a beneficial reuse study for Area A. The 82-acre developed Property (Area A) is unique in the City of South Bend in respect to the size of the Property and the type of buildings developed on the Property and, therefore, selling price for this Property is not comparable to any other facility in the area of the Property¹.

The location of the Site is shown on Figure 1 and photographs of the Site are included in Appendix A. The project was executed under HAI project number SBI002, and was conducted by HAI during the period from November 2000 through December 2000. This assessment was conducted consistent with the American Society of Testing and Materials (ASTM) E 1527-00 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

1.2 Purpose

HAI conducted this assessment to evaluate the presence of recognized environmental conditions associated with the Site². The assessment was based on information gained by qualified HAI personnel from review of public documents, files, photographs, and maps; correspondence with regulatory agencies; review of an environmental regulatory database search report; interviews with Site personnel; and a reconnaissance of the Site.

¹ Mr. Andrew Laurent, City of South Bend Economic Development Specialist, January 19, 2001.

² ASTM defines a "recognized environmental condition" as the presence or likely presence of any hazardous substance or petroleum product on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum product into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.3 Site Description and Legal Reference

The general location of the Site is west of the St. Joseph River and southwest of the intersection of State Route 23 and US Route 33 in the City of South Bend, St. Joseph County, Indiana. The Site is comprised of five parcels (properties) totaling 71.787 acres. The properties are currently developed as industrial facilities. A more detailed description of each property is located in Section 5.0. The Site layout is shown on Figure 2.

The following table shows the current address, parcel number, current owner, acreage and development of each property included in this assessment. This information was obtained from the St. Joseph County Auditor's Office.

**TABLE 1
SITE DESCRIPTION**

PROPERTY ADDRESS	PARCEL NUMBER	MOST RECENT TRANSFER	CURRENT OWNER	ACREAGE	PROPERTY TYPE
1100 Prairie Avenue	18-8021-084902	9/17/1998	1100 Corp.	19.191	Industrial
1010 Prairie Avenue	18-8021-084903	10/13/1975	Huckins, Jay Robert	1.343	Industrial
400 West Sample Street	18-8021-084906	5/30/2000	ARG Corp.	14.846	Industrial
601 West Broadway Street	18-8021-084901 and 18-8021-0849	3/28/84 and 3/02/84	Allied Products Corp.	13.577 and 22.83	Industrial

A copy of the legal description and deed available at the St. Joseph County Auditor's Office for each parcel is included in Appendix B.

2.0 HISTORICAL REVIEW

2.1 Ownership

The history of ownership of the Site was determined by a review of tax assessor cards on file at the St. Joseph County Auditor's Office and the Portage Township Assessor's Office. The current owners of the properties are listed in Table 1. Details of property ownership are shown below in Table 2 and copies of the Assessor cards are included in Appendix B.

2.2 Site Usage

An attempt to determine the historical use of the Site was made by reviewing such records as building permits, zoning information, utility information, aerial photographs and interviews with employees at the Studebaker Archives. A description of the current Site usage is presented in Section 5.1.1.

**TABLE 2
PROPERTY TRANSFERS**

Date of Transfer	Grantor	Grantee
Parcel Number 18-8021-084902; 1100 Prairie Avenue		
Unknown	Unknown	Studebaker
4-17-1964	Studebaker	Cummins Engine Co. Inc.
5-22-1969	Cummins Engine Co. Inc.	Great Lakes Foundry
6-2-1969	Great Lakes Foundry	Segal, Myron M.
6-2-1969	Segal, Myron M.	Lake County Trust Company
7-19-1974	Lake County Trust Company	Prairie Company
7-19-1974	Prairie Company	City of South Bend, Economic Development Commission
9-17-1998	City of South Bend, Economic Development Commission	1100 Corp.
Parcel Number 18-8021-084903; 1010 Prairie Avenue		
8-14-1964	Studebaker	Huckins, Jay Robert
Parcel Number 18-8021-084906; 400 West Sample Street		
2-2-1965	Studebaker	ARG Corp (South Bend Lathe)
Parcel Number 18-8021-084901; 601 West Broadway		
4-3-1964	Studebaker	Allied Products Corp.
Parcel Number 18-8021-0849; 601 West Broadway		
Parcel number not on file.		

2.2.1 Zoning Information and Building Permits

The St. Joseph County Planning Office indicated that the Site is zoned heavy industrial. Properties surrounding Area A are also zoned for heavy industrial, except for the property west of South Bend Lathe, which is zoned light industrial. The closest area shown on the map that is zoned for residential use is approximately 825 ft. south of the Site (upgradient from the Site with respect to groundwater flow). Land use maps for the surrounding area are included in Appendix B.

The City of South Bend Building Department was contacted to obtain permits that may be available for the Site. On December 14, 2000, a representative of the Building Department responded that no files for the listed addresses were available.

2.2.2 Utility Information

Sewer line maps and water line maps were obtained at the City of South Bend on December 11, 2000. The map shows a 42-in. by 54-in. sewer line along the central portion of Prairie Avenue. This line is feed by a 12-in. line that appears to be near the east end of the reservoir on the Underground Pipe & Valve property that flows south to north, a 15-in. sewer line that appears to be located under the Underground Pipe & Valve facility that flows south to north and a 24-in. sewer line that appears to be located on the east portion of the Underground Pipe & Valve property that flows south to north. An 18-in. sewer line located on the east portion of the Huckins Tool & Die property appears to flow to the south to a 24-in. sewer line that is located near the north end of the Underground Pipe & Valve building that flows east to west to the Prairie Avenue sewer. It appears that a water-service line enters the property near the southwest corner of the property. A ten-in. water line is shown on the western portion of Prairie Avenue. A ten-in. and an eight-in. water line enter the Underground Pipe & Valve building near the northwest corner of the building. A potential revised note on the map states that the ten-in. line is not in the building. A water vault is shown at the eight-in. line that enters the Underground Pipe & Valve property near the northwest corner of the building. There is a notation that states the eight-in. line is cut in the vault.

Water lines shown on the map at the South Bend Lathe property are consistent with those shown on Figure 2. One, eighteen-in. sewer line is shown on the west portion of the South Bend Lathe property. The catch basins observed south of the South Bend Lathe building or an associated line were not shown on the map. However, a 26-in. by 33-in. sewer line is shown flowing east to west at the central portion of Sample Street.

Numerous water lines are also shown on the Allied Products Corp. property on the map provided by the City of South Bend. The locations of these water lines are shown on Figure 2. No sewer lines were shown on the Allied Products Corp. property on the map provided by the City of South Bend.

2.2.3 Aerial Photograph Interpretation

Photocopies of aerial photographs were received from the St. Joseph County Agricultural Stabilization and Conservation Service County Office, the Studebaker Archives Office, the St. Joseph County Archives Office, the County of St. Joseph Planning Office and the County of St. Joseph Auditor's Office for the years 1927, 1929, 1947, 1948, 1961, 1962, 1965, 1966, 1971, 1973, 1980, 1986, 1988, 1992, 1993 to determine past land usage of the Site and adjacent properties. Copies of the aerial photographs are included in Appendix D. Descriptions of the photographs are as follows:

<u>Date</u>	<u>Interpretation Description</u>
1927	The foundry building (currently Underground Pipe & Valve) is located on the southwest portion of Area A. The building layout is similar to what was observed during the Site reconnaissance. An undeveloped area is located north of the foundry at the current location of the Huckins Tool & Die facility. The east end of the current South Bend Lathe facility stops at the west end of Allied Products Corp. Building number 78; during the Site reconnaissance, it was observed that this building extends further east to the central portion of Allied Product Corp. Building number 78. The Engineering Building (Building 92) is not located on the 1927 aerial photograph. Two one-story buildings labeled as buildings 50 and 51 are located in the general location of the Engineering Building. A building labeled as 71 on the aerial photograph is shown between Buildings 80 and 86 on the Allied Products Corp. property. The building is labeled as 71 on the aerial photograph. This building was not observed during the Site reconnaissance. A residential area is located east, south and northwest of Area A. Single-family residences are visible between Building 83 (currently on Allied Products Corp. property) and Franklin Street. The area north of the Site is industrial. Based on the quality and angle of the photograph, further details cannot be discerned.
1929	The Engineering Building has been constructed east of the current South Bend Lathe building. Also, the South Bend Lathe building has been extended to the east to its approximate location as observed during the Site reconnaissance. The Huckins Tool & Die building is visible at its current location. Based on the scale, quality and angle of the photograph, further details cannot be discerned.

<u>Date</u>	<u>Interpretation Description</u>
1947	The layout of the buildings appear similar to the 1929 aerial photograph. Air emissions can be seen coming from the former foundry building (Building 85). The remaining features of the 1947 aerial photograph appear similar to the 1929 aerial photograph.
1948	It appears that Building 71, shown on the 1927 aerial photograph, has been demolished and is shown as open space in the 1948 aerial photograph. An aboveground-water tank is visible near Building 83 on the current Allied Products Corp. property. Air emissions can be seen coming from the former foundry building (Building 85). The remaining features of the 1948 aerial photograph appear similar to the 1947 aerial photograph.
1961	The building layout appears similar to the 1948 aerial photograph. Air emissions can be seen coming from the former foundry building (Building 85). The retention basin is visible on the southwest portion of the Underground Pipe & Valve property (the former foundry property). Parking areas are visible to the west of the Engineering Building, at the current American Electrical Power (AEP) property and west of Building 86 on the Allied Products Corp. property. What appear to be tractor-trailers are located southeast of Building 93, southwest of the South Bend Lathe building, at the current AEP property and north of the former foundry building. Numerous piles of debris are visible on the southern portion of Area A. Rail cars are also visible on the southern portion of Area A.
1962	Only the eastern portion of Area A is shown on this aerial photograph. The features of Area A appear similar to the 1961 aerial photograph.
1965	The features of the 1965 aerial photograph appear similar to the 1962 aerial photograph.
1966	Some of the residences on the east end of Area A have been demolished and the area is being used as parking space. The area south of the Engineering Building and north of the residences on the east end of Area A is also being used for parking space. An outside storage area that appears to be occupied by bins lined up side to side is located east of Building 93. A circular area shaded differently from the surrounding area is located north of the outside storage area. This is the general location of numerous gasoline and kerosene tanks that were reportedly removed from the Site. Piles of debris are located west of Building 80. Vehicles are also parked between Building 80 and Building 86. What appear to be bins or crates are stored to the west side of Building 86. Debris are also located on the southern portion of the Allied Products Corp. property, south of Building 86.

<u>Date</u>	<u>Interpretation Description</u>
1966 (cont.)	<p>Vehicles are parked north of the current Underground Pipe & Valve (Building 85) facility. A small building is shown near the northeast corner of Building 85 on the aerial photograph. This building is labeled as the foundry equipment storage building on the Site Plan located in Figure 2. A large area of debris is shown northeast of Building 85. There is no sign of dumping activity in the retention basin located southwest of Building 85. Air emissions are visible coming from Building 85.</p> <p>Vehicles are parked on the south and east sides of the current Huckins Tool & Die facility (Building 96). An area of disturbed soil is visible near the northwest corner of the building.</p> <p>Vehicles are parked on the east side of the South Bend Lathe facility (Building 72). Debris are located south of the western half of the building. A darker shaded area is visible on the south side of the building near the location of the tunnel access.</p>
1971	<p>The number of residences on the east end of Area A is the same as the 1966 aerial photograph. Most of the bins or crates located between Buildings 93 and 80 have been relocated approximately 100 ft. to the north. Additional crates are also located along the exterior west wall of building 79. More bins or crates are also located between Buildings 86 and 80 than in the 1966 aerial photograph. Debris on the south portion of the Allied Products Corp. property appear similar to the previous aerial photograph.</p> <p>Very few vehicles are parked on the current Underground Pipe & Valve property (Building 85) as compared to the 1966 aerial photograph. No air emissions are visible coming from the building. A building is being constructed south of Building 85 on the south side of Cotter Street. No sign of dumping activity is visible at the retention pond located west of Building 85.</p> <p>The Huckins Tool & Die property appears similar to the 1966 aerial photograph.</p> <p>The South Bend Lathe building (Building 72) and exterior portions of the property appears similar to the 1966 aerial photograph.</p>
1973	<p>Features of the Allied Products Corp. property appear similar to the 1971 aerial photograph.</p> <p>Very few vehicles are parked at the Underground Pipe & Valve building (Building 85) and no air emissions are visible from the building. The building south of Building 85, on the south side of Cotter Street, appears to have been completed. Remaining features of the Underground Pipe & Valve property appear similar to the 1971 aerial photograph.</p>

<u>Date</u>	<u>Interpretation Description</u>
1973 (cont.)	<p>The Huckins Tool & Die property appears similar to the 1971 aerial photograph.</p> <p>Debris around the South Bend Lathe building remain as described in previous photographs. Features of the South Bend Lathe property appear similar to the previous aerial photograph.</p>
1980	<p>It appears that the remaining residences east of Building 83 on the Allied Products Corp. property have been demolished. Debris are still visible scattered throughout the Allied Products Corp. property indicating poor general housekeeping practices. The remaining features of the Allied Products Corp. property are similar to the previous aerial photograph.</p> <p>The storage building located north of Building 85 has been demolished. The remaining features of the Underground Pipe & Valve property appear similar to the 1973 aerial photograph.</p> <p>The eastern addition to the Huckins Tool & Die building has been constructed. The remaining features of the property appear similar to the 1973 aerial photograph.</p> <p>A storage building has been constructed south of Building 72 on the South Bend Lathe property. Also, it appears that the roof of the eastern portion of building has been reworked because it is a different color than in previous photographs.</p>
1986	<p>Vehicles are parked in the area between Building 83 and Franklin Street. Numerous bins and debris are located between Building 79 and Building 93 on the Allied Products Corp. property. Numerous bins are also located west of Building 80 and east of Building 86. Bins and debris are also located on the southern portion of the Allied Products Corp. property as described in previous aerial photographs. Bins also remain staged west of Building 86. Electrical equipment is visible on the property west of building 78 now occupied by AEP.</p> <p>Various stockpiled pipes are visible on the gravel-covered area north of the Underground Pipe & Valve building. The reservoir area located west of Building 85 is now a densely vegetated area. More vehicles are parked north of Building 85 than in the 1980 aerial photograph.</p> <p>Vehicles are parked on either side of the eastern building addition to the Huckins Tool & Die building. Additional vehicles are parked to the east of the building. A lean-to has been constructed on the north side of the current facility, east of the previous addition to that side of the building.</p>

<u>Date</u>	<u>Interpretation Description</u>
1986 (cont.)	Numerous bins and debris are visible on the south side of the South Bend Lathe Building (Building 72) near a 20 ft. by 20 ft. addition that has been constructed since the previous aerial photograph. Surficial staining is also visible on this area of the property.
1988	The features of the 1988 aerial photograph appear similar to the 1986 aerial photograph.
1992	No vehicles are parked on the area between Building 83 and Franklin Street. The remaining features of the Area A Site appears similar to the previous aerial photograph.
1993	The Allied Products Corp. property appears similar to the 1992 aerial photograph. Debris are concentrated north of the eastern portion of Building 85 near the former location of the foundry equipment storage building. Piles of pipe are visible on the gravel-covered area north of Building 85. The features of the Huckins Tool & Die property appear similar to the 1992 aerial photograph. The features of the South Bend Lathe property appear similar to the 1992 aerial photograph.

2.2.4 Sanborn Fire Insurance Maps

A Sanborn fire insurance map search was conducted by *Environmental Data Resources, Inc. (EDR)*. Fire insurance maps were available for the Site from the years 1891, 1893, 1899, 1917, 1949, and 1980. Copies of the maps are included in Appendix E. Descriptions of each map are as follows:

<u>Date</u>	<u>Interpretation Description</u>
1891	The 1891 Sanborn map indicates that Area A was occupied by Studebaker Brothers Manufacturing Company Lumber Yard. A set of rails is visible on the east portion of the Site. Because of the poor quality of the map, further details can not be discerned.
1893	The 1893 Sanborn Map indicates the Site remains developed by the Studebaker Brothers Manufacturing Company Lumber Yard. Numerous lumber sheds are outlined on the Site. The map also states that a vacant field is located immediately east of Prairie Avenue and west of the lumberyard. The rail on the east portion of the Site remains visible. A high picket fence surrounding the lumberyard is indicated on the map.

<u>Date</u>	<u>Interpretation Description</u>
1899	The 1899 Sanborn Map indicates the Studebaker Brothers Manufacturing Company Lumber Yard is still located on the Area A properties. Additional rails are now noted on the southern portion of the Site that appears similar to what was observed during the Site reconnaissance. The lumber sheds are still indicated on this map.
1917	The 1917 Sanborn Map indicates the Site is still developed as a lumberyard owned by the Studebaker Corporation. As in previous Sanborn Maps, numerous lumber sheds and rails are located on the Site. A proposed tunnel is also shown on the 1917 Map from a proposed forge and heat treating shop, north to Sample Street. The proposed heat treating shop appears to be located in the current general location of Building 80 on the Allied Products Corp. property. Two connected buildings labeled as a paint shop and a cold ironing department are located in the current general location of the Engineering Building. A building labeled as proposed carbonizing building is located in the current general location of Building 86. Wagon sheds are also labeled throughout the Site and the residential area immediately west of Franklin Street has been developed. Based on a combination of lumber storage sheds and buildings that indicate steel working, it is possible that the Site is in a transition phase from a lumberyard to a vehicle manufacturing facility during this time frame.
1949	The 1949 Sanborn Map indicates that the west side of Franklin Street, adjacent to Studebaker operations, is developed with single-family residences. The map also shows that the Site is no longer used as a lumberyard but has been converted to a vehicle manufacturing plant. Building 83 is labeled as the shipping building, Building 82 is labeled as the car storage building, Building 79 is labeled as the final assembly building and Building 80 is labeled as the sheet metal department with a press room and a battery charging area at the north end of the building. Building 81 is shown on the map east of the southern portion of Building 80. The description of this building is not readable. Building 93 is labeled as a stamping building, Building 86 is labeled as the spring and heat treating building and Building 78 is labeled as the parts assembly building.
	The current Underground Pipe & Valve property (Building 85) is labeled as the foundry. The west end of the building is labeled as the machine shop and a cleaning room is labeled east of the machine shop. The main part of the building is located east of the cleaning room. Square rooms are shown at the east wall of the main room in the general area of the lifts observed during the Site reconnaissance. The labeling on the rooms is not readable. The material building is shown east of the main room in the current location of the high bay area observed during the Site reconnaissance. Some notations are made in this area of the building; however, they are not readable. A building is located north of the eastern portion of the building and is labeled as the inspection building. This is the same building as the one labeled as foundry equipment storage on Figure 2. Some notations that are not readable are shown on the map at the east end of the building.

Date**Interpretation Description**

1949 (cont.)

The current Huckins Tool & Die property is labeled as Building 96, the drive away building. No notations are made for the exterior of the building.

The current South Bend Lathe building is labeled as Building 72, the machine shop and Building 94, the oil storage building. Building 94 is located on the west end of the machine shop and appears to be located in an area where the South Bend Lathe building has expanded and currently houses the Johnson Press Division. Some notations are made in the oil storage building that are not readable. A torching room is labeled at the north end of the building. Other notations are made referring to the structure of the building. Notations that are not readable are made on the southeast portion of the South Bend Lathe property in areas where USTs have been removed.

1980

Three single-family residences are shown on the west side of Franklin Street, adjacent to Allied Products Corp. property. Building 83 is labeled as the shipping building and Building 82 is still labeled as the car storage building. Lacquers and spray booths are noted near the south end of Building 82. Building 79 is labeled as a warehouse and structural notations are shown in this building. Building 80 is labeled as Allied Stamping and a note indicating a pressroom is shown in this building. Building 93 is labeled as the stamping building and structural notations are shown in this building. Building 86 is labeled as the large press room. Building 81 is still shown east of the southern portion of Building 80 and appears to be labeled as the scrap paper building.

The current Underground Pipe & Valve property (Building 85) is labeled as Michiana Warehouse Inc. The western end of the building is labeled as the tumbling and annealing room. A cleaning room is labeled east of the tumbling and annealing room. The main part of the building is located east of the cleaning room and square rooms are located at the east end of the main room similar to the previous Sanborn Map. The east room of the building is still labeled as the materials building. A building located north of the eastern portion of the main building is still labeled as the inspection building. Notations similar to the previous Sanborn Map are shown on this map and they remain unreadable.

The current Huckins Tool & Die property is labeled as the machine shop. The northern addition to the building has been added to the map. No notations are made for the exterior of the building.

Additions have been made to the east end of the South Bend Lathe building, including one building noted as the salvage building. The property is labeled as C.J Wood Inc. Owners and the main building is labeled as machine shop. A room located at the east end of the building is labeled as the industrial relations room. Structural notations are made throughout the building. A filling station and a transformer house are labeled on the southeast portion of the South Bend Lathe property, south of the Engineering Building.

2.2.5 Historical Topographic Maps

A search for historical topographic maps was conducted by *EDR*. HAI received topographic maps for the years 1958, 1969, 1980 and 1986 from *EDR* for review. A copy of each topographic map is included in Appendix F. A discussion of each topographic map follows:

<u>Date</u>	<u>Interpretation Description</u>
1958	The 1958 topographic map shows the area to be developed; however, the map does not show the individual buildings located on the Site. A rail yard is shown south of the Site. A 730-ft. elevation contour line is shown on the southern portion of the Site. No changes in contours are indicated on the southeast portion of Area A in the area of the retention basin.
1969	The 1969 topographic map shows the outline of Building 83, 82, 79 and 80; the outline of Building 86 and 93; the outline of Building 85; the outline of Building 78; the outline of Building 96 and the outline of Building 72. The Engineering Building is also shown on the topographic map. The 730-ft. elevation contour line is still shown on the southern portion of the Site. No contour lines are shown on the southwest portion of Area A in the location of the retention basin.
1980	Features of the 1980 topographic map are similar to features described in the 1969 topographic map.
1986	The storage building located on the southwest portion of the South Bend Lathe property is shown on the 1986 topographic map. Two additional buildings are shown south of the Underground Pipe & Valve property, south of Cotter Street. The remaining features of the 1986 topographic map are similar to the features described in the 1969 topographic map.

3.0 PHYSICAL SETTING

3.1 General

Several sources were obtained to acquire information on the geologic, hydrologic, hydrogeologic, and topographic characteristics of the Site and surrounding area. A listing of the resources referenced below is provided in Section 8.0.

3.2 Water Well Log Information

A State of Indiana-sponsored Website (http://www.ai.org/serv/idem_dwb_inventory) lists known public water wells by zip code. The zip code of the Site was reviewed and no wells were listed within one-mile of the Site. A report, titled "*Site Investigation Report Indiana Voluntary Remediation Program*," prepared by Advanced Pollution Technologies (APT), was reviewed for this Assessment. The report identifies the Olive Well Field approximately 1.5-miles west of the Site, the Rum Village Well Field approximately 1-mile south of the Site, the South Well Field approximately 1.75-miles south of the Site, and the North Well Field approximately 1.4-miles north of the Site. The report also states that there are no private water wells near the Property and the nearest municipal water supply wells are located upgradient of the Site. The Indiana Department of Natural Resources (IDNR) Website (<http://www.state.in.us/dnr/water/wellwater/searchfield.html>) was visited for information on private wells located in the area of the Site on December 15, 2000. The Website includes a database list of private wells that can be located by township, range and section. Private water wells that were viewed on the Website and confirmed to be located within one-half-mile of the Site are described below. Additional wells may be located within one-half-mile of the Site that could not be located due to incomplete address information or wells may not have been reported.

Nine private wells were located within approximately 1/2-mile of the Site. Two wells are listed as being owned by the Studebaker Corporation. The exact location of the one of the two wells is not provided. The well log indicates that the first well was installed in October of 1948. The use of the well is listed as industrial and the depth of the well is listed at 81 ft., with a screen length of 14 ft. The static water level is listed at 38 ft. and the well was listed as producing 250 gallon-per-minute (gpm). No soil classification is included on the well record; however, there is a comment that states the well was installed in a ten-ft. pit. The second Studebaker well, located 65-ft. north of Sample Street and 960- ft. west of Franklin Street, was installed in January of 1910. The depth of the well is

listed at 101 ft. with a 15-ft. screen. Static water level is listed at 32 ft. and the production rate is listed at 400 gpm. The depth to bedrock is listed at 94 ft. No soil classification is included on the well record.

Four wells are listed as being owned by the Oliver Corporation, located approximately 2,700-ft. west of the Site. The first well was installed in October of 1941 to a depth of 72 ft. Static water level was recorded at 18 ft. and the depth to bedrock is listed at 148 ft. No soil classification is included on the well record. The second well was installed in March of 1945 to a depth of 101 ft. Static water level was recorded at 30 ft. and a production rate of 1,000 gpm was recorded for the well. It is noted on the well record that gravel was encountered from grade to 47 ft. below the ground surface (bgs) followed by 21 ft. of sand and gravel. Sand was encountered from 68 ft. to 72 ft. bgs followed by 1 ft. of clay and stones. Clay was encountered from 73 to 88 ft. bgs followed by three ft. of sand. Hardpan was encountered from 91 to 94 ft. bgs followed by 7 ft. of lower Mississippi blue shale. The third well was installed in October of 1941 at a depth of 86.2 ft. The screen length is listed at 18 ft. A note is included on the well record that this is a well repair. No date of installation is indicated on the fourth well. The depth of this well is listed at 1,676 ft. The depth to bedrock is listed at 137 ft. Sand was encountered from 0 to 25 ft. followed by 20 ft. of gravel. Clay was encountered from 45 to 75 ft. followed by 25 ft. of sand. Gravel was encountered from 100 to 137 ft. Blue shale was encountered from 137 to 280 ft. Shale with gas was encountered from 280 to 350 ft. Limestone was encountered from 350 to 540 ft. Dolomite was encountered from 540 to 670 ft. Dolomite/limestone was encountered from 670 to 1,300 ft. Shale was encountered from 1,300 to 1,585 ft. Dolomitic limestone was encountered from 1,585 ft. to 1,676 ft.

Two wells are located on property owned by the City of South Bend. The first well, located on Prairie Avenue approximately 200 ft. south of Garst, was installed in January 1921. This well is likely adjacent to the west of the Underground Pipe & Valve property. The depth of the well is listed at 100 ft., with a static water level at 19 ft. The depth to bedrock is listed at 100 ft. Sand and gravel was encountered from 0 to 70 ft. followed by 19 ft. of clay. Fine sand was encountered from 89 ft. to 100 ft. where shale bedrock was encountered. The second well, located on Bronson Street between Main Street and Lafayette Street, was installed in March of 1927. The depth of the well is listed at 100 ft. with a static water level of 46 ft. The depth to bedrock is listed at 98 ft. Sand and gravel was encountered from 0 to 59 ft. followed by thirty ft. of blue clay. Sand and gravel was again encountered from 89 to 98 ft. followed by two ft. of lower Mississippi River shale.

One well was located on the Gates Chevy World property located approximately 2,600 ft. north-northeast of the Site. The depth of the well is listed at 38.5 ft. with a static water level of 25 ft. The well was installed in January of 1989. Light brown medium sand was encountered from 0 to 12 ft. Brown, fine, moist sand was encountered from 12 to 30 ft. Wet, medium to coarse sand and fine gravel was encountered from 30 to 42.5 ft.

A copy of available water well logs is located in Appendix G.

3.3 Oil and Gas Well Log Information

The IDNR was contacted on December 15, 2000 in request of information pertaining to oil and gas wells located within a one-half-mile radius of the Site. At the time this report was written, a response had not been received from IDNR. If a response is received that indicates a potential environmental impact to the Site, an addendum will be prepared. Other private and public oil and/or gas wells may be present within the search radius but may not have been identified due to inaccurate well descriptions or unreported oil and/or gas wells. A copy of available oil and gas well logs is available in Appendix G.

3.4 Flood Insurance Rate Map

A copy of the Flood Insurance Rate Maps (FIRM), including the Site and map number 1800231 0004, dated February 17, 1988, was obtained from the St. Joseph County Soil and Water Conservation Service. The map identifies areas that would be affected by a 100-year and 500-year flood. One hundred and 500-year floods are floods of such magnitude that the probability of such an event occurring is once every 100 or 500 years, respectively. The map identifies the Site as being in Zone C, defined as an area of minimal flooding outside a 100-year floodplain. A copy of this map is included in Appendix G.

3.5 Federal Wetlands Map

A copy of the National Wetlands Inventory Map for the Site was reviewed for this Assessment. The map identifies areas that are recognized by the State of Indiana as wetlands. Activities that are conducted in areas that are designated as wetlands may be restricted by the federal, state, or local agencies. This information is provided for informative purposes regarding the potential for wetlands

to exist at the Site. An official wetland delineation would be required to accurately identify the presence and extent of any wetlands. Wetland areas were not indicated on the Site or on adjoining properties on the Wetlands Inventory Map. A copy of the map is included in Appendix H.

3.6 Regional Geology and Hydrogeology

The Site is located inside the limits of the City of South Bend, in St. Joseph County, Indiana and is along the southern rim of the Michigan Basin and northeast of the Kankakee Arch, which separates the Illinois Basin from the Michigan Basin (Geologic Map of Indiana, Indiana Geological Survey). The average ground surface elevation in the area of the Site is approximately 730 ft. (USGS). The regional topography is relatively flat and slopes gently to the northeast toward the St. Joseph River.

A copy of the St. Joseph County soil survey, prepared by the US Department of Agricultural was reviewed for this Assessment. The soils map indicates that Oshtemo sandy loam and Tyner loamy sand is the predominate soil type on Area A. The Tyner Series is located on the northern ten-percent of the Site and the remainder of the Site is comprised of the Oshtemo Series. The Oshtemo Series consists of well-drained soils with moderately rapid permeability. A representative profile includes a surface layer of sandy loam approximately 16- in. thick followed by approximately 38-in. of firm, gravelly, sandy, clay loam. The underlying material is approximately 60-in. of sand and gravelly sand.

The Tyner Series consists of well-drained soils with rapid permeability. A representative profile includes a surface layer of loamy sand approximately 44-in. thick followed by an approximately 26-in. layer of sand. A copy of the soils description and soils map are included in Appendix I.

According to the IDNR, Division of Water; Water Resource Availability in the St. Joseph River Basin, Indiana; 1987, the Site is located in the St. Joseph Aquifer System. The System is composed of fine to medium sand with localized layers of coarse sand and gravel. Groundwater is typically encountered between 15-20 ft. below the ground surface and the regional groundwater flow is to the northeast toward the St. Joseph River.

4.0 ENVIRONMENTAL RECORDS REVIEW

4.1 Federal and State Environmental Records

An environmental database report generated by *Environmental Data Resources, Inc. (EDR)* was used to access environmental records for this report. The proximity of various listed facilities was reviewed to determine the potential affect, if any, that these facilities may have on the Site. The databases that were searched included those specified by the American Society for Testing and Materials (ASTM) Standard Practice E1527-00, as well as several additional federal and state databases.

EDR contacts government agencies to receive updated records on a monthly or quarterly basis, depending on the database. Consequently, additional listed facilities may exist within the specified search radii that *EDR* has not identified. HAI has contacted specific agencies recognized by ASTM E1527-00 directly and compared the agency listings with the *EDR* report. These records are obtained as a quality check procedure and depending upon the response time of the agency, may or may not have been received by HAI when this report was written. A copy of the report by *EDR* is located in Appendix J. Because of the size of the Site, the *EDR* search distances were increased by 1/2 of a mile beyond the ASTM requirements, and facility locations were confirmed at distances from the Site boundary.

In addition to the facilities identified in the *EDR* report, *EDR* provides a list of unmapped facilities. These are facilities which are listed in one or more databases, but do not have enough address information to be located by *EDR*. There were sixteen unmapped facilities in the *EDR* report; however, none of these facilities were observed near the Site.

4.1.1 United States Environmental Protection Agency

The *EDR* report identified the South Bend Lathe property on the Resource Conservation and Recovery Act (RCRIS) database as a small quantity generator and on the registered underground storage tank (UST) database. None of the other properties included in the Area A Assessment were listed in the databases identified by *EDR*; however, the Engineering Building (Studebaker Building 92) was listed on the RCRIS database as a large quantity generator. The following federally maintained databases include facilities located by *EDR* to be within the specified search radius.

Delisted National Priorities List (NPL)

The Whiteford Sales and Service facility is listed in the delisted NPL database. This database includes facilities that the US EPA has deleted from the NPL in accordance with 40 CFR 300.425(e). The search distance for this database is one-mile and, after further review, it was found that the facility is located at a distance greater than one-mile from the Site.

Comprehensive Environmental Response, Compensation, and Liability Information System No Further Remedial Action Planned (CERCLIS-NFRAP)

The Avanti facility, located approximately 500 ft. north of the Site, is listed on the CERCLIS-NFRAP database. This facility is located downgradient of the Site with respect to groundwater flow. Based on the distance of the facility from the Site and the downgradient location of the facility from the Site, this facility is not a recognized environmental condition (REC).

The Industrial Fuels and Resources facility, located approximately 1,000 ft. north of the Site, is listed on the CERCLIS-NFRAP database. Based on the distance of the facility from the Site and the downgradient location of the facility from the Site, this facility is not a REC.

The Kokoku Wire Industries Corporation facility, located approximately 2,400 ft. west of the Site, is listed on the CERCLIS-NFRAP database. The facility is located topographically downgradient from the Site. Based on the fact that the facility is downgradient from the Site and the distance of the facility from the Site, this facility is not a REC.

RCRA Corrective Action Activity (CORRACTS)

The Industrial Fuels and Resources facility, located approximately 1,000 ft. north of the Site, is listed on the CORRACTS database with a medium prioritization. It is also stated in the report that a RCRA Facility Assessment has been completed. Based on reasons stated for this facility previously, this facility is not a REC.

The Ashland Distribution Company, located approximately 4,000 ft. southwest of the Site, is listed on the CORRACTS database with a high prioritization. It is also stated in the report that the following activities have been completed: a RCRA Facility Assessment; the Determination of Need for a RCRA Facility Investigation; RFI Imposition; RFI Workplan approval; and RCRA Facility Investigation approval. Based on the distance of the facility from the Site, this facility is not a REC.

Resource Conservation and Recovery Treatment, Storage or Disposal (RCRIS-TSD) Facilities

The Industrial Fuels and Resources facility, located approximately 1,000 ft. north of the Site is listed in the RCRIS-TSD database. This database lists facilities that generate, store, treat, or dispose of hazardous waste. Based on reasons stated for this facility previously, this facility is not a REC.

Resource Conservation and Recovery Large Quantity Generator (RCRA-LQG)

This database lists facilities that generate more than 1,000 kg of hazardous waste a month. The Studebaker Building 92 (Engineering Building) is listed in the RCRIS-LQG database. This facility is located adjacent to the east and to the north of the Site. The database report does not indicate what type of waste is generated at the facility; however, the report does state that the facility is a large quantity generator and a hazardous waste transporter with no violations found. Information on this facility was requested from IDEM. IDEM provided a copy of an IDEM Hazardous Waste Inspection Report on January 9, 2001. The report is dated August 29, 2000 and indicates that there are no unresolved enforcement actions at the facility and that the facility was a one-time generator of hazardous waste. The report states that, during a property transaction, wastes, including PCB-contaminated transformers and switching gears, asbestos containing material, an underground fuel-oil tank, and other miscellaneous hazardous and special wastes, were removed from the property. The report also states that the inspector recommends the EPA Identification number for this site be deactivated.

The GNB, Inc. facility, located approximately 500 ft. north of the Site, is listed in the RCRIS-LQG database. The report does not indicate what type of waste is generated at the facility. Based on the downgradient location of the facility from the Site and the fact that a facility being listed on the RCRIS-LQG database does not necessarily indicate a release to the environment, this facility is not a REC.

The St. Joseph County Household Hazardous Waste Collection Program facility, located approximately 600 ft. west of the Site, is listed in the RCRIS-LQG database. The report does not indicate what type of waste is generated at the facility, however; it does indicate that no violations were on file for the facility.

The Ridge Co., Inc. facility, located approximately 1,300 ft. southeast of the Site, is listed in the RCRIS-LQG database. The report does not indicate what type of waste is generated at the facility,

however; it does indicate that one, low priority violation was on file for the facility.

The Industrial Fuels and Resources facility, located approximately 1,000 ft. north of the Site, is listed in the RCRIS-LQG database. The database report indicates that ignitable, corrosive and reactive wastes are generated at the facility. It also indicates that wastes containing hazardous concentrations of arsenic, barium, cadmium, lead, mercury, silver, methoxychlor, benzene, cresol, methyl ethyl ketone, pentachloroethylene, tetrachloroethylene, trichloroethylene, spent halogenated and non-halogenated solvents, liquid wastes containing chlorophenolic formulations, 1,3-diisocyanatomethyl-(R,T), and toluene diisocyanate (R,T) are generated at the facility. Numerous RCRA generator violations are also on file for this facility.

The Imagineering Enterprises, Inc. facility, located approximately 2,200 ft. west of the Site, is listed in the RCRIS-LQG database. The database report indicates that ignitable and corrosive wastes and wastewater treatment sludge are generated at the facility. The report also indicates that wastes containing hazardous concentrations of chromium, spent halogenated and non-halogenated solvents are generated at the facility. Four RCRA generator violations, all with a corresponding date of compliance, were on file for the facility.

The Kokoku facility, located approximately 2,400 ft. west of the Site, is listed in the RCRIS-LQG database. The database report indicates that spent pickle liquor and corrosive waste is generated at the facility. The report also indicates that wastes containing hazardous concentrations of chromium and lead are generated at the facility. Seven RCRA generator violations, all with a corresponding date of compliance, were on file for the facility.

The Don's Gas and Car Wash facility, located approximately 2,500 ft. southeast of the Site, is listed in the RCRIS-LQG database. The report does not indicate what type of waste is generated at the facility, however; it does indicate that no violations were on file for the facility.

A facility being listed on the RCRIS-LGQ database does not necessarily indicate a release to the environment.

Resource Conservation and Recovery Small Quantity Generator (RCRIS-SQG)

The database lists facilities that generate hazardous waste. The Weltek International, Inc. facility, located adjacent to the south of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility, however; it does indicate that no violations were on file for the facility.

The South Bend Lathe property, located at the north end of the Area A properties, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Ideal Consolidated facility, located approximately 150 ft. west of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Raitt Corp. facility, located approximately 250 ft. west of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Ziolkowski Construction facility, located approximately 500 ft. east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Universal Painting Company, Inc. facility, located approximately 300 ft. east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Indiana Bell facility, located adjacent to the east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The South Bend Toy, Inc. facility, located approximately 600 ft. west of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The INDOT facility, located approximately 1,100 ft. east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Indiana Auto Parts facility, located approximately 800 ft. southeast of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility. One RCRA Generator violation with a corresponding date of compliance is listed for the facility.

The Hill Truck Sales facility, located approximately 600 ft. west of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Sunoco Service Station, located approximately 1,200 ft. southeast of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Bartholomews, Inc. facility, located approximately 1,300 ft. east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The N A B Building Company, located approximately 1,400 ft. northeast of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The ABN Motor Corp. facility, located approximately 1,400 ft. northeast of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Michiana Transmission facility, located approximately 1,600 ft. east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Chemsolv, Inc. (Industrial Fuels and Resources) facility, located approximately 1,000 ft. north of

the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Enyart Electrical MTR Service facility, located approximately 1,600 ft. east of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The Consolidated Rail facility, located approximately 1,800 ft. north of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

The United Car Parts facility, located approximately 1,800 ft. north of the Site, is listed on the RCRIS-SQG database. The report does not indicate what type of waste is generated at the facility; however, it does indicate that no violations were on file for the facility.

A facility being listed on the RCRIS-SGQ database does not necessarily indicate a release to the environment.

Emergency Response Notification System (ERNS) Facilities

Facilities listed on this database have reported a release(s) of oil and/or hazardous substances. The Chemsolv, Inc. (Industrial Fuels and Resources) facility, located approximately 1,000 ft. north of the Site, is listed on the ERNS database. Specific information of the release was not included in the report. Based on the distance of the facility from the Site and the fact that the Site is located upgradient from the facility, the Chemsolv, Inc. (Industrial Fuels and Resources) facility is not considered a REC.

A facility located at 104 East Broadway, located approximately 1,400 ft. east of the Site, is listed on the ERNS database. Specific information of the release was not included in the report. Based on the distance of the facility from the Site and the fact that the Site is located upgradient from the facility, the facility located at 104 East Broadway is not considered a REC.

Hazardous Materials Incident Report System (HMIRS) Facilities

Facilities listed on this database have reported a spill incident(s) to the Department of Transportation. The ABF Freight System of South Bend facility, located approximately 250 ft. west of the Site, is listed in the HMIRS database. Specific information of the release was not included in the report.

A facility located at 607 South Scott Street, located approximately 1,000 ft. north of the facility, is listed in the HMIRS database. Specific information of the release was not included in the report. Based on the distance of the facility from the Site and the fact that the Site is located upgradient of the facility, the facility located at 607 South Scott Street is not considered a REC.

The Industrial Fuels and Resources facility, located approximately 1,000 ft. north of the Site, is listed on the HMIRS database with two incidents. Specific information of the releases was not included in the report. Based on the distance of the facility from the Site and the fact that the Site is located upgradient of the facility, the Industrial Fuels and Resources facility is not considered a REC.

Toxic Release Inventory System (TRIS) Facilities

No TRIS facilities were listed in the *EDR* database search. HAI also reviewed records filed under the Toxic Release Chemical Inventory release reporting requirements under the Superfund Reauthorization Act (TRI)³. Three TRI facilities were listed on the Right to Know Website that were not listed in the *EDR* database report within the specified search distance. The Ashland Distribution facility, the Kokoku Wire facility and the Imagineering facility were listed as TRIS facilities on this Website. Based on the distance of these facilities from the Site, these facilities are not considered RECs. A request for air emissions information from the properties located in Area A was requested from the Indiana Department of Environmental Management (IDEM). IDEM responded with information copied from files located at the IDEM Office of Air Management. The information received indicates that nitrous oxides, particulates, sulfur dioxide, and volatile organic compounds (VOCs) are emitted from boilers located at the Allied Products Corp. property. Information in the file also indicates that two mmBtu/hr Kewanee Boilers were located in Building 86 and four 3.0 mmBtu/hr Kewanee Boilers were located in Building 78. The boilers were purchased in 1965 had not used fuel oil as a fuel source since 1989. Apparently, the facility had not obtained necessary emissions permits for the boilers. A letter from the IDEM Office of Enforcement was also included

³ Right to Know Network, Facility Report ID, <http://www.rtk.net>.

in the file. The letter, dated March 1999, stated that South Bend Stamping (Allied Products Corp.) failed to report an emission statement for 1996 within the required timeframe. Another letter, dated December 15, 1999 and addressed to IDEM, states that South Bend Stamping (Allied Products Corp.) filed for bankruptcy on March 21, 1999 and ceased operations on June 30, 1999. A copy of this information is located in Appendix K.

4.1.2 Indiana Department of Environmental Management (IDEM)

HAI reviewed the *EDR* database report and contacted IDEM directly to obtain information regarding spills, unauthorized discharges, or any other environmental problems involving toxic or hazardous substances at the Site. The *EDR* database identified the South Bend Lathe property in the registered UST database. None of the other facilities located in comprising Area A were identified in the *EDR* database search. Ms. Patricia McArtor, Administrative Assistant with IDEM, Office of Land Quality Remediation Services Branch, responded by mail on December 6, 2000 that files are available for the Allied Products Corp. facility (VRP6950501). A request was made to have a copy of these files made and forwarded to HAI for review. The report was received on January 18, 2001 and is discussed in Section 4.3. A response was also received from Mr. Thomas Linson, Chief of the Office of Land Quality Permits Branch, on December 4, 2000 stating that files are available for the South Bend Lathe and South Bend Stamping facilities. A request for copies of the files was forwarded to IDEM. Copies were received from IDEM on December 20, 2000. Information pertaining to the South Bend Lathe property, the Huckins Tool & Die property and the Allied Products Corp. property were included in the provided information.

The following items were provided by the IDEM pertaining to the South Bend Lathe property:

1. a Notification of Hazardous Waste Activity form for 1986 indicating that the facility is listed as a small quantity generator of D001 (ignitable), F005 (spent non-halogenated solvents), and F011 (cyanide salts) waste;
2. a Notification of Regulated Waste Activity form for 1992 indicating that the facility is listed as a small quantity generator of D001, F003 (spent non-halogenated solvents), and F005 waste;
3. a 1991 Hazardous Waste Handler Information Update form indicating that the facility is listed as a small quantity generator; and,
4. a 1999 Notification of Regulated Waste Activity form indicating the facility is listed as a small quantity generator of D001 waste.

The following items were provided by the IDEM pertaining to the Huckins Tool & Die property:

1. an IDEM Office of Solid and Hazardous Waste Complaint Report dated February 1996 indicating that cutting fluids were pumped to storm drains in the back of the building, barrels of waste oil were leaking, a coolant tank holding grinding fluid in a shed attached to the building is cleaned once a year by unknown individuals and all other wastes are stored or dumped on the property;
2. a Complaint Investigation Report on the above-mentioned complaint indicating that: the facility uses nonhazardous, biodegradable oils; shop rags are collected weekly by a contractor; hydraulic oils are collected by a contractor; and waste cutting oil and machine grindings are collected by a contractor. An oil stained area was observed at the north of the building from an air compressor; and,
3. a MSDS for coolant fluid used at the property indicating the fluid contains triethanolamine.

The following items were provided by the IDEM pertaining to the Allied Products Corp. property:

1. a Complaint and Notice of Opportunity for Hearing concerning violations of the Toxic Substances Control Act (TSCA) discovered by the US EPA indicating a violation of recordkeeping and use required for polychlorinated biphenyls (PCBs) dated 1983, including: the failure to develop and maintain annual PCB documents on the disposition of PCBs and PCB items; the failure to document quarterly inspections of the PCB containing transformer and capacitors; and the failure to test for PCB content in hydraulic fluid located at the property;
2. an Installation Identification Form, dated 1989, indicating that the property is a large quantity generator of F003, F005, F002 (spent halogenated solvents), D002 (corrosive), D007 (chromium), D008 (lead), and D001 waste;
3. a Compliance Evaluation Inspection, dated 1992, indicating the following violations of the Indiana Administrative Code and the Federal Land Disposal Restrictions:
 - hazardous waste determinations have not been made for all solid wastes generated by the facility;
 - all drums contents were not identified on the drum with the accumulation start date;
 - the facility did not retain copies of waste manifests for the three years previous to the inspection;
 - training deficiencies of employees involved with hazardous waste management were noted;
 - lids were not secured on all drums at times when waste was not being placed in drums; and,
 - the facility did not retain copies of all notifications, certifications, and other relevant documents for a period of five years previous to the inspection.

The report also indicates that a part washing area is located at the south portion of Building 93. One 150-gallon parts washer and two 20-gallon parts washers are located in this portion of Building 93 and, at the time of this evaluation inspection, spent solvents were replaced about twice a year. Approximately 400-gallons of spent halogenated solvents per year were generated at the time of the evaluation inspection;

4. waste manifests which were also provided by IDEM indicating the disposal of PCB-containing fluid, non-regulated material, F003 waste, F005 waste, D008 waste, F001 waste, F002 waste, D002 waste, D001 waste, D007 waste;
5. a letter from Allied Products Corp. to IDEM indicating that: all waste streams have been identified at the facility; all drums are properly labeled pertaining to contents and accumulation start dates; a request has been made for manifests from previous years; training modifications have been made; and lids are being placed on drums when they are not actively being filled;
6. a letter from IDEM dated November 1992 indicating that the Allied Products Corp. facility has achieved compliance with the above-mentioned violations;
7. a Notification of Regulated Waste Activity dated 1998 indicating the disposal of D035 (methyl ethyl ketone) waste, F003 waste, and F002 waste; and,
8. a Notification of Regulated Waste Activity dated 1991 indicating the disposal of F037 (oils/waters/solids separation sludge) waste, F001 waste, F002 waste, F003 waste, F005 waste, D007 waste, and D008 waste.

The following state-maintained databases include facilities located by *EDR* to be within the specified search radius.

IDEM Documented Spills

The spills database includes facilities that have reported spill incidents to IDEM. The Raitt Corporation, located approximately 250 ft. west of the Site, is listed on the spills database. The database report indicates that three-gallons of diesel fuel was released from an underground storage tank and that 2.9-gallons of the product was recovered. Based on the size of the spill and the distance of the spill from the Site, this release did not likely impact the Site and is not a REC.

A facility at 1311 South Olive, located approximately 3,500 ft. west of the Site, is listed on the spills database. The database report indicates a release of three-gallons of diesel fuel from a UST and that three-gallons of the product was recovered. Based on the size of the release and the fact that all of the release was recovered, this release did not likely impact the Site and is not a REC.

A facility at 301 West Sample Street, located approximately 600 ft. east of the Site, is listed on the spills database. The database report indicates a release of an unknown amount of solvent was released in October of 1998. Based on the fact that the Site is located upgradient from the release, this release did not likely impact the Site and is not a REC.

The Ameritech Garage facility, located approximately 200 ft. southwest of the Site, is listed on the spills database. The database report indicates that a half-gallon of diesel fuel and 0.1-gallons of hydraulic oil were released in January 1998. Based on the size of the release, this release did not likely impact the Site and is not a REC.

A facility at 1310 South Main Street, located approximately 700 ft. east of the Site, reported two releases in 1999. The first release was an unknown amount of carpet cleaning compound released to a storm sewer in May of 1999. The second release was an unknown amount of an unknown material. Based on the distance of the releases from the Site and the downgradient location of the releases from the Site, these releases did not likely impact the Site and are not RECs.

The database indicates that two releases were reported at the intersection of US 31 bypass and State Route 23 in 1994. This location is approximately 1,600 ft. east of the Site. The first release was three-gallons of ethanol and the second release was five-gallons of gasoline. Based on the size of the spills and the downgradient location of the spills from the Site, these releases did not likely impact the Site and are not RECs.

The database report indicates that six releases were reported at the Industrial Fuels and Resources facility located approximately 1,000 ft. north of the Site. Based on the distance of the spills from the Site and the downgradient location of the spills from the Site, these releases did not likely impact the Site and are not RECs.

Registered Underground Storage Tanks (USTs)

An *EDR* database report was reviewed to determine if any records exist for registered underground storage tanks (USTs) on the Site or adjacent properties. As a quality assurance check, IDEM was contacted directly. The database report indicated that the South Bend Lathe Site, the Municipal Service Facility and the Eckler Lahey Lumber Company facility contain registered USTs. The Allied Products Corp. property, the Underground Pipe & Valve facility and the Huckins Tool & Die facility

are also known to contain USTs; however, they were not listed in the database. The *EDR* database report indicates that five USTs are located on the South Bend Lathe property and the two of the tanks are in use and three of the tanks are unregulated. The contents of the tanks are not included in the database information.

The *EDR* database report indicates that two USTs are active and twelve USTs are permanently out of service at the Municipal Service Facility located adjacent to the north of the property. The contents of the tanks are not included in the database information. These tanks are also included in the leaking UST database.

The *EDR* database report indicates that three USTs are permanently out of service at the Eckler Lahey Lumber Company located adjacent to the south of the Site. The contents of the tanks are not included in the database information. These tanks are also included in the leaking UST database.

Leaking Underground Storage Tanks (LUST)

A search was also conducted by *EDR* for the report of any LUST facilities located within ½ mile of the Site boundary. The *EDR* report identified nineteen facilities with leaking underground tanks within one half mile of the Site. Thirteen of the nineteen facilities have No Further Action (NFA) or Discontinued status.

Of the remaining six facilities, four are located at a distance greater than 1,500 ft. Based on the distance of these facilities from the Site, these facilities are not RECs.

The remaining LUST facilities are listed as follows:

The Municipal Services Facility, located adjacent to the north of the Site, is listed on the LUST database with three incidents. One of the incidents has received a NFA status; however, the other two incidents are listed as active. Both of these incidents are listed as a medium priority. One of the incidents is listed as affecting soil and the other is listed as affecting groundwater. Based on the downgradient location of the LUST incidents from the Site, these tanks are not considered a REC.

The Jerry's-U-Serve, Inc. facility, located approximately 700 ft. east of the Site, is listed in the LUST database. The incident is listed as impacted soil and is listed as a low priority incident. Based on the downgradient location of the facility from the Site and the listed low priority of the incident, this LUST incident is not considered a REC.

4.2 Local Environmental Records

4.2.1 Local Fire Department

On November 29, 2000, Chief Jim Lopez and Chief Burt Prawat of the City of South Bend Fire Department were contacted to obtain information regarding fires, unauthorized discharges, spills, or any incidence involving toxic or hazardous materials associated with the Site. A response was received from Captain Paul Derda, Inspector with the South Bend Fire Department, Inspection and Prevention Bureau. A copy of the Freedom of Information Act (FOIA) request is located in Appendix K.

4.2.2 Local Health Department

On November 29, 2000, Mr. Tony Mancuso of the St. Joseph County Health Department was contacted to obtain information regarding spills or any other environmental problems involving hazardous substances associated with the Site. No information has been received from the health department at the time of this report. If information is received from the health department that indicates a potential impact to the Site, an addendum to this report will be provided. A copy of the FOIA request is located in Appendix K.

4.2.3 State Health Department

The Indiana Health Department was contacted on November 29, 2000 to obtain information regarding spills or any other environmental problems involving hazardous substances or petroleum associated with the Site⁴. The Indiana State Health Department was also contacted regarding information on spills or any other environmental problems involving hazardous substances associated with the Site. The State health Department responded that they do not keep files on this type of information. A copy of the FOIA request is located in Appendix K.

⁴ State of Indiana, Health Department, Correspondence, November 29, 2000.

4.2.4 Local Emergency Planning Committee

The Local Emergency Planning Committee (LEPC) was contacted on November 29, 2000 to obtain information regarding spills or any other environmental problems involving hazardous substances or petroleum associated with the Site. The LEPC responded indicating they had files only for the South Bend Lathe facility. The form received from the LEPC indicates that pressurized oxygen and sodium cyanide are stored on the Site. The form was dated March of 1994. A copy of the FOIA request and response is located in Appendix K.

4.2.5 City of South Bend Environmental Services

The City of South Bend Environmental Services was contacted regarding records of permits, violations, reports, spills, or releases involving toxic or hazardous substances. South Bend Environmental Services responded that they do not keep files on such information and to contact IDEM. A copy of the FOIA request is located in Appendix K.

4.3 Previous Investigations

Mr. Andy Laurent, City of South Bend Department of Community and Economic Development, provided a packet of information available from previous investigations. It should be noted that this is not a complete package of previous studies performed at Area A. The provided previous investigation information is discussed below. A copy of the previous reports is provided in Appendix L.

An "Interim Phase I Environmental Site Assessment" for the Studebaker Corridor, prepared by ATEC (September 21, 1990) was reviewed for the Assessment. The report discussed the area to the east of the Area A properties. The report states that eight USTs containing petroleum, kerosene and fuel oil have been in place at the Allied Products Corp. property. The report also cited the Michiana Area Council of Governments, stating that several potential sites impacting groundwater south and east of the Site include South Bend Auto Parts, Bush Auto Salvage, Steve and Jeans Junk Yard and AM General LTV. Based on the Phase I information, an initial Phase II Study was performed under a separate cover at Lot One Site, which refers to the previous Avanti Manufacturing Plant located north of where Franklin Street dead-ends into Sample Street. This report is discussed below.

The "Initial Phase II Final Report" for the Lot One Studebaker Corridor, prepared by ATEC in March of 1991, was reviewed for this ESA. Four groundwater-monitoring wells (MW) were installed near a U-shaped building located on the northern portion of the property. One well was installed west of the U-shaped building and three wells were installed north of the U-shaped building. Soil samples were collected during the installation of the monitoring wells and were sent to a laboratory for analysis. Partial lab results for total heavy metals were included in the provided information. The report indicates that barium, chromium and lead were detected in the soil samples. The highest concentration of barium was detected at MW-3 at 6.7 mg/kg (depth of 23.5 to 25.0 ft.). The highest concentration of chromium was detected at MW-4 at 5.8 mg/kg (depth of 21.0 to 22.5 ft.). The highest concentration of lead was detected in MW-1 at 3.5 mg/kg (depth of 23.5 to 25.0). Groundwater samples were also collected from the monitoring wells. Partial lab results for volatile organic compounds (VOCs) were included in the provided information. Four compounds were listed in the report. The highest concentration of trans-1,2-dichloroethane was detected in MW-2 at 37 ug/L. The highest concentration of 1,1,1-trichloroethane was detected in MW-3 at 10 ug/L. The highest concentration of trichloroethane was detected in MW-2 at <5ug/L. The highest concentration of tetrachloroethene was detected in MW-2 at 10 ug/L. Soil boring logs were also included in the provided information for the Lot 1 Phase II Study. The boring log for MW-1 indicates surficial brick and concrete changing to dark brown silty, fine to coarse sand at six-in. below ground surface (bgs). This changes to a brown silty, fine to coarse sand at 8.5- ft. bgs with trace gravel below 13.5- ft. bgs. This material becomes medium dense below 16- ft. bgs. An approximate 3-in. zone of black staining was encountered at 25- ft. bgs and the soil was saturated below this depth. The boring extended to 32.75- ft. bgs. The boring log for MW-2 indicates seven-in. of concrete followed by approximately six- ft. of coarse gravel, brick, cinder debris fill material changing to brown, moist. Loose silty, fine to coarse sand with trace gravel. This material changes to medium dense with increasing gravel below 13.5- ft. bgs and becomes saturated below 24- ft. bgs. No staining was noted in this boring. The boring extended to a depth of 32.0- ft.. The boring log for MW-3 indicates 0.1- ft. of asphalt followed by 0.6- ft. of concrete. Sand, gravel and concrete fill was encountered to a depth of 3.5- ft. bgs followed by brown, moist, loose, silty, fine to coarse sand with trace gravel. This material became light brown below 13.5- ft. bgs and medium dense below 21- ft. bgs. Saturation was encountered below 24- ft. bgs and the boring extended to a depth of 32- ft. bgs. No staining was noted in this boring. The boring log for MW-4 indicates three- ft. of black, loose sand and gravel

followed by eight- ft. of brown, silty, fine to coarse sand with trace gravel. The soil turned to light brown below 11.0- ft. bgs and became saturated below 22.5- ft. bgs. The boring extended to 29- ft. bgs. No areas of staining were noted on the boring log.

A report titled "Environmental Investigation South Bend Lathe" was prepared by EIS Environmental Engineers, Inc. in July of 1992. Only portions of this report were received for this Assessment. This report was prepared to address potential impact to soil and groundwater from five USTs and an associated fuel oil piping track and to analyze possible asbestos-containing roofing materials. Four of the USTs investigated are located on the south side of the South Bend Lathe building near the chip house. The remaining UST is located at the east portion of the South Bend Lathe property, south of the Engineering Building. According to the report, eight borings were installed near the five tanks and soil and groundwater samples were collected from each boring location and were submitted to a laboratory. The report states that soil samples were analyzed only for total petroleum hydrocarbons (TPH), groundwater samples were analyzed for TPH and VOCs. The report also states that 24 samples of potential asbestos-containing roofing material were collected for analysis.

Borings 1 and 2 (B-1 and B-2) were installed near the waste oil UST located approximately 135 ft. east of the southwest corner of the South Bend Lathe building. The higher concentration of TPH in soil from these two borings is 10,400 mg/kg from B-2 at a depth of 16.5 to 18- ft. bgs. The higher concentration of TPH in groundwater is 124 mg/L from B-2. Xylenes were detected in B-2 at 0.013 mg/L and 1,1-dichloroethane was detected in B-1 at 2.9 ug/L. The following chemicals of concern (COCs) were detected in B-2; p-isopropyltoluene was detected at 24 ug/L, naphthalene was detected at 20 ug/L, 1,2,4-trimethylbenzene was detected at 125 ug/L, 1,3,5-trimethylbenzene was detected at 40 ug/L and xylenes were detected at 12.5 ug/L.

Borings 3 and 4 (B-3 and B-4) were installed near a 20,000-gallon fuel oil UST located southwest of the chip house on the south side of the South Bend Lathe building. TPH and benzene, toluene, ethylbenzene, and xylenes (BTEX) results were below the laboratory's detection limit. The higher concentration of 1,1-dichloroethane was collected from B-3 at 2.0 ug/L. The higher concentration of c-1,2-dichloroethane was collected from B-3 at 4.6 ug/L. The higher concentration of 1,1,1-trichloroethane was collected from B-3 at 3.1 ug/L and the higher concentration of trichloroethene was collected from B-3 at 15 ug/L.

Boring 5 was installed north of the piping track and east of the previously mentioned chip house. Two soil samples were submitted from B-5 for TPH. One sample was collected 1.5 to 3.0- ft. bgs (2,550 mg/kg) and one sample was collected 16.5 to 18.0- ft. bgs (112 mg/kg). Groundwater analysis results from B-5 includes the following; TPH at 0.44 mg/L, toluene at 0.010 mg/L, xylenes at 0.008 mg/L, 1,1-dichloroethane at 1.5 ug/L, c-1,2-dichloroethane at 3.5 ug/L, 1,1,1-trichloroethene at 1.4 ug/L and trichloroethene at 11 ug/L.

Borings 6 and 7 (B-6 and B-7) were installed near a 20,000-gallon fuel oil UST located approximately 105 ft. east of the chip house on the south side of South Bend Lathe. TPH and BTEX results of the soil and groundwater samples are below the laboratory's detection limit. Remaining VOC analytical information was either not provided or was not included in the parameter list for analysis.

Boring 8 was installed near 5,000-gallon gasoline UST located on the South Bend Lathe property, approximately 60 ft. south of the Engineering Building. The only result above the laboratory's detection limit for the soil and groundwater collected from B-8 is TPH is groundwater at 0.59 mg/L. Remaining VOC analytical information was either not provided or was not included in the parameter list for analysis.

A letter prepared by Warner & Sons, Inc in November of 1992 was reviewed for this Assessment. The letter discusses the analytical results of liquids collected from a sump pit and a concrete cistern located on the Avanti property north of Area A. Warner & Sons, Inc. recommended that, based on analytical results, the liquid be removed and properly disposed of. It is not known if this work was carried out.

A report titled "Site Remediation, 10,000-Gallon Underground Storage Tank, 32,000-gallon Cistern" was prepared by Warner & Sons, Inc. in June of 1993 and was reviewed for this Assessment. The report states that, during demolition of the Avanti building located north of the Site, a 10,000-gallon heating oil UST and a large cistern with obviously contaminated materials were encountered. The UST was removed in December of 1992 and approximately 200 cubic yards of impacted soil was excavated from near the UST. The UST reportedly stored heating oil. Less than 50 gallons of sludge was removed from the tank prior to removal. Five confirmation soil samples were collected following the removal of the UST. The samples were submitted to a laboratory and analyzed for

TPH. One sample resulted in a TPH concentration of 14 PPM and the other four samples were below the laboratory's detection limit. The impacted soil was disposed of as special waste at Prairie View Landfill on April 20, 1993. An approximately 32,000-gallon cistern, located at the Avanti property, was discovered during demolition operations. A dark, oily, aqueous solution was observed in the cistern. The source of the material is unknown. On December 2,3, and 4 1992 and on April 20 and 22, 1993, a total of 20,432 gallons of the material was removed from the cistern and disposed of at SER Oil Services. A sample of the material was collected and analyzed for TPH, ignitability, paint filter testing, TCLP volatiles and semivolatiles, total PCBs, reactivity, cyanide, total phenolics, pH, and TCLP metals. A TPH concentration of 190,000 PPM, a barium concentration of 9.0 mg/L a cadmium concentration of 0.15 mg/L and a lead concentration of 1.4 mg/L was detected in the sample. The concrete material associated with the cistern was also sampled prior to removal. The material was found to be a special waste and was disposed of at Prairie View landfill on April 20 and 21, 1993. No visual impact was detected in soils adjacent to the cistern.

A letter prepared by APT in April of 1994 was reviewed for this Assessment. The letter was prepared for the IDEM concerning a historic release from the four USTs located on the west end of Building 86 on the Allied Products Corp. property. The report indicates that, during the closure in-place of four USTs that Allied temporarily used to store fuel oil and Studebaker reportedly used to store solvent, soil sample were collected near the USTs. These samples were submitted to a laboratory for TPH and VOC analysis. Results indicated elevated concentrations of tetrachloroethylene in soil near the tank. The report also indicated that no product was located in the tank prior to closure activities. The report states that IDEM incident number 94031118 was issued for the incident. No further action regarding remediation activities is stated in the letter.

A letter prepared by the IDEM in May of 1995 was reviewed for this Assessment. The letter indicates that the Allied Products Corp. property was eligible to participate in Indiana's Voluntary Remediation Action Program.

A report titled "Site Investigation Report," prepared by APT in May of 1995 was reviewed for this Assessment. A portion of the report was received from the City of South Bend; however, this copy of the report did not include figures that showed the location of the USTs that were removed from the

Site (as discussed below) nor did it contain the majority of laboratory data from the on-site investigations. A copy of what is believed to be the full report was received from IDEM on January 18, 2001. A review of the report and associated figures and laboratory data follows.

The report discusses potential releases associated with seventeen UST systems. Thirteen of the tanks were reportedly closed by Petroleum Equipment, Inc. during June 1989 to October 1991 and the remaining four tanks were closed by APT in March 1994. Ten USTs were reportedly removed from a tank farm located between Building 86 and 79. The tank farm consisted of six-10,000-gallon tanks, one-8,000-gallon tank, and three-12,000-gallon tanks that reportedly stored gasoline, kerosene and heating oil prior to closures. However, based on the age of the USTs the tanks may have stored several different materials in their lifetime. Soil samples were collected near the USTs and were sent to a laboratory and analyzed for TPH. The report stated that, based on the results of these samples, a release did not occur from this UST system. The report also stated that groundwater was not sampled in this area since it was not encountered during the UST excavation.

One 5,000-gallon UST, which was reportedly used to store gasoline, was located approximately midway along the outside of the east wall of the east building (Building 86). The report does not indicate if the tank was removed or closed in-place. Soil samples were collected near the UST and were sent to a laboratory for TPH analysis. Sample results indicated that releases had occurred from the UST and, therefore, soil was overexcavated and disposed of. Groundwater was not sampled at this time because it was not encountered during tank closure. The report does not state whether confirmatory samples were collected following excavation.

One 20,000-gallon UST that reportedly stored heating oil prior to its closure was located near the northwest corner of the west building (Building 86). The tank was abandoned in-place and soil samples were collected near the tank and sent to a laboratory for TPH analysis. It is not stated how many samples were collected; however, the report did state that two of the soil samples exhibited concentrations of TPH at 62 mg/kg and at 17 mg/kg. No remedial action was discussed in association with this tank. Groundwater was not sampled at this time because it was not encountered during tank closure.

According to the report, a 10,000-gallon UST that reportedly stored mineral spirits and kerosene was removed from the Site in October of 1991. The tank was located north of the east building. Strong petroleum odors were noted during the excavation of the UST. Soil samples were collected and sent to a laboratory for TPH and VOC analysis. A sample collected from the soil stockpile produced during the excavation exhibited a TPH concentration of 6,300 mg/kg and a soil sample collected from the floor of the excavation exhibited a TPH concentration of 31 mg/kg and a 1,2,4-trimethylbenzene concentration of 1,052 ug/kg. 2,264 cubic yards of soil near the tank was excavated, bioremediated, and returned to the excavation after concentrations of constituents were below the detection limit.

Four 4,000-gallon USTs historically containing tetrachloroethene and fuel oil at different times of their operational use were closed in 1994. One monitoring well was installed near the tanks and one sample analyzed from the monitoring well indicated a release of tetrachloroethene from the UST. The report also states that soil samples collected near the UST system confirmed a release of material with concentration of tetrachloroethene and TPH. Table 1 through Table 3 in the report lists the parameter and the concentration of the respective chemical of concern. A narrative of the tables is provided below.

Samples were collected from the sidewalls and bottoms of the tank excavations and were analyzed for TPH diesel range organics (TPH-DRO). The laboratory's lower detection limit in these samples ranged from 10 mg/kg to 5,000 mg/kg. Five of the sample results were above the laboratory's detection limit. Sample T4-SSE (Tank 4 south side, east end) analysis resulted in a TPH-DRO concentration of 2,300 mg/kg. Sample T4-SSW (Tank 4 south side, west end) analysis resulted in a TPH-DRO concentration of 11 mg/kg. Sample T4-WE (Tank 4, west end) analysis resulted in a TPH-DRO concentration of 11 mg/kg. Sample T3-WE (Tank 3, west end) analysis resulted in a TPH-DRO concentration of 11 mg/kg. Sample T4-NSW (Tank 4 north side, west end) analysis resulted in a TPH-DRO concentration of 3,600 mg/kg.

Samples were collected from the sidewalls and bottoms of the tank excavations and were analyzed for volatile organic compounds (VOCs). Acetone was detected in the samples collected from Tanks 1, 2, 3 and 4. The highest concentration of acetone detected was from sample T1-SSE (Tank 1 south side, east end) at 1,000 ug/kg. Acetone was also detected in the laboratory blank indicating that the acetone concentrations may be due to a laboratory contaminant. Acetone is a typical laboratory

contaminant. 2-butanone was detected in samples collected from Tanks 1,2,3 and 4. The highest concentration of 2-butanone detected was from sample T3-NSE (Tank 3-north side, east end) at 34 ug/kg. Carbon disulfide was detected in one sample collected from Tank 4. The concentration of carbon disulfide detected was from sample T4-NSE (Tank 4-north side, east end) at 2.7 ug/kg. 1,2-dichloroethene was detected in samples collected from Tanks 3 and 4. The highest concentration of 1,2-dichloroethene detected was from sample T3-EE (Tank 3- east end) at 8.7 ug/kg. Ethylbenzene was detected in samples collected from Tanks 3 and 4. The highest concentration of ethylbenzene detected was from sample T4-NSE (Tank 4- north side, east end) at 6.1 ug/kg. 2-hexanone was detected in one sample collected from Tank 4. The concentration of 2-hexanone detected was from sample T4-BE (Tank 4- bottom, east end) at 12 ug/kg. Methylene chloride was detected in samples collected from Tanks 1,2,3 and 4. The highest concentration of methylene chloride detected was from sample T3-NSE (Tank 3- north side, east end) at 17 ug/kg. 1,1,2,2-tetrachloroethane was detected in one sample collected from Tank 1. The concentration of 1,1,2,2-tetrachloroethane detected was from sample T1-SSE (Tank 1-south side, east end) at 610 ug/kg. Tetrachloroethene was detected in samples collected from Tanks 1,2,3 and 4. The highest concentration of tetrachloroethene detected was from sample T2-SSE (Tank 2- south side, east end) at 72,000 ug/kg. Toluene was detected in samples collected from Tanks 3 and 4. The highest concentration of toluene detected was from sample T4-NSE (Tank 4- north side, east end) at 7 ug/kg. Trichloroethene was detected in samples collected from Tanks 3 and 4. The highest concentration of toluene detected was from sample T3-EE (Tank 3- east end) at 6.8 ug/kg. Total xylenes were detected in samples collected from Tanks 3 and 4. The highest concentration of xylenes detected was from sample T4-NSE (Tank 4- north side, east end) at 24 ug/kg. No other VOCs were detected above the laboratory's detection limit.

Samples were collected from the sidewalls and bottoms of the tank excavations and were analyzed for semivolatile organic compounds (SVOCs). Benzo (a) pyrene was detected in one sample collected from Tank 1 (T1-NSW-north side, west end) at 59 ug/kg. Benzo (b) fluoranthene was detected in one sample collected from Tank 1 (T1-NSW-north side, west end) at 94 ug/kg. Benzo (ghi) perylene was detected in one sample collected from Tank 1 (T1-NSW-north side, west end) at 55 ug/kg. Benzo (k) fluoranthene was detected in one sample collected from Tank 1 (T1-NSW-north side, west end) at 53 ug/kg. Bis (2-ethylhexyl) phthalate was detected in samples collected from Tanks 1 and 4. The highest concentration of bis (2-ethylhexyl) phthalate detected was from sample T4-BW (Tank 4- bottom, west end) at 2,900 ug/kg. Carbazole was detected in one sample collected

from Tank 1 (T1-NSW-north side, west end) at 35 ug/kg. Chrysene was detected in samples collected from Tanks 1 and 3. The highest concentration of chrysene detected was from sample T3-NSE (Tank 3- north side, east end) at 930 ug/kg. Di-n-butyl phthalate was detected in samples collected from Tanks 1, 2, 3 and 4. The highest concentration of di-n-butyl phthalate detected was from sample T3-NSW (Tank 3- north side, west end) at 480 ug/kg. Diethyl phthalate was detected in one sample collected from Tank 2 (T2-SS-south side) at 42 ug/kg. Fluoranthene was detected in one sample collected from Tank 1 (T1-NSW-north side, west end) at 160 ug/kg. Indeno (1,2,3-cd) pyrene was detected in one sample collected from Tank 1 (T1-NSW-north side, west end) at 53 ug/kg. Phenathrene was detected in samples collected from Tanks 1, 3 and 4. The highest concentration of phenathrene detected was from sample T4-SSE (Tank 4- south side, east end) at 2,100 ug/kg. Pyrene was detected in samples collected from Tanks 1 and 3. The highest concentration of pyrene detected was from sample T3-NSE (Tank 3- north side, east end) at 670 ug/kg. No other SVOCs were detected above the laboratory's detection limit.

The report also discusses the hydrogeology of the area, stating that, according to referenced materials, there is a shallow, unconfined aquifer located approximately 25- ft. bgs and a generally confined deep aquifer located approximately 100- ft. bgs. The report states that based on on-site investigations, a single, unconfined aquifer underlies the facility from ground surface to approximately 76- ft. bgs, followed by a 37-ft. thick interval consisting of interbedded till and sand/gravel units down to bedrock, which occurs at approximately 113 ft. bgs.

As part of the Phase II investigation performed at the Allied Products Corp. property, 24 shallow monitoring wells, 17 deep monitoring wells and nine soil borings were installed on the property. Shallow wells were screened at the water table (approximately 25 ft. bgs) and deep wells were screened at approximately 40-45 ft. bgs at a stained interval identified during previous investigations.

A summary of the soil analysis results follows:

1. six of the 71 soil samples analyzed for TPH exceeded the IDEM LUST cleanup objective of 100mg/kg, the highest of which was 39,000 mg/kg in MW1D at 38- ft. bgs; the remaining exceedences were 930 mg/kg (MW-2 at 21- ft. bgs), 320 mg/kg (MW-7 at 40- ft. bgs), 290 mg/kg (MW20D at 42- ft. bgs), 2,300 mg/kg (T4-SSE) and 3,600 mg/kg (T4-NSW);

2. VOCs were detected in 46 of the 47 soil samples collected and two VOC constituents were detected in concentration that exceeded the VRP Tier II cleanup objectives. The tetrachloroethylene cleanup objective of 8,010 ug/kg was exceeded in six samples, and the 1,1,2,2-tetrachloroethane cleanup objective of 210 ug/kg was exceeded in one of the samples; and,
3. none of the 73 soil samples analyzed for semi-volatile organic compounds (SVOCs) exceeded the IDEM LUST nor the VRP Tier II cleanup objectives.

A summary of the groundwater analysis results follows:

1. thirty-four of the 68-groundwater samples were analyzed for TPH and the 18 samples that exhibited concentrations of TPH were above the IDEM LUST cleanup objective of 100/ug/L. These samples were collected from MW-E, MW-2, MW-3, MW-4, MW-12, MW-7, MW-23S, MW-13S, MW-13D, MW-15S, MW-15D, MW-11D, MW-16D, MW-18D, MW-20D, MW-22;
2. forty of the 43-groundwater samples analyzed for VOCs exhibited concentrations of one or more VOCs. Two constituents of VOCs were detected in concentrations that exceeded the VRP Tier II cleanup criteria. Tetrachloroethylene was detected at concentrations that exceeded this criteria in eight samples (MW-1, MW-2, MW-6, MW-13-GW1, MW13D-GW1, MW-15D-GW1, and MW15-GW2). Vinyl chloride was detected in MW17S-GW1 that exceeded the cleanup criteria of 10ug/L. The concentration of this sample was not provided; and,
3. twenty-one of the 26 groundwater samples analyzed for SVOCs exhibited concentrations of one or more SVOC. Two SVOC constituents were detected in concentrations that exceeded the VRP Tier II cleanup criteria. Bis(ethylhexyl) phthalate was detected at a concentration of 300 ug/L. APT stated that they believe this is a laboratory contaminant. Pentachlorophenol was detected in MW-3 at a concentration of 82 ug/L. This well was then resampled and Pentachlorophenol was not detected.

A portion of a Phase II report prepared by EIS Environmental Engineers, Inc. was made available for review for this Assessment. The report was prepared I August of 1995 and includes two figures. The first figure shows groundwater flow on the properties east of Area A to be towards the northeast. The second figure shows groundwater analytical results of monitoring wells installed northeast of the Area A properties. Elevated levels of tetrachloroethene and trichloroethene were detected in the closest downgradient well of Area A.

A letter prepared by ATEC Associates, Inc. in January of 1996 summarizes the findings of the APT report that was prepared in 1995. It is likely that this is the same report that was reviewed for this Assessment and is summarized previously in this report.

A letter report provided for review included an April 1998 letter prepared by EIS Environmental Engineers, Inc. The cover letter includes a brief narrative describing groundwater sampling and analysis and well abandonment at the Avanti facility, a summary of analytical results, laboratory analytical results, the chain-of-custody for the samples, field sampling forms, and IDNR water well records documenting well abandonment. The letter stated that three of the four wells located on the Avanti property were abandoned and the fourth well was not located. The wells were installed by ATEC in November 1990. Sampling conducted prior to well abandonment indicates that VOCs in the submitted samples were below the laboratory's detectable limit. VOCs was the only parameter analyzed. Field forms for wells 1 and 2 indicate an odor was detected during the well abandonment. The type of odor was not specified. One figure was included that showed the location of monitoring wells on the Avanti property located north of Area A.

A report prepared by Grauvogel & Associates in April of 2000 was reviewed for this Assessment. The report discusses the removal of three USTs and the closure in-place of one UST on the Engineering Building property located adjacent to the west of South Bend Lathe. Two 8,000-gallon USTs and one 5,000-gallon UST that historically stored gasoline were removed from the property in January of 2000. One 1,500-gallon UST that historically stored, at different periods, lubrication oil and mineral spirits. The 1,500-gallon UST was reportedly closed in-place due to its close proximity to a building foundation. No visual signs of leakage were noted near any of the tanks during excavation. The excavated tanks were observed for corroded areas where product might have escaped the tank. No such areas were noted. Approximately 150 gallons of mineral spirits were removed from the 1,500-gallon UST prior to closure. Approximately 1,120 gallons of water was removed from on of the 8,000-gallon USTs and approximately 8,000 gallons of water with trace gasoline was removed from the other 8,000-gallon UST prior to removal. Approximately 5,000 gallons of water with trace gasoline was removed from the 5,000-gallon UST prior to removal. One excavation was created to remove the two 8,000-gallon USTs and to expose the 1,500-gallon UST (east excavation) and another excavation was created to remove the 5,000-gallon UST (west excavation). Groundwater was not encountered during excavation. Soil samples were collected from both excavations. Soil samples from the east excavation were analyzed for lead and TPH. The

highest result of lead was collected from the north portion of the west wall at 119 mg/kg. All TPH results were below the laboratory's detectable limit of 20 mg/kg. All TPH results from the west excavation were below the laboratory's detectable limit of 20 mg/kg. Five samples of the excavated soil was collected and found to be below the laboratory's detectable limit of 20 mg/kg. The excavated soil was returned to the excavation and additional backfill was brought in to return the excavations to grade. One sample was collected from the additional fill material required and was found to be below the laboratory's detectable limit of 20 mg/kg. Additional sampling is recommended for the area of the closed USTs to address the potential for the presence of VOCs and SVOCs.

5.0 SITE INVESTIGATION

5.1 Site Reconnaissance

A reconnaissance of the Site was performed on November 20 and 21, 2000 by representatives of HAI to visually assess the Site and identify any recognized environmental conditions. Due to inclement weather, a second reconnaissance was required and was performed on November 29, 2000. During the reconnaissances, HAI interviewed Mr. Jay Huckins of Huckins Tool & Die; Mr. John Baker of Allied Products Corp.; Mr. Dale Knappenberger, Production Manager with South Bend Lathe; and Mr. Jim Butler of Underground Pipe & Valve. A layout of the properties is presented in Figure 2.

5.1.1 Current Site Usage

The Underground Pipe & Valve property is currently being used to store various pipes and utility products. No processes are currently being conducted at the property. The Allied Products Corp. property is currently vacant. Allied Products Corp. is in the process of removing presses that were used at the facility and other salvageable items. The Huckins Tool & Die facility is currently being used as a tooling facility; however, Mr. Huckins stated that operations would soon cease at the property. The South Bend Lathe Property is also currently used as a tooling facility. Each property will be discussed in detail below.

Underground Pipe & Valve

The Underground Pipe & Valve property, located on the east side of Prairie Avenue between Sample Street and Cotter Street, consists of a gravel-covered parking area and storage area, a two-story building a grass-covered area and a reservoir. The interior of the building will be discussed first, followed by the exterior portions of the property.

As previously mentioned, a two-story, approximately 568, 275 square ft. building is located centrally on the property and was constructed in the early 1900s. Offices are located at the north portion of the building and are currently being used by Underground Pipe & Valve. Wood block flooring was located in the offices being used by Underground Pipe & Valve. This wood flooring is likely treated with creosote. Some of the storage area located at the northwest portion of the building is also being used by Underground Pipe & Valve for storage of pipes and other utility related products. The remaining portion of the building is not in use. Some metal debris and miscellaneous items were observed during the building reconnaissance in the large, open area of the building. Several hundred

engine blocks were observed on the southwest portion of the building. Some minor areas of staining were noted on the concrete slab around the engine blocks. Storage of miscellaneous items on the west portion of the building was also observed. This area is the former machine shop during Studebaker operations. No signs of staining indicated a release to underlying soils were noted in the storage areas of the building. Numerous pits filled with various wood and metal debris were observed during the building reconnaissance. The bottom of the pits could not be observed because of the debris. The approximate locations of the pits are shown on Figure 2. According to drawings observed at the Studebaker Archives, numerous tunnels are also located under the building as shown on Figure 2. These tunnels were likely used in part for utility corridors. A rail entered the building at a bay located at the northwest corner of the building. The building was previously used as a foundry. A high bay area is located on the eastern portion of the building and a rail line is located at the east end of the high bay. One pit filled with metal and wood debris were observed on the northern portion of the high bay. Three large concrete bins were observed along the east exterior wall of the high bay as shown in Figure 2. Sand that was likely used during the occupancy of the foundry was located in the bins. Three pits filled with water were observed on the southern portion of the high bay. Based on the depth to the surface of the water, it is not likely that it is groundwater. A drawing of the foundry observed at the Studebaker archives showed pits located on the east portion of the building and were labeled as coke pits. The second floor of the building was not entered because it was considered unlikely that an activity on the second floor of the building would impact the soil or groundwater underlying the building.

The parking area and supply storage area is located on the north portion of the property. According to historic maps provided for this Assessment a 500-gallon gasoline tank was located near the northwest corner of the foundry building. This area of the property is currently a parking lot. A foundry equipment storage building was located north of the eastern portion of the foundry building according to the historic map reviewed at the Studebaker Archives. During the Site reconnaissance it was observed that a pit is located in the general vicinity of the former building. The pit may lead to a utility corridor. A former pumphouse was observed southeast of the pit as shown on Figure 2. Steel plates and vent pipe were observed east of the pumphouse. The historic map shows three-10,000-gallon core oil tanks and one-10,000-gallon fuel oil tank located in this area. Mr. Butler stated that none of the tanks located on the property are or ever were used by Underground Pipe & Valve. A diesel and a gasoline AST that are used by Underground Pipe & Valve were observed in the area of the USTs. The ASTs were in good condition and no signs of a release were noted near the tanks. An

open access to a utility tunnel was observed south of the UST area. Surface water runoff was draining to this approximately six-in. diameter opening. The parking area and stockpile yard is fenced-in. A low-lying area labeled as "reservoir" on the historic map was observed on the southwest portion of the property. A diked wall is located around the low-lying area. No standing water was observed in the area; however, two outfalls were observed draining water to the low-lying area. The area was densely vegetated. A small amount of solid waste was observed in the low-lying area. A corroded metal structure was observed, half-buried, on the east side of the reservoir. This structure may be an excavated UST. A historic aerial photograph (date is unknown) shows this area to be a former parking area. The diked wall around the reservoir appeared to be soil-based material. All structures mentioned in this narrative can be seen on Figure 2.

Allied Products Corp.

The Allied Products Corp. property consists of ten buildings and concrete and asphalt-covered areas. The ten buildings are located under three separate roofs. The interior of the each building will be discussed first, followed by the exterior portions of the property. Building 83, located at the east end of the east building, was historically used as a shipping and receiving area and a storage area during Studebaker use. Allied Products Corp. used this building for storage as well. This building was constructed in 1922 and is comprised of approximately 70,070 square feet under roof. Building 82, located west of building 83, was historically used for car assembly and car part painting during Studebaker use. Allied Products Corp. used this portion of the building for storage. Three drywells or catch basins were located in Building 82 as shown on Figure 2. This part of the building is currently not in use. Building 82 was constructed in 1922 and is comprised of approximately 75,000 square feet under roof. Building 79 was used as steel storage and assembly during Studebaker and Allied Products Corp. use. This portion of the building is currently not in use. Petroleum and solvents used during Allied Products Corp. use were stored in the southern portion of Building 79. The drums were stored in contained areas with no floor drains or catch basins. Some minor petroleum staining was observed on the slab of the containment area for petroleum. This area is currently being used for storage by Allied Products Corp. Some areas within this building are fenced-off to deter access of unauthorized individuals. Building 79 was constructed in 1919 and is comprised of approximately 137,100 square feet under roof. Building 80 was used as a pressroom during Studebaker and Allied Products Corp. use. Eight press pits are located in this building. Three of the pits have been steam cleaned and one of the pits was not used. The remaining four pits contain a petroleum-based liquid. The pits are supposed to be cleaned by the company that is purchasing the

equipment from Allied Products Corp. Tunnels are located under these buildings as shown on Figure 2. Rooms that house PCB-containing transformers are also located in these buildings as shown on Figure 2. Building 80 was constructed in 1912 and is comprised of approximately 85,000 square feet under roof.

Building 93, located at the east end of the west building, was used as a machining room by both Studebaker and Allied Products Corp. Thirty-four steel and poly 55-gallon drums were observed in the north portion of this building. Not all of the drums were labeled; however, most of the drums appeared to contain petroleum-based liquid. A trench that appeared to have been used to change oil in vehicles was located on the northeast portion of the building. Oil staining was observed at the bottom of the pit. Four 55-gallon drums were observed near the east wall of Building 93. No signs of staining were observed on the concrete under the drums. Three of the drums were labeled as oil and one was labeled as anti-freeze. Building 93 was constructed in 1928 and is comprised of approximately 37,000 square feet under roof. Building 142, located east of Building 93 was used as steel receiving and storage during Studebaker use and as a die wash area and pressroom during Allied Products Corp. use. A die wash area and an associated trench and sump were located near the south end of Building 142. Staining was evident on the slab and on the wall behind the die wash area. Sludge material was located in the bottom of the trench and sump. Four pits are located in this building north of the die wash area. A petroleum-based liquid was observed in the pits. Building 142 was constructed in around 1926 and is comprised of 27,872 square feet under roof. Building 86 was used as the spring shop, truck chassis assembly and large pressroom during Studebaker and Allied Products Corp. use. Large presses were still located in this building during the Site reconnaissance. Presses and press pits were located in the northern and southern portions of the building and the central portion of the building was a former office area. A petroleum-based liquid was observed in the pits. Two rooms housing PCB-containing transformers were observed during the Site reconnaissance. The transformers appeared to be in good condition and no signs of obvious staining were noted. A truck well and dock are located on the east wall of Building 86. A stockpile of metal debris was noted in the dock area. Building 86 was constructed in 1926 and is comprised of 125,500 square feet under roof. Building 78, located north of the east buildings, was used as a tool room and maintenance building during Studebaker use. A former heat treat area was located at the western portion of the building. A receiving dock is located at the west end of the building. There is an access walkway from the second floor of the east building to Building 78. A rail well extends

from the east to west walls inside the building. A gravel material was used as a base for the rail. Building 78 was constructed in 1919 and is comprised of approximately 131,000 square feet under roof.

The exterior portions of the property will be described starting at the southeast corner of the property, then moving clockwise around the east buildings, west buildings and then the north building.

A gatehouse is located at the main access to the property and a chain-link fence surrounds the property. Portions of a set of rails are located on the southeast portion of the east buildings. Two catch basins were observed approximately 80 ft. south of the east buildings as shown on Figure 2. According to a map provided by the City of South Bend, a 6,000-gallon enamel reducer tank was located near the southwest corner of Building 79. Mr. Baker stated that this tank was removed; however, no documentation was provided to verify this statement. A catch basin was observed approximately 80 ft. west of Building 79 and approximately 40 ft. north of the south end of Building 79. No staining was observed near the catch basin. A vertical, vitrified-clay pipe was observed approximately ten ft. west of Building 79 as shown on Figure 2. This pipe may have served as a downspout from Building 79. Piles of debris containing wood, metal scrap and empty poly drums were observed between the east and west buildings as shown on Figure 2. A vegetated area is located north of the debris piles in the general location of the USTs that were removed from the property. A monitoring well was observed north of the vegetated area near an asphalt patch that may have been the location of a soil boring. A row of catch basins was observed on the west side of Building 80 as shown on Figure 2. One of the catch basins was not draining water and an oily sheen was observed on the water at the top of the catch basin. No areas of staining were observed near the catch basin that could have caused the oily sheen. A row of catch basins was also observed at the north end of the west building. No areas of staining were observed near these catch basins. A 10,000-gallon UST that historically stored enamel reducer and kerosene, at different time periods, was removed near the northeast corner of Building 83. The removal of this tank is discussed previously in this report. A dilapidated building, the former office and checkout station, was observed on the east side of Building 83. Based on the questionable structural integrity of the building, interior portions of the building were observed through window and door openings. No signs of staining were observed on visible portions of the interior of the building. The area east of the east building is mainly a concrete and grass covered area. No signs of stressed vegetation or staining was observed on this portion of the property.

Three fenced-in containment areas were observed south of Building 93 and 86. These containment areas historically held an LP AST, a gasoline AST and a kerosene AST. Eight drums labeled as containing oil and an unlabeled 200-gallon AST on a cart with saddle supports were located near the fenced-in areas. A gasoline odor was noted in this area of the Site. The area west of Building 86 is a concrete covered area. No obvious signs of the four-4,000-gallon USTs that were filled in place were observed on this side of the building. Three transformers were observed near the northwest corner of Building 86. One of the transformers was labeled as being drained and replaced with non-PCB-containing fluid. The other two transformers were not labeled. A 55-gallon drum approximately half-filled with liquid was located under the southernmost transformer. No signs of staining were noted under the transformer. Two monitoring wells were observed on the east side of Building 86, south of the dock. These wells may have been installed to monitor the groundwater downgradient of a 5,000-gallon gasoline UST that was reportedly closed on this portion of the property. Two catch basins were observed on the east side of Building 93. No signs of staining were observed near the catch basins. According to a map provided by the City of South Bend, a 5,000-gallon diesel oil tank was located approximately 140 ft. north of the southeast corner of Building 93. No sign of this tank was observed during the Site reconnaissance. According to Mr. Baker, the UST was removed; however, no documentation was supplied to support this statement.

A truck dock is located near the southwest corner of Building 78 and a catch basin is located on the central portion of the dock. No staining was observed near the catch basin. The AEP substation is located approximately 50 ft. north of the dock as shown on Figure 2. According to a report provided by the City of South Bend (APT Document 8708) and discussed previously in this report, a 20,000-gallon heating oil UST was filled in-place. No sign of this UST was observed during the Site reconnaissance. The north and east sides of the building are concrete covered. No major areas of staining were observed in these areas. A manhole with a fill port and vent pipe were observed on the south side on Building 78 approximately 130 ft. west of the southeast corner of the building. Mr. Baker was not aware of a UST in this location and no documentation of a tank in this location was revealed in any of the historical documents reviewed for this Assessment. Most of the area on the property is concrete covered and a majority of the concrete is in a state of disrepair making historic excavation areas difficult to identify.

Huckins Tool & Die

The interior portions of the Huckins Tool & Die property will be discussed first, followed by the exterior portions of the property. The single-story, steel and brick-constructed building comprised of approximately 18,000 square feet was constructed in 1928. The main access to the building is located near the southwest corner of the building. This entrance leads to the office area located on the west portion of the building. The remaining portion of the building is used for storage and manufacturing. A press machine is located on the southern portion of the manufacturing area. Some minor areas of staining were observed at the base of the press. Various tooling machines are located north of the press. Minor areas of staining were observed around the bases of the machines. The slab appeared to be intact near the stained areas. Mr. Huckins stated that he believed the slab was eight to twelve-in. thick. A circular area of patched concrete was observed centrally in the manufacturing area. Mr. Huckins stated that a storm sewer was located under the building that frequently backed up and flooded the building. Mr. Huckins stated that the sewer line was filled with concrete. Another area of patched concrete was located centrally in the facility. Mr. Huckins stated that this was the former location of a hydraulic lift. He stated that the lift and associated components were removed but he was not sure of the time period. Two additional areas of patching were observed on the east and west sides of the manufacturing area. Mr. Huckins stated that these were chain drives that were used to move vehicles through a wash prior to shipping when Studebaker used the building. An access to the tunnel system was located near the northeast corner of the building. According to Mr. Huckins, the tunnel extends eastward toward the South Bend Lathe Building. A minor area of staining was observed near the access way. An addition was constructed on the east side of the building in the 1970s. Liquid waste that is produced during the manufacturing process (hydraulic oil, cutting oils, and cutting solvent) is transported in five-gallon buckets from the workstations to an AST located on the northern portion of the addition. No major areas of staining were observed under the AST. A drum rack is located on the north wall of the addition. The rack was empty at the time of the reconnaissance; however, staining was observed under the drum rack. The slab appeared to be intact in the area of the drum rack. No trenches or floor drains were observed in the building and Mr. Huckins stated that no trenches or floor drains were present in the building.

The exterior of the property consists of a gravel-covered area located on the southern portion of the property and a grass-covered area on the west side of the building. A gravel and soil covered area is located on the north side of the building in the location of the 10,000-gallon oil tank that was

reportedly removed. The soil and gravel in the area appeared disturbed indicating an excavation had occurred in the area. No documentation was provided that confirmed the 10,000-gallon oil tank was removed or if a release may have occurred. A drywell is located near the northeast corner of the north building addition as shown on Figure 2. No signs of staining were observed near the drywell. A fill port and a vent pipe were observed near the northeast corner of the main building in the vicinity of another 10,000 UST reportedly containing oil. A second drywell was observed near the southeast corner of the east building addition as shown on Figure 2. A vent pipe was observed along the east wall of the main building near the location of a 5,000-gallon UST reportedly containing gasoline. What appeared to be a dust collector was observed near the southwest corner of the east building addition and the main building. A small pile of finely ground metal was observed under the dust collector. Mr. Huckins stated that the equipment located inside the building was to be auctioned off in approximately two weeks.

South Bend Lathe

The steel and brick constructed building, comprised of approximately 540,500 square feet under roof, was constructed in the 1920s. The main entrance to the South Bend Lathe building is located on the east side of the building. This is currently the office area and was historically the industrial relations portion of the building when used by Studebaker. A majority of the north part of the building is used for storage of equipment that is no longer in use at the facility. This area of the building was formerly the machine shop and engine assembly plant when used by Studebaker. A paint shop is located on the west half of the north portion of the building. No major areas of staining were observed in the paint shop. Manholes were observed during the building walkthrough that appeared to be associated with the underground electric line located under the building as shown on Figure 2. A boiler room is located on the southern wall of the building. A trench system and a drain are located on the northern wall of the boiler room. No major stains were observed in the trench system near the boilers. A heat treat room is located east of the boiler room. A pit was observed in the heat treat room with water visible approximately eight ft. deep. Mr. Knappenberger, stated that mineral spirits were used at different work stations located in the southeast portion of the building. A nozzle and a flexible line was attached to an approximately 3/4-in. line that leads to a UST system located south of the Engineering Building. No trenches or floor drains were observed in this area of the building. Mr. Knappenberger was not sure if mineral spirits have always been used in this process.

A gatehouse is located at the main access to the property near the northeast corner of the main building. The east side of the building is used as an asphalt-covered parking area. A majority of the exterior of the property is asphalt and concrete covered with a small grass-covered area located south of the building. A map review at the Studebaker Museum indicated two, 5,000-gallon USTs were located near the southeast corner of the main building. The contents of the tanks were not specified. No sign of these tanks were observed during the Site reconnaissance. A map provided by the City of South Bend indicates two, 5,000-gallon motor oil tanks are located approximately 170 ft. west of the southeast corner of the building. No signs of these tanks were observed during the Site reconnaissance. Catch basins were observed on the south side of the main building as shown on Figure 2. A report provided by the City of South Bend (EIS report 2295-5126-92) indicated that four USTs were located south of the main building. Fill ports and vent pipes were observed on the south side of the building that corresponded to the tank locations as shown of Figure 2.1 of the EIS report. Numerous woodbins containing metal shavings were observed on the south side of the building, east of the chip building. A trash bin located south of the woodbins also contained metal shavings. Heavy oil staining was observed around the base of the trash bin and light staining was observed near the base of the woodbins. Both of these areas drained to a catch basin located southwest of the woodbins and west of the trash bin as shown on Figure 2. A metal storage building is located approximately 200 ft. west of the trash bin. The majority of area between the trash bin and the metal storage building is grass covered. Areas of stressed vegetation and bare soil were located in this grass-covered area as shown on Figure 2. A concrete-covered area located immediately south of the main building and west of the chip building were observed during the Site reconnaissance. This area was shown on a map reviewed at the Studebaker Museum to be an access point to the tunnel system located under the property. An area of cattails approximately 35 ft. long is located approximately 30 ft. west of the access way. A catch basin leading to a drainage line approximately 15- ft. deep is located near the southwest corner of the main building. Another catch basin is located on the west side of the building near the dock. No signs of staining were observed near either of these catch basins.

5.1.2 Underground Storage Tanks

As stated previously in this report, seventeen USTs have been closed on the Allied Products Corp. property. No USTs are in use on the Huckins Tool & Die property, the Underground Pipe & Valve property or the Allied Products Corp. property. Mr. Knappenberger stated that a mineral spirits UST located on the south side of the Engineering Building was still in use and a waste oil storage tank on

the south side of the South Bend Lathe building was still in use. Two USTs are believed to be located at the Huckins Tool & Die property; five USTs are believed to be located on the Underground Pipe & Valve property; nine USTs are believed to be located on the South Bend Lathe property; and, nine USTs are believed to be located on the Allied Products Corp. property, some of which have been closed in-place.

5.1.3 Aboveground Storage Tanks

One aboveground storage tank (AST) is located at the Huckins Tool & Die property and is used to store oils and cutting solvent. Three empty ASTs are located on the South Bend Lathe property that were labeled as cyanide. The ASTs are located in the heat treat room. One AST was observed at the south end of the Allied Products Corp. property. A fuel oil odor was noted near the AST. Mr. Baker was unsure of the contents of the AST. Two ASTs are located north of the high bay portion of the Underground Pipe & Valve building. One AST contains gasoline and the other contains diesel. No major signs of staining were observed near any of the ASTs located on the properties.

5.1.4 Polychlorinated Biphenyls

Polychlorinated biphenyls (PCBs) are commonly associated with oil in older transformers and capacitors and may be released to the environment from slow leaks or upon failure of such devices. Transformers located on the Site have been tested and are labeled as housing PCB-containing fluid. Transformer rooms were entered on the Site and the transformers appeared to be in relatively good condition and no obvious signs of staining were observed under the transformers. Mr. Baker stated that he is unaware of any releases from the transformers.

5.1.5 Asbestos

A visual inspection was made during Site reconnaissance for evidence of potential asbestos containing materials (ACMs). Friable asbestos is defined as material containing more than one percent asbestos by weight that hand pressure can crumble, pulverize, or reduce to powder when dry. Asbestos covered with a hard material or coating is considered non-friable.

Exposed piping observed in the buildings appeared to be insulated with asbestos containing materials. Potential asbestos containing material observed during the building walkthroughs also includes, but is not necessarily limited to, drywall, ceiling tile, floor tile and roofing material. A

more detailed survey may reveal additional potential ACMs. Pipes located behind walls were not observed and may be insulated with potential ACMs. Confirmation of potential ACMs can only be accomplished through laboratory analysis. An asbestos survey and notification to the appropriate regulatory agency is required prior to demolition per NESHAP.

6.0 FINDINGS AND CONCLUSIONS

HAI performed a Phase I Environmental Site Assessment of the Area A properties located south of Sample Street, east of Prairie Avenue, north of Conrail and west of Franklin Street in South Bend, Indiana. The assessment was conducted to evaluate the presence of RECs from current and past operations associated with the Site and was consistent with the ASTM Standard Practice E1527-00 *Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The assessment was based on information gained by HAI personnel from a review of public documents, files, photographs, and maps; correspondence with regulatory agencies; a review of an environmental regulatory database search report; interviews with the operators of the Site and local personnel; and a reconnaissance of the Site.

Background historical information on the Site is presented in Section 2.0. A description of the physical setting of the Site is presented in Section 3.0. The findings of a review of environmental records are presented in Section 4.0. Finally, a description of the Site investigation including the Site reconnaissance is presented in Section 5.0.

Based on the information provided in this report, the following recognized environmental conditions, shown on Figure 3, were revealed:

TABLE 3
RECOGNIZED ENVIRONMENTAL CONDITIONS

REC	REC Item	Potential Chemicals of Concern
<i>Huckins Tool & Die Property(Property A)</i>		
A1	10,000-gallon UST reportedly stored oil was located on the north portion of the Huckins Tool & Die property	TPH, VOCs
A2	Drywell located north of the Huckins building	VOCs, SVOCs, TPH, metals
A3	10,000-gallon UST reportedly stored oil was located near the exterior northeast corner of the Huckins Tool & Die building	TPH, VOCs
A4	Drywell located east of the east building addition	VOCs, SVOCs, TPH, metals
A5	Dust collector and metal shavings located at the exterior southwest corner of the east building addition	metals, VOCs
A6	5,000-gallon UST reportedly stored gasoline is located east of the south portion of the building	TPH, VOC, lead
A7	Former hydraulic lift located centrally in the Huckins Tool & Die building	TPH, VOCs, PCBs
A8	Former rails located on the east portion of the property	metals, SVOCs

REC	REC Item	Potential Chemicals of Concern
<i>Underground Pipe & Valve Property (Property B)</i>		
B1	500-gallon UST reportedly stored gasoline, located north of the west portion of the main building	TPH, VOCs, lead
B2	10,000-gallon UST reportedly stored fuel oil, located north of the east portion of the main building	TPH, VOCs
B3	Three, 10,000-gallon core oil tanks located north of the east portion of the main building	TPH, VOCs
B4	A pit with a steel-plate cover located northwest of the former pumphouse	TPH, VOCs, SVOCs
B5	Former rails located on the east and north portions of the property	metals, SVOCs
B6	Two outfalls from the direction of the facility to the reservoir located on the southwest portion of the property	metals, VOCs, SVOCs
B7	Half-buried metal structure (potential tank) located in the east wall of the reservoir	VOCs, TPH, lead
B8	Numerous pits located inside the foundry filled with wood and metal debris	VOCs, SVOCs, metals
B9	Bins with sand and potential historic coke pits located at the eastern portion of the Underground Pipe & Valve building	metals, VOCs, SVOCs, TPH
B10	Four historic ASTs located at the south end of the Underground Pipe & Valve building	metals, VOCs, SVOCs, TPH
<i>South Bend Lathe (Property C)</i>		
C1	2 5,000-gallon USTs with unknown contents located east of the southern portion of the building	VOCs, SVOCs, metals, TPH
C2	3,000-gallon gasoline tank located south of the Engineering Building	VOCs, SVOCs, TPH, lead
C3	2 8,000-gallon USTs of unknown contents located south of the Engineering Building	VOCs, SVOCs, metals, TPH
C4	2 5,000-gallon USTs reportedly containing motor oil, located south of the eastern portion of the building	VOCs, SVOCs, TPH
C5	20,000-gallon UST reportedly containing fuel oil, located north of the AEP property	VOCs, SVOCs, TPH
C6	2 20,000-gallon USTs reportedly containing fuel oil, located west of the AEP property	VOCs, SVOCs, TPH
C7	Heavy oil staining by the trash bin containing metal shavings and associated catch basin	VOCs, SVOCs, metals, TPH
C8	Oil staining by the wood bins located east of the chip house on the south side of the main building and associated catch basin	VOCs, SVOCs, metals, TPH
C9	Areas of stressed vegetation and bare soil located between the AEP property and the metal storage building	VOCs, SVOCs, metals, TPH
C10	6,000-gallon UST reportedly containing waste oil, located south of the west portion of the building	VOCs, SVOCs, TPH
C11	Former rails located on the west and east portions of the property	metals, SVOCs

REC	REC Item	Potential Chemicals of Concern
C12	Pit located in the heat treat room located in the south portion of the main building	VOCs, SVOCs, metals
C13	Potential releases from PCB-containing transformers located in the building	PCBs
<i>Allied Products Corporation Property (Property D)</i>		
D1	20,000-gallon UST reportedly containing heating oil located near the northwest corner of Building 78	VOCs, SVOCs, TPH
D2	Potential UST of unknown size and contents located south of Building 78 approximately 130 ft. west of the southeast corner of the building	VOCs, SVOCs, metals, TPH
D3	10,000-gallon enamel reducer tank (removed), located on the northeast portion of the property	VOCs, SVOCs, TPH
D4	Former and current rails located on the property	metals and SVOCs
D5	6,000-gallon enamel reducer tank, located west of the south end of Building 79	VOCs, SVOCs, TPH
D6	Tank farm formerly comprised ten USTs reportedly containing gasoline and kerosene	VOCs, SVOCs, TPH, lead
D7	Catch basin with an oily sheen located west of Building 80	VOCs, TPH
D8	4 4,000-gallon USTs reportedly containing TCE and fuel oil locate west of Building 86	VOCs, SVOCs, TPH
D9	5,000-gallon UST reportedly containing gasoline, located east of the central portion of Building 86	VOCs, SVOCs, TPH, lead
D10	5,000-gallon UST reportedly containing diesel fuel, located east of Building 93	VOCs, SVOCs, TPH
D11	Potential releases from PCB-containing transformers	PCBs
D12	Press pits with petroleum product located inside building 80	VOCs, TPH, metals
D13	Oil change pit located near the northeast corner of Building 93	VOCs, TPH
D14	Former die wash area located at the south end of Building 142	VOCs, TPH, SVOCs
D15	Press pits with petroleum product located in Building 142	VOCs, TPH, SVOCs
D16	Press pits with petroleum product located in Building 86	VOCs, TPH, SVOCs
D17	Three potential drywells located in the southern portion of Building 79.	VOCs, TPH, SVOCs, metals
D18	Potential releases from ASTs and 55-gallon drums located south of Building 93.	VOCs, TPH, SVOCs
D19	Potential releases from ASTs that were historically located at the south end of Building 93.	VOCs, SVOCs

Note that numerous fifty-five gallon drums, some of which were unlabeled and an approximately 200-gallon AST were observed on the Site. If these containers were intended to be discarded, they would require proper characterization and disposal.

7.0 STANDARD OF CARE AND LIMITATIONS

The conclusions and recommendations presented herein are based on the level of effort and investigative techniques using that degree of care and skill ordinarily exercised under similar conditions by reputable members of the profession practicing in the same or similar locality at the time of service. No other warranty, express or implied, is made or intended by this report. An evaluation of past or present compliance with federal, state, or local environmental or land use laws or regulations has not been conducted. Conclusions presented by HAI regarding the investigated Site are consistent with the Scope of Work, level of effort specified, and investigative techniques employed. Reports, opinions, letters, and other documents do not evaluate the presence or absence of any compound or parameter not specifically analyzed and reported. Specifically, the presence of radiation, radon, lead, electromagnetic fields, and indoor air pollution has not been investigated. HAI makes no guarantees regarding the completeness or accuracy of any information obtained from public or private files or information provided by subcontractors. In addition, HAI makes no guarantees on the condition of the Site or changes in Site records after the date reviewed as indicated in the report.

Furthermore, this report is prepared for, and made available for the sole use of the City of South Bend. The contents thereof may not be used or relied upon by any other person or entity without the express written consent and authorization of the City of South Bend and HAI.

8.0 REFERENCES

A variety of technical documents and publications were referred to during the course of this project. Some of the references consulted are presented below. Referenced documents and publications may or may not have been reviewed in their entirety. The guidelines and procedures presented in the documents and publications referenced have not been strictly adhered to unless stated otherwise.

8.1 Documents

American Society for Testing and Materials, "*E1527 Environmental Site Assessments: Phase I Environmental Site Assessment*," 2000.

APT, Site Investigation Report, Indiana Voluntary Remediation Program, "*Allied Products Corporation Stamping Facility, South Bend, Indiana*," Project Number 8708, May 1995.

ATEC, "*Interim Phase I Environmental Site Assessment, Studebaker Corridor, South Bend, Indiana. ATEC Project Number 21-07262*". No date provided.

ATEC, "*Initial Phase II Final Report, Lot One Studebaker Corridor, South Bend Indiana. ATEC Project Numbers 21-07458, 21-07460 and 21-07461*," March 1991.

Department of the Interior, United States Geological Survey, 7.5 Minute Series (Topographic) Maps. "*South Bend West and South Bend East, Indiana, Quadrangle*," 1969 (Photo revised 1986) and 1992, respectively.

EIS Environmental Engineers, Inc., "*Environmental Investigation, South bBend Lathe, 400 West Sample Street, South Bend, Indiana*," Document number 2295-5126-92. July 1992.

EIS Environmental Engineers, Inc., "*Phase II Investigation at Former Transwestern Building Site, South Bend, Indiana, Attachments*," August 1995.

Environmental Data Resources, Inc., "*Phase I ESA Radial Search Report/ASTM Radii*," Report Inquiry Number 0562243.4r, November 10, 2000.

Environmental Data Resources, Inc., "*Sanborn Map Report*," Inquiry Number: 562243.5S November 10, 2000.

Flood Insurance Rate Map: City of South Bend, Indiana, St. Joseph County. 1988. Panel Number 180231 0004.

St. Joseph County Soil Conservation Service, "*Soil Descriptions*."

8.2 Personal Communications

Mr. John Baker, Allied Products Corp., *Interview, November 20 and 29, 2000.*

Andrew Beckman, Curator of Collections, Studebaker National Museum, November 29 and November 30, 2000.

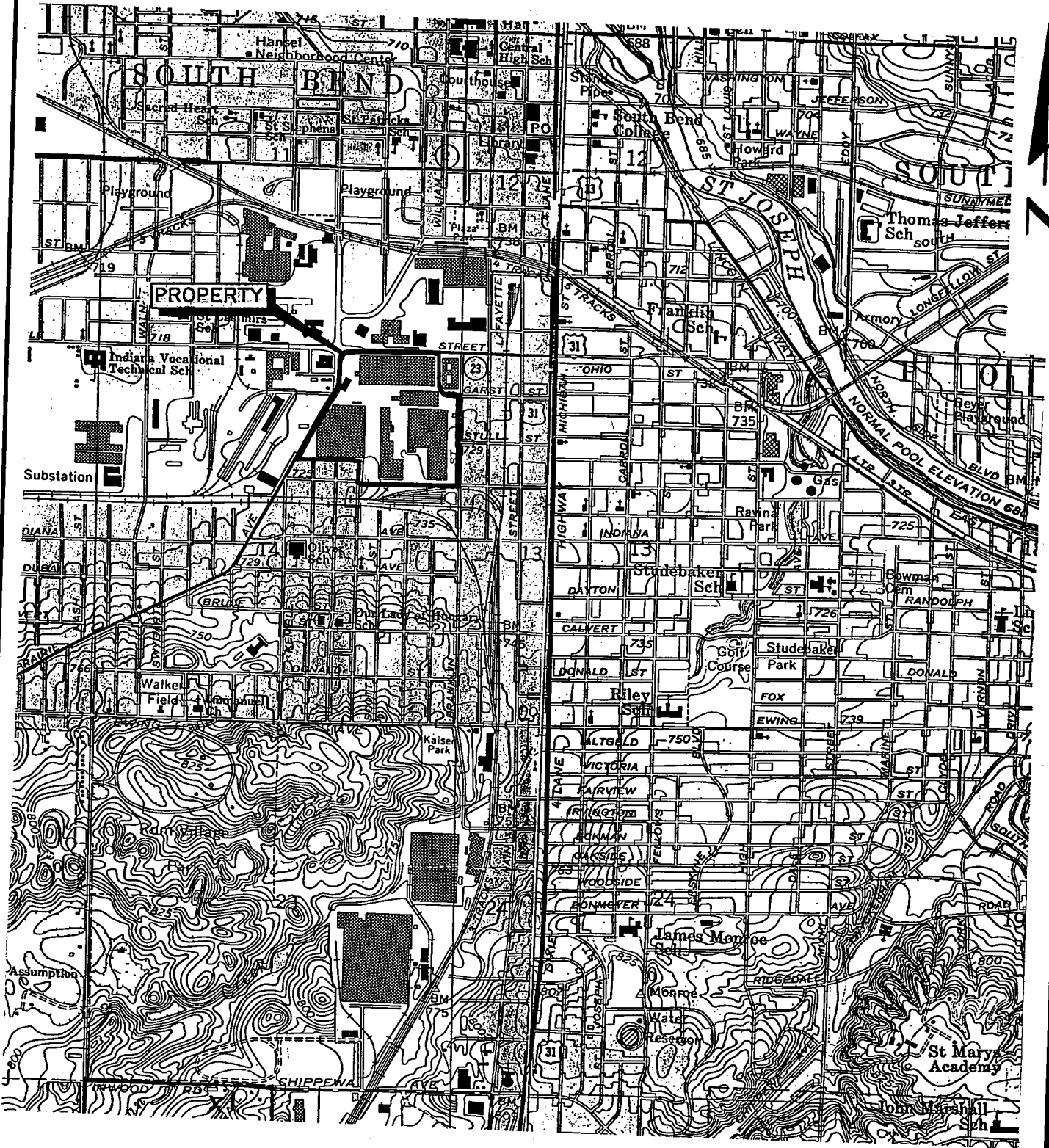
Mr. Jim Butler, Underground Pipe & Valve, *Interview, November 21, 2000.*

Mr. Jay Huckins, Huckins Tool & Die, *Interview, November 20, 2000.*

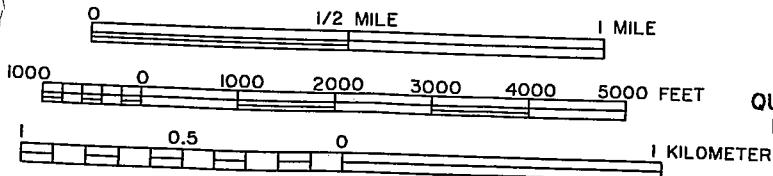
Mr. Dale Knappenberger, South Bend Lathe, *Interview, November 21, 2000.*

South Bend Department of Building Maintenance, December 14, 2000.

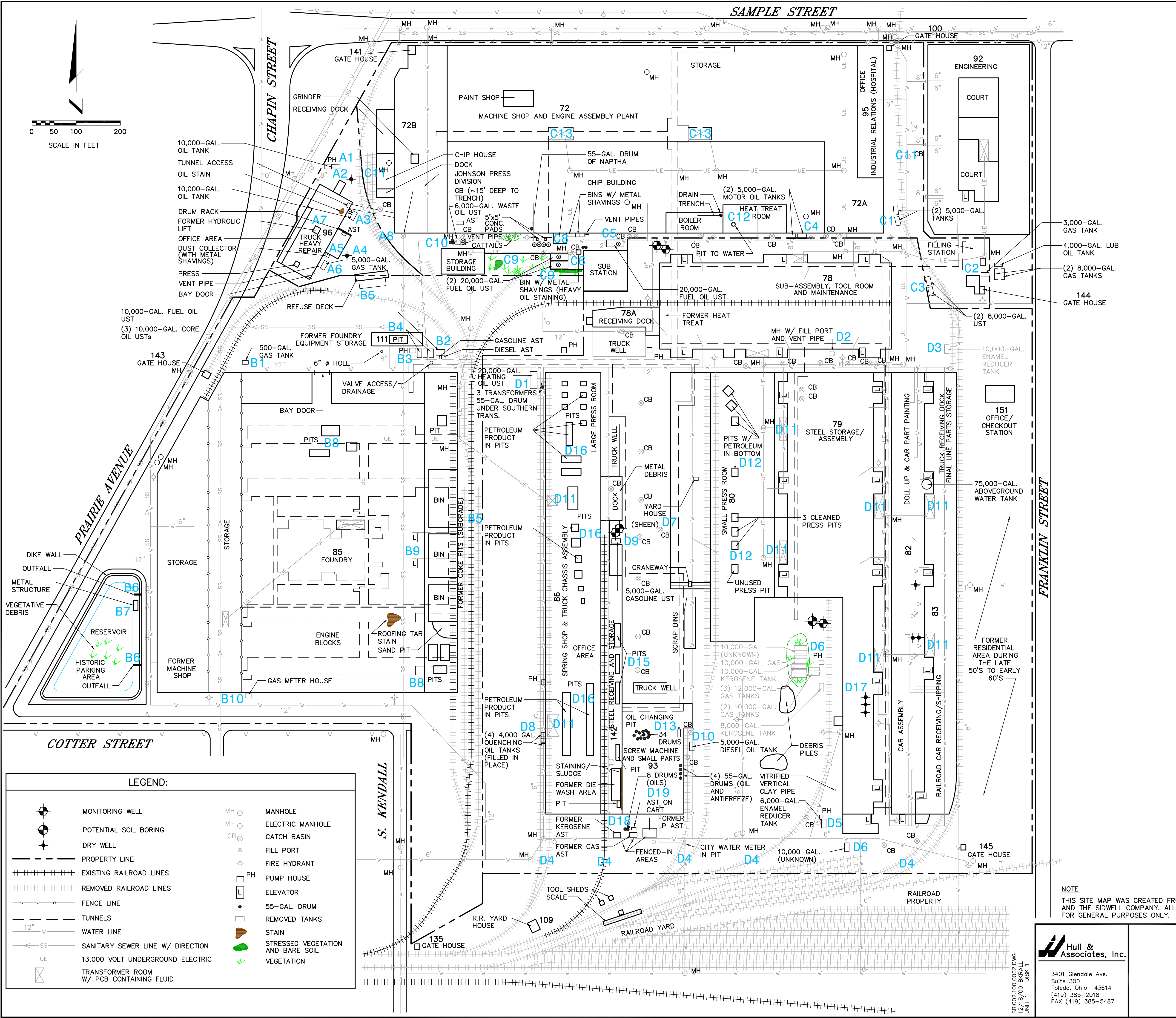
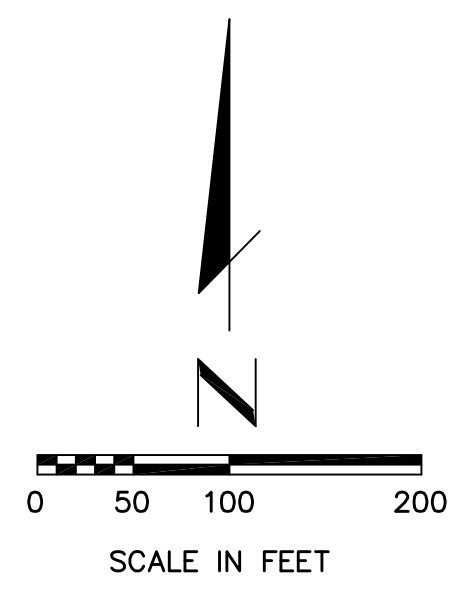
South Bend Environmental Services, November 29, 2000.



TAKEN FROM U.S.G.S. 7.5 MIN. QUAD MAP
SOUTH BEND EAST, INDIANA - 1958
SOUTH BEND WEST, INDIANA - 1969



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PHASE I ENVIRONMENTAL SITE ASSESSMENT
FIGURE I
AREA A PROPERTIES
CITY OF SOUTH BEND, ST. JOSEPH CO., INDIANA
DATE:
DECEMBER 2000



(REC)	(REC) RECOGNIZED ENVIRONMENTAL CONDITION ITEM
HUCKINS TOOL & DIE PROPERTY (PROPERTY A)	
A1	10,000-GALLON UST REPORTEDLY STORED OIL WAS LOCATED ON THE NORTH PORTION OF THE HUCKINS PROPERTY
A2	DRYWELL LOCATED NORTH OF THE HUCKINS PROPERTY
A3	10,000-GALLON UST REPORTEDLY STORED OIL WAS LOCATED NEAR THE EXTERIOR NORTHEAST CORNER OF THE HUCKINS PROPERTY
A4	DRYWELL LOCATED EAST OF THE EAST BUILDING ADDITION
A5	DUST COLLECTOR AND METAL SHAVINGS LOCATED AT THE EXTERIOR SOUTHWEST CORNER OF THE EAST BUILDING ADDITION
A6	5,000-GALLON UST REPORTEDLY STORED GASOLINE IS LOCATED IN THE SOUTH PORTION OF THE BUILDING
A7	FORMER HYDRAULIC LIFT LOCATED CENTRALLY IN THE HUCKINS BUILDING
A8	FORMER RAILS LOCATED ON THE EAST PORTION OF THE PROPERTY
UNDERGROUND PIPE & VALVE PROPERTY (PROPERTY B)	
B1	500-GALLON UST REPORTEDLY STORED GAS, LOCATED NORTH OF THE WEST PORTION OF THE MAIN BUILDING
B2	10,000 GALLON UST REPORTEDLY STORED FUEL OIL, LOCATED NORTH OF THE EAST PORTION OF THE MAIN BUILDING
B3	THREE 10,000-GALLON CORE OIL TANKS LOCATED NORTH OF THE EAST PORTION OF THE MAIN BUILDING
B4	A PIT WITH STEEL-PLATE COVER LOCATED NORTHWEST OF THE FORMER PUMP HOUSE
B5	FORMER RAILS LOCATED ON THE EAST AND NORTH PORTIONS OF THE PROPERTY
B6	TWO OUTFALLS FROM THE DIRECTION OF THE FACILITY TO THE RESERVOIR LOCATED ON THE SOUTHWEST PORTION OF THE PROPERTY
B7	HALF-BURIED METAL STRUCTURE (POTENTIAL TANK) LOCATED IN THE EAST WALL OF THE RESERVOIR
B8	NUMEROUS PITS LOCATED INSIDE THE FOUNDRY FILLED WITH WOOD AND METAL DEBRIS
B9	BINS WITH SAND AND POTENTIAL HISTORIC COKE PITS LOCATED AT THE EASTERN PORTION OF THE U P & V BUILDING
B10	FOUR HISTORIC ASTs LOCATED AT THE SOUTH END OF THE BUILDING
SOUTH BEND LATHE PROPERTY (PROPERTY C)	
C1	TWO 5,000-GALLON USTs WITH UNKNOWN CONTENTS LOCATED EAST OF THE SOUTHERN PORTION OF THE BUILDING
C2	3,000-GALLON GAS TANK LOCATED SOUTH OF THE ENGINEERING BUILDING
C3	TWO 8,000-GALLON USTs OF UNKNOWN CONTENTS LOCATED SOUTH OF THE ENGINEERING BUILDING
C4	TWO 5,000 GALLON USTs REPORTEDLY CONTAINING MOTOR OIL, LOCATED SOUTH OF THE EASTERN PORTION OF THE BUILDING
C5	20,000-GALLON UST REPORTEDLY CONTAINING FUEL OIL, LOCATED NORTH OF THE AEP PROPERTY
C6	TWO 20,000-GALLON USTs REPORTEDLY CONTAINING FUEL OIL, LOCATED WEST OF THE AEP PROPERTY
C7	HEAVY OIL STAINING BY THE TRASH BIN CONTAINING METAL SHAVINGS AND ASSOCIATED CATCH BASIN
C8	OIL STAINING BY THE WOOD BINS LOCATED EAST OF THE CHIP HOUSE ON THE SOUTH SIDE OF THE MAIN BUILDING AND ASSOCIATED CATCH BASIN
C9	AREAS OF STRESSED VEGETATION AND BARE SOIL LOCATED BETWEEN THE AEP PROPERTY AND THE METAL STORAGE BUILDING
C10	6,000-GALLON UST REPORTEDLY CONTAINING WASTE OIL, LOCATED SOUTH OF THE WEST PORTION OF THE BUILDING
C11	FORMER RAILS LOCATED ON THE WEST AND EAST PORTIONS OF THE PROPERTY
C12	PIT LOCATED IN THE HEAT TREAT ROOM LOCATED IN THE SOUTH PORTION OF THE MAIN BUILDING
C13	POTENTIAL RELEASES FROM THE PCB-CONTAINING TRANSFORMERS LOCATED IN THE BUILDING
ALLIED CORPORATION PROPERTY (PROPERTY D)	
D1	20,000-GALLON UST REPORTEDLY CONTAINING HEATING OIL LOCATED NEAR THE NORTHWEST CORNER OF BUILDING 78
D2	POTENTIAL UST OF UNKNOWN SIZE AND CONTENTS LOCATED SOUTH OF BUILDING 78 APPROX. 130 FEET WEST OF THE SOUTHEAST CORNER OF THE BUILDING
D3	10,000-GALLON ENAMEL REDUCER TANK (REMOVED), LOCATED ON THE NORTHEAST PORTION OF THE PROPERTY
D4	FORMER AND CURRENT RAILS LOCATED ON THE PROPERTY
D5	6,000-GALLON ENAMEL REDUCER TANK, LOCATED WEST OF THE SOUTH END OF BUILDING 79
D6	TANK FARM FORMERLY COMPRISED TEN USTs REPORTEDLY CONTAINING GASOLINE AND KEROSENE
D7	CATCH BASIN WITH AN OILY SHEEN LOCATED WEST OF BUILDING 80
D8	FOUR 4,000-GALLON USTs REPORTEDLY CONTAINING TCE AND FUEL OIL LOCATED WEST OF BUILDING 86
D9	5,000-GALLON UST REPORTEDLY CONTAINING GASOLINE, LOCATED EAST OF THE CENTRAL PORTION OF BUILDING 86
D10	5,000-GALLON UST REPORTEDLY CONTAINING DIESEL FUEL, LOCATED EAST OF BUILDING 93
D11	POTENTIAL RELEASES FROM PCB-CONTAINING TRANSFORMERS
D12	PRESS PITS WITH PETROLEUM PRODUCT LOCATED INSIDE BUILDING 80
D13	OIL CHANGE PIT LOCATED NEAR THE NORTHEAST CORNER OF BUILDING 93
D14	FORMER DIE WASH AREA LOCATED AT THE SOUTH END OF BUILDING 80
D15	PRESS PITS WITH PETROLEUM PRODUCT LOCATED INSIDE BUILDING 142
D16	PRESS PITS WITH PETROLEUM PRODUCT LOCATED INSIDE BUILDING 86
D17	THREE POTENTIAL DRYWELLS LOCATED IN THE SOUTHERN PORTION OF BUILDING 79
D18	POTENTIAL RELEASES FORM ASTs AND 55-GALLON DRUMS LOCATED SOUTH OF BUILDING 93
D19	POTENTIAL RELEASES FROM SOLVENT ASTs HISTORICALLY LOCATED AT THE SOUTH END OF BUILDING 93

NOTE

THIS SITE MAP WAS CREATED FROM DRAWINGS PROVIDED BY C. RIGHTLEY, C.A. McCARRISON (DRAWING #56652, 6/48), AND THE SIDWELL COMPANY. ALL INFORMATION REPRESENTED ON THIS DRAWING IS APPROXIMATE AND SHOULD BE USED FOR GENERAL PURPOSES ONLY.

LEGEND:

	MONITORING WELL		MANHOLE
	POTENTIAL SOIL BORING		ELECTRIC MANHOLE
	DRY WELL		CATCH BASIN
	PROPERTY LINE		FILL PORT
	EXISTING RAILROAD LINES		FIRE HYDRANT
	REMOVED RAILROAD LINES		PUMP HOUSE
	FENCE LINE		ELEVATOR
	TUNNELS		55-GAL. DRUM
	WATER LINE		REMOVED TANKS
	SANITARY SEWER LINE W/ DIRECTION		STAIN
	13,000 VOLT UNDERGROUND ELECTRIC		STRESSED VEGETATION AND BARE SOIL
	TRANSFORMER ROOM W/ PCB CONTAINING FLUID		VEGETATION

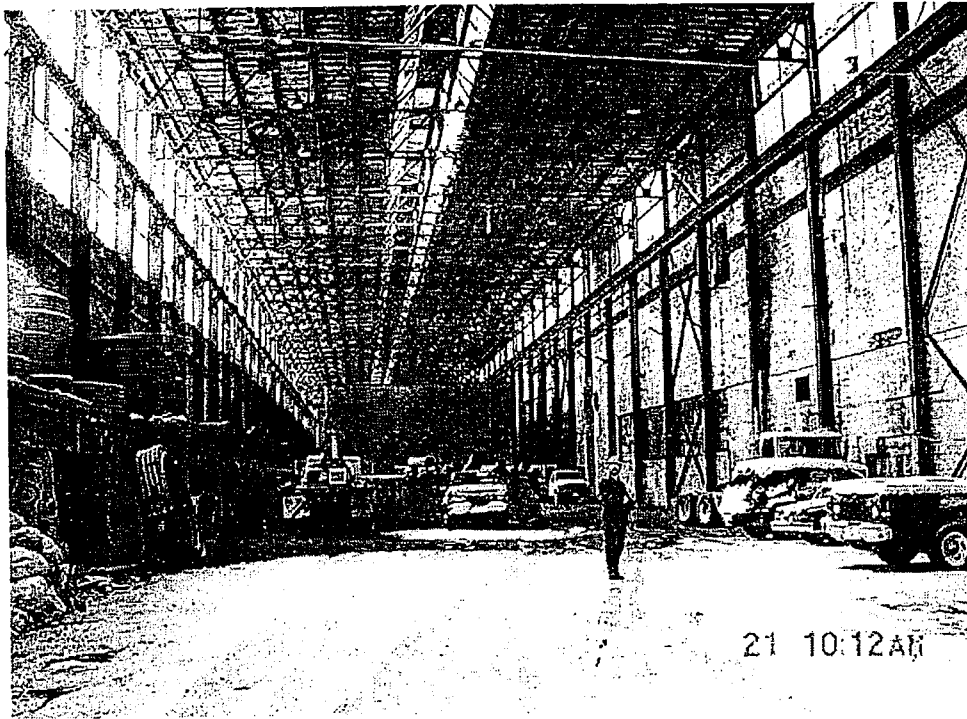
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 3401 Glendale Ave.
 Suite 300
 Toledo, Ohio 43614
 (419) 385-2018
 FAX (419) 385-5487

LAYOUT	REVISIONS	Hull & Associates, Inc.	
MC		TOLEDO, OHIO	
DRAWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT AREA A	
BK		RECOGNIZED ENVIRONMENTAL CONDITIONS PLAN	
CHECKED		SOUTH BEND, ST. JOSEPH COUNTY, INDIANA	
CHK		DATE:	SHEET OF
SCALE		DECEMBER 2000	1 / 1
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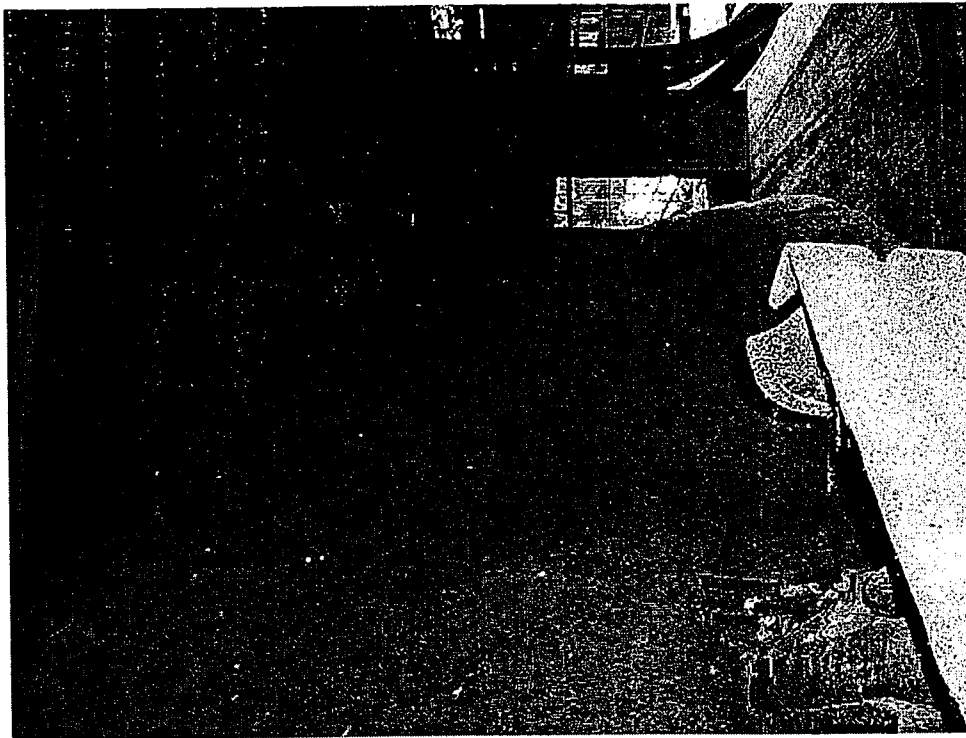
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APPENDIX A

Site Photographs



1. VIEW OF THE HIGH BAY LOCATED AT THE EAST END OF THE UNDERGROUND PIPE & VALVE BUILDING.



2. VIEW OF THE SAND PILE LOCATED IN THE UNDERGROUND PIPE & VALVE PROPERTY.

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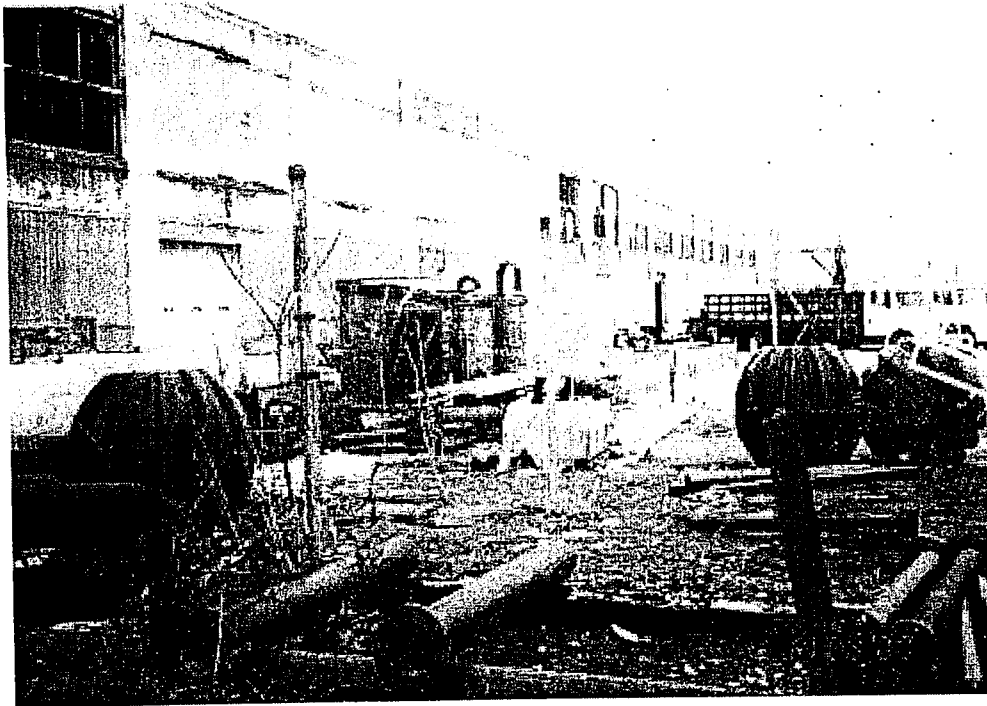
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AREA A
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CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

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3. VIEW OF THE VENT PIPES ASSOCIATED WITH THE USTS LOCATED NORTH OF THE EAST PORTION OF THE UNDERGROUND PIPE & VALVE BUILDING.



4. VIEW OF ONE OF THE OUTFALLS TO THE RESERVIOR LOCATED ON THE SOUTHWEST PORTION OF UNDERGROUND PIPE & VALVE PROPERTY.

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5. VIEW OF SOLID WASTE LOCATED IN THE RESERVOIR LOCATED ON THE SOUTHWEST PORTION OF THE UNDERGROUND PIPE & VALVE PROPERTY.



6. VIEW OF THE SOUTH DIKE WALL OF THE RESERVOIR LOCATED ON THE SOUTHWEST PORTION OF THE UNDERGROUND PIPE & VALVE PROPERTY.

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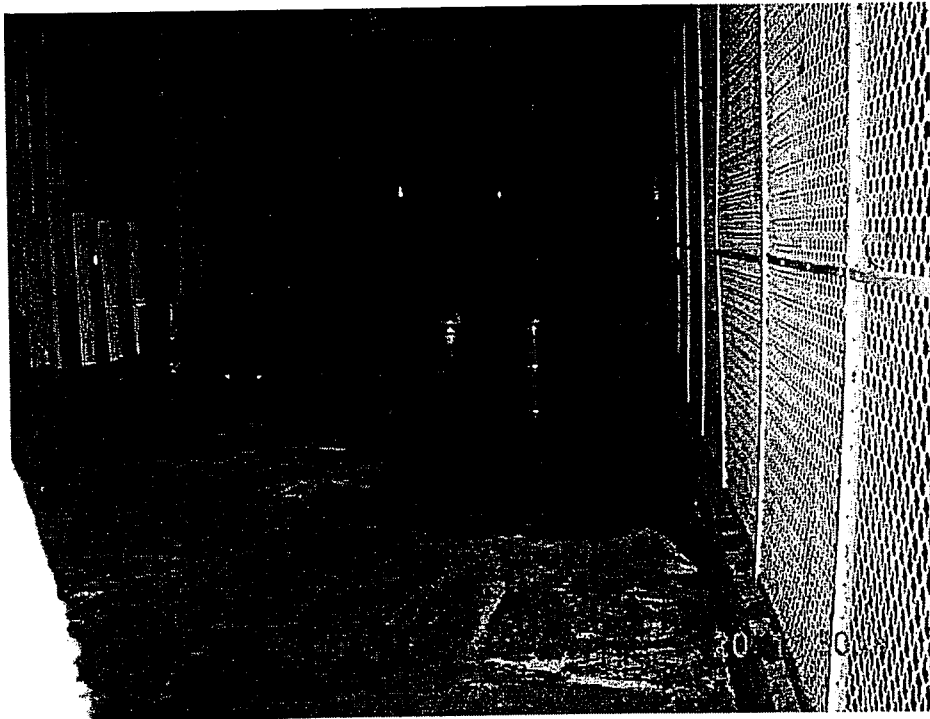
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7. VIEW OF THE RESERVOIR LOCATED ON THE UNDERGROUND PIPE & VALVE PROPERTY.



8. VIEW OF THE DRUM STORAGE AREA LOCATED INSIDE BUILDING 79.

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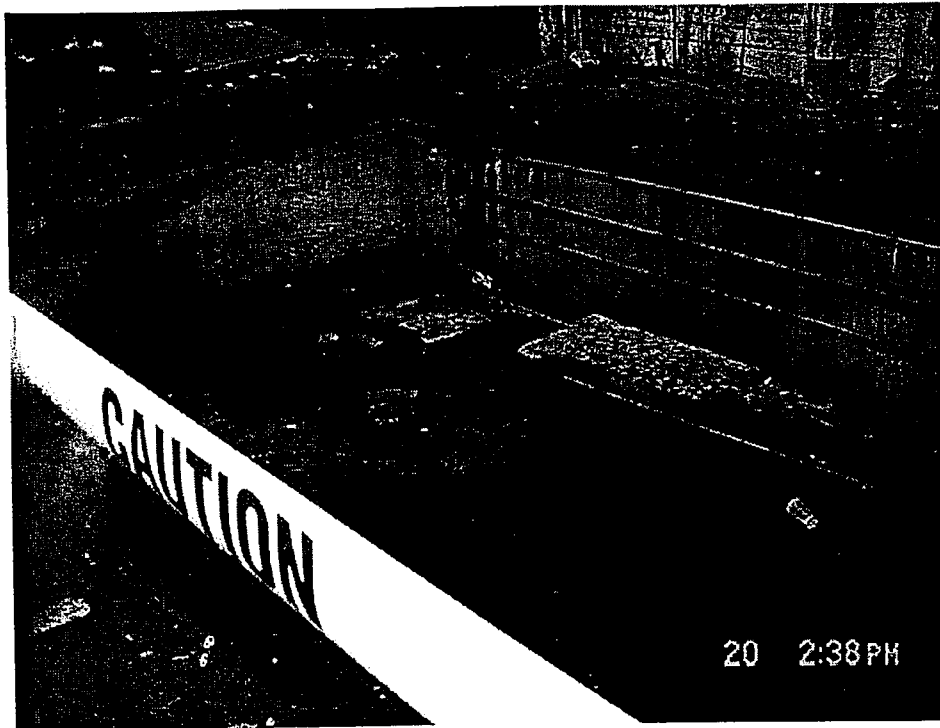
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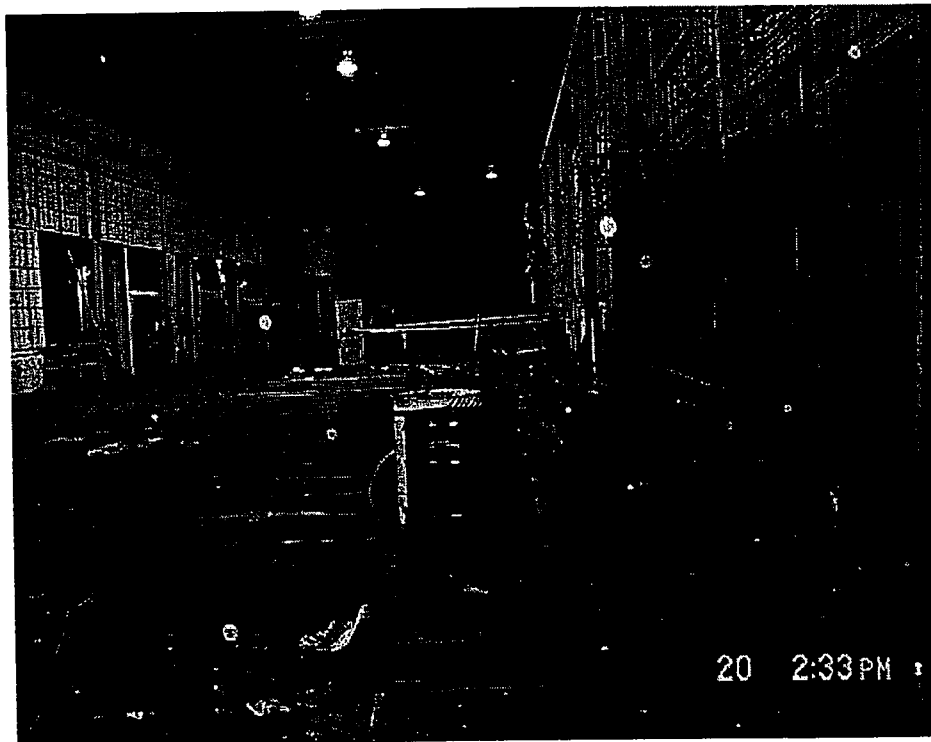
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9. VIEW OF A TYPICAL PRESS PIT FILLED WITH PETROLEUM PRODUCT LOCATED ON THE ALLIED PRODUCTS CORP. PROPERTY.



10. VIEW OF THE DIE WASH AREA LOCATED IN THE SOUTHERN PORTION OF BUILDING 142.

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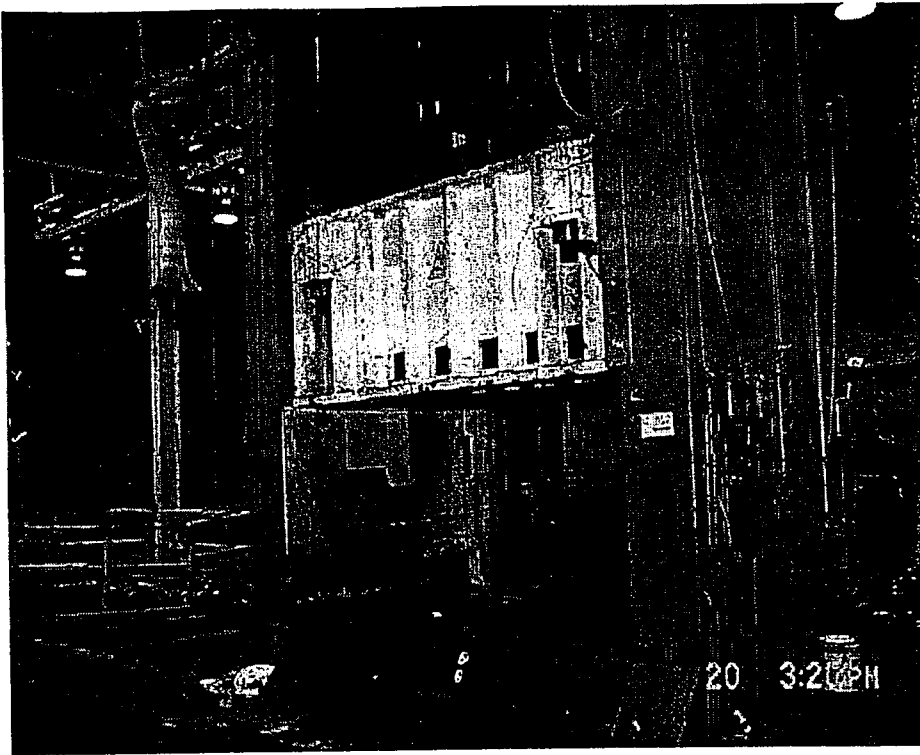
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11. VIEW OF A PRESS LOCATED INSIDE BUILDING 86.



12. VIEW OF METAL PIECES AND A TANK IN A PRESS PIT LOCATED IN BUILDING 86.

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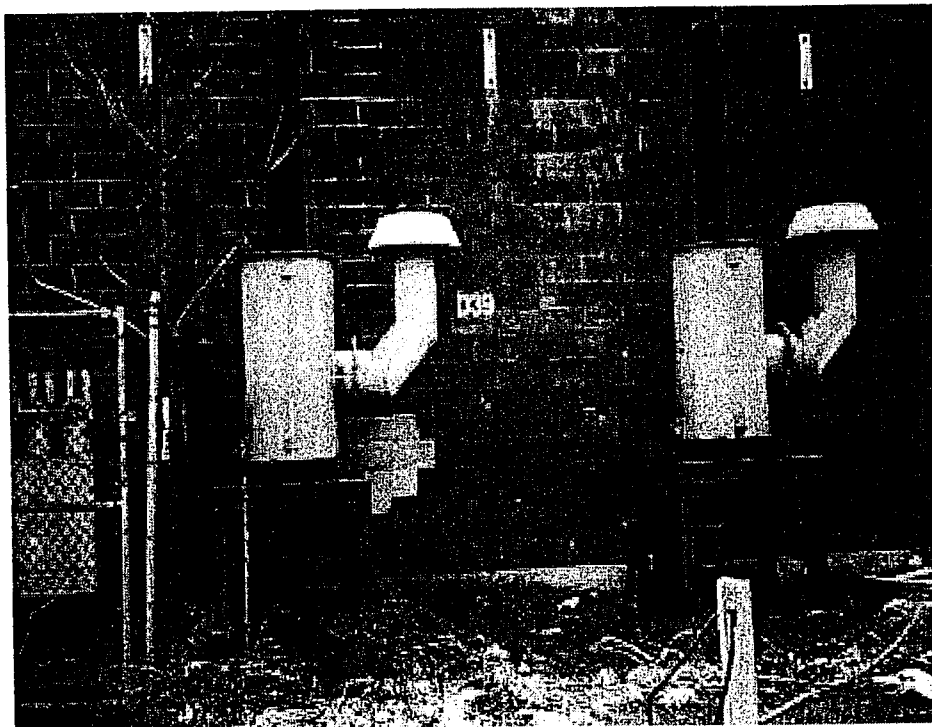
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13. VIEW OF PILES OF SOILD WASTE LOCATED ON THE ALLIED PRODUCTS CORP. PROPERTY BETWEEN THE EAST AND WEST BUILDINGS.



14. VIEW OF TRANSFORMERS LOCATED NEAR THE NORTHWEST CORNER OF BUILDING 86.

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15. VIEW OF 55-GALLON DRUMS LOCATED SOUTH OF BUILDING 93.



16. VIEW OF A VENT PIPE LOCATED SOUTH OF BUILDING 78.

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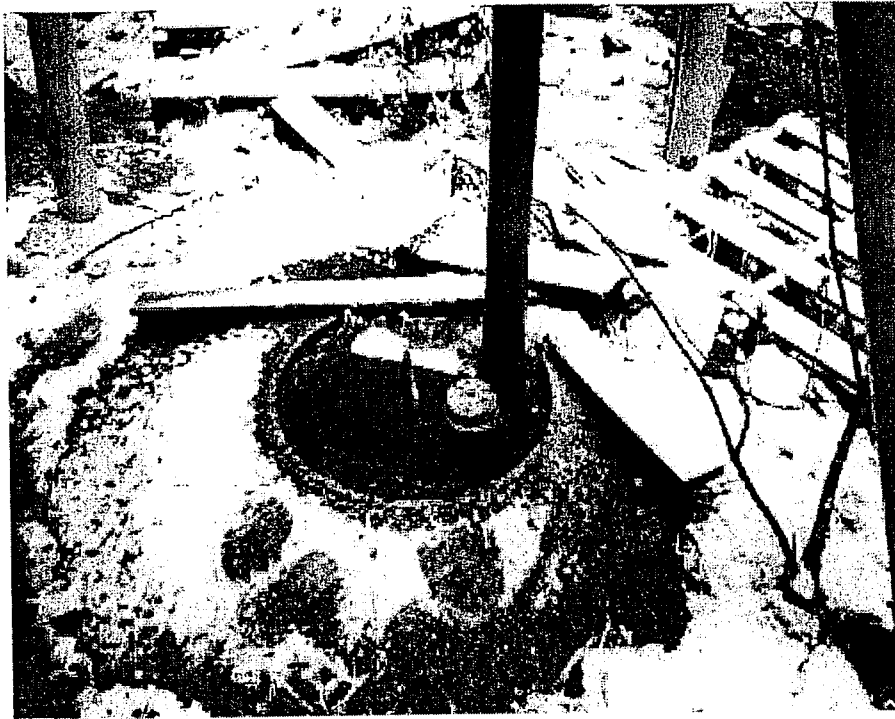
AREA A

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17. VIEW OF THE MANHOLE AND FILL PORT LOCATED SOUTH OF BUILDING 78.



18. VIEW OF A PLUGGED SEWER LINE LOCATED CENTRALLY IN THE HUCKINS TOOL & DIE BUILDING.

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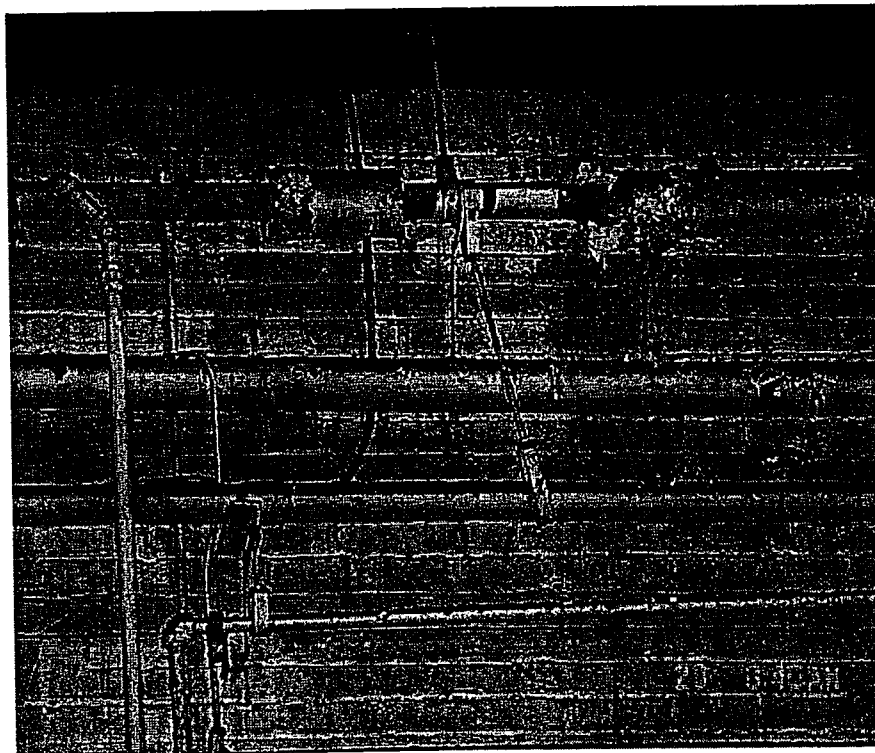
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DECEMBER 2000

SB10*



19. VIEW OF THE FORMER HYDRAULIC LIFT AREA LOCATED IN THE HUCKINS TOOL & DIE BUILDING.



20. VIEW OF POTENTIAL ACM LOCATED IN THE HUCKINS TOOL & DIE BUILDING.

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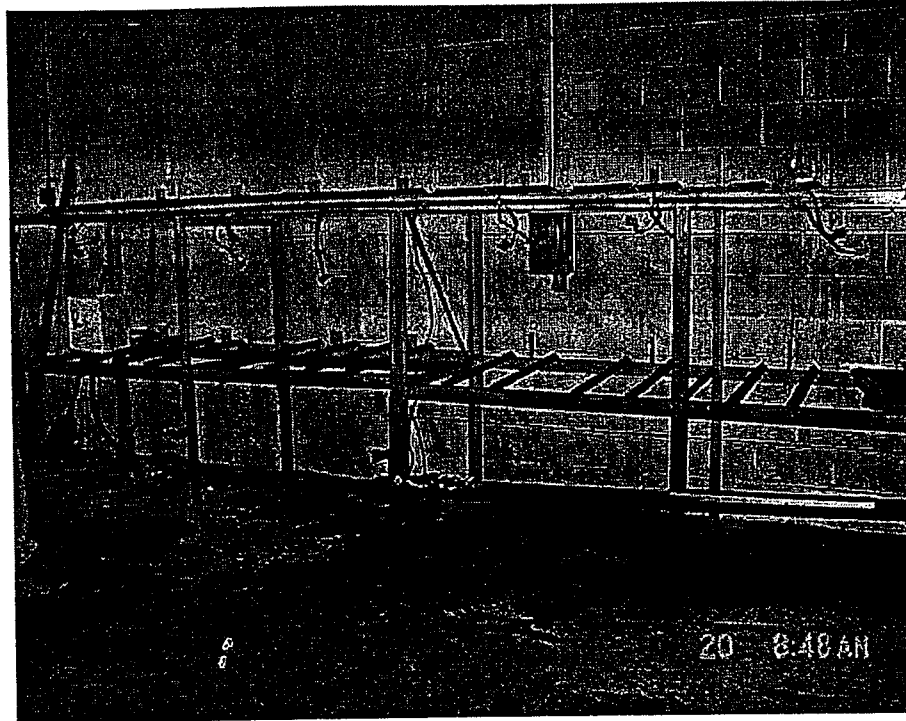
AREA A

SITE PHOTOGRAPHS

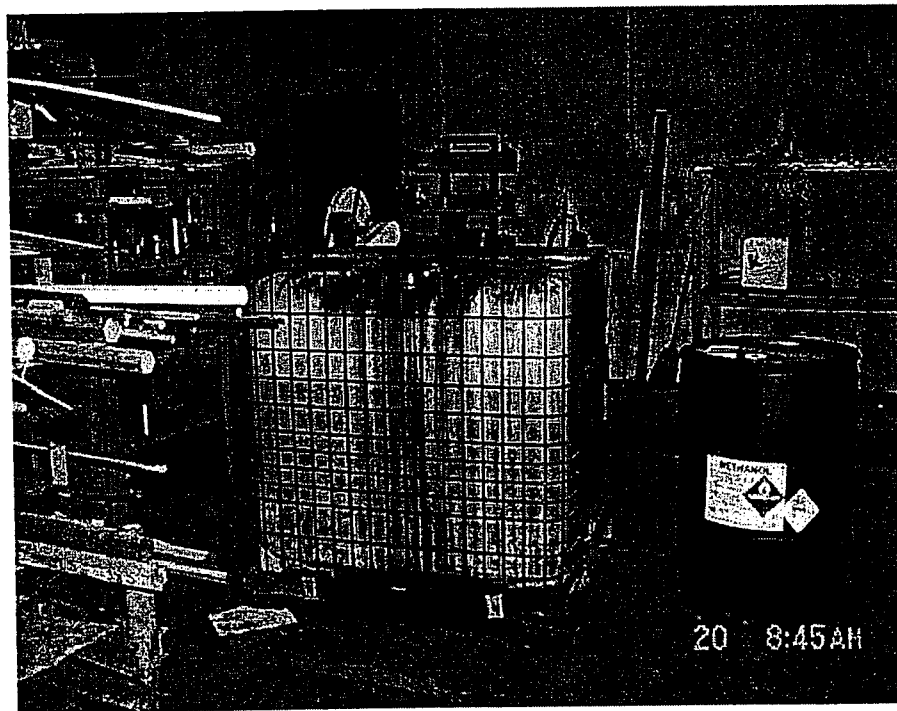
CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SB10



21. VIEW OF THE DRUM RACK LOCATED IN THE EAST BUILDING ADDITION AT THE HUCKINS TOOL & DIE PROPERTY.



22. VIEW OF THE AST LOCATED IN THE EAST BUILDING ADDITION AT THE HUCKINS TOOL & DIE PROPERTY.

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DECEMBER 2000

SBICK



23. VIEW OF A SMALL PILE OF METAL FINES LOCATED SOUTH OF THE EAST BUILDING ADDITION OF THE HUCKINS TOOL & TIE BUILDING.



24. VIEW OF A VENT PIPE ASSOCIATED WITH A 5,000-GALLON UST LOCATED EAST OF THE HUCKINS TOOL & DIE BUILDING.

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CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

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25. VIEW OF THE STEEL PLATE ASSOCIATED WITH THE UST LOCATED EAST OF THE HUCKINS TOOL & DIE PROPERTY.



26. VIEW OF A DRY WELL LOCATED EAST OF THE HUCKINS TOOL & DIE BUILDING.

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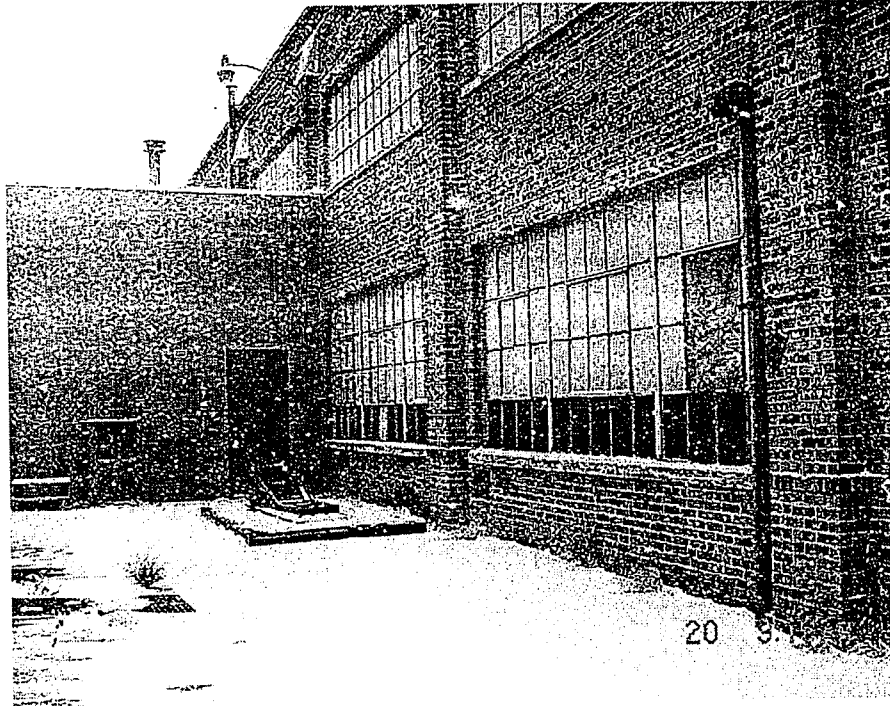
PHASE I ENVIRONMENTAL SITE ASSESSMENT

AREA A
SITE PHOTOGRAPHS

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

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27. VIEW OF THE VENT PIPE AND METAL PLATE ASSOCIATED WITH THE UST LOCATED EAST OF THE NORTH PART OF THE HUCKINS TOOL & DIE PROPERTY.



28. VIEW OF THE FILL PORT FOR THE UST LOCATED EAST OF THE NORTH PART OF THE HUCKINS TOOL & DIE PROPERTY.

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AREA A

SITE PHOTOGRAPHS

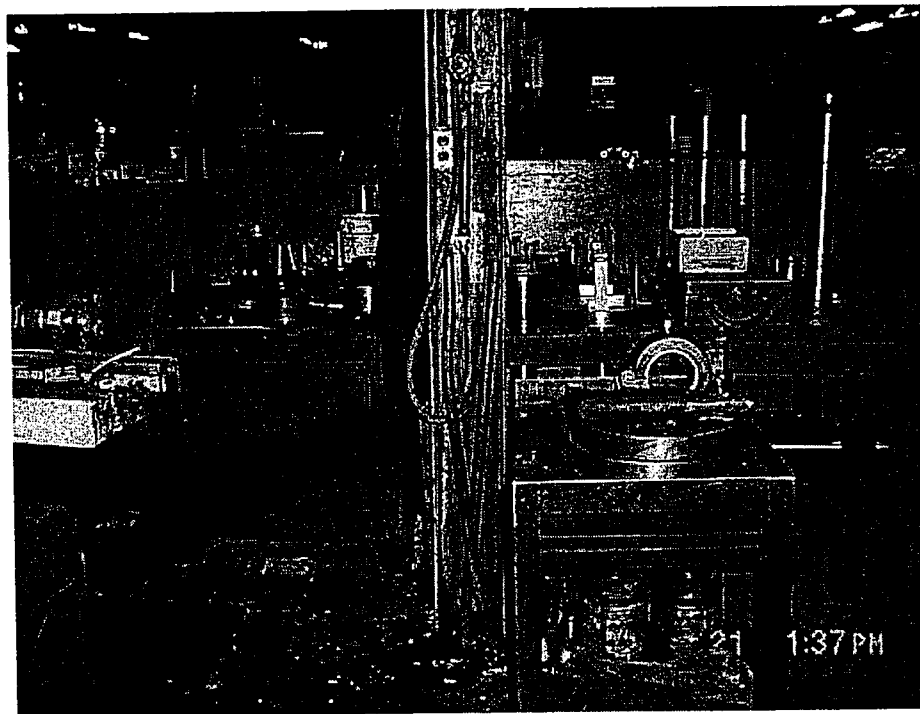
CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SIBKX



29. VIEW OF A DRY WELL LOCATED NORTH OF THE HUCKINS TOOL & DIE BUILDING.



30. VIEW OF A WORK STATION LOCATED IN THE SOUTH BEND LATHE BUILDING USING MINERAL SPIRITS AS A DEGREASER.

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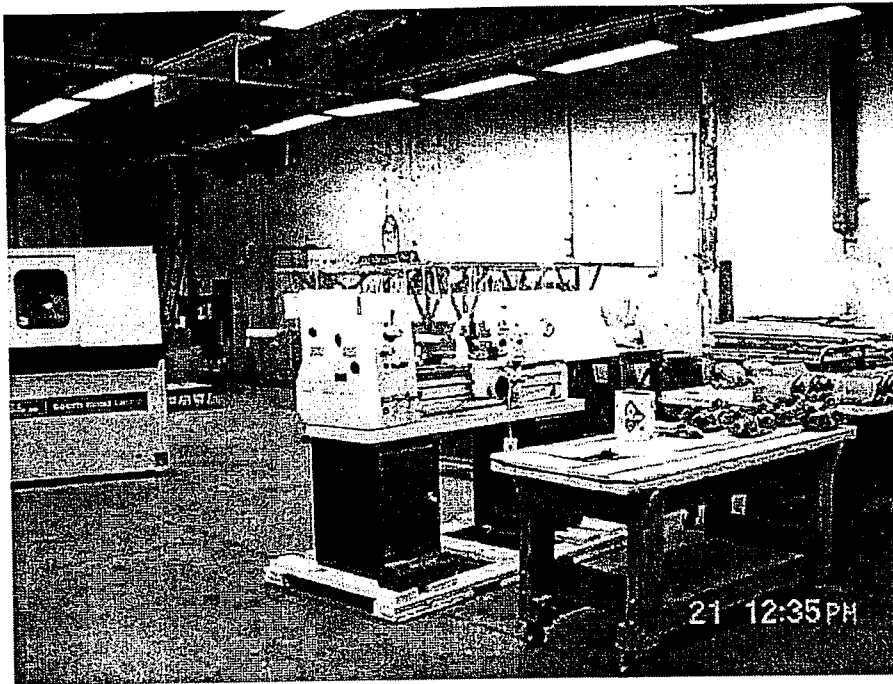
AREA A

SITE PHOTOGRAPHS

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SB100



31. VIEW OF THE PAINT SHOP LOCATED IN THE SOUTH BEND LATHE BUILDING.



32. VIEW OF AN AST LABELED AS CONTAINING CYANIDE IN THE SOUTH BEND LATHE FACILITY.
NOTE THE PIT BEHIND AND THE THE RIGHT OF THE TANK.

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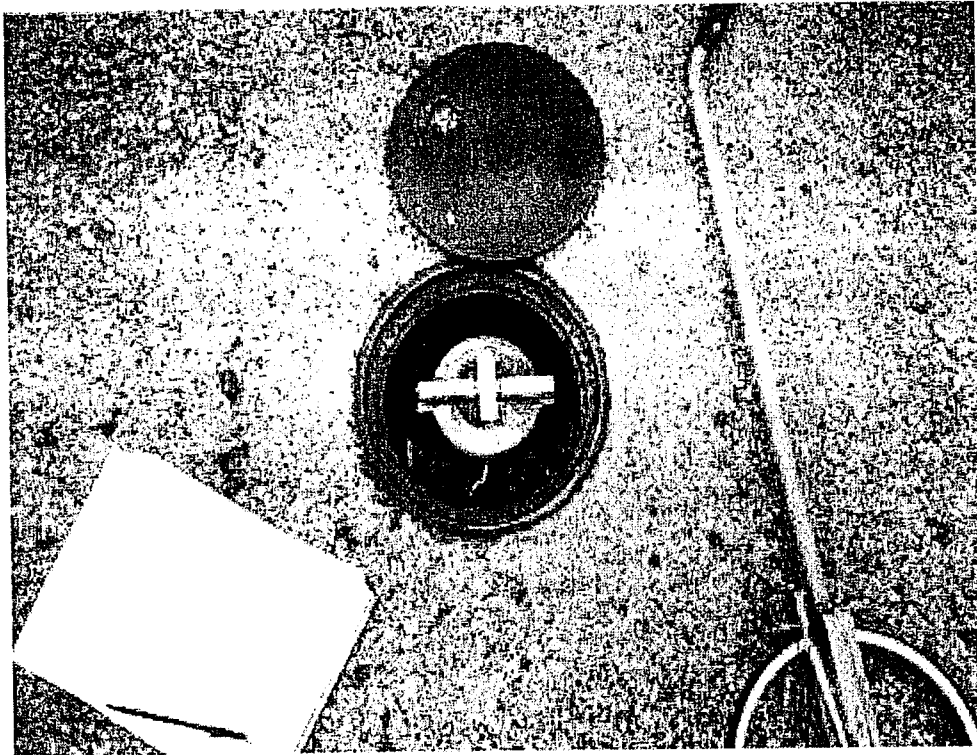
PHASE I ENVIRONMENTAL SITE ASSESSMENT

AREA A
SITE PHOTOGRAPHS

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SBIKX



33. VIEW OF A FILL PORT LOCATED SOUTH OF THE SOUTH BEND LATHE BUILDING.



34. VIEW OF METAL SHAVINGS LOCATED ON THE GROUND EAST OF THE CHIP BUILDING ON THE SOUTH SIDE OF THE SOUTH BEND LATHE BUILDING.

Hull & Associates, Inc.
TOLEDO, OHIO

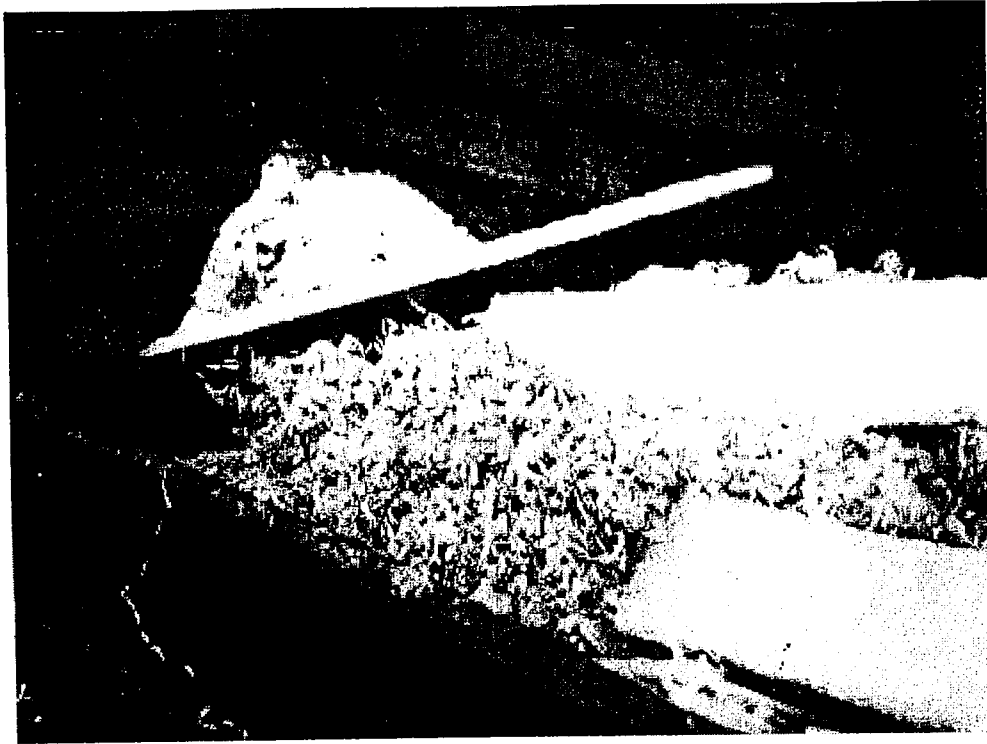
PHASE I ENVIRONMENTAL SITE ASSESSMENT

AREA A
SITE PHOTOGRAPHS

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SBI0



35. VIEW OF METAL SHAVINGS LOCATED IN BINS EAST OF THE CHIP BUILDING ON THE SOUTH SIDE OF THE SOUTH BEND LATHE BUILDING.



36. VIEW OF THE CATCH BASIN LOCATED SOUTH OF THE CHIP BUILDING ON THE SOUTH SIDE OF THE SOUTH BEND LATHE BUILDING.

Hull & Associates, Inc.
TOLEDO, OHIO

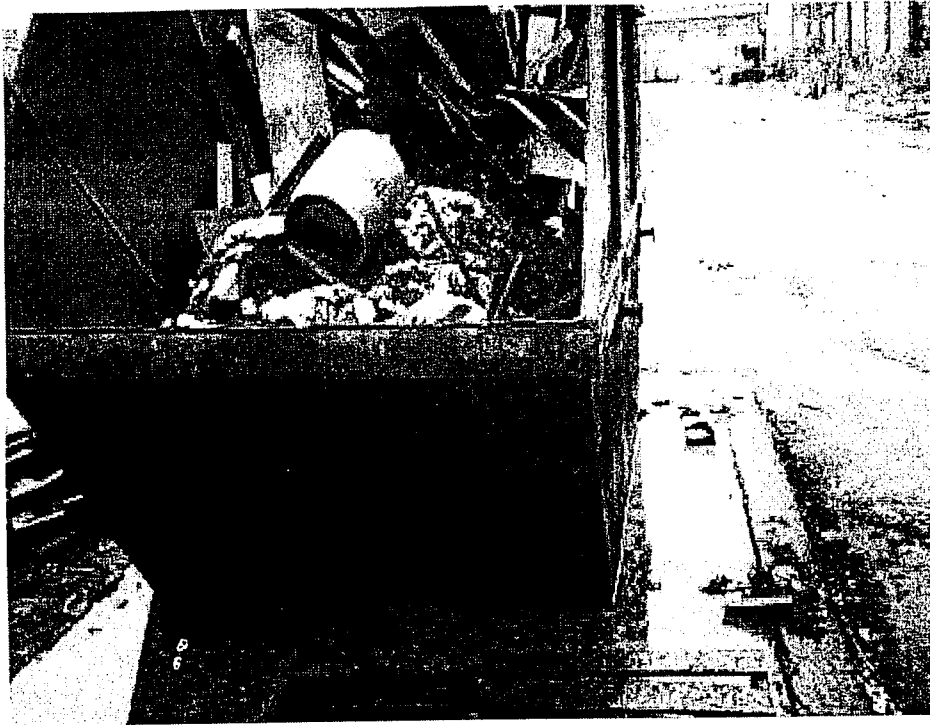
PHASE I ENVIRONMENTAL SITE ASSESSMENT

AREA A
SITE PHOTOGRAPHS

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SB100



37. VIEW OF THE TRASH BIN CONTAINING SOILD WASTE AND METAL SHAVINGS LOCATED SOUTH OF THE CHIP BUILDING ON THE SOUTH SIDE OF SOUTH BEND LATHE BUILDING.



38. VIEW OF HEAVY OIL STAINING LOCATED NEAR THE TRASH BIN LOCATED SOUTH OF THE CHIP BUILDING ON THE SOUTH SIDE OF THE SOUTH BEND LATHE BUILDING.

Hull & Associates, Inc.
TOLEDO, OHIO

PHASE I ENVIRONMENTAL SITE ASSESSMENT

AREA A

SITE PHOTOGRAPHS

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

DECEMBER 2000

SB10

APPENDIX B

Ownership Records

APPENDIX B-I

Legal Description

Inquiry only (ESC) when done viewing

18 8021 084905 TAX 2001 PAY 2002
 NAME 1: NEW JERSEY IND AND ILL RR
 2: %TAXATION DEPT
 3:
 ADDRESS: 110 FRANKLIN RD SE
 ZIP CODE: 24042
 CITY/STATE: ROANOKE, VA
 TRANSFER DATE: / /
 TRANSFER REF#:
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: R - RESIDENTIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

<F4> Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

Inquiry only (ESC) when done viewing

Inquiry only

LEGAL PROPERTY DESCRIPTION	
18 8021 084905	NE1/4 14-37-2E
NAME 1: NEW JERS	TRACT 4 CONT APPX 6.629 ACRES
2: %TAXATIO	
3:	
ADDRESS: 110 FRAN	ST ED ASSESSED
ZIP CODE: 24042	
CITY/STATE: ROANOKE,	
TRANSFER DATE: / /	TAX1R025-03
TRANSFER REF#:	
STATUS CODE: (G=Govt Use / D=Deleted Parcel)	
PROPERTY TYPE: R - RESIDENTIAL	
BOOK:	
PAGE:	
DOCUMENT:	
INSTRUMENT:	

<F4> Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

4/3/64 - Stud - Allied (Price unknown)

8405549

TAX1R012-15

REAL PROPERTY - TRANSFER OF OWNERSHIP

11/30/2000

Inquiry only (ESC) when done viewing

18 8021 084901 A/B TAX 2001 PAY 2002
 NAME 1: CITY OF SOUTH BEND
 2: % ALLIED PRODUCTS CORP
 3:
 ADDRESS: P O BOX 990
 ZIP CODE: 46624
 CITY/STATE: SOUTH BEND, IN
 TRANSFER DATE: 3/28/1984
 TRANSFER REF#: 497
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

<F4> Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

TAX1R012-15

REAL PROPE

Inquiry only (ESC) when done viewing

Inquiry only

LEGAL PROPERTY DESCRIPTION
 PT STUDEBAKERS TRACK 4
 SEC 14-37-2E
 CONT 13.577 ACRES
 "LEASEHOLD EST" TO ALLIED PROD.
 03-28-84 SEE#18-8021-084901A

18 8021 084901
 NAME 1: CITY OF
 2: % ALLIED
 3:
 ADDRESS: P O BOX
 ZIP CODE: 46624
 CITY/STATE: SOUTH BE
 TRANSFER DATE: 3/28/1984 TAX1R025-03
 TRANSFER REF#: 497
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

<F4> Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

Inquiry only <ESC> when done viewing

18 8021 084906 A/B TAX 2001 PAY 2002
 NAME 1: ARG CORP
 2:
 3:
 ADDRESS: 307 E LASALLE AVE APT 325L
 ZIP CODE: 46601
 CITY/STATE: SOUTH BEND, IN
 TRANSFER DATE: 5/30/2000
 TRANSFER REF#: 2761 CGC
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

0025692

(F4) Billing (F5) View Transfer Hist (F6) Legal Desc (F10) Other Years

Inquiry only <ESC> when done viewing

Inquiry only

18 8021 084906 TRACT OF LAND BEG SE COR OF SAMPLE
 NAME 1: ARG CORP & VAC PRAIRIE AVE CONT 14.846 AC +-
 2: KNOWN AS TRACT 4 SEC 14-37-2E
 3:
 ADDRESS: 307 E LA
 ZIP CODE: 46601
 CITY/STATE: SOUTH BE
 TRANSFER DATE: 5/30/2000 TAX1R025-03
 TRANSFER REF#: 2761 CGC
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

LEGAL PROPERTY DESCRIPTION

0/14/64 - Stud Huckins

PAGE 432
10/00

T. 1R012-15

REAL PROPERTY - TRANSFER OF OWNERSHIP

11/30/2000

Inquiry only (ESC) when done viewing

18 8021 084903 TAX 2001 PAY 2002
 NAME 1: HUCKINS JAY ROBERT
 2:
 3:
 ADDRESS: 1010 PRAIRIE AV
 ZIP CODE: 46601
 CITY/STATE: SOUTH BEND, IN
 TRANSFER DATE: 10/13/1975
 TRANSFER REF#: 007171
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

(F4) Billing (F5) View Transfer Hist (F6) Legal Desc (F10) Other Years

T. 1R012-15

REAL PROPE

Inquiry only (ESC) when done viewing

Inquiry only

LEGAL PROPERTY DESCRIPTION	
18 8021 084903	TRACT OF LAND BEG 260.58' SWLY OF
NAME 1: HUCKINS	SE COR SAMPLE & VAC PRAIRIE AVE
2:	CONT 1.343 AC +-
3:	KNOWN AS TRACT 4
ADDRESS: 1010 PRA	
ZIP CODE: 46601	
CITY/STATE: SOUTH BE	
TRANSFER DATE: 10/13/197	TAX1R025-03
TRANSFER REF#: 007171	
STATUS CODE: (G=Govt Use / D=Deleted Parcel)	
PROPERTY TYPE: I - INDUSTRIAL	
BOOK:	
PAGE:	

9848714

TAX1R012-15

REAL PROPERTY - TRANSFER OF OWNERSHIP

11/30/2000

Inquiry only (ESC) when done viewing

18 8021 084902 TAX 2001 PAY 2002
 NAME 1: 1100 CORP
 2:
 3:
 ADDRESS: 1100 PRARIE AVE
 ZIP CODE: 46601
 CITY/STATE: SOUTH BEND, IN
 TRANSFER DATE: 9/17/1998
 TRANSFER REF#: 8977 WD
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

TAX1R012-15

REAL PROPE

Inquiry only (ESC) when done viewing

Inquiry only

LEGAL PROPERTY DESCRIPTION
 PARCEL IN SEDC 14-37-2E
 CONTAINING 19.191
 ACRES

18 8021 084902
 NAME 1: 1100 CDR
 2:
 3:
 ADDRESS: 1100 FRA
 ZIP CODE: 46601
 CITY/STATE: SOUTH BE
 TRANSFER DATE: 9/17/1998 TAX1R025-03
 TRANSFER REF#: 8977 WD
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

T: K1R012-15

REAL PROPERTY - TRANSFER OF OWNERSHIP

11/30/2000

Inquiry only <ESC> when done viewing

18 8021 084904 TAX 2001 PAY '2002
 NAME 1: IND. AND MICH. ELEC CO.
 2: ATT TAX DEPT
 3:
 ADDRESS: BOX 24400-301 CLEVELAND AV SW
 ZIP CODE: 44701
 CITY/STATE: CANTON, OH
 TRANSFER DATE: / /
 TRANSFER REF#:
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

F4) Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

TAX1R012-15

REAL PROPE

Inquiry only <ESC> when done viewing

Inquiry only

LEGAL PROPERTY DESCRIPTION	
18 8021 084904	TRACT 4
NAME 1: IND. AND	
2: ATT TAX	
3:	
ADDRESS: BOX 2440	
ZIP CODE: 44701	
CITY/STATE: CANTON,	
TRANSFER DATE: / /	TAX1R025-03
TRANSFER REF#:	
STATUS CODE: (G=Govt Use / D=Deleted Parcel)	
PROPERTY TYPE: I - INDUSTRIAL	
BOOK:	
PAGE:	
DOCUMENT:	
INSTRUMENT:	

Don't have
8405549

TAX1R012-15

REAL PROPERTY - TRANSFER OF OWNERSHIP

11/30/2000

Inquiry only <ESC> when done viewing

18 8021 0849 A/B TAX 2001 PAY 2002
 NAME 1: CITY OF SOUTH BEND
 2: C/O ALLIED PRODUCTS CORP
 3:
 ADDRESS: P O BOX 990
 ZIP CODE: 46624
 CITY/STATE: SOUTH BEND, IN
 TRANSFER DATE: 3/02/1984
 TRANSFER REF#: 14
 STATUS CODE: (G=Govt Use / D=Deleted Parcel)
 PROPERTY TYPE: I - INDUSTRIAL
 BOOK:
 PAGE:
 DOCUMENT:
 INSTRUMENT:

<F4> Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

TAX1R012-15

REAL PROPE

Inquiry only <ESC> when done viewing

Inquiry only

	LEGAL PROPERTY DESCRIPTION
18 8021 0849 NAME 1: CITY OF 2: C/O ALLI 3: ADDRESS: P O BOX ZIP CODE: 46624 CITY/STATE: SOUTH BE TRANSFER DATE: 3/02/1984 TRANSFER REF#: 14 STATUS CODE: (G=Govt Use / D=Deleted Parcel) PROPERTY TYPE: I - INDUSTRIAL BOOK: PAGE: DOCUMENT: INSTRUMENT:	PT STUDEBAKERS TR.4 & LOTS 36 & 37 STULLS 2ND & LOTS 87-91 S.B. CITY ADD & N 1/2 LOT 3 STULLS 2ND & VAC GARST ST CONT 22.83AC.+"LEASEHLD EST.TO ALLIED PROD"SEE#18-8021-0849

<F4> Billing <F5> View Transfer Hist <F6> Legal Desc <F10> Other Years

Textstring	Map_number	Land_use	Access	Prop_type	Tax_unit	Tax_parcel_1	Tax_parcel_2	Sidwell	Prop_class	Prop_addr	Prop_city
18-8021-084907	8-14D	OFF	J6486	C	18	8021	84907	8-14D	350	410 W SAMPLE	SOUTH BEND
18-8021-084906		WHL	J6485	C	18	8021	84906	8-14C	320	400 W SAMPLE ST	SOUTH BEND
18-8022-0891	8-14C	VCT	J6490	C	18	8022	891	8-14C	456	18 VAC LOT .680 AC SAMPLE ST	SOUTH BEND
18-8021-084903		WHL	J6482	C	18	8021	84903	8-14C	320	1010 PRAIRIE AV	SOUTH BEND
18-8021-0849	8-14D	IND	J6478	C	18	8021	849	8-14D	320	18 ALLIED PRO 22 ACRES	SOUTH BEND
18-8021-084904	8-14D	IND	J6483	C	18	8021	84904	8-14D	300	18 VAC LOT .2100AC COLFAX	SOUTH BEND
18-8021-084902	8-14C	WHL	J6481	C	18	8021	84902	8-14C	320	1100 PRAIRIE AV	SOUTH BEND
18-8021-084901	8-14C	IND	J6479	C	18	8021	84901	8-14C	320	18 14-37-2E ALLIED PRO 12AC	SOUTH BEND
18-8006-028001	8-14D	PKG	J5947	C	18	8006	28001	8-14D	300	1135 S. FRANKLIN	SOUTH BEND
18-8006-0283	8-14D	PKG	J5952	C	18	8006	283	8-14D	300	1137 FRANKLIN	SOUTH BEND
18-8006-028301	8-14D	PKG	J5953	C	18	8006	28301	8-14D	300	1137 S 1/2 LOT FRANKLIN	SOUTH BEND
18-8006-0286	8-14D	PKG	J5958	C	18	8006	286	8-14D	300	601 BROADWAY	SOUTH BEND
18-8006-028601	8-14D	PKG	J5959	C	18	8006	28601	8-14D	300	1143 FRANKLIN	SOUTH BEND
18-8006-0289	8-14D	PKG	J5965	C	18	8006	289	8-14D	300	1145 FRANKLIN	SOUTH BEND
18-8006-0290	8-14D	PKG	J5966	C	18	8006	290	8-14D	300	1201 FRANKLIN	SOUTH BEND
18-8006-0291	8-14D	PKG	J5967	C	18	8006	291	8-14D	300	1203 FRANKLIN	SOUTH BEND
18-8006-029101	8-14D	PKG	J5968	C	18	8006	29101	8-14D	300	1205 FRANKLIN	SOUTH BEND
18-8006-0296	8-14D	PKG	J5974	C	18	8006	296	8-14D	300	1207 FRANKLIN	SOUTH BEND
18-8006-0297	8-14D	PKG	J5975	C	18	8006	297	8-14D	300	1209 FRANKLIN	SOUTH BEND
18-8006-0302	8-14D	PKG	J5980	C	18	8006	302	8-14D	300	1211 FRANKLIN	SOUTH BEND
18-8006-0303	8-14D	PKG	J5981	R	18	8006	303	8-14D	500	1213 FRANKLIN	SOUTH BEND
18-8006-0308	8-14D	PKG	J5986	C	18	8006	308	8-14D	300	1219 FRANKLIN	SOUTH BEND
18-8006-0309	8-14D	PKG	J5987	C	18	8006	309	8-14D	300	18 VAC LOT 1200BLK FRANKLIN	SOUTH BEND
18-8006-0314	8-14D	PKG	J5992	C	18	8006	314	8-14D	300	1301 FRANKLIN	SOUTH BEND
18-8006-0315	8-14D	PKG	J5993	C	18	8006	315	8-14D	300	1303 FRANKLIN	SOUTH BEND
18-8006-0320	8-14D	PKG	J5998	C	18	8006	320	8-14D	300	18 VAC LOT 1300BLK FRANKLIN	SOUTH BEND
18-8006-0321	8-14D	PKG	J5999	C	18	8006	321	8-14D	300	1311 FRANKLIN	SOUTH BEND
18-8006-0326	8-14D	PKG	J6004	C	18	8006	326	8-14D	300	1315 FRANKLIN	SOUTH BEND
18-8006-0327	8-14D	PKG	J6005	C	18	8006	327	8-14D	300	1317 FRANKLIN	SOUTH BEND
18-8006-0333	8-14D	PKG	J6011	C	18	8006	333	8-14D	300	18 VAC LOT 33X105 FRANKLIN ST	SOUTH BEND
18-8006-0332	8-14D	PKG	J6010	C	18	8006	332	8-14D	300	18 VAC LOT 33X105 FRANKLIN	SOUTH BEND
18-8006-0336		PKG									
18-8006-0337		PKG									
18-8006-0338		PKG	J6015	C	18	8006	338	8-14D	399	FRANKLIN	
18-8021-084905	8-14C	IND	J6484	R	18	8021	84905	8-14C	500	STATE BOARD ASSESSED	

Prop_state	Prop_zip	Owner_name	Own_street	Own_city	Own_state	Own_zip
IN	46601	CITY OF SOUTH BEND DEPT OF REDEV	1200 COUNTY CITY BUILDING	SOUTH BEND	IN	46601
IN	46625	TURNMASTER CORP	400 W SAMPLE	SOUTH BEND	IN	46601
IN	46625	TURNMASTER CORP	400 W SAMPLE ST	SOUTH BEND	IN	46601
IN	46625	HUCKINS JAYROBERT	1010 PRAIRIE AV	SOUTH BEND	IN	46624
IN	46624	CITY OF SOUTH BEND/O ALLIED PRODUCTS CORP	P O BOX 990	SOUTH BEND	IN	46601
IN	46601	IND. AND MICH. ELEC CO.ATT TAX DEPT	BOX 24400-301 CLEVELAND AV SW	CANTON	OH	44701
IN	46601	1100 PRARIE AVE	1100 PRARIE AVE	SOUTH BEND	IN	46601
IN	46624	CITY OF SOUTH BEND% ALLIED PRODUCTS CORP	P O BOX 990	SOUTH BEND	IN	46624
IN	46613	ST JOSEPH COUNTY	1200 COUNTY CITY BLDG	SOUTH BEND	IN	46601
IN	46618	ALLIED PRODUCTS CORP	1355 EAST 93RD STREET	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORP	1355 EAST 93RD STREET	CHICAGO	IL	60619
IN	46624	ALLIED PRODUCTS CORPATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46624	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46624	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46624	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46624	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619
IN	46618	ALLIED PRODUCTS CORPORATIONATTN: MARK STANDEFER	1355 E 93RD ST	CHICAGO	IL	60619

		NEMETH PETERJ & PETER H MULLEN	1406 S FRANKLIN ST.	SOUTH BEND	IN	46613
		0 NEW JERSEY IND AND ILL RR%TAXATION DEPT	110 FRANKLIN RD SE	ROANOKE	VA	24042

APPENDIX B-II

St. Joseph County Deeds

9848714

AUDITOR'S RECORD	
Transfer No.	8977
Taxing Unit	SB
Date	9-17-98

WARRANTY DEED

98 SEP 17 AM 10:38
ST. JOSEPH CO. RECORDS
STATE OF INDIANA
FILED FOR RECORD

Prairie Company, an Indiana partnership,
the Grantor

Convey and Warrant to
The 1100 Corporation, an Indiana Corporation,
the Grantee

for and in consideration of Ten (\$10.00) Dollars or other valuable consideration
the receipt of which is hereby acknowledged, Real Estate in St. Joseph County,
in the State of Indiana, described as follows:

See real estate description attached hereto as Exhibit "A."

Subject to all accrued and currently payable real estate taxes and
assessments and subject further to all covenants, easements, and
restrictions of record.

Property Address: 1100 Prairie Avenue, South Bend, Indiana 46621

Tax Key No.: 18-8021-084902

DULY ENTERED FOR TAXATION
JOSEPH R. NAGY
AUDITOR
ST. JOSEPH CO. INDIANA

Signed and dated on September 15, 1998

State of Indiana, St. Joseph County, ss:

Before me, the undersigned, a Notary Public in and for said County
and State, personally appeared:

Curtis L. Crofoot and Edward Ibel,
sole partners of Prairie Company,
an Indiana partnership.

Prairie Company, an Indiana partnership
BY Curtis L. Crofoot PARTNER
Signature

Curtis L. Crofoot, partner
Typed or printed name

Edward Ibel partner
Signature

Edward Ibel, partner
Typed or printed name

and acknowledged the execution of the foregoing deed on

September 15, 1998
Desire F. Walters Notary Public
Desire F. Walters
Typed or printed name
My Commission expires 4/29/2001

Signature

Typed or printed name

Signature

Typed or printed name

Prepared by James D. Nafe 50817 U.S. 31 North, South Bend, IN 46637
Attorney at Law

Real estate description for 1100 Prairie Ave.,
South Bend, Indiana 46621

Tax Key No. 18-8021-084902

A part of the N. E. $\frac{1}{4}$ of Section 14, Twp. 37 N., R. 2 E.,
in St. Joseph County, Indiana, more particularly described
as follows:

Commencing at the intersection of the North line of the
Michigan Central Railroad Right-of-way and the East line of
Kendall Street, said point being the Southwest corner of
Tract No. 4 of the Studebaker Corporation Replat, as recorded
in Plat Book 11, Page 184, in the Office of the Recorder of
St. Joseph County, Indiana; thence North along the East line
of Kendall Street a distance of 61.23 ft. to the point of
beginning; thence N. 54°21'30" E. a distance of 184.07 ft.
to a point; thence N. 00°00'00" E. a distance of 1238.97 ft.
to a point; thence S. 89°55'34" E. a distance of 227.00 ft.
to a point; thence N. 00°04'26" E. a distance of 174.05 ft.
to a point; thence N 88°32'07" W. a distance of 552.36 ft. to
a point; thence S. 72°39'53" W. a distance of 96.00 ft.;
thence N. 64°47'18" W. a distance of 76.83 ft. to a point on
the East line of Prairie Avenue, said East line being also
the Westerly line of said Tract No. 4 of the Studebaker Corp-
oration Replat; thence S. 28°14'42" W. along said East line
of Prairie Avenue a distance of 1099.71 ft. to the intersection
of said East line of Prairie Avenue and the North line of
Cotter Street; thence S. 89°46'56" E. along said North line
of Cotter Street a distance of 857.86 ft. to the intersection
of said North line of Cotter Street and the East line of
Kendall Street; thence S. 00°05'31" W. along said East line
of Kendall Street a distance of 566.19 ft. to the point of
beginning; containing + 19.191 Acres; (all bearings assumed);
(The foregoing described tract is West of and abutting the
N. 1171.80 ft. of the West line and is North of and abutting
the West 227.00 ft. of the North line of a tract previously
conveyed by the Studebaker Corporation, a Michigan Corporation,
to Allied Products Corporation, a Michigan Corporation, by
Deed dated April 3, 1964, and recorded April 3, 1964, in Deed
Record Book 549, pages 497-509 inclusive, in the Office of
the Recorder of St. Joseph County, Indiana); subject, however,
to easements, restrictions and reservations as referred to
herein, but together with all buildings, improvements, tene-
ments and appurtenances situated on the above described
premises.

EXHIBIT "A"

18-8021-084906

CORPORATE QUIT CLAIM DEED

Number 2761
Taxing Unit SA
Date 5-30-2000

THIS INDENTURE WITNESSETH. That TURNMASTER CORP. ("Grantor"), a corporation organized and existing under the laws of the State of California, and having its principal place of business in the State of Indiana RELEASE AND QUIT CLAIM TO ARG CORPORATION, 307 East LaSalle Avenue, Apt. 325L, South Bend, Indiana 46601, St. Joseph County, in the State of Indiana, for good and other valuable consideration, the receipt of which is hereby acknowledged, the following described real estate in St. Joseph County, in the State of Indiana:

0025692

3

The property commonly known as 400 West Sample Street, South Bend, Indiana, and more particular described as:

See legal description attached hereto as Exhibit "A"

Subject to liens, restrictions and easements of record, legal highways, current taxes, and zoning restrictions.

The undersigned person executing this deed on behalf of Grantor represents and certifies that he is a duly elected officer of Grantor and has been fully empowered, by proper resolution of the Board of Directors of Grantor, to execute and deliver this deed; that Grantor has full corporate capacity to convey the real estate described herein; and that all necessary corporate action for the making of such conveyance has been taken and done.

IN WITNESS WHEREOF, Grantor has caused this deed to be executed this 30th day of May, 2000.

TURNMASTER CORP.
(Name of Corporation)

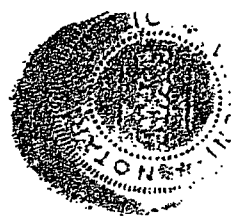
By [Signature]
Signature
Nexi Carolina Mendoza
Printed Name and Office
V.P. Director

STATE OF INDIANA
COUNTY OF ST. JOSEPH
SS:

Beto. me, a Notary Public in and for said County and State, personally appeared NEXI CAROLINA MENDOZA the V.P. Director of TURNMASTER CORP. who acknowledged execution of the foregoing Deed for and on behalf of said Grantor, and who, having been duly sworn, stated that the representations thereon contained are true.

Witness my hand and Notarial Seal this 30th day of May, 2000.
My Commission Expires 3-5-07
Signature Carol D. Hudson
Printed Carol D. Hudson, Notary Public
Residing in St Joseph County, Indiana

This instrument was prepared by Robert W. Mysliwicz, 150 West Angela Boulevard, South Bend, Indiana 46617, attorney at law.



DULY ENTERED FOR TAXATION
JOSEPH F. NAGY
AUDITOR
ST. JOSEPH CO. INDIANA

EXHIBIT A

No. 100203K-20

Part of the Northeast Quarter (14) of Section 14, Township 3 North, Range 2 East of the 2nd Principal Meridian, more particularly described as follows: Beginning at the Northwest corner of Tract No. 4 of the Studebaker Corp. Replat as recorded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana, thence South 89°51'46" East along the North line of said Tract No. 4 said line being also the South line of Sample Street, a distance of 1441.65 feet to the West line of Franklin Street; thence South 00°21'55" East along said West line of Franklin Street a distance of 604.93 feet to a point; thence South 89°55'21" West a distance of 230.50 feet to a point; thence North 12°19'39" West a distance of 162.12 feet to a point; thence North 89°51'39" West a distance of 647.32 feet to a point; thence South 00°04'26" West a distance of 28.28 feet to a point; thence North 89°50'26" West a distance of 100.00 feet to a point; thence South 00°04'26" West a distance of 62.99 feet to a point; thence North 00°32'07" West a distance of 363.76 feet to an intersection with a curve convex to the Northeast and having a radius of 346.00 feet and a central angle of 10°20'00"; thence Northwesterly along said last described curve an arc distance of 62.40 feet to the point of reverse curvature with a curve convex to the Southwest and having a radius of 323.50 feet and a central angle of 44°15'00"; thence Northwesterly along said last described curve an arc distance of 249.01 feet to the point of tangency of said curve; thence North 3°53'00" West a distance of 104.38 feet to the Westerly line of said Tract No. 4; thence North 28°14'42" East along said Westerly line of Tract No. 4 a distance of 183.94 feet to the point of beginning. (All bearings assumed)

Also a part of the portion of Prairie Avenue vacated by the Board of Public Works of the City of South Bend, Indiana, under Prairie Avenue Vacation Resolution No. 3101-1964, more particularly described as follows: Beginning at the Northwest corner of Tract No. 4 of the Studebaker Corp. Replat as recorded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana; thence South 87°50'07" West a distance of 46.30 feet to a point; thence South 28°14'42" West a distance of 160.46 feet to a point; thence South 61°45'10" East a distance of 40.00 feet to the Westerly line of said Tract No. 4; thence North 28°14'42" East along said Westerly line of Tract No. 4 a distance of 163.94 feet to the point of beginning. (All bearings assumed)

-continued-

00 MAY 30 PM 14:21

ST. JOSEPH COUNTY RECORDER
STATE OF INDIANA

EXHIBIT A

00025692

EXCEPTING THEREFROM A parcel of land being a part of the Northeast Quarter of Section 14, Township 37 North, Range 31 East of the Second Principal Meridian and being more particularly described as follows, viz: Beginning at a point 1200.01 feet South 89°51'46" East of the Northwest corner of Tract No. 24 of the Studebaker Corporation Replat as recorded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana, said point being on the North line of said Tract No. 24, which North line is also the South Right of Way line of Sample Street; thence South 0°21'18" East, along the projection of a wall line and along said wall line, a distance of 421.71 feet to an angle point; thence South 27°52'38" East, along a wall line a distance of 27.70 feet to an angle point; thence North 89°38'42" East, along a wall line a distance of 112.71 feet to a point 96.15 feet South 89°38'42" West of the West Right of Way line of Franklin Street; thence South 0°21'55" East, parallel with the West Right of Way line of Franklin Street, a distance of 160.27 feet to a point 96.18 feet South 89°55'21" West of said West Right of Way line of Franklin Street; thence North 89°55'21" East, a distance of 96.18 feet to said West Right of Way line; thence North 0°21'55" West, along said West Right of Way line, a distance of 604.93 feet to said South Right of Way line of Sample Street; thence North 89°51'46" West, along said South Right of Way line, a distance of 241.64 feet to the place of beginning.

Subject to legal highways

10025692

JAMES A. RUEHL
808 Tower Blvd
South Bend, Ind

WARRANT

This indenture witnesseth that Ro
hu

of St. Joseph Coun

Conveys and warrants to Jay Rob

of St. Joseph Coun

for and in consideration of TEN DOLLARS (the receipt whereof is hereby acknowledged, the following in the State of Indiana, to wit:



Part of the Northeast Quarter of Section 14, Township 37 North, Range 2 East, more particularly described as follows:

Commencing at the Northwest corner of Tract No. 4 of the Studebaker Corporation Replat as recorded in Plat Book 11, Page 184 in the Office of the Recorder of St. Joseph County, Indiana; thence South 28 degrees 14 minutes 42 seconds West along the Westerly line of said Tract No. 4 a distance of 183.94 feet for a point of beginning; thence continuing South 28 degrees, 14 minutes 42 seconds West along said Westerly line of Tract No. 4 a distance of 408.43 feet to a point; thence South 64 degrees 47 minutes 18 seconds East along the North line of a tract conveyed by the Studebaker Corporation, a Michigan corporation, to Cummins Engine Co. Inc., an Indiana corporation, as recorded April 17, 1964, in Deed Record 650, pages 173 through 183, both inclusive, in the Office of the Recorder of St. Joseph County, Indiana, a distance of 76.83 feet to a point; thence North 72 degrees 39 minutes, 53 second East along said last described North line a distance of 96.00 feet to a point; thence South 28 degrees 32 minutes 07 seconds East along said last described North line a distance of 188.60 feet to the point of curvature of curve convex to the Northeast and having a radius of 346.00 feet and a central angle of 10 degrees 20 minutes 00 seconds; thence Northwesterly along said last described curve an arc distance of 62.40 feet to the point of reverse curvature with a curve convex to the Southwest and having a radius of 323.50 feet and a central angle of 44 degrees 15 minutes 00 seconds; thence Northwesterly along said last described curve an arc distance of 249.84 feet to the point of tangency; thence North 3 degrees 53 minutes no seconds West a distance of 104.38 feet to the point of beginning; containing \pm 1.23 acres (All bearings assumed)

ALSO

A part of the portion of Prairie Avenue vacated by the Board of Public Works of the City of South Bend, Indiana, under Prairie Avenue Vacation Resolution No. 3101-1964, more particularly described as follows:

Commencing at the intersection of the South line of Sample Street and the Easterly line of Prairie Avenue as it existed prior to such vacation; thence South 28 degrees 14 minutes 42 seconds West along said Easterly line of Prairie Avenue as it existed prior to such vacation a distance of 183.94 feet for a point of beginning; thence continuing South 28 degrees 14 minutes 42 seconds West along said last described course a distance

of 318.23 feet to a point; thence North 00 degrees 10 minutes 33 seconds West a distance of 84.04 feet to the center line of Prairie Avenue as it existed prior to such vacation; thence North 28 degrees 14 minutes 42 seconds East along said center line of Prairie Avenue as it existed prior to such vacation a distance of 244.32 feet to a point; thence South 61 degrees 45 minutes 18 seconds East a distance of 40.00 feet to the point of beginning, containing \pm 0.258 acres. (All bearings assumed).

Subject to all taxes, restrictions, conditions and easements as the same appeared of record, if any.

Dated this 6th Day of October 19 75

Seal
ROBERT J. HUCKINS

Seal
DORISELLEN HUCKINS

Seal

Seal

Seal

Seal

Seal

Seal

Seal

Seal

Seal

Seal

State of Indiana, St. Joseph County

Before me, the undersigned, a Notary Public in and for said County and State, this 6th day of October 1975 personally appeared: Robert J. Huckins and Dorisellen Huckins, husband and wife,

And acknowledged the execution of the foregoing deed. In witness whereof, I have hereunto subscribed my name and affixed my official seal. My commission expires November 14, 1977.

James R. Kuehl Notary Public

State of

Before me, the undersigned, a Notary Public in and for said County and State, this _____ day of _____ 19____ personally appeared:

And acknowledged the execution of the foregoing deed. In witness whereof, I have hereunto subscribed my name and affixed my official seal. My commission expires _____ 19____

Notary Public

State of

Before me, the undersigned, a Notary Public in and for said County and State, this _____ day of _____ 19____ personally appeared:

And acknowledged the execution of the foregoing deed. In witness whereof, I have hereunto subscribed my name and affixed my official seal. My commission expires _____ 19____

Notary Public

State of

Before me, the undersigned, a Notary Public in and for said County and State, this _____ day of _____ 19____ personally appeared:

And acknowledged the execution of the foregoing deed. In witness whereof, I have hereunto subscribed my name and affixed my official seal. My commission expires _____ 19____

Notary Public

State of

Before me, the undersigned, a Notary Public in and for said County and State, this _____ day of _____ 19____ personally appeared:

And acknowledged the execution of the foregoing deed. In witness whereof, I have hereunto subscribed my name and affixed my official seal. My commission expires _____ 19____

Notary Public

State of

Before me, the undersigned, a Notary Public in and for said County and State, this _____ day of _____ 19____ personally appeared:

And acknowledged the execution of the foregoing deed. In witness whereof, I have hereunto subscribed my name and affixed my official seal. My commission expires _____ 19____

Notary Public

This instrument was prepared by James R. Kuehl, South Bend, Indiana
Member of St. Joseph County, Indiana Bar Association

EXHIBIT A

Legal DescriptionPARCEL I

A part of the Northeast Quarter (1/4) of Section Fourteen (14), Township Thirty-seven (37) North, Range Two (2) East, more particularly described as follows: Commencing at the intersection of the North line of the Michigan Central Railroad Right-of-Way and the East line of Kendall Street, said point being the Southwest corner of Tract no. 4 of the Studebaker Corporation Replat, as recorded in Plat Book 11, page 184, in the Office of the Recorder of St. Joseph County, Indiana; thence North along the East line of Kendall Street a distance of 233.93 feet to the intersection of said East line of Kendall Street with the South line of Broadway Street projected West; thence North 89°22'40" East along said South line of Broadway Street projected West, a distance of 149.32 feet to the Point of Beginning; thence continuing North 89°22'40" East along said South line of Broadway Street projected West a distance of 505.85 feet to a point; thence North 00°01'19" East a distance of 1165.66 feet to a point; thence North 89°55'34" West a distance of 506.27 feet to a point; thence South 00°00'00" East a distance of 1171.80 feet to the point of beginning.

PARCEL II

A. Easement for the purpose of vehicular and pedestrian ingress and egress to and from Parcel I, described as follows: A part of the Northeast Quarter of Section Fourteen (14), Township Thirty-seven (37) North, Range Two (2) East, more particularly described as follows: Commencing at the intersection of the North line of the Michigan Central Railroad Right-of-Way and the East line of Kendall Street, said point being the Southwest corner of Tract No. 4 of the Studebaker Corporation Replat, as recorded in Plat Book 11, page 184, in the Office of the Recorder of St. Joseph County, Indiana; thence North along the East line of Kendall Street a distance of 233.93 feet to the intersection of said East line of Kendall Street with the South line of Broadway Street projected West; thence North 89°22'40" East along said South line of Broadway Street projected West a distance of 655.17 feet for a point of beginning; thence continuing North 89°22'40" East along said South line of Broadway Street projected West a distance of 736.86 feet to the West line of Franklin Street; thence Northerly along the said West line of Franklin Street a distance of 74.25 feet to its intersection with the North line of Broadway Street projected West; thence South 89°22'40" West along the said North line of Broadway Street projected West a distance of 736.82 feet to a point; thence South 00°01'19" West a distance of 74.26 feet to the point of beginning.

B. Easement for storm and sanitary sewer drainage purposes from Parcel I, described as follows: A part of the Northeast Quarter (1/4) of Section Fourteen (14), Township Thirty-seven (37) North, Range Two (2) East, more particularly described as follows: Beginning at a point 402.35 feet North and 149.69 feet East of the Southwest corner of Tract No. 4 of the Studebaker Corporation Replat as recorded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana, said line being also the intersection of the North line of the Michigan Central Railroad Right-of-Way and the East line of Kendali Street; thence South 00°00'00" East a distance of 20.00 feet to a point; thence North 89°55'34" West a distance of 203.89 feet to a point; thence North 00°00'00" East a distance of 179.52 feet to a point; thence North 88°30'58" West a distance of 298.17 feet to the Easterly line of Prairie Avenue, said line being also the Westerly line of Tract No. 4 of the Studebaker Corporation Replat as

ANNEXURE

orded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana; thence North 28°14'42" East along said Easterly line of Prairie Avenue a distance of 22.40 feet to a point; thence South 88°30'58" East a distance of 307.59 feet to a point; thence South 00°00'00" East a distance of 179.03 feet to the Point of Beginning.

Also, a part of the Northeast Quarter of Section Fourteen (14), Township Thirty-seven (37) North, Range Two (2) East, more particularly described as follows: Beginning at a point 298.27 feet North and 149.69 feet East of the Southwest corner of Tract No. 4 of the Studebaker Corporation Replat as recorded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana, said line being also the intersection of the North line of the Michigan Central Railroad Right-of-Way and the East line of Kendall Street; thence North 00°00'00" East a distance of 20.00 feet to a point; thence North 89°44'51" West a distance of 149.18 feet to the East line of Kendall Street, said line being also the Westerly line of Tract No. 4 of the Studebaker Corporation Replat, as recorded in Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana; thence Southerly along the said East line of Kendall Street a distance of 20.00 feet to a point; thence South 89°44'51" East a distance of 149.21 feet to the Point of Beginning.

C. Easement for use of railroad purposes to and from Parcel I, described as follows: A part of the Northeast Quarter (¼) of Section Fourteen (14), Township Thirty-seven (37) North, Range Two (2) East, more particularly described as follows: Beginning at the intersection of the intersection of the North line of the Michigan Central Railroad Right-of-Way and the East line of Kendall Street, said point being the Southwest corner of Tract No. 4 of the Studebaker Corporation Replat, as recorded in the Plat Book 11, page 184 in the Office of the Recorder of St. Joseph County, Indiana; thence North along the East line of Kendall Street a distance of 28.90 feet for a point of beginning; thence continuing North on the said East line of Kendall Street a distance of 25.00 feet; thence North 89°40'37" East a distance of 41.80 feet to the point of curvature of a curve concave to the Northwest and having a central angle of 77°11'29" and a radius of 233.09 feet; thence Northwesterly along said curve an arc distance of 314.03 feet to the South line of Broadway Street projected West; thence North 89°22'40" East along said South line a distance of 34.50 feet to its intersection with a curve concave to the Northwest and having a central angle of 20°12'58" and a radius of 360.95 feet; thence Southwesterly along said last described curve an arc distance of 127.36 feet to the point of compound curvature with a curve concave to the Northwest and having a central angle of 20°12'00" and a radius of 258.09 feet; thence Southwesterly along said last described curve an arc distance of 91.21 feet to its intersection with a curve concave to the Northwest and having a central angle of 9°29'12" and a radius of 716.78 feet; thence Northwesterly along said last described curve an arc distance of 118.68 feet to the point of compound curvature with a curve concave to the Northwest and having a central angle of 35°45'48" and a radius of 270.30 feet; thence Northeasterly along said last described curve an arc distance of 168.72 feet to the aforesaid South line of Broadway Street projected West; thence North 89°22'40" East along said South line a distance of 27.40 feet to its intersection with a curve concave to the Northwest and having a central angle of 28°36'51" and a radius of 295.30 feet; thence Southwesterly along said last described curve an arc distance of 147.48 feet to its intersection with a line having a bearing of North 67°22'40" East; thence North 67°22'40" East along said line a distance of 183.62 feet to the point of curvature of a curve concave to the Northwest and having a central angle of 10°09'21" and having a radius of 347.70 feet; thence Northeasterly along said last described curve an arc distance of 61.63 feet to the aforesaid South line of Broadway Street projected West; thence North 89°22'40" East along said South line a distance of 67.07 feet; thence South 67°22'40" West a distance of 294.02 feet to the point of curvature of a curve concave to the Northwest and having a central angle of 27°17'57" and a radius of 658.57 feet; thence Southwesterly along said last described curve an arc distance of 313.92 feet to the point of tangency of said curve; thence South 89°40'37" West a distance of 53.02 feet to the point of beginning.

8405549

497

Note: This form approved by Indiana State Bar Association for use in Indiana. Use of this form constitutes practice of law and is limited to practicing lawyers.

Taxing Unit 288-84
Date 3-28-84

CORPORATE WARRANTY DEED

THIS INDENTURE WITNESSETH, That Allied Products Corporation ("Grantor"), a corporation organized and exist-

ing under the laws of the State of Delaware, CONVEYS AND WARRANTS to

City of South Bend

of St. Joseph County, in the State of Indiana, for the

sum of TEN and no/100 (\$10.00) Dollars (\$10.00-----)

and other valuable consideration, the receipt of which is hereby acknowledged, the following

described real estate in St. Joseph County, in the State of Indiana:

See Exhibit A, Legal Description, attached hereto and incorporated herein by reference.

Subject to: General taxes for 1983 and subsequent years; easements of record; leases and tenancies; roads and highways, if any; Mortgage dated January 7, 1975 to The Travelers Insurance Company, recorded January 7, 1975 in Mortgage Record 1141, pages 41-68 and Indenture of Trust dated July 1, 1973 to The St. Joseph Bank and Trust Company, recorded August 1, 1973 in Mortgage Record 1098, pages 417-497.

The Grantor warrants under oath that there is no Indiana Gross Income Tax due and payable at this time.

FILED NO. WANDA K...
MAR 28 3 12 PM '84
ST. JOSEPH CO. INDIANA
FILED FOR RECORD

DULY ENTERED FOR RECORD
ST. JOSEPH, INDIANA

The undersigned persons executing this deed on behalf of Grantor represent and certify that they are duly elected officers of Grantor and have been fully empowered, by proper resolution of the Board of Directors of Grantor, to execute and deliver this deed; that Grantor has full corporate capacity to convey the real estate described herein; and that all necessary corporate action for the making of such conveyance has been taken and done.

IN WITNESS WHEREOF, Grantor has caused this deed to be executed this 28th

day of March, 19 84

Allied Products Corporation
(Name of Corporation)

By [Signature] Signature
Kenneth B. Light, Executive Vice David B. Corvine, Assistant Secretary
President Printed Name, and Office Printed Name, and Office

STATE OF INDIANA }
COUNTY OF } SS: Kenneth B. Light

Before me, a Notary Public in and for said County and State, personally appeared David B. Corvine the Executive Vice President and David B. Corvine Assistant Secretary of Allied Products Corporation, respectively of Indiana who acknowledged execution of the foregoing Deed for and on behalf of said Grantor, and who, having been duly sworn, stated that the representations therein contained are true.

Witness my hand and Notarial Seal this 28th day of March, 19 84
Notary Public
My Commission Expires November 22, 1984 One First National Plaza, Chicago, IL 60603-2085

APPENDIX B-III

Zoning Map

APPENDIX C

Building Permits

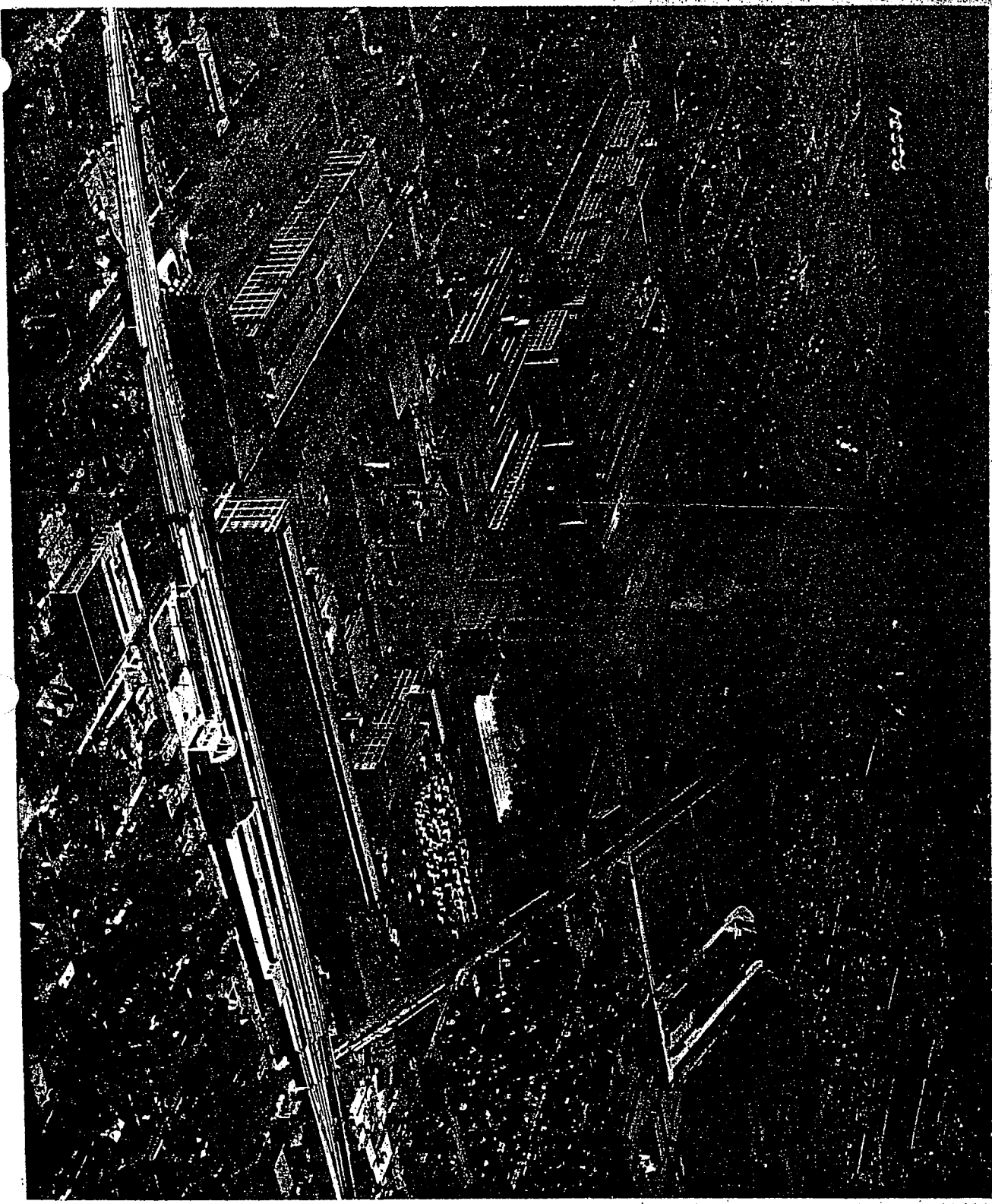
No Building Permits were available at the City of South Bend Department of Building Maintenance for the Property A Addresses.

S-9929
From Neg - 10698

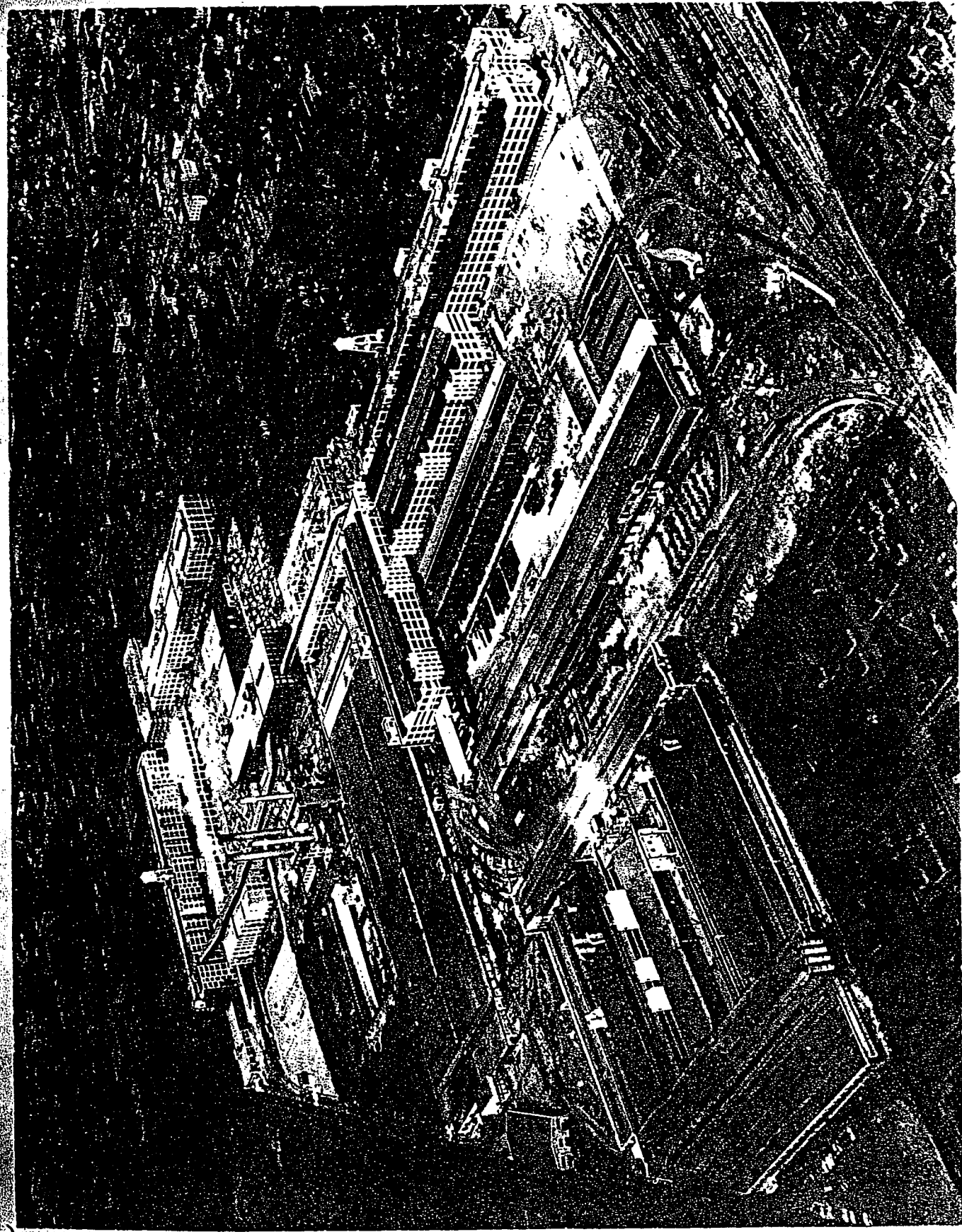
Ready Stephen Photo graph

1929

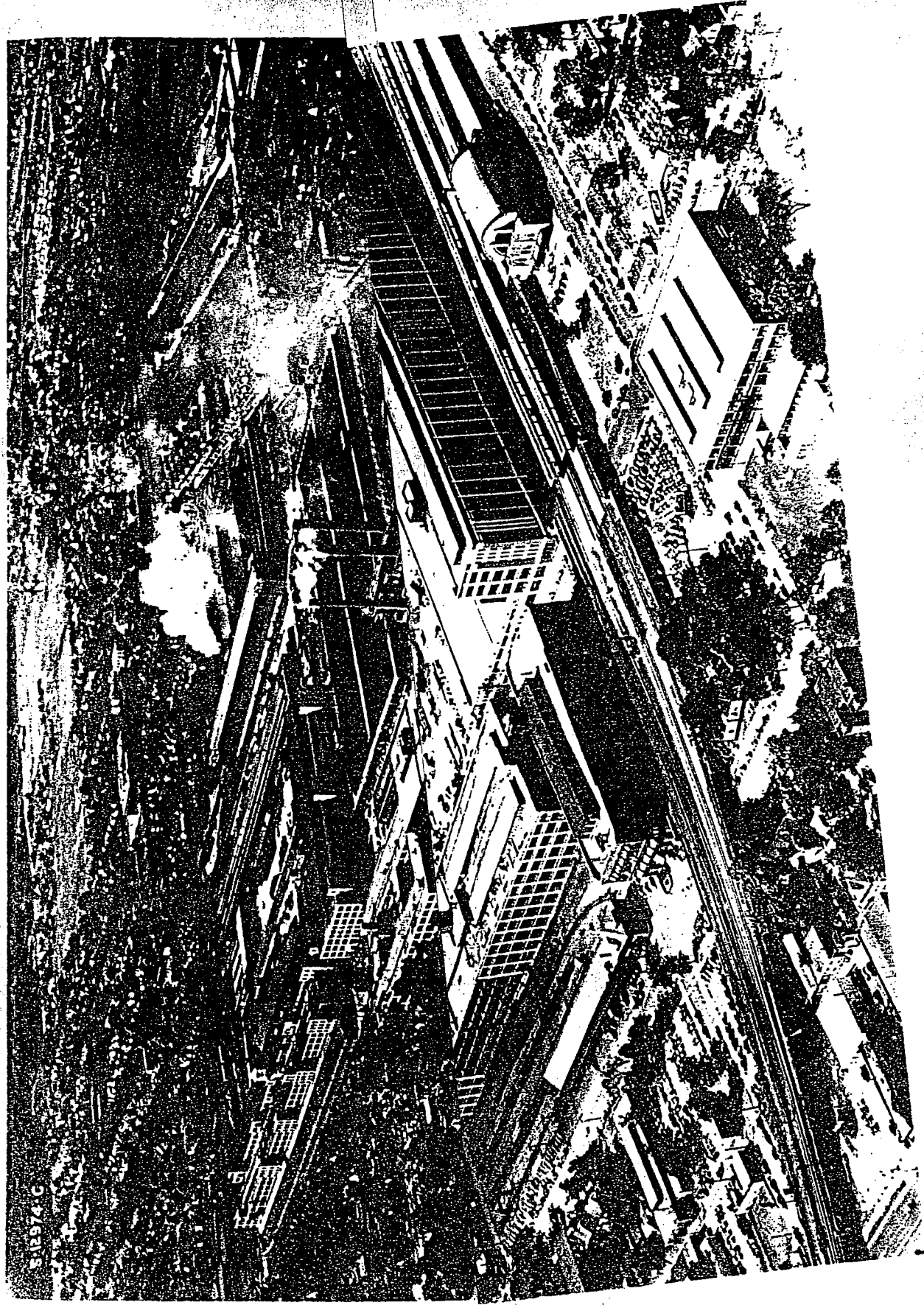
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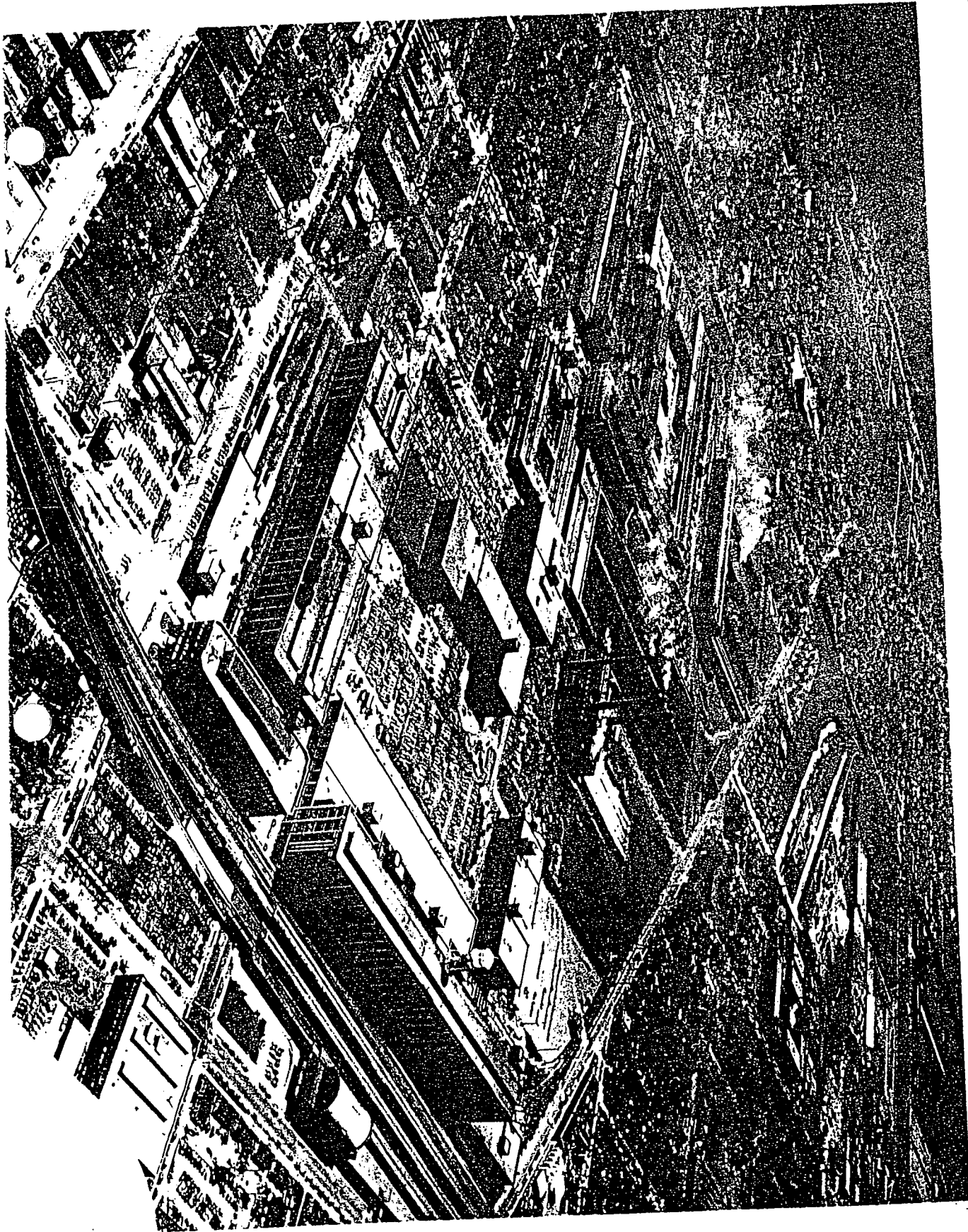
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LH61



1947

1947

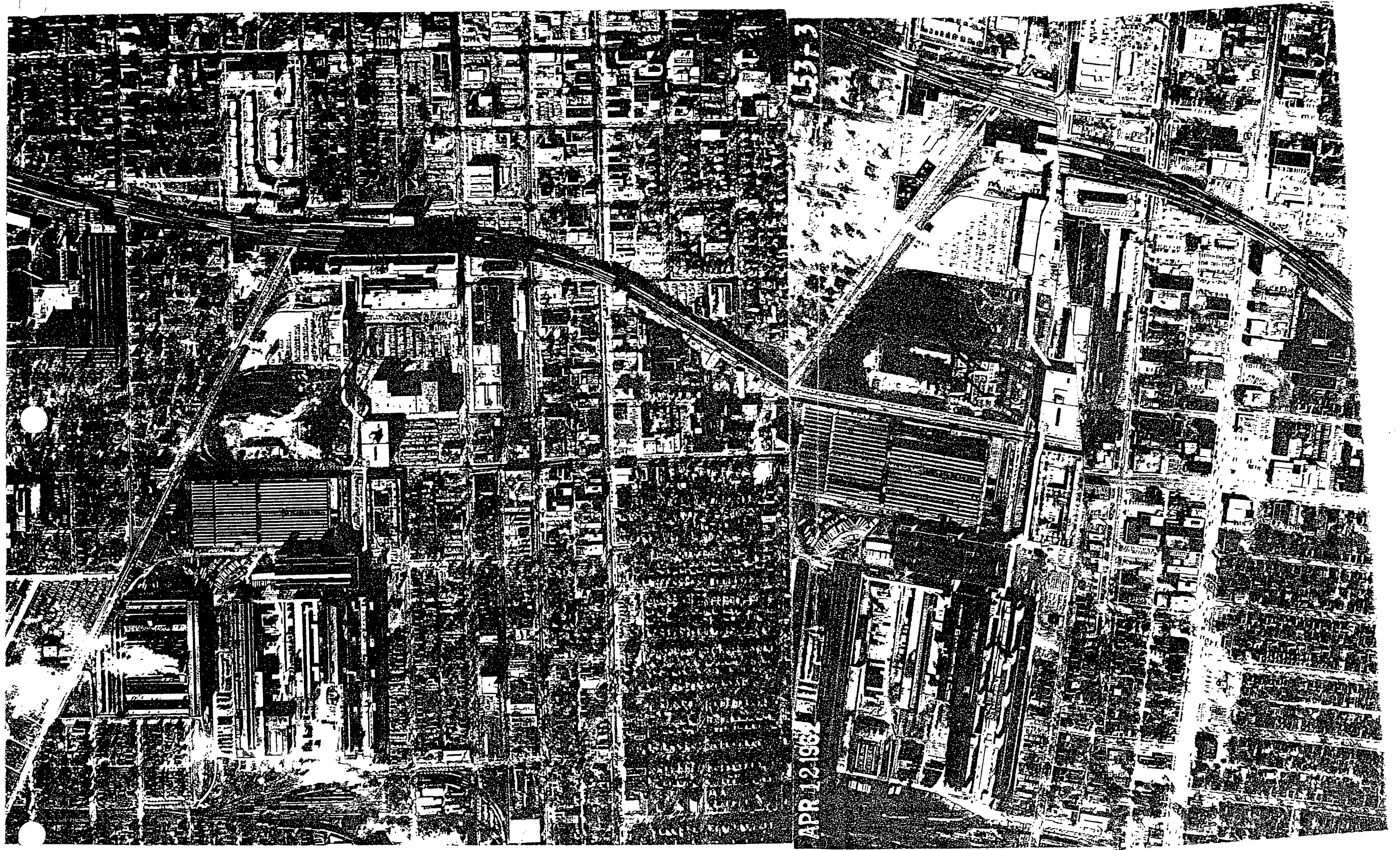




1948 AIR VIEW OF THE SHIPYARD FACTORY

1948

212

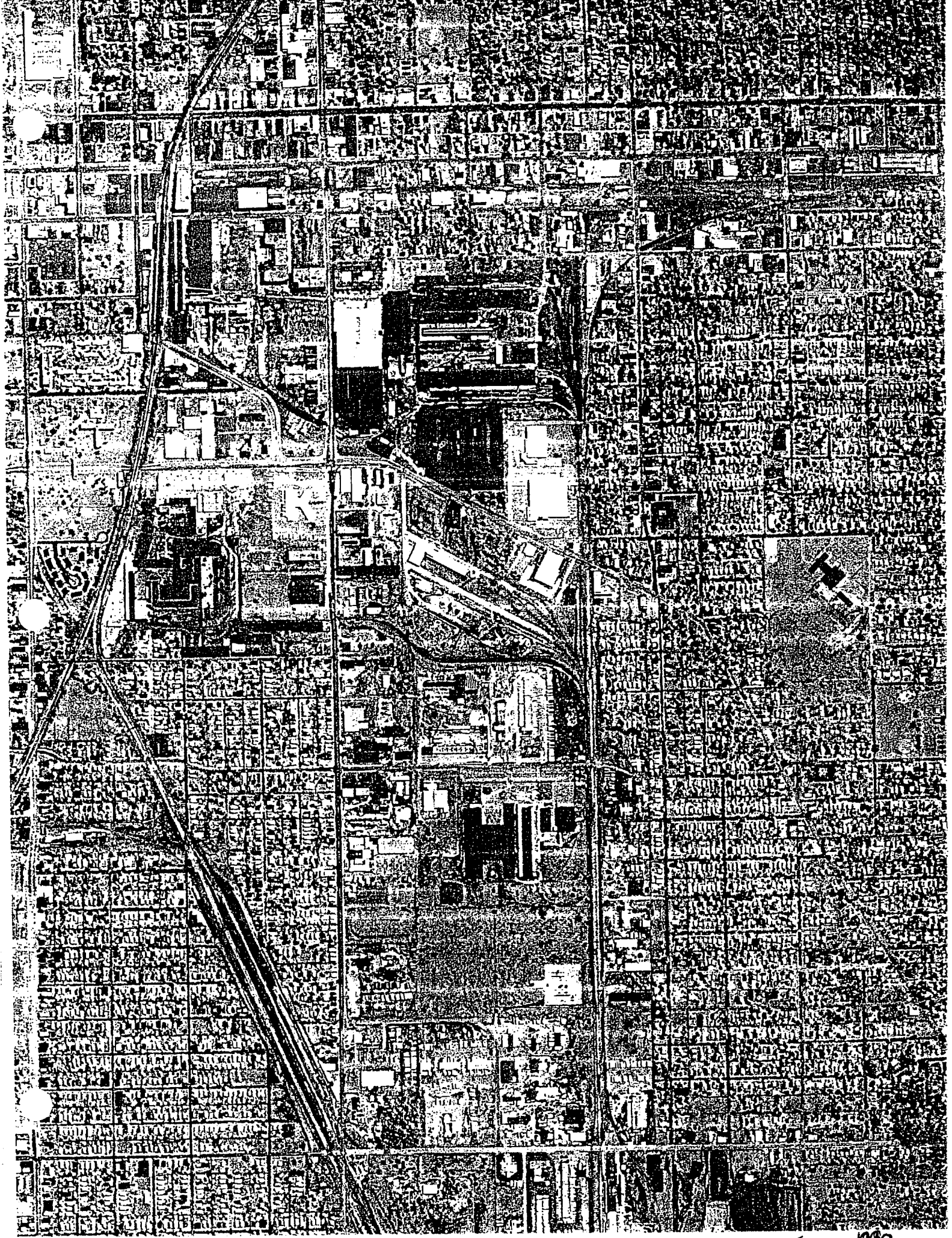


153-3

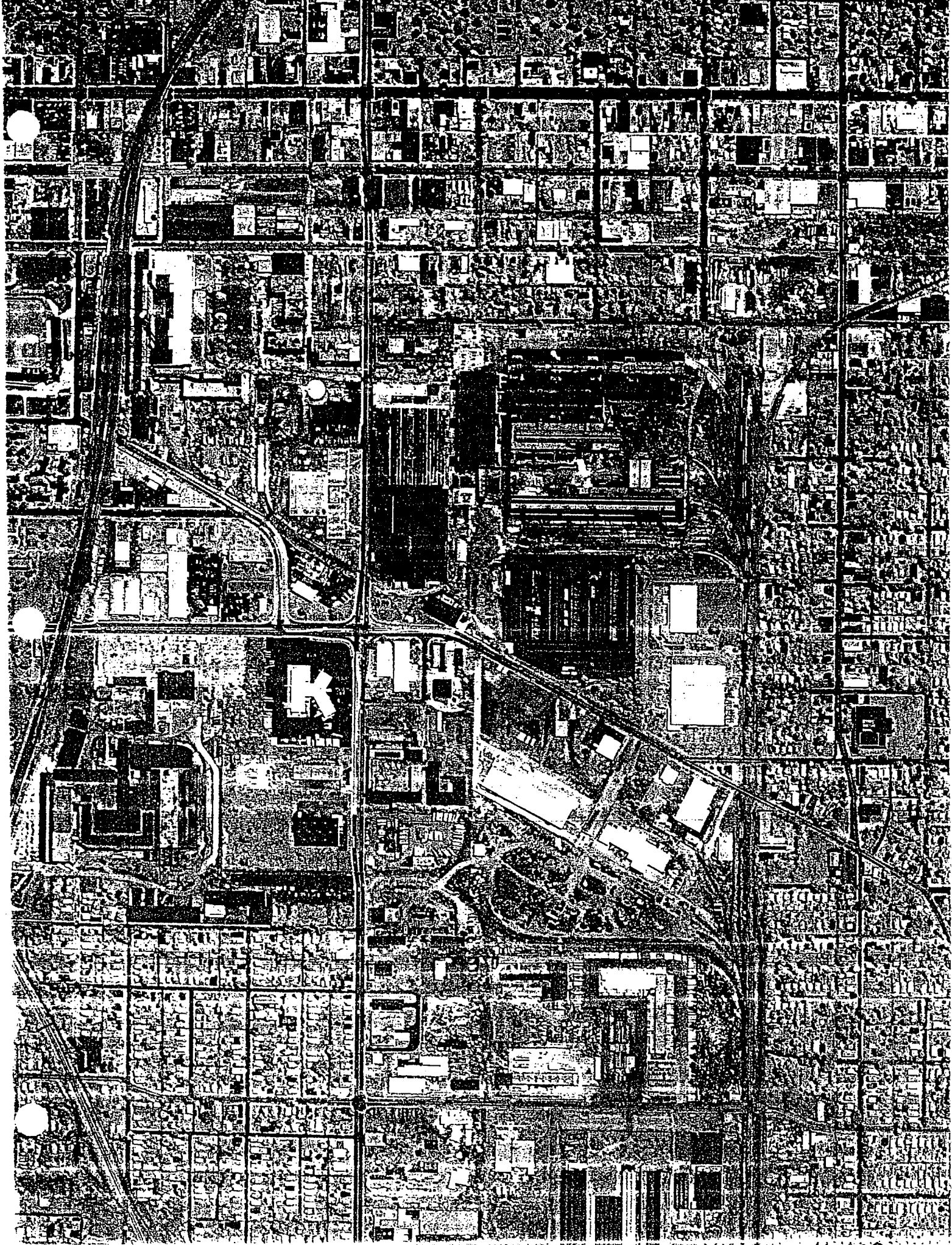
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1961 ↑

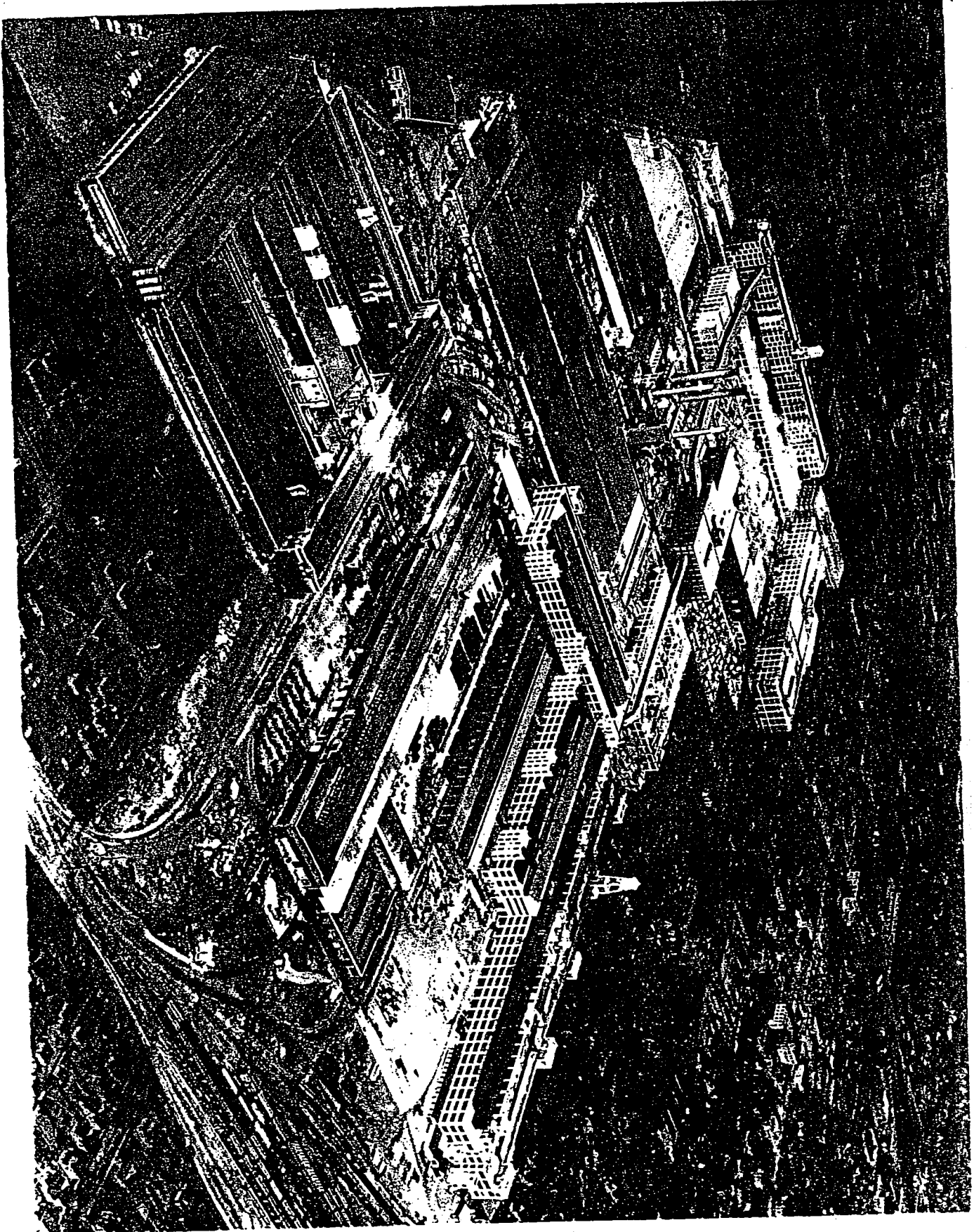
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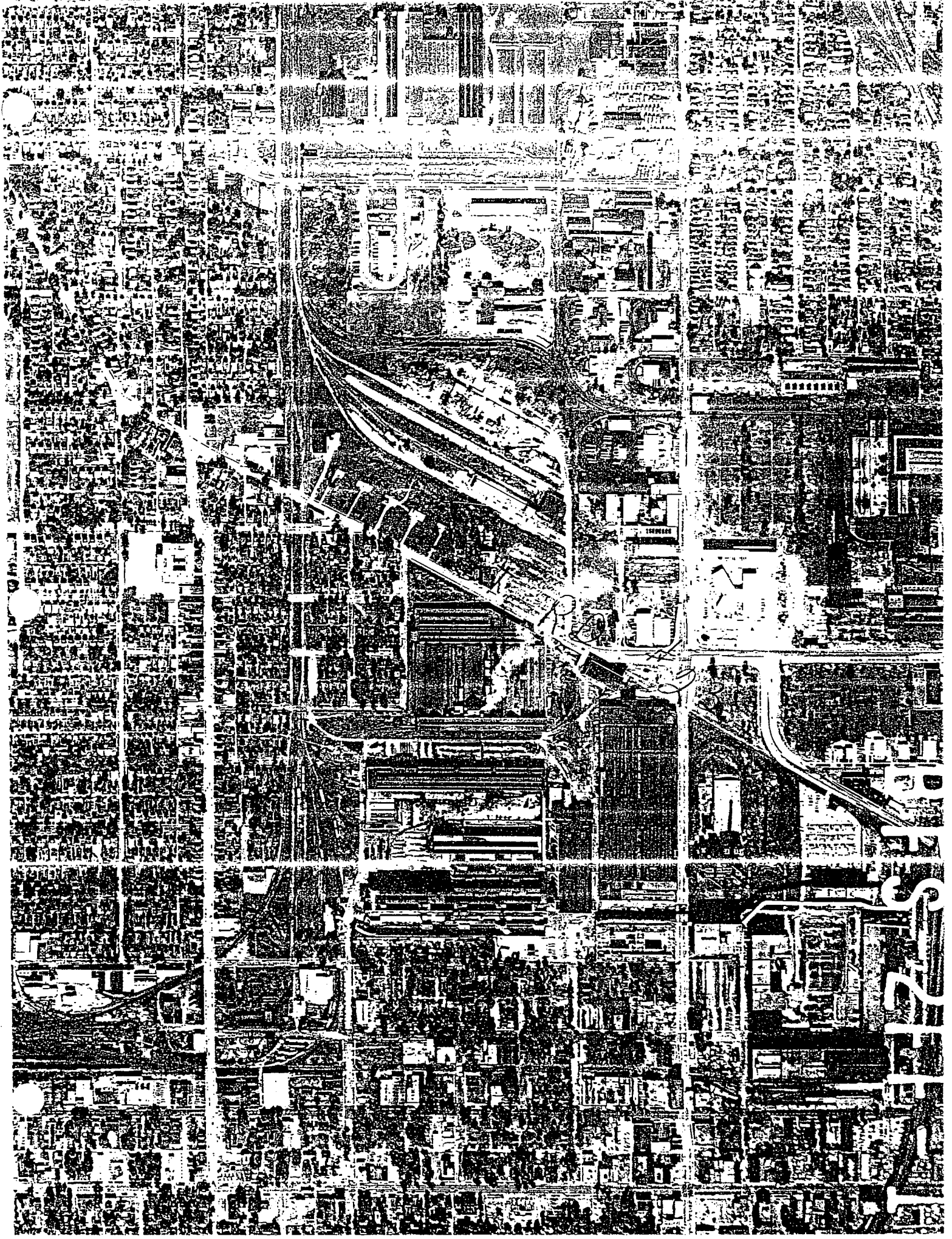
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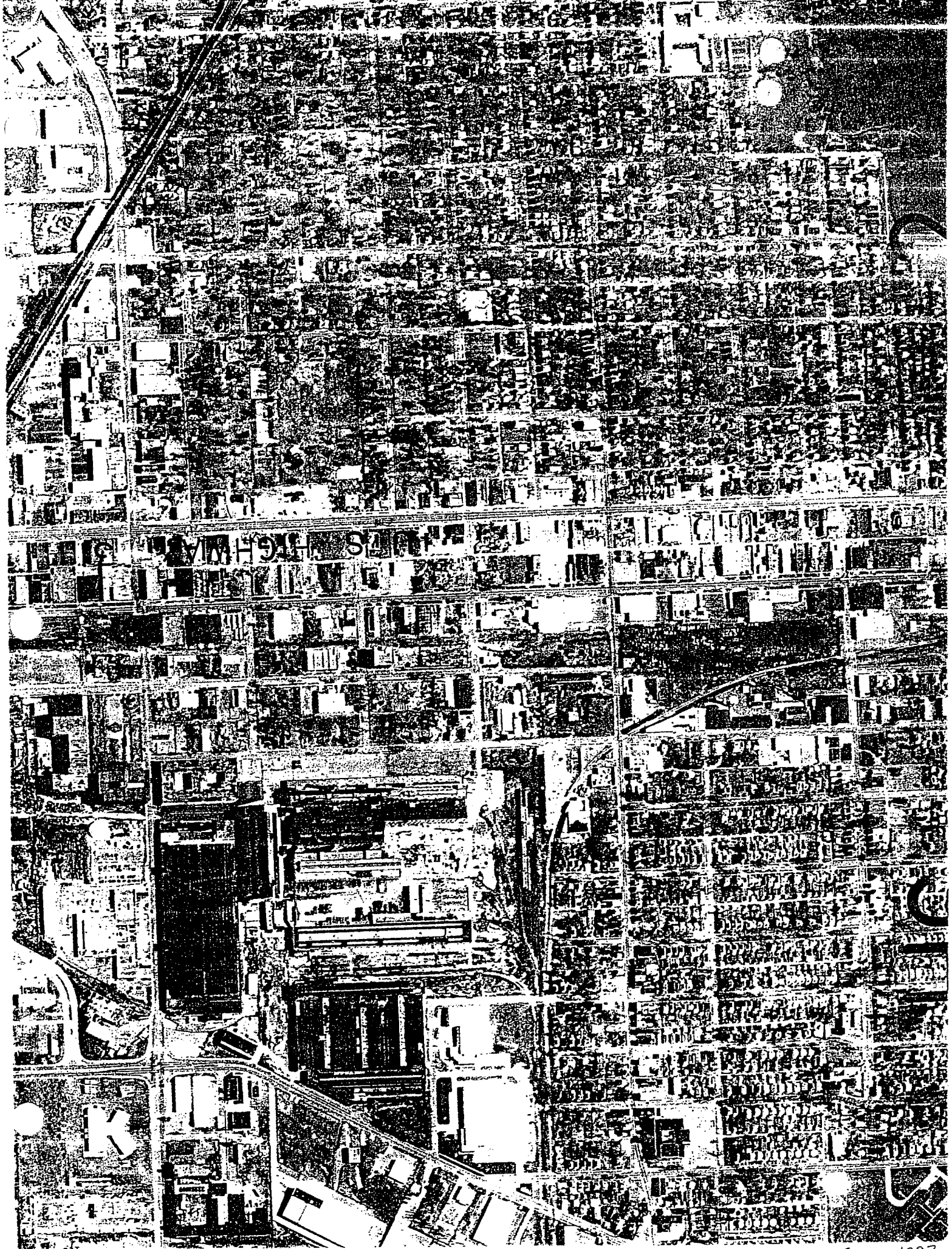


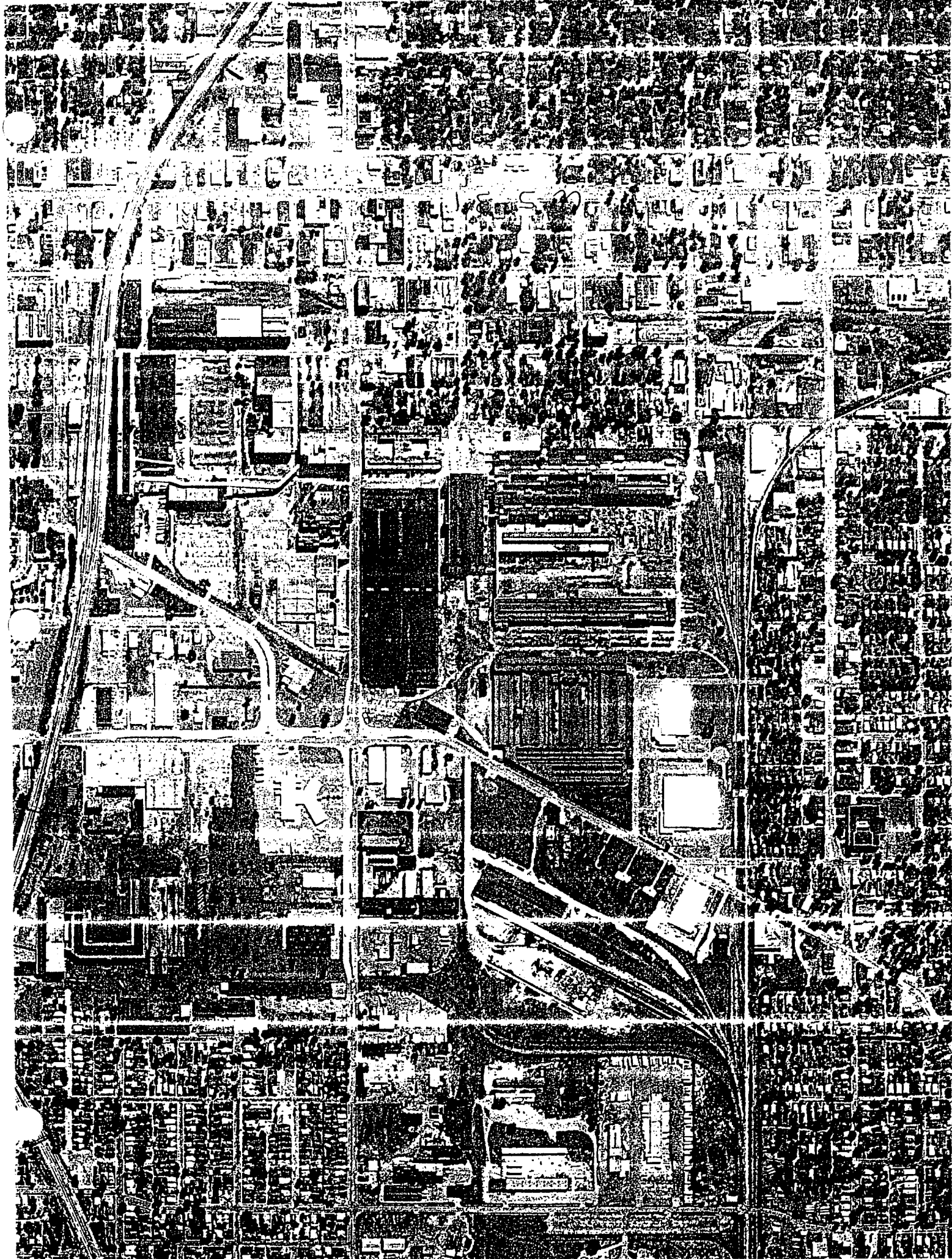
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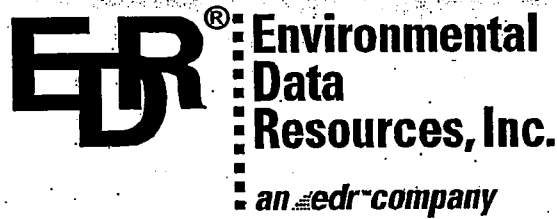






APPENDIX E

Fire Insurance Maps



"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Mike Coonfare

Hull & Associates, Inc.

3401 Glendale Avenue

Toledo, OH 43614

1021545SXM

419-385-2018

Order Date: 11/9/2000

Completion Date: 11/10/2000

Inquiry #: 562243.5S

P.O. #: sbi002

Site Name: South Bend Stamping, Et Al.

Address: 601 West Broadway

City/State: South Bend, IN 46619

Cross Streets: Franklin

Based on client-supplied information, fire insurance maps for the following years were identified

1891 - 1 - map

1893 - 1 - map

1899 - 3 - maps

1917 - 3 - maps

1949 - 2 - maps

1980 - 2 - maps

Total Maps: 12

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- Second Page Electronic Sanborn Map Images USER'S GUIDE
- Third Page Oldest Sanborn Map Image
- Last Page Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

- Open file on screen.
- Identify TP (Target Property) on the most recent map.
- Find TP on older printed images.
- To view the image more clearly, zoom to 250%.
 - 200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.
 - Viewing above 400% will tend to pixelate the display.
- Zooming in on an image:
 - Click on the % in the lower left hand corner and type in ____%.
 - Use the magnifying tool and drag a box around the TP area.

Printing a Sanborn Map from the Electronic File

- EDR recommends printing all images at 300 dpi (300 dpi prints faster than 600 dpi).
- To print only the TP area, cut and paste the area from Adobe Acrobat to your word processor.

For Adobe Acrobat Version 3

- Go to the Menu Bar.
- Highlight 'Tools'.
- Highlight 'Select Graphics'.
- Draw a box around the area of interest.
- Go to the Menu Bar.
- Highlight 'Edit'.
- Highlight 'Copy'.
- Go to a word processor such as Microsoft Word and paste. Print from the word processor.

For Adobe Acrobat Version 4

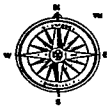
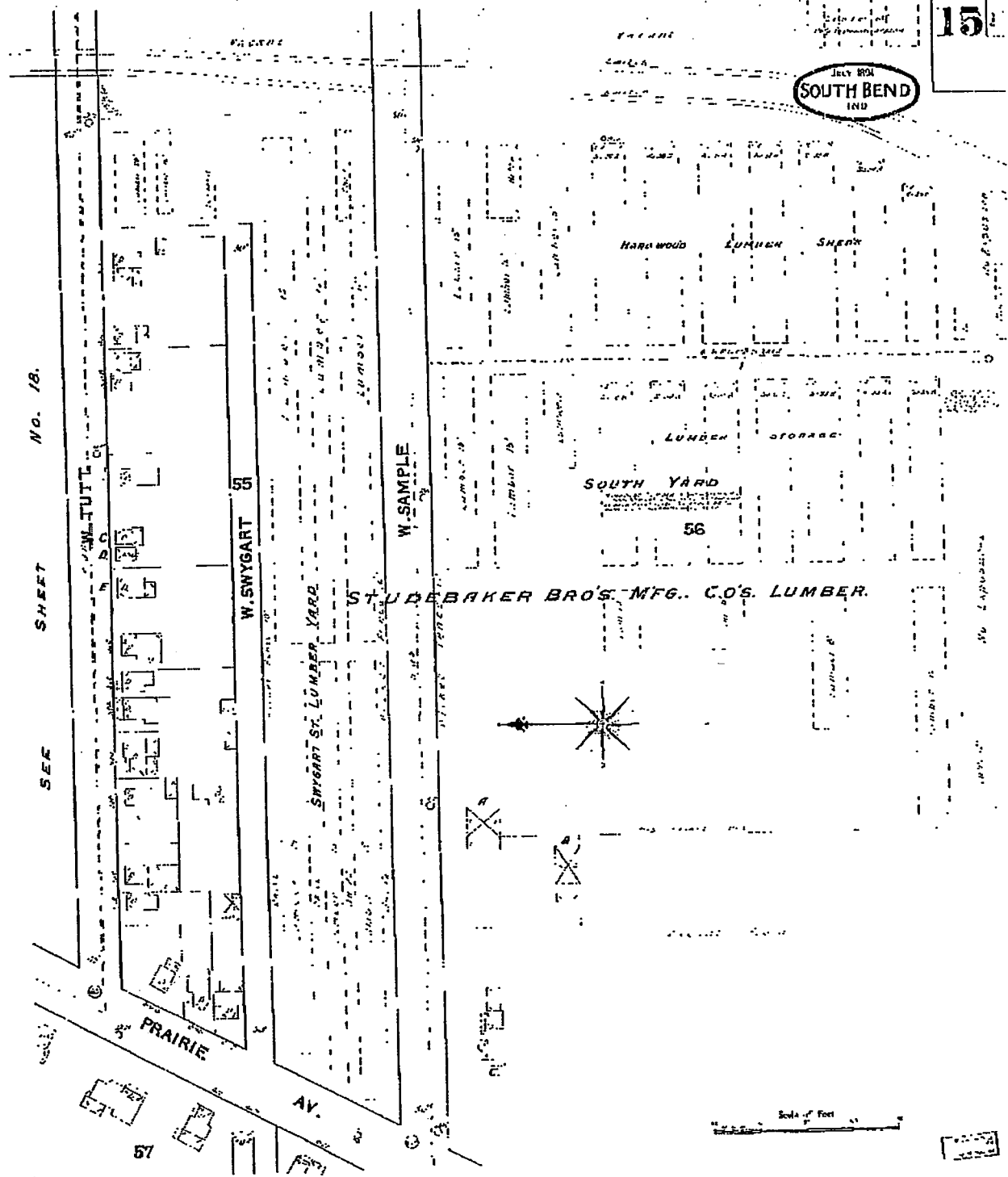
- Go to the Menu Bar.
- Press and hold the 'T' button.
- Choose the Graphics Select Tool.
- Draw a box around the area of interest.
- Go to the Menu Bar.
- Highlight 'Edit'.
- Highlight 'Copy'.
- Go to a word processor such as Microsoft Word and paste. Print from the word processor.



Important Information about Email Delivery of Electronic Sanborn Map Images

- Images are grouped into one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as 1 of 3, 2 of 3, etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.

JULY 1891
SOUTH BEND
IND.

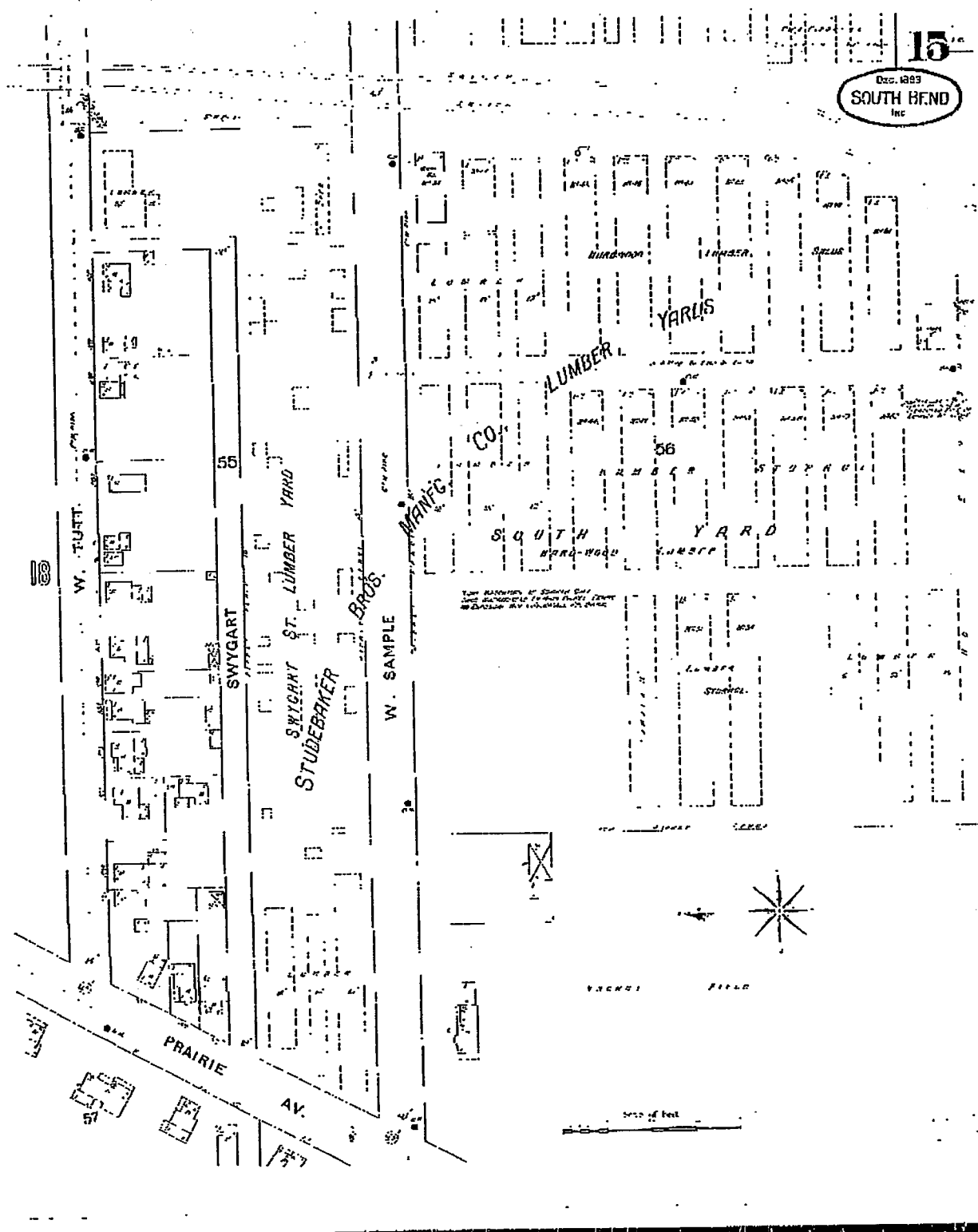


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57

51

52

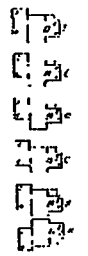
STUDEBAKER

LUMBER

YARD

MFG

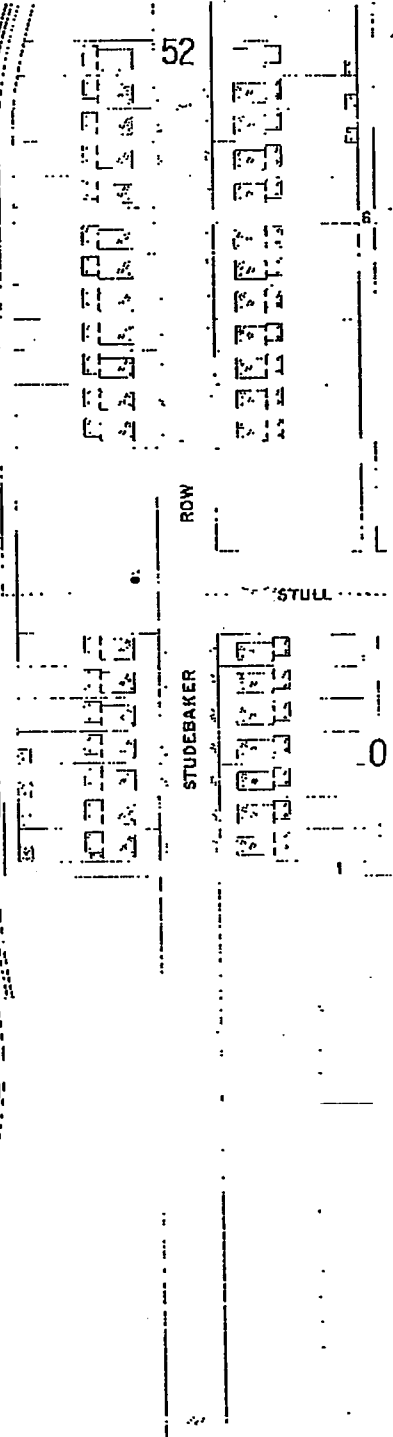
Co.



SCOTT

Iron Case

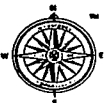
Scale of Feet



ROW

STUDEBAKER

STULL

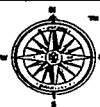
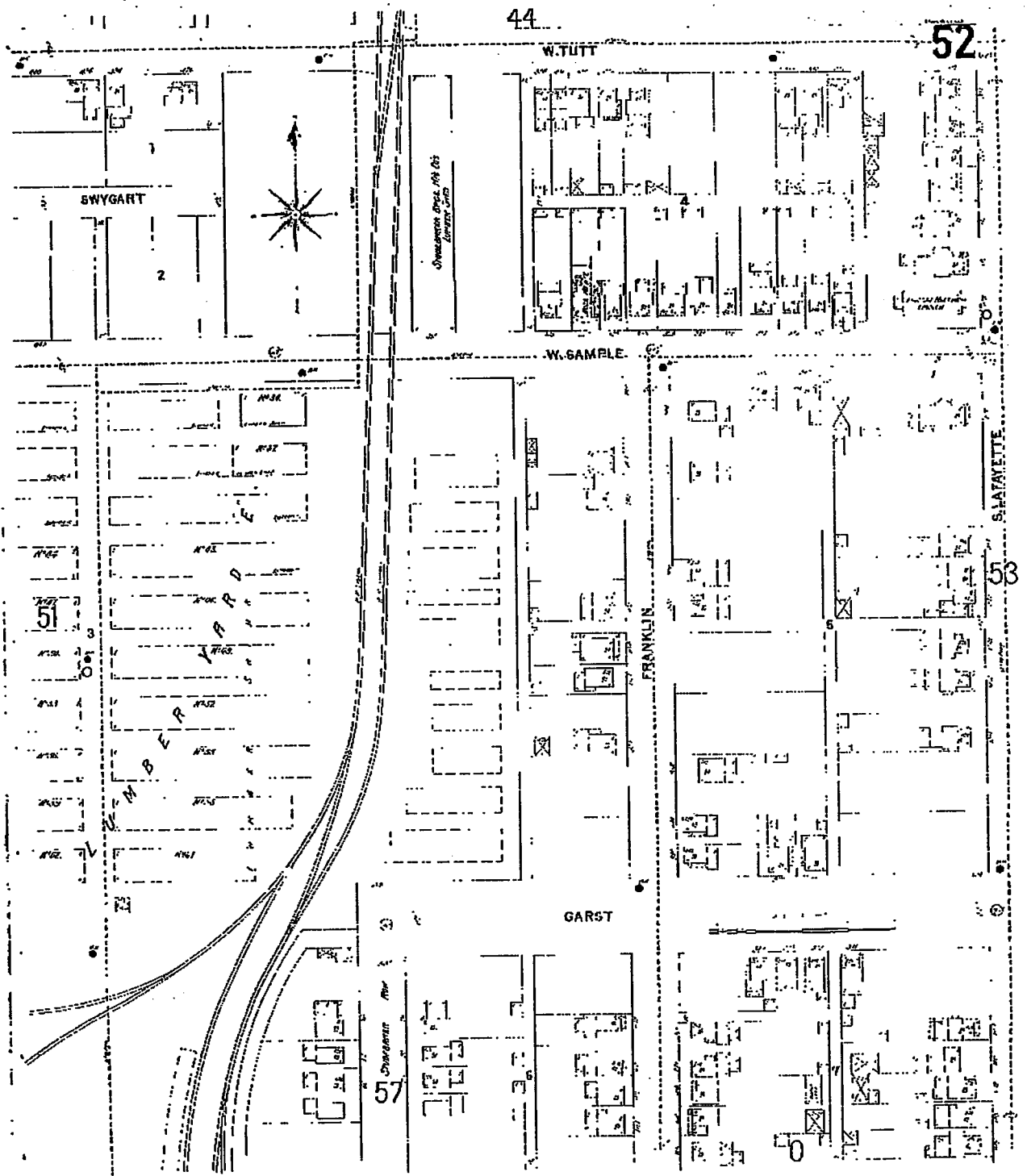


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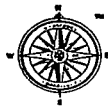
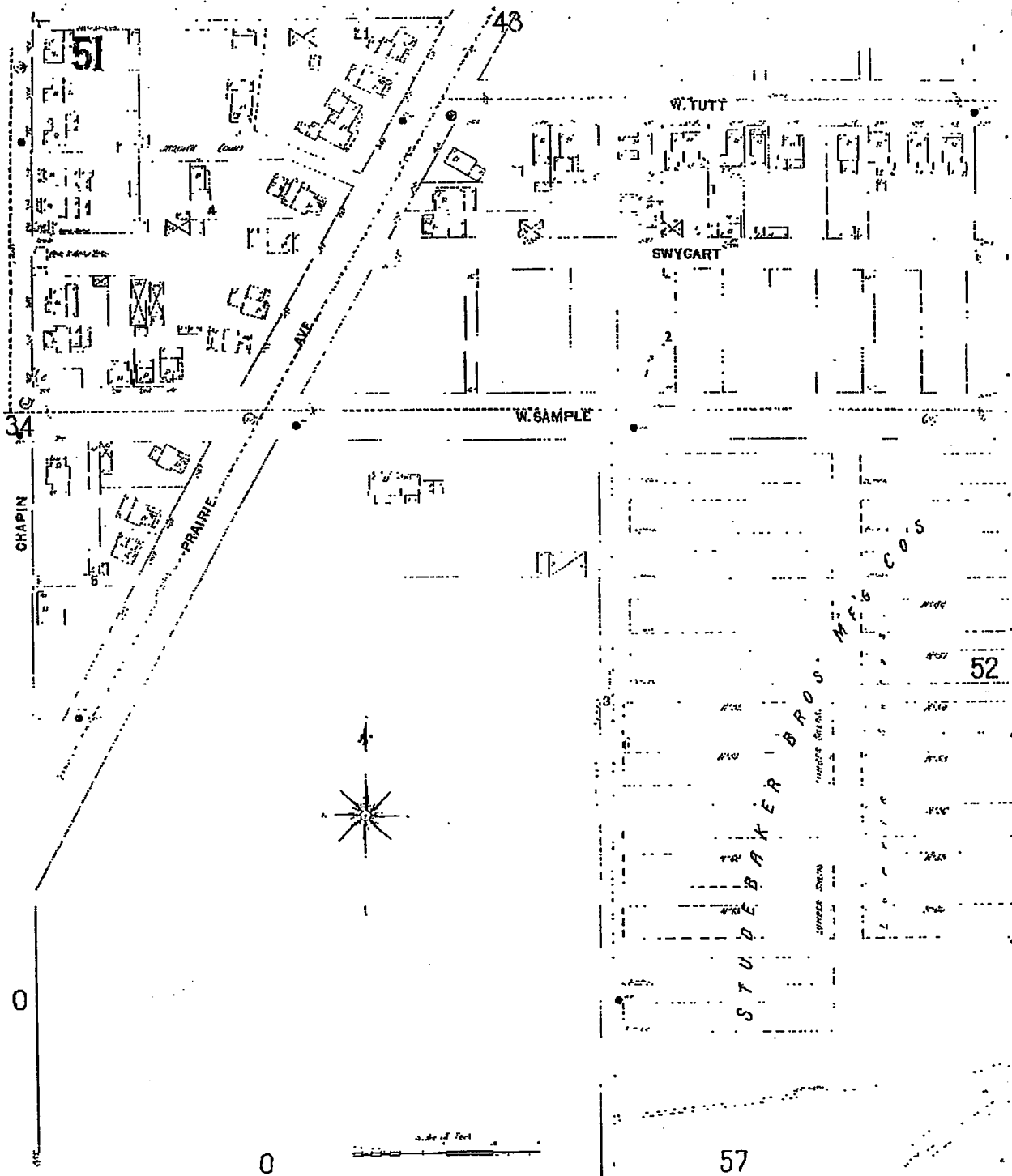


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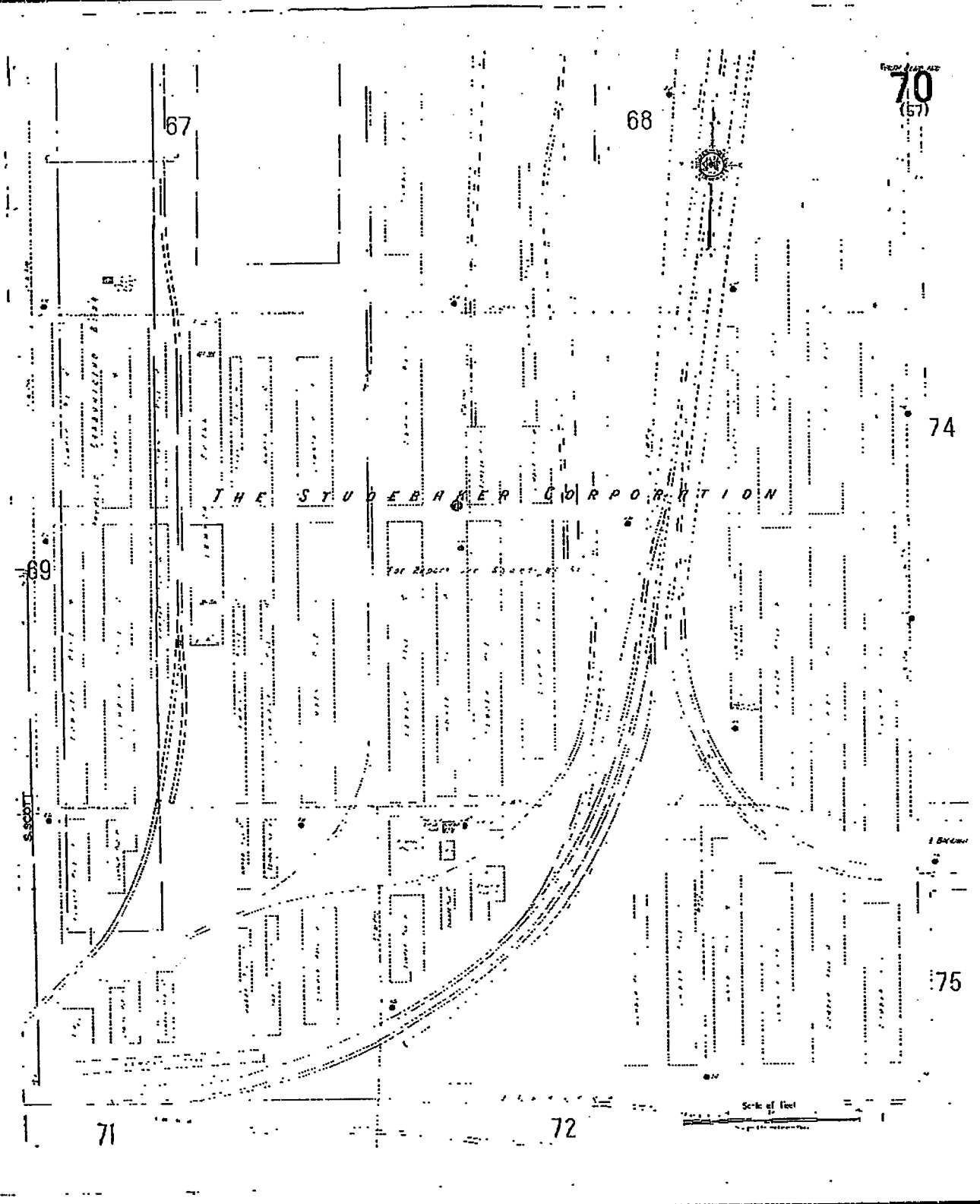


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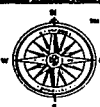
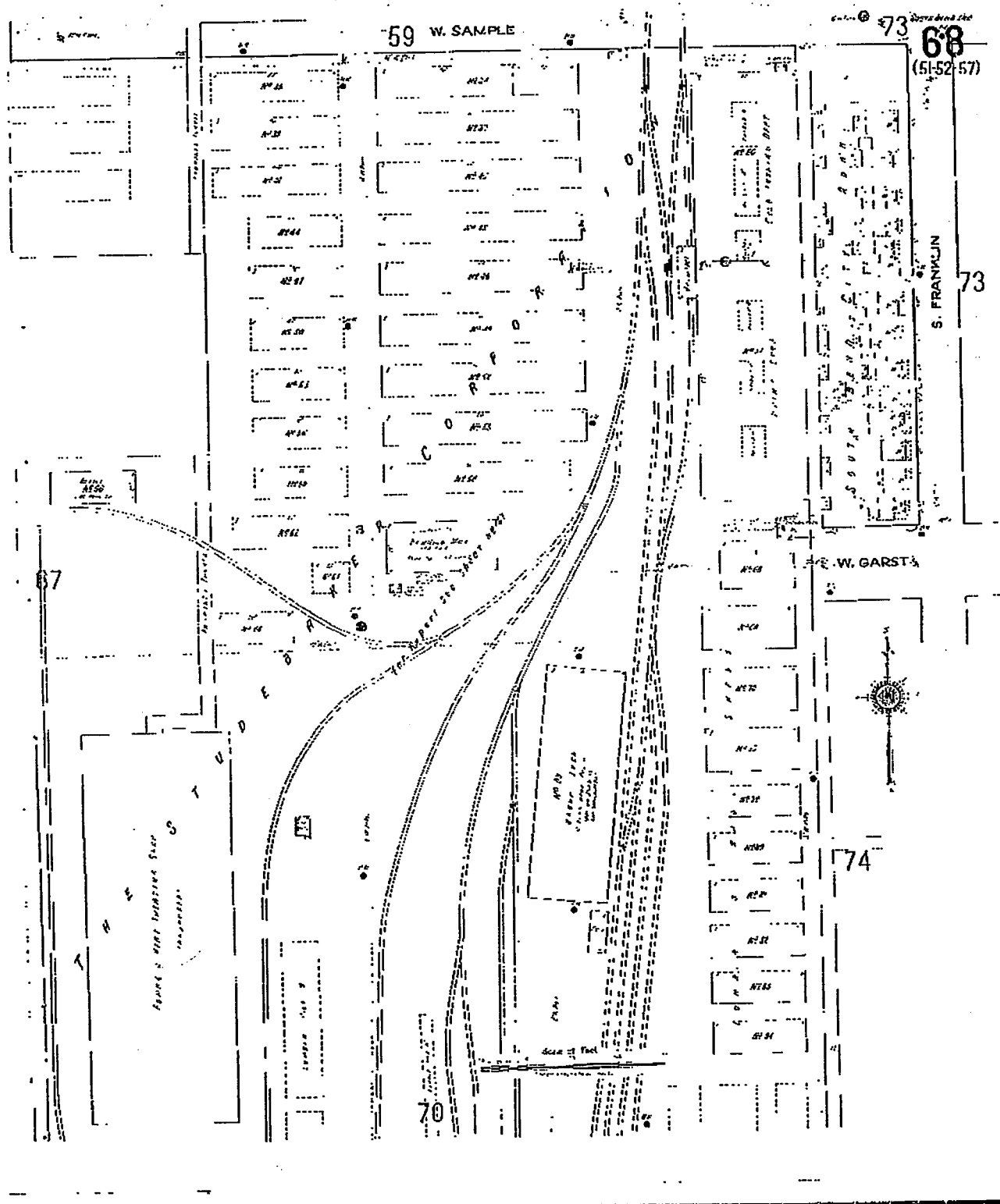


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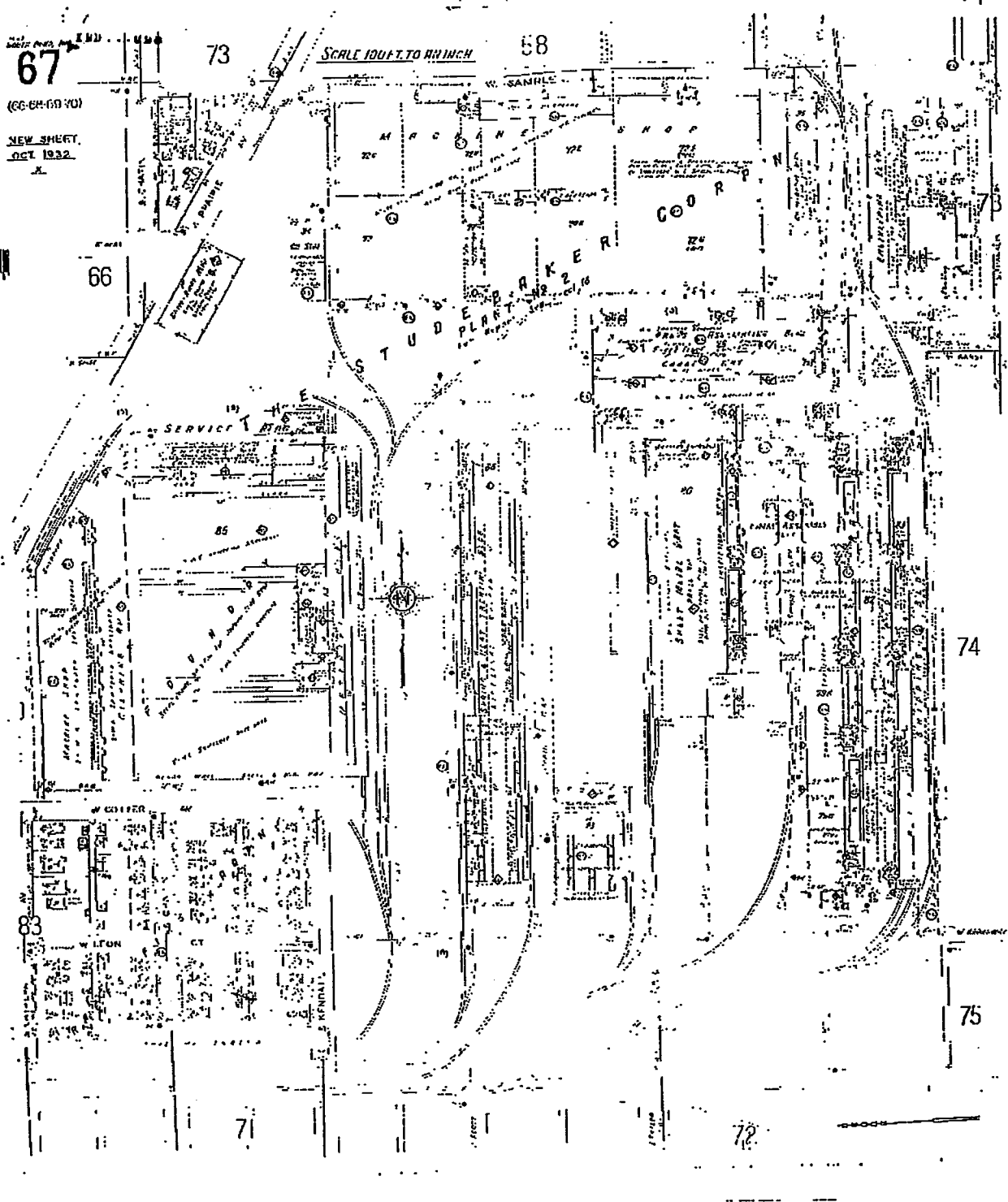
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67
(66-67-68-70)
NEW SHEET
OCT 1932
X

SCALE 100 FT. TO AN INCH

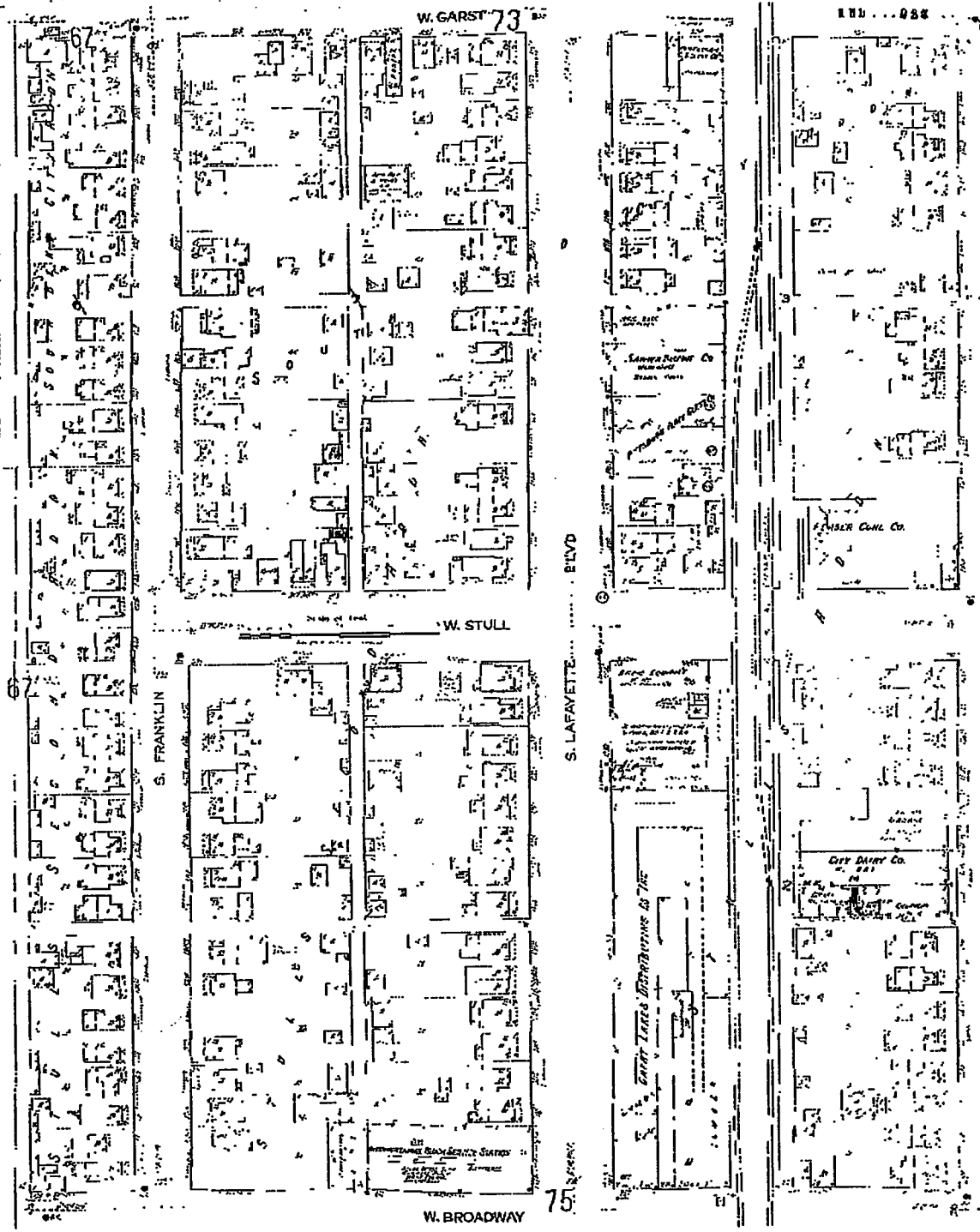


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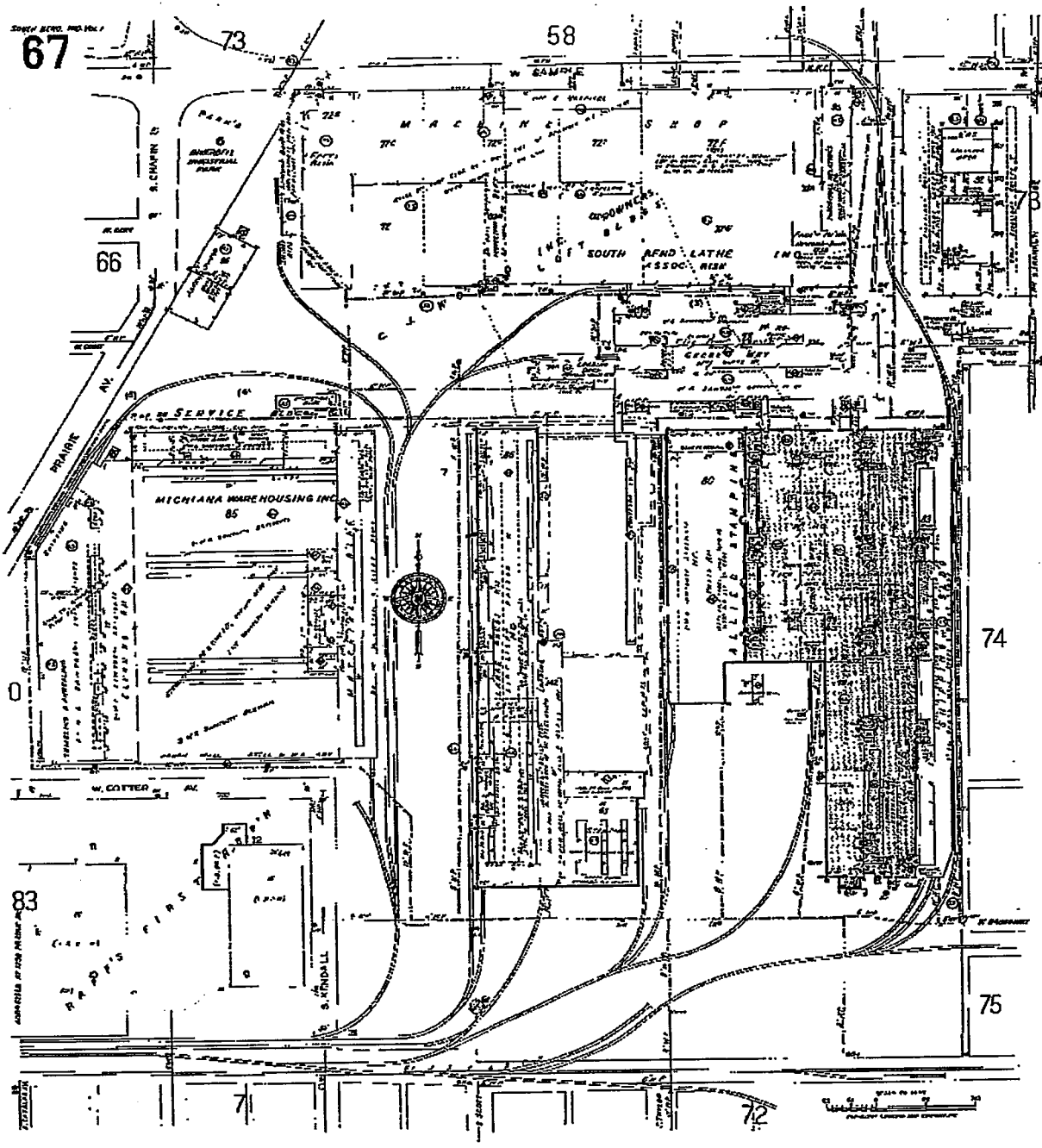


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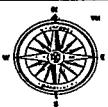
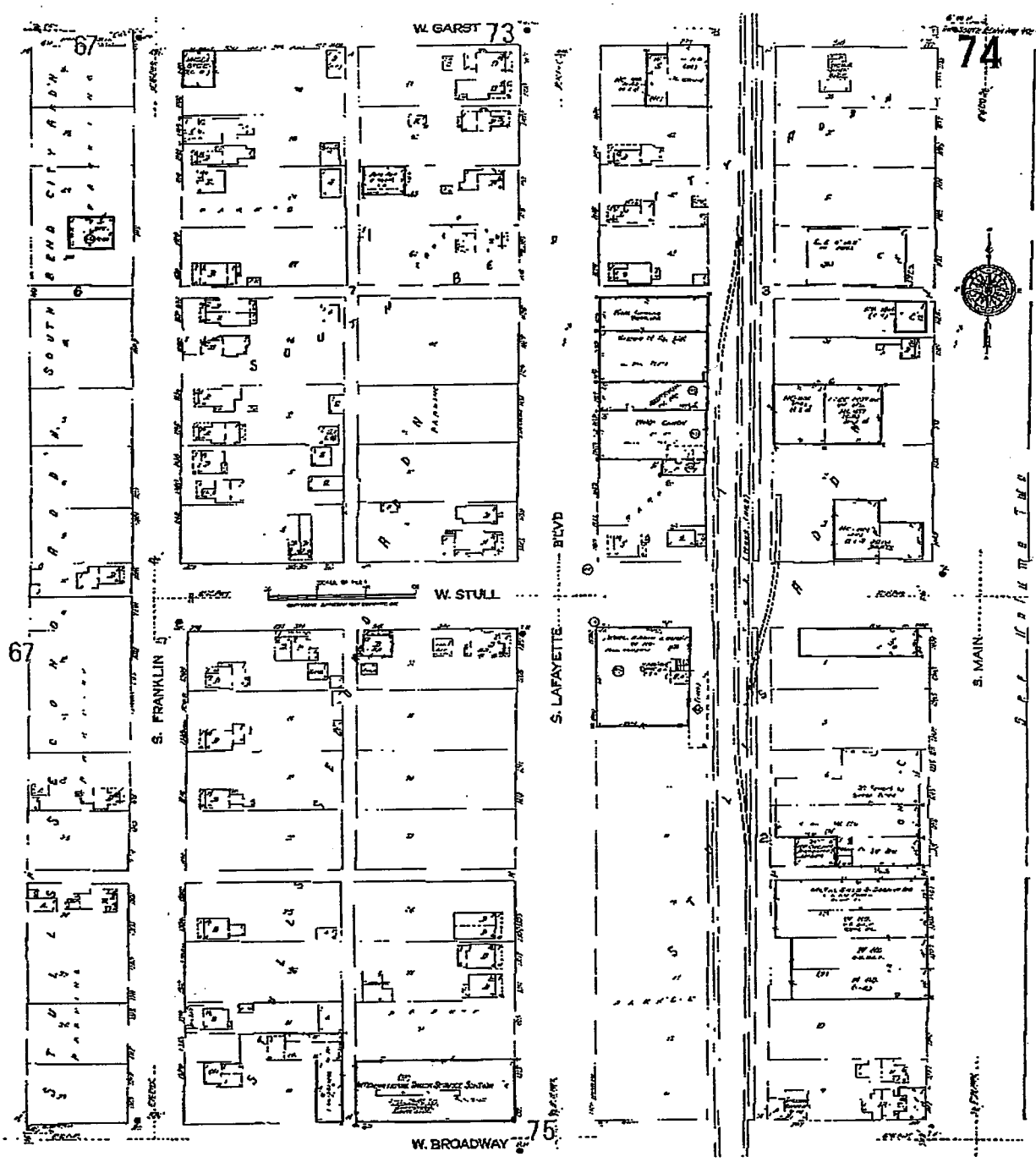


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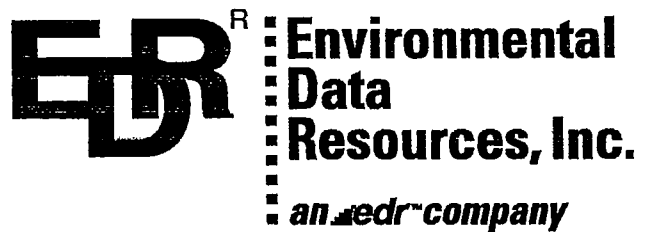
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APPENDIX F

Historical Topographic Maps



**The EDR-Historical
Topographic Map
Report**

**South Bend Stamping, Et Al.
601 West Broadway
South Bend, IN 46619**

November 11, 2000

Inquiry Number: 562243-6

***The Source
For Environmental
Risk Management
Data***

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Quadrangle Relation Chart

Inquiry # 562243-5

SOUTH BEND WEST, IN

SOUTH BEND EAST, IND



Environmental Data Resources, Inc. Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area, resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

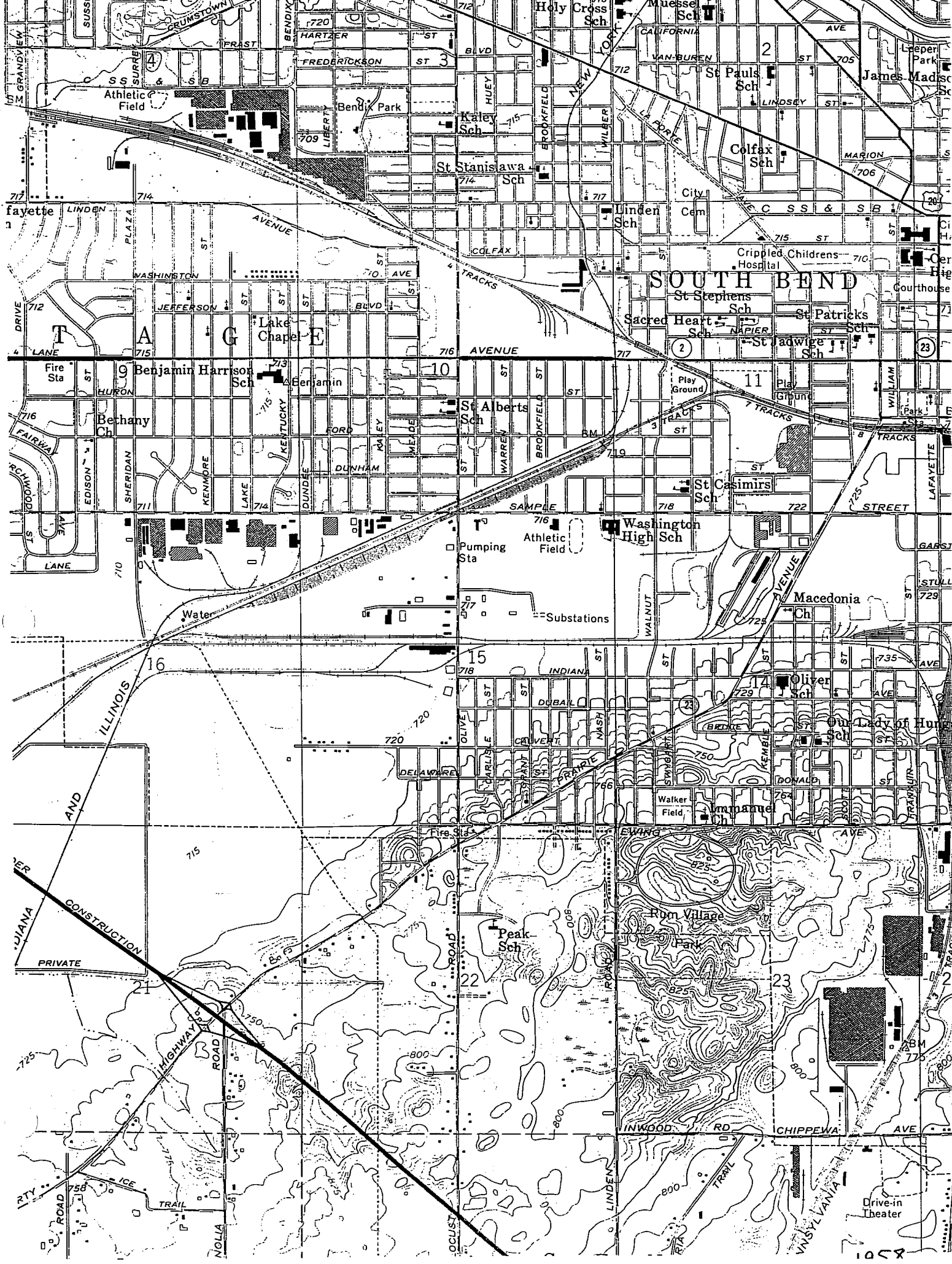
To meet the prior use requirements of ASTM E 1527-00, Section 7.3.2, the following *standard historical sources* may be used: aerial photographs, city directories, fire insurance maps, topographic maps, property tax files, land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-00 requires "*All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.*" (ASTM E 1527-00, Section 7.3.2 page 11.)

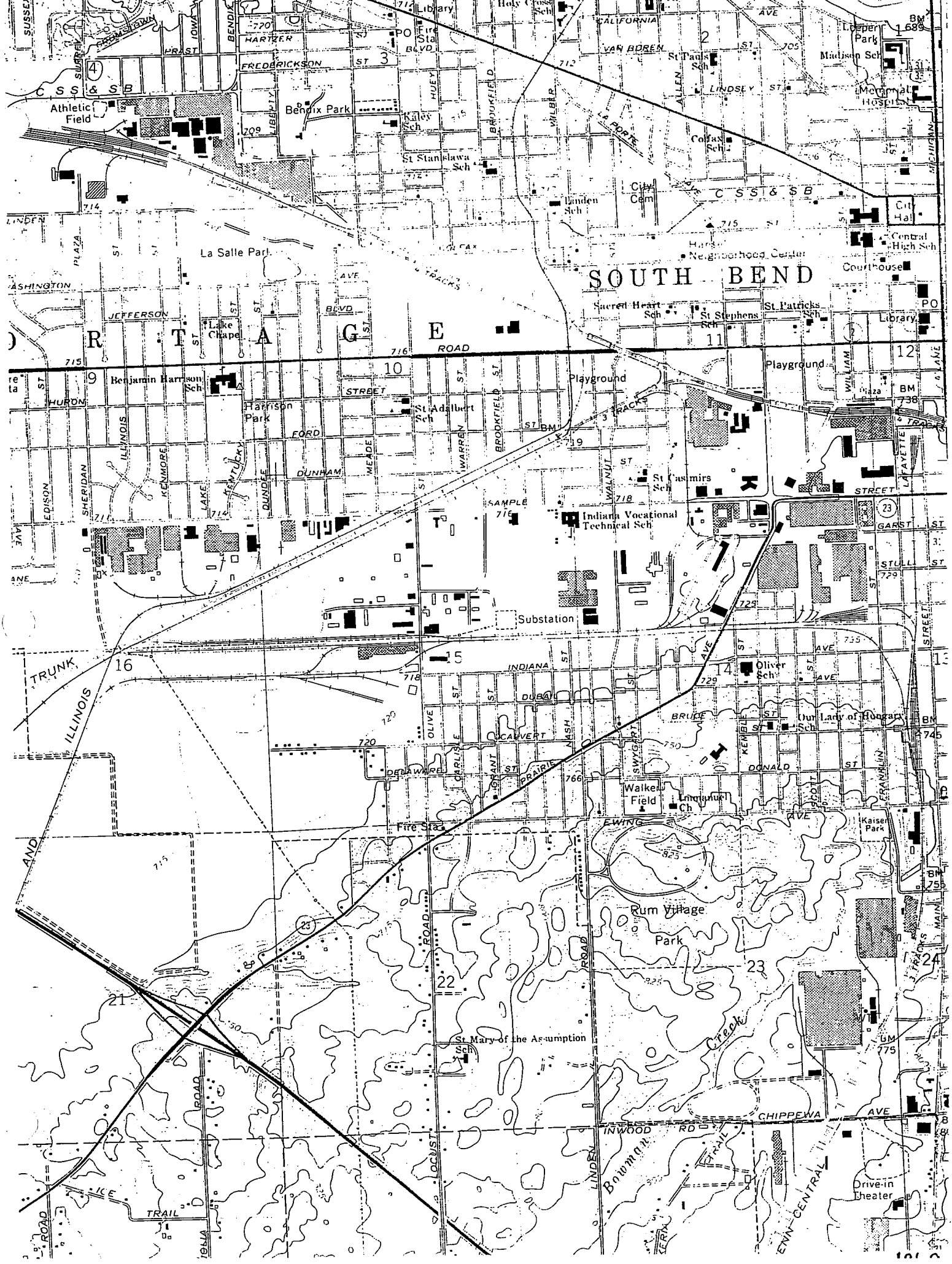
EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

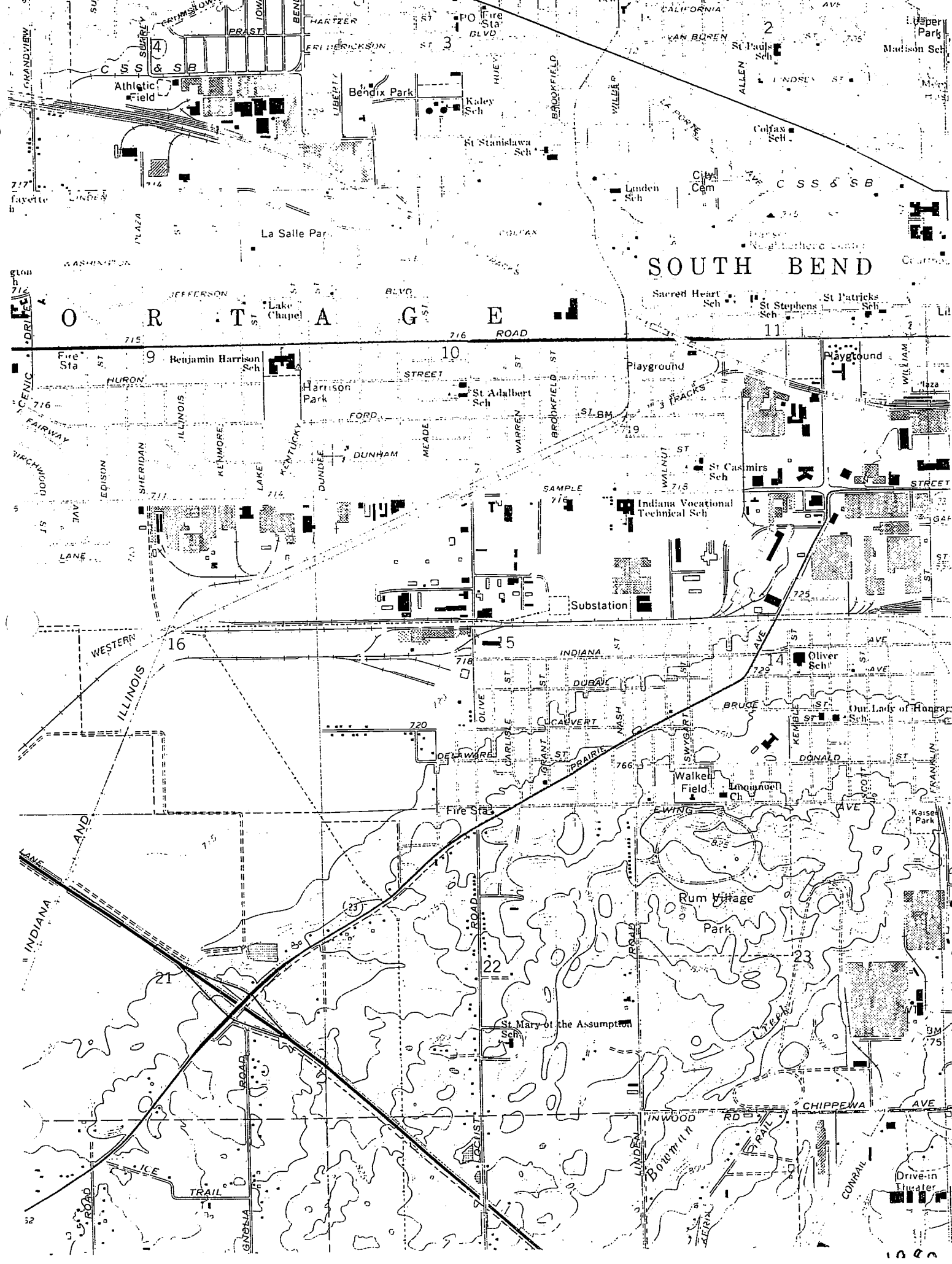
Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black); and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.







SOUTH BEND

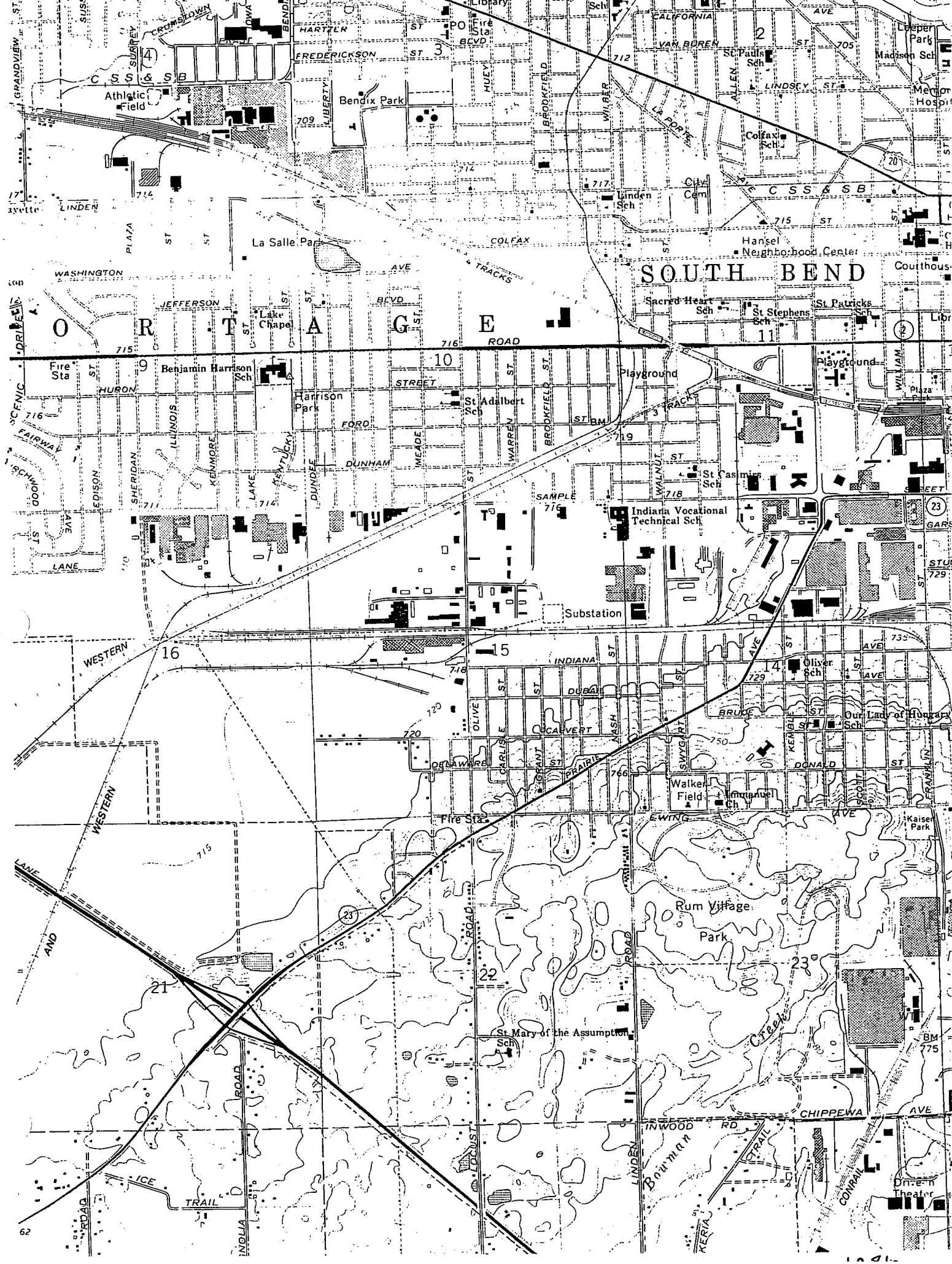
O R T A G E

9 10 11

16 15 14

21 22 23

24 25 26



SOUTH BEND

APPENDIX G

IDNR Records

APPENDIX G-I

Well Logs

Record of Water Well

Indiana Department of Natural Resources

Date completed

Driving directions to well

Reference Number

72816

Fri, Oct 29, 1948

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
STUDEBAKER CORP.

Telephone

Address
LAYNE-NORTHERN COMPANY, INC. MISHAWAKA, IN
LLOYD NESS License:

Construction Details
Well

Use: INDUSTRY
Depth: 81.0
Length: 57.0
Length: 14.0

Drilling method:
Pump setting depth:
Material:
Material:

Pump type:
Water quality:
Diameter: 12.0
Diameter: Slot size:

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: 250.0 gpm for hrs.
Static water level: 38.0 ft.

Ball/Test rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: NW 1/4 of the NE 1/4 of the NE 1/4 of Section 14

Topo map: SOUTH BEND WEST

Field located by:
Courthouse location by:
Location accepted w/o verification by:
Subdivision name:
Ft W of EL:
Ground elevation: 725.0
UTM Easting: 561800.0

Township: 37N Range: 2E
on:
on:
on:
Lot number:
Ft E of WL:
Bedrock elevation:
UTM Northing: 4612600.0

Ft N of SL:
Depth to bedrock:

Ft S of NL:
Aquifer elevation:

Well Log

Top Bottom Formation

Comments

PLOTTED ON BASE MAP. WELL IN 10' PIT.

Record of Water Well

Indiana Department of Natural Resources

Reference Number

72922

Drilling directions to well

Date completed

Sat, Jan 01, 1910

FROM USGS BULLETIN #3, S1 24-5/ 65 FT. NORTH OF SAMPLE STREET AND 960 FT. WEST OF FRANKLIN STREET

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
STUDEBAKER CORP.
SMITH-MONROE

Address

Telephone

License:

Construction Details
Well

Use:
Depth: 101.0
Length: 57.0
Length: 15.0

Drilling method:
Pump setting depth:
Material:
Material:

Pump type:
Water quality:
Diameter: 12.0
Diameter: 11.5 Slot size:

Well Capacity Test

Type of test:
Drawdown: 10.0 ft.

Test rate: 400.0 gpm for hrs.
Static water level: 32.0 ft.

Bail/ Test rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: SW 1/4 of the SE 1/4 of the SE 1/4 of Section 11

Township: 37N Range: 2E

Topo map: SOUTH BEND WEST

Field located by:

Courthouse location by:

Location accepted w/o verification by:

Subdivision name:

FT W of EL:

Ground elevation: 724.0

UTM Easting: 561750.0

FT N of SL:

Depth to bedrock: 94.0

Lot number:

FT E of WL:

Bedrock elevation: 630.0

UTM Northing: 4612700.0

FT S of NL:

Aquifer elevation:

Record of Water Well

Indiana Department of Natural Resources

Reference Number
72826

Driving directions to well

1217 S. WALNUT ST., ABOUT 400 W. OF MAIN ENTRANCE, FROM USGS BULLETIN #3, SJ28-1.

Date completed

Tue, Oct 21, 1941

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
OLIVER FARM EQUIPMENT

Address
820TH AAF DEPOT

Telephone

License:

Construction Details
Well

Use:
Depth: 72.0
Length:
Length:

Drilling method:
Pump setting depth:
Material:
Material:

Pump type:
Water quality:
Diameter: 12.0
Diameter: Slot size:

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: gpm for hrs.
Static water level: 18.0 ft.

Bail/TEST rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: SW 1/4 of the NW 1/4 of the NW 1/4 of Section 14

Topography: 37N Range: 2E

Topo map: SOUTH BEND WEST

Field located by:

Courthouse location by:

Location accepted w/o verification by:

on:

on:

on:

Lot number:

Subdivision name:
Ft W of EL:
Ft N of SL:

Ft S of NL:

Aquifer elevation:

Ground elevation: 720.0

Bedrock elevation: 574.0

UTM Easting:

UTM Northing:

Well Log

Top	Bottom	Formation
0.0	148.0	UNKNOWN
148.0	0.0	BEDROCK

Comments

PLOTTED ON BEDROCK MAP.

Record of Water Well

Indiana Department of Natural Resources

Reference Number
72907

Driving directions to well

Date completed

Sat, Mar 24, 1945

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
OLIVER CORPORATION
LAYNE-NORTHERN CO.
CALVIN L. REYNOLDS

Address
SOUTH BEND, IN
MISHAWAKA, IN
License:

Telephone

Construction Details
Well

Use:
Depth:
Length: 54.0
Length: 30.0

Drilling method:
Pump setting depth:
Material:
Material:

Pump type:
Water quality:
Diameter: 50.0
Diameter: 18.0 Slot size: 4

Well Capacity Test

Type of test:
Drawdown: ft.
Test rate: 1000.0 gpm for hrs.
Static water level: 30.0 ft.

Bail/TEST rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: SE 1/4 of the SE 1/4 of the SW 1/4 of Section 11

Township: 37N Range: 2E

Topo map: SOUTH BEND WEST

Field located by:
Courthouse location by:
Location accepted w/o verification by:
Subdivision name:
Ft W of EL:
Ground elevation: 720.0
UTM Easting: 561175.0

ot:
ot:
ot:

Lot number:
Ft E of WL:
Bedrock elevation:
UTM Northing: 4612700.0

Ft S of NL:
Aquifer elevation:

Well Log

Top Bottom Formation

Comments

PLOTTED ON BASE MAP. WELL DEPTH 955.

Indiana Department of Natural Resources

Well Log

Top	Bottom	Formation
0.0	28.0	GRAVEL
28.0	47.0	GRAVEL (#10 SCREEN)
47.0	68.0	SAND & GRAV (#30 SCREEN SLOT)
68.0	72.0	SAND (#30 SCREEN SLOT)
72.0	73.0	CLAY AND STONES
73.0	88.0	CLAY
88.0	91.0	SAND (#20 SCREEN SLOT)
91.0	94.0	HARDPAN
94.0	101.0	LOWER MISSISSIPPI BLUE SHALE

PLOTTED ON BEDROCK MAP

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number 72927	Driving directions to well	Date completed Wed, Oct 22, 1941
Owner-Contractor Well Owner Building Contractor Drilling Contractor Equipment Operator	Name OLIVER FARM EQUIP. LAYNE-NORTHERN CO. WILLIAM WAGNER	Address SOUTH BEND, IN MISHAWAKA, IN License:
Construction Details Well Casing Screen	Use: Depth: 86.2 Length: 69.0 Length: 18.0	Pump type: Water quality: Diameter: 12.0 Diameter: 10.0 Slot size: .020
Well Capacity Test	Type of test: Drawdown: ft.	Bail/Test rate: gpm for hrs.
Grouting Information	Material: Installation Method:	Depth: from to Number of bags used:
Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:
Administrative	County: ST. JOSEPH Section: 1/4 of the 1/4 of the SW 1/4 of Section 11 Field located by: Courthouse location by: Location accepted w/o verification by: Subdivision name: LAYNE FL W of EL: Ground elevation: UTM Easting:	Topo map: SOUTH BEND WEST oi: oi: oi: Lot number: FL E of WL: Bedrock elevation: UTM Northing: FL S of NL: Aquifer elevation:
Well Log	Top Bottom Formation	
Comments	WELL REPAIR ONLY. OLIVER CO. PLANT-2.	

Record of Water Well

Indiana Department of Natural Resources

Reference Number
72932

Driving directions to well

FROM USGS BULLETIN #5 GSI H 11-1 LOGAN 108

Date completed

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
OLIVER CHILLED PLOW WORKS

Address

License:

Telephone

Construction Details
Well

Use:
Depth: 1676.0
Length:
Length:

Drilling method:
Pump setting depth:
Material:
Material:

Pump type:
Water quality:
Diameter:
Diameter: Slot size:

Casing
Screen

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: gpm for hrs.
Static water level: ft.

Bail Test rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: NE 1/4 of the SW 1/4 of the SE 1/4 of Section 11

Township: 37N Range: 2E

Topo map: SOUTH BEND WEST

Field located by:
Courthouse location by:
Location accepted w/o verification by:
Subdivision name:
Ft W of EL:
Ground elevation: 725.0
UTM Easting: 461525.0

Lot number:
Ft E of WL:
Bedrock elevation: 588.0
UTM Northing: 4612850.0

Ft S of NL:
Aquifer elevation:

Ft N of SL:
Depth to bedrock: 137.0

Well Log

Top	Bottom	Formation
0.0	0.0	COMPLICATED LITHOLOGY, SEE LOG
0.0	25.0	SAND
25.0	45.0	GRAV
45.0	75.0	CLAY
75.0	100.0	SAND
100.0	137.0	GRAV
137.0	280.0	BLUE SHALE
280.0	350.0	SHALE, GAS
350.0	540.0	LIMESTONE
540.0	670.0	DOLOMITE
670.0	1300.0	DOLOMITE/LIMESTONE
1300.0	1585.0	SHALE
1585.0	1676.0	DOLOMITIC LIMESTONE

Comments

PLOTTED ON BEDROCK MAP

Record of Water Well

Indiana Department of Natural Resources

Date completed

Driving directions to well

Reference Number

72801

PRAIRIE AVE., 200' S. OF GARST STEEL, FROM USGS BULLETIN #3, SJG-6B.

Sat, Jan 01, 1921

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
CITY OF SOUTH BEND

Address

License:

Telephone

Construction Details
Well

Use:
Depth: 100.0
Length:
Length:

Drilling method:
Pump setting depth:
Material:
Material:

Pump type:
Water quality:
Diameter:
Diameter: Slot size:

Well Capacity Test

Type of test:
Drawdown: ft.

Test rate: gpm for hrs.
Static water level: 19.0 ft.

Bail Test rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: SW 1/4 of the NW 1/4 of the NE 1/4 of Section 14

Township: 37N Range: 2E

Topo map: SOUTH BEND WEST

Field located by:

on:

Courthouse location by:

on:

Location accepted w/o verification by:

on:

Subdivision name:

Lot number:

Fi W of EL:

Fi N of SL:

Fi S of NL:

Ground elevation: 718.0

Depth to bedrock: 100.0

Bedrock elevation: 618.0

Aquifer elevation:

UTM Easting: 561400.0

UTM Northing: 4612400.0

Well Log

Top	Bottom	Formation
0.0	70.0	S&G
70.0	89.0	CLAY
89.0	100.0	FN SAND
100.0	0.0	SHALE

Record of Water Well

Indiana Department of Natural Resources

Date completed

Reference Number
72878

Driving directions to well

FROM USGS BULLETIN #3, SJ 6-24 B, BRONSON STREET, BETWEEN MAIN STREET AND LAFA YETTE STREET Tue, Mar 01, 1927

Owner-Contractor
Well Owner
Building Contractor
Drilling Contractor
Equipment Operator

Name
CITY OF SOUTH BEND

Telephone

Address
AUSTIN DRILLING COMPANY

License:

Construction Details
Well

Use:
Depth: 100.0
Length:
Length:

Pump type:
Water quality:
Diameter:
Diameter: Slot size:

Casing
Screen

Well Capacity Test

Type of test:
Drawdown: ft.

Ball Test rate: gpm for hrs.

Grouting Information

Material:
Installation Method:

Depth: from to
Number of bags used:

Well Abandonment

Sealing material:
Installation Method:

Depth: from to
Number of bags used:

Administrative

County: ST. JOSEPH
Section: NW 1/4 of the SW 1/4 of Section 12

Township: 37N Range: 2E

Topo map: SOUTH BEND WEST

Field located by:

on:

Courthouse location by:

on:

Location accepted w/o verification by:

on:

Subdivision name:

Lot number:

Ft W of EL:

Ft N of SL:

Ft S of NL:

Ground elevation: 722.0

Depth to bedrock: 98.0

Bedrock elevation: 624.0

Aquifer elevation:

UTM Easting:

UTM Northing:

Well Log

Top	Bottom	Formation
0.0	59.0	SAND AND GRAVEL
59.0	89.0	BLUE CLAY
89.0	98.0	SAND AND GRAVEL
98.0	100.0	LOWER MISSISSIPPI RIVER SHALE

Record of Water Well

Indiana Department of Natural Resources

Date completed

Driving directions to well

US 31 N TO SOUTH BEND, TAKE US 2(WESTERN AVE) TO LAFAYETTE, TURN IN LOT(L) JUST PAST BLDG, S SIDE OF BLDG, ADJACENT TO LAFAYETTE, E OF RAMP TOP

Reference Number

186348

Thu, Jan 12, 1989

Owner-Contractor
 Well Owner
 Building Contractor
 Drilling Contractor
 Equipment Operator

Name
 GATES CHEVY WORLD
 POLLUTION CONTROL SYSTEMS
 KURT A BOGNER

Address
 CR 550S BOX 17 LAOTTO IN 46763
 License: 784

Telephone
 (219)637-3137

Construction Details
 Well

Use: OTHER
 Depth: 38.5
 Length: 25.0
 Length: 15.0

Drilling method: OTHER
 Pump setting depth:
 Material: PVC
 Material: PVC

Pump type:
 Water quality: SLIGHTLY CLOUDY
 Diameter: 2.0
 Diameter: 2.0 Slot size: 010

Well Capacity Test

Type of test:
 Drawdown: ft.

Test rate: gpm for hrs.
 Static water level: 25.0 ft.

BallTest rate: gpm for hrs.

Grouting Information

Material: BENT SLURRY
 Installation Method: PUMPED

Depth: from 29.0 to 13.0
 Number of bags used: 1.0

Well Abandonment

Sealing material:
 Installation Method:

Depth: from to
 Number of bags used:

Administrative

County: ST. JOSEPH
 Section: 1/4 of the 1/4 of the 1/4 of Section 12

Topography: 37N Range: 2E
 Township: 37N Range: 2E

Field located by:
 Courthouse location by:
 Location accepted w/o verification by:
 Subdivision name:
 Ft W of EL:
 Ground elevation:
 UTM Easting:

Ft N of SL:
 Depth to bedrock:

Lot number:
 Ft E of WL:
 Bedrock elevation:
 UTM Northing:

Ft S of NL:
 Aquifer elevation:

Well Log

Top	Bottom	Formation
0.0	12.0	LT BRN MED SAND
12.0	30.0	H BRN, FINE, MOIST SAND
30.0	42.5	WET, MED TO CRS SAND, FN GRAY

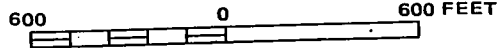
Comments
 SKETCH MAP, PCS ID # B-3

APPENDIX G-II

Flood Insurance Rate Map



APPROXIMATE SCALE



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP

CITY OF
**SOUTH BEND,
INDIANA**
ST. JOSEPH COUNTY

PANEL 4 OF 7

(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
180231 0004

MAP REVISED:
FEBRUARY 17, 1988



Federal Emergency Management Agency





KEY TO MAP

- 500-Year Flood Boundary
- 100-Year Flood Boundary
- FLOODWAY FRINGE
- 100-Year Flood Boundary
- 500-Year Flood Boundary
- FLOODWAY
- Approximate 100-Year Flood Boundary
- Cross Section Line
- Elevation Reference Mark RM7_x
- River Mile • M1.5

NOTES TO USER

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside Special Flood Hazard Areas.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 1/20 inch.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

For adjoining panels, see separately printed Map Index.

FLOOD BOUNDARY AND FLOODWAY MAP EFFECTIVE:
FEBRUARY 1, 1978

FLOOD BOUNDARY AND FLOODWAY MAP REVISIONS:
Map revised February 17, 1988
to revise floodway and cross sections, change flood boundaries, add streets and street names, and to reflect new FEMA title block.

2

MONROE

SOUTH

CONRAIL

LAFAYETTE

SAMPLE

31

STREET

PENNSYLVANIA

MICHIGAN

BROADWAY

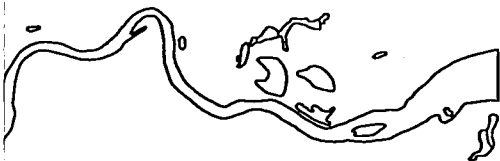
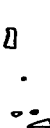
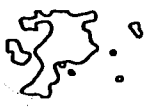
INDIANA

DUBAIL



APPENDIX H

Federal Wetlands Map



APPENDIX I

Soils Map and Descriptions

of the series, but the original surface layer has been removed by erosion. There are a few gullies throughout the area.

Included in mapping are a few small areas of moderately sloping soils.

Erosion is the major concern in management.

Most areas of this soil are in permanent pasture. The soil is not suited to row crops, and it has severe limitations for most nonfarm uses. Capability unit VIe-6; woodland group 1o1.

Oshtemo Series

The Oshtemo series consists of deep, well-drained, nearly level to strongly sloping soils on outwash plains and terraces. The native vegetation was mainly mixed hardwoods.

In a representative profile, the surface layer is very dark grayish-brown sandy loam about 6 inches thick. The subsurface layer is dark-brown sandy loam 10 inches thick. The subsoil is 38 inches thick. It is dark-brown, firm gravelly sandy clay loam in the upper 12 inches and strong-brown, friable loamy sand in the lower 26 inches. The underlying material is light yellowish-brown, stratified sand and gravelly sand that extends to a depth of 60 inches.

Oshtemo soils have moderately rapid permeability and a low available water capacity. The organic-matter content is high in the surface layer. Runoff is slow and medium.

Representative profile of Oshtemo sandy loam, 2 to 6 percent slopes, in a gravel pit, 1,600 feet east and 400 feet north of the SW corner of sec. 10, T. 38 N., R. 2 E.

Ap—0 to 6 inches, very dark grayish-brown (10YR 3/2) sandy loam; light brownish gray (10YR 6/2) when dry; moderate, medium, granular structure; very friable; slightly acid; abrupt smooth boundary.

A21—6 to 10 inches, dark-brown (10YR 4/3) sandy loam; weak, medium, platy structure parting to weak, fine, granular; very friable; dark grayish-brown (10YR 4/2) root channel fillings and worm casts; slightly acid; clear, wavy boundary.

A22—10 to 16 inches, dark-brown (7.5YR 4/4) sandy loam; weak, medium, subangular blocky structure; friable; medium acid; clear, wavy boundary.

B2t—16 to 28 inches, dark-brown (7.5YR 4/4) gravelly sandy clay loam; moderate, medium, subangular blocky structure; firm; common, discontinuous, distinct, thin, very dark grayish-brown (10YR 3/2) clay films on horizontal and vertical faces of peds; 20 percent gravel and shale; clay bridgings on sand grains; strongly acid; clear, wavy boundary.

B3—28 to 54 inches, strong-brown (7.5YR 5/6) loamy sand; weak, medium, subangular blocky structure; friable; 10 percent gravel and shale; medium acid; clear, wavy boundary.

C—54 to 60 inches, light yellowish-brown (10YR 6/4) stratified sand and gravelly sand; single grained; loose; strongly effervescent; moderately alkaline.

The solum is 40 to 60 inches thick. The Ap and A2 horizons are very dark grayish brown (10YR 3/2), dark grayish brown (10YR 4/2), or brown (10YR 5/3). They are slightly acid or medium acid. The Bt horizon is light loam, sandy loam, sandy clay loam, or gravelly sandy clay loam. The C horizon is slightly acid to moderately alkaline.

Oshtemo soils are associated on the landscape with the well-drained Tyner, Elston, and Fox soils and the somewhat poorly drained Brady soils. Oshtemo soils have a finer textured solum than Tyner soils, and they have a thinner, lighter colored A horizon than Elston soils. Oshtemo soils

have a thicker solum than Fox soils. Unlike Brady soils, they are not mottled.

OsA—Oshtemo sandy loam, 0 to 2 percent slopes. This soil is in irregularly shaped areas on broad flats. The areas range from 2 to 1,000 acres but average 60 acres. The soil has a profile similar to the one described as representative of the series, but its surface layer is thicker.

Included in mapping are soils that have a surface layer of loamy sand. Also included are small areas of nearly level, well-drained Tyner soils and nearly level, somewhat poorly drained Brady soils.

Droughtiness is the major concern in management. Soil blowing is a hazard when the soil is dry if it has no protective cover.

This soil is used mostly for cash-grain farming (fig. 10). It is suited to most crops commonly grown in the county and has slight limitations for most nonfarm uses. Capability unit IIIs-2; woodland group 3s17.

OsB—Oshtemo sandy loam, 2 to 6 percent slopes. This soil is in irregularly shaped areas on broad flat at a slightly higher elevation than the surrounding soils. The areas range from 2 to 240 acres but average 10 acres. This soil has the profile described as representative of the series.

Included in mapping are soils that have a surface layer of loamy sand. Also included are small areas of nearly level and gently sloping, well-drained Tyne loamy sand and a few areas where slopes are less than 2 percent.

Droughtiness is the major concern in management and soil blowing is a hazard when the soil is dry if it has no protective cover.

Most areas of this soil are cultivated. The soil is suited to most crops commonly grown in the county. It is also used for urban development, and has slight limitations for most nonfarm uses. Capability unit IIIe-13; woodland group 3s17.

OsC2—Oshtemo sandy loam, 6 to 12 percent slope eroded. This soil is in elongated areas on short side slopes. The areas range from 2 to 80 acres but average 10 acres. This soil has a profile similar to the one described as representative of the series, but because of erosion, its surface layer is thinner and is mixed with some dark-brown material from the subsoil.

Included in mapping are small areas of moderate sloping, well-drained, Tyner loamy sand and some areas where slopes are less than 6 percent. Also included are small areas of Fox soils.

Droughtiness and erosion are the major concern in management. Soil blowing is a hazard when the soil is dry if it has no protective cover.

This soil is suited to small grain and to grass and legumes for forage. Most areas are idle or are used for urban development. The soil has moderate limitations for most nonfarm uses. Capability unit IIIe-13; woodland group 3s17.

OsD—Oshtemo sandy loam, 12 to 18 percent slope. This soil is in elongated areas above broad outwash flats. The areas range from 2 to 60 acres but average 5 acres. Slopes are short. This soil has a profile similar to the one described as representative of the series.

ture; friable; few very fine roots; 5 percent shale fragments; medium acid; clear, wavy boundary.
IIB3b—80 to 91 inches, grayish-brown (10YR 5/2) loam; common, medium, distinct, yellowish-brown (10YR 5/6) mottles; massive; firm; many very dark brown (10YR 2/2) stains in old root channels; 5 percent shale fragments; medium acid.

The solum is 48 to more than 90 inches thick. The Ap and A12 horizon are very dark brown (10YR 2/2) or black (10YR 2/1). The IIA1b horizon ranges from black (10YR 2/1) to very dark grayish brown (10YR 3/2). The IB horizon is loam, clay loam, light clay loam, or sandy loam and is medium acid or strongly acid. The C horizon is loose sand.

Troxel soils formed in the same kind of material and are associated on the landscape with the well-drained Coupee and Tracy soils. Troxel soils have a thicker A horizon than those soils.

Tx—Troxel silt loam. This soil is in slightly depressed, oval-shaped basins along drainageways. The areas range from 2 to 50 acres but average 4 acres. Slopes are 0 to 2 percent.

Included in mapping are areas, less than 2 acres in size, of nearly level and gently sloping, well-drained Coupee and Tracy soils. Also included are soils that have a surface layer of loam.

This soil is used for corn and soybeans. It is well suited to all crops commonly grown in the county and to grasses and legumes for forage. The soil has slight limitations for most nonfarm uses. Capability unit I-1; woodland group o23.

Tyner Series

The Tyner series consists of deep, well-drained, nearly level to strongly sloping soils on outwash plains and terraces. These soils are mainly on raised flats and ridges. They formed in sandy outwash. The native vegetation was mainly mixed hardwoods.

In a representative profile, the surface layer is dark-brown loamy sand about 9 inches thick. The subsoil is 35 inches thick. It is dark yellowish-brown, very friable loamy sand in the upper 16 inches and dark-brown, very friable loamy sand in the lower 19 inches. The underlying material extends to a depth of 70 inches. It is yellowish-brown sand in the upper 16 inches and dark-brown sand in the lower 10 inches.

Tyner soils have rapid permeability and a low available water capacity. The organic-matter content is moderate in the surface layer. Runoff is slow or medium.

Representative profile of Tyner loamy sand, 0 to 6 percent slopes, in a cultivated field, 500 feet east and 120 feet north of SW corner of SE $\frac{1}{4}$ sec. 27, T. 38 N., R. 3 E.

Ap—0 to 9 inches, dark-brown (10YR 3/3) loamy sand, pale brown (10YR 6/3) dry; weak, fine, granular structure; very friable; strongly acid; abrupt, smooth boundary.

B21—9 to 25 inches, dark yellowish-brown (10YR 4/4) loamy sand; weak, fine, subangular blocky structure; very friable; 5 percent rounded pebbles and shale fragments; strongly acid; clear, wavy boundary.

B22—25 to 44 inches, dark-brown (7.5YR 4/4) loamy sand; weak, medium, subangular blocky structure; very friable; 5 percent rounded pebbles and shale fragments; strongly acid; clear, wavy boundary.

C1—44 to 60 inches, yellowish-brown (10YR 5/6) sand;

single grained; loose; many sand-sized shale fragments; strongly acid; clear, wavy boundary.
C2—60 to 70 inches, dark-brown (10YR 3/4) sand; single grained; loose; many sand-sized shale fragments; medium acid.

The solum is 36 to 60 inches thick. The Ap or A1 horizon is dark brown (10YR 3/3) or brown (10YR 4/3). It is slightly acid to strongly acid. The B22 horizon is loamy sand or sand. The C1 and C2 horizons are medium acid or strongly acid.

Tyner soils are associated on the landscape with the excessively drained Chelsea soils, the well-drained Oshtemo soils, and the moderately well-drained Brems soils. Tyner soils have a finer textured solum than Chelsea soils, and they lack bands. They have a coarser textured solum than Oshtemo soils. Unlike Brems soils, Tyner soils are not mottled.

TyA—Tyner loamy sand, 0 to 6 percent slopes. This soil is in irregularly shaped areas on broad flats. The areas range from 2 to 3,600 acres but average 120 acres. This soil has the profile described as representative of the series.

Included in mapping are areas, less than 2 acres in size, of nearly level, well-drained Oshtemo soils and nearly level, moderately well drained Brems soils.

Droughtiness is the major concern in management. Soil blowing is a hazard when the soil is dry if it has no protective cover.

Most areas of this soil are used for urban development. Some are used for cash-grain farming, but the soil is not well suited to this use. The soil has slight limitations for most nonfarm uses. Capability unit IIIs-1; woodland group 8s17.

TyC—Tyner loamy sand, 6 to 12 percent slopes. This soil is in elongated areas that range from 2 to 70 acres but average 10 acres. Slopes are short. This soil has a profile similar to the one described as representative of the series, but because of erosion, its surface layer is thinner and is mixed with some dark yellowish-brown material from the subsoil.

Included in mapping are areas, less than 2 acres in size, of moderately sloping, well-drained Oshtemo soils and soils that have slopes of less than 6 percent.

Droughtiness and slope are the major concerns in management. Soil blowing is a hazard when the soil is dry if it has no protective cover.

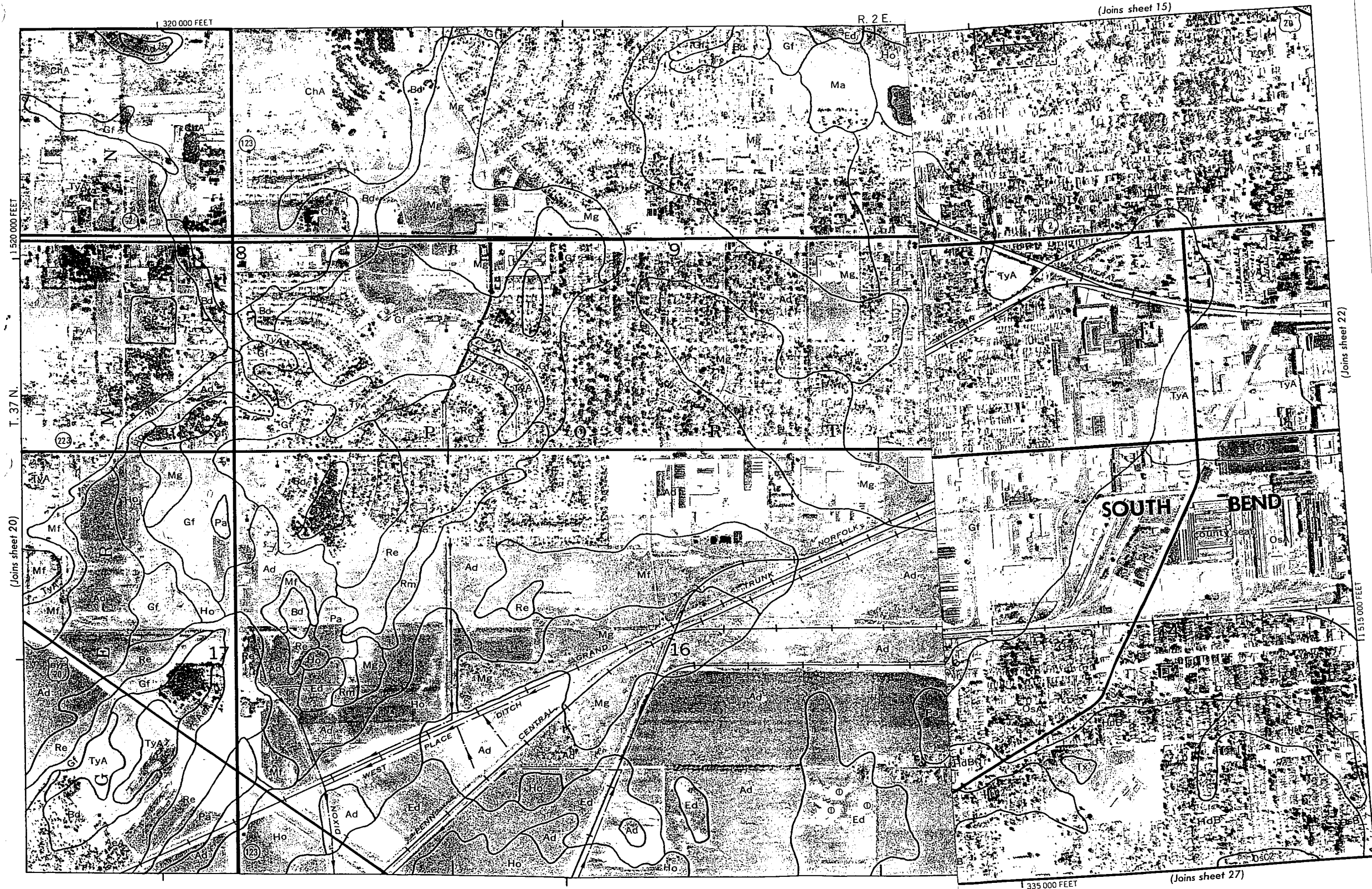
Most areas of this soil are used for urban development, but a few are used for cash-grain farming. The soil has moderate limitations for most nonfarm uses. Capability unit IVe-12; woodland group 8s17.

TyD—Tyner loamy sand, 12 to 18 percent slopes. This soil is in elongated areas on low ridges on outwash flats. The areas range from 2 to 80 acres but average 8 acres. Slopes are short. This soil has a profile similar to the one described as representative of the series, but its surface layer is thinner, and it is shallower to the underlying material. Some dark yellowish-brown material from the subsoil is mixed with the surface layer.

Included in mapping are areas, less than 2 acres in size, of strongly sloping, well-drained Oshtemo soils and soils that have slopes of more than 18 percent.

Droughtiness and slope are the major concerns in management.

Most areas of this soil are in woodland along the St. Joseph River. Because of slope, the soil has severe



APPENDIX J

Environmental Records Database Report



The EDR-Radius Map with GeoCheck®

**South Bend Stamping, Et Al.
601 West Broadway
South Bend, IN 46601**

Inquiry Number: 0562243.4r

November 10, 2000

***The Source* For Environmental Risk Management Data**

**3530 Post Road
Southport, Connecticut 06490**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrmet.com**

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

601 WEST BROADWAY
SOUTH BEND, IN 46601

COORDINATES

Latitude (North): 41.662300 - 41° 39' 44.3"
Longitude (West): 86.257900 - 86° 15' 28.4"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 561784.8
UTM Y (Meters): 4612336.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2441086-F3 SOUTH BEND WEST, IN
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 5 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
SOUTH BEND STAMPING INC 601 W BROADWAY SOUTH BEND, IN 46018	RCRIS-SQG FINDS UST LUST	IND005938014

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL _____ National Priority List
CERCLIS _____ Comprehensive Environmental Response, Compensation, and Liability Information System

STATE ASTM STANDARD

SHWS _____ State Haz. Waste
SWF/LF _____ Permitted Solid Waste Facilities

FEDERAL ASTM SUPPLEMENTAL

CONSENT _____ CONSENT

EXECUTIVE SUMMARY

MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NPL Lien	NPL Liens
PADS	PCB Activity Database System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

Delisted NPL: The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

A review of the Delisted NPL list, as provided by EDR, and dated 06/13/2000 has revealed that there is 1 Delisted NPL site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>WHITEFORD SALES & SERVICE/NATI</i>	<i>2020 WEST SAMPLE STREET</i>	<i>1-2 W</i>	<i>0</i>	<i>7</i>

CERCLIS-NFRAP: As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERCLIS-NFRAP list, as provided by EDR, and dated 04/16/2000 has revealed that there are 3 CERCLIS-NFRAP sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AVANTI	765 SOUTH LAFAYETTE BLV	1/4 - 1/2NE	49	34
<i>INDUSTRIAL FUELS & RESOURCES C</i>	<i>604 SOUTH SCOTT STREET</i>	<i>1/4 - 1/2N</i>	<i>R78</i>	<i>48</i>
<i>KOKOKU WIRE INDUSTRIES CORP</i>	<i>1217 S WALNUT ST</i>	<i>1/2 - 1 W</i>	<i>AD114</i>	<i>93</i>

EXECUTIVE SUMMARY

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 04/20/2000 has revealed that there are 4 CORRACTS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>INDUSTRIAL FUELS & RESOURCES C</i>	<i>604 SOUTH SCOTT STREET</i>	<i>1/4 - 1/2N</i>	<i>R78</i>	<i>48</i>
<i>ASHLAND DISTRIBUTION CO</i>	<i>1817 W INDIANA AVE</i>	<i>1-2</i>	<i>WSW 141</i>	<i>115</i>
<i>COPCO STEEL AND ENGINEERING CO</i>	<i>2901 S MAIN ST</i>	<i>1-2</i>	<i>SSE 144</i>	<i>122</i>
<i>SAFETY KLEEN CORPORATION</i>	<i>2217 WESTERN AVENUE</i>	<i>1-2</i>	<i>WNW 145</i>	<i>124</i>

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-TSD list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-TSD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>INDUSTRIAL FUELS & RESOURCES C</i>	<i>604 SOUTH SCOTT STREET</i>	<i>1/4 - 1/2N</i>	<i>R78</i>	<i>48</i>

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 9 RCRIS-LQG sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>STUDEBAKER BLDG 92</i>	<i>414 W SAMPLE ST</i>	<i>1/8 - 1/4NE</i>	<i>B6</i>	<i>14</i>
<i>GNB INC</i>	<i>730 PRAIRIE AVE</i>	<i>1/4 - 1/2N</i>	<i>24</i>	<i>23</i>
<i>ST JOSEPH CO HOUSEHOLD HAZ WST</i>	<i>701 W SAMPLE</i>	<i>1/4 - 1/2WNW</i>	<i>M48</i>	<i>33</i>
<i>RIDGE CO INC THE</i>	<i>1535 S MAIN</i>	<i>1/4 - 1/2SE</i>	<i>P57</i>	<i>38</i>
<i>INDUSTRIAL FUELS & RESOURCES C</i>	<i>604 SOUTH SCOTT STREET</i>	<i>1/4 - 1/2N</i>	<i>R78</i>	<i>48</i>
<i>IMAGINEERING ENTERPRISES INC</i>	<i>1302 W SAMPLE ST</i>	<i>1/2 - 1</i>	<i>WNW W94</i>	<i>81</i>
<i>KOKOKU WIRE INDUSTRIES CORP</i>	<i>1217 S WALNUT ST</i>	<i>1/2 - 1</i>	<i>W AD114</i>	<i>93</i>
<i>DON'S GAS AND CAR WASH</i>	<i>1836 S MICHIGAN</i>	<i>1/2 - 1</i>	<i>SE AH127</i>	<i>103</i>
<i>GATES CHEVROLET CORP</i>	<i>401 S LAFAYETTE BLVD</i>	<i>1/2 - 1</i>	<i>NNE 128</i>	<i>104</i>

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 33 RCRIS-SQG sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>WELTEK INTERNATIONAL INC</i>	<i>760 W COTTER</i>	<i>1/8 - 1/4SW</i>	<i>3</i>	<i>13</i>
<i>SOUTH BEND LATHE</i>	<i>400 W SAMPLE ST</i>	<i>1/8 - 1/4NE</i>	<i>B8</i>	<i>15</i>
<i>IDEAL CONSOLIDATED</i>	<i>806 W SAMPLE</i>	<i>1/8 - 1/4NW</i>	<i>C9</i>	<i>16</i>

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
RAITT CORP	815 SAMPLE ST	1/4 - 1/2NW	C14	18
ZIOLKOWSKI CONSTRUCTION	1005 S LAFAYETTE	1/4 - 1/2ENE	16	19
UNIVERSAL PAINTING CO INC	1319 S LAFAYETTE BLVD	1/4 - 1/2ESE	18	20
INDIANA BELL N47125	1401 PRAIRIE AVE	1/4 - 1/2WSW	E29	25
SOUTH BEND TOY INC	404 W SAMPLE ST	1/4 - 1/2WNW	H34	28
INDOT	US 31 BYPASS 110 MI N S	1/4 - 1/2ENE	J38	29
INDIANA AUTO PARTS	1602 S LAFAYETTE BLVD	1/4 - 1/2SE	45	31
HILL TRUCK SALES INC	1011 W SAMPLE	1/4 - 1/2WNW	H47	33
SUNOCO SERVICE STATION	1536 S MAIN ST	1/4 - 1/2SE	P60	40
BARTHOLOMEWS INC	1331 S MICHIGAN ST	1/4 - 1/2ESE	61	40
ABN MOTOR CORP	765 S LAFAYETTE BLVD	1/4 - 1/2NNE	Q62	41
N A B BUILDING CO	765 S LAFAYETTE ST	1/4 - 1/2NNE	Q63	41
ABN MOTOR CORP	765 S LAFAYETTE	1/4 - 1/2NNE	Q64	41
MICHIANA TRANSMISSION	902 S MICHIGAN	1/4 - 1/2ENE	S67	43
CHEMSOLV INC	604 S SCOTT ST	1/4 - 1/2N	R72	46
ENYART ELECTRIC MTR SERVICE	122 E SAMPLE ST	1/4 - 1/2ENE	S80	75
CONSOLIDATED RAIL	628 W SOUTH ST	1/4 - 1/2N	U83	76
UNITED CAR PARTS	600 W PRAIRIE	1/4 - 1/2N	U87	78
SOUTH BEND COMMUNITY SCHOOLS	635 S MAIN ST	1/2 - 1 NE	92	80
MAACO AUTO PAINTING	250 E SAMPLE ST	1/2 - 1 ENE	Y99	86
ZIKER CLEANERS INC	251 E SAMPLE ST	1/2 - 1 ENE	Y100	87
FIBER TECH INC	1344 W SAMPLE ST	1/2 - 1 WNW	Z103	88
DELTA STAR ELECTRIC INC	1125 S WALNUT ST	1/2 - 1 W	110	90
YELLOW FREIGHT SYSTEM INC SBD	1300 WALNUT ST SITE B	1/2 - 1 W	AC111	90
STEEL WAREHOUSE CO INC	1215 S WALNUT ST	1/2 - 1 W	AD113	92
MOSSBURG AND CO INC	301 E SAMPLE ST	1/2 - 1 ENE	AB115	96
PRESTON TRUCKING CO	1300 WALNUT	1/2 - 1 W	AC117	97
RICHEY RADIATOR SERVICE	416 W WESTERN AVE	1/2 - 1 NNE	AE121	100
GATES AUTOMOTIVE	333 W WESTERN AVE	1/2 - 1 NNE	AG125	102
TIDEYS TRUCK SERVICE INC	1525 S WALNUT ST	1/2 - 1 WSW	131	106

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 08/08/2000 has revealed that there are 2 ERNS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
604 S SCOTT ST	604 S SCOTT ST	1/4 - 1/2N	R77	47
104 EAST BROADWAY	104 EAST BROADWAY	1/4 - 1/2ESE	79	75

STATE ASTM STANDARD

LUST: Lust List.

A review of the LUST list, as provided by EDR, and dated 06/26/2000 has revealed that there are 25 LUST sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MUNICIPAL SERVICE FACILITY	701 SAMPLE	1/8 - 1/4NNW	2	10
AMERICAN HI-LIFT (VACANT)	828 KERR ST	1/8 - 1/4WNW	A5	13

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
RAITT CORPORATION	815 W SAMPLE ST	1/4 - 1/2NW	C12	16
ECKLER LAHEY LUMBER COMPANY	1406 S FRANKLIN ST	1/4 - 1/2SE	15	18
JERRY'S-U-SERV INC	1130 S MAIN ST	1/4 - 1/2E	G27	23
CITY OF SOUTH BEND	1130 S MAIN ST	1/4 - 1/2E	G28	24
OLD FORT BUILDING SUPPLY	1401 S MAIN	1/4 - 1/2ESE	L43	31
S MICHIGAN U HAUL CENTER VACAN	1120 S MICHIGAN	1/4 - 1/2E	N54	35
ALCON BUILDING PRODUCTS	1702 S FRANKLIN ST	1/4 - 1/2SSE	O56	37
UNITED PARCEL SERVICE (UPS)	607 S SCOTT	1/4 - 1/2N	R65	42
JOHN SHOUP	716 S MAIN ST	1/4 - 1/2NE	V85	77
ZIKER CLEANERS INC	247-251 E SAMPLE	1/2 - 1 ENE	Y98	85
VACANT BUILDING	613 S MICHIGAN	1/2 - 1 NE	AA106	89
DREISBACH CAD OLDS GMC TRUCK I	602 S MICHIGAN ST	1/2 - 1 NE	AA107	89
CIRCLE LUMBER CO	1212 S WALNUT ST	1/2 - 1 W	AD112	92
HARMON GLASS CO	502 W WESTERN AVE	1/2 - 1 N	AE116	96
PRESTON TRUCKING COMPANY INC	1300 S WALNUT ST	1/2 - 1 W	AC118	98
GATES CHEVROLET CORP (SERVICE)	333 WESTERN AVE	1/2 - 1 NNE	AG126	102
DON'S GAS AND CAR WASH	1836 S MICHIGAN	1/2 - 1 SE	AH127	103
AT&T	222 S SCOTT ST	1/2 - 1 N	136	110
DISCOUNT MUFFLER	2222 S MICHIGAN ST	1/2 - 1 SSE	137	111
CLARK STORE #448	2322 S MICHIGAN	1/2 - 1 SSE	138	112
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SOUTH BEND VMF	424 S MICHIGAN ST	1/2 - 1 NE	135	108
BABCOCK MARATHON	101 N LAFAYETTE BLVD	1/2 - 1 NNE	139	113
PEPSI COLA GENERAL BOTTLERS IN	1330 S HIGH ST	1/2 - 1 E	140	114

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Management's Indiana Registered Underground Storage Tanks list.

A review of the UST list, as provided by EDR, and dated 09/27/2000 has revealed that there are 61 UST sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MUNICIPAL SERVICE FACILITY	701 SAMPLE	1/8 - 1/4NNW	2	10
AMERICAN HI-LIFT (VACANT)	828 KERR ST	1/8 - 1/4WNW	A5	13
SOUTH BEND LATHE	400 W SAMPLE ST	1/8 - 1/4NE	B7	14
RAITT CORPORATION	815 W SAMPLE ST	1/4 - 1/2NW	C12	16
ECKLER LAHEY LUMBER COMPANY	1406 S FRANKLIN ST	1/4 - 1/2SE	15	18
ZIOLKOWSKI CONSTRUCTION	1005 S LAFAYETTE	1/4 - 1/2ENE	16	19
MECHANICS LAUNDRY & SUPPLY INC	835 PRAIRIE AVE	1/4 - 1/2NNW	D17	20
UNITED BEVERAGE	840 S PRAIRIE	1/4 - 1/2NNW	D20	21
CITY OF SOUTH BEND	225 W GARST ST	1/4 - 1/2E	22	22
SOUTH BEND SUPPLY CO	1310 S PRAIRIE AVE	1/4 - 1/2WSW	E23	22
LOT 10 STUDEBAKER CORRIDOR	1424 S LAFAYETTE ST	1/4 - 1/2SE	F26	23
JERRY'S-U-SERV INC	1130 S MAIN ST	1/4 - 1/2E	G27	23
CITY OF SOUTH BEND	1130 S MAIN ST	1/4 - 1/2E	G28	24
AMERITECH GARAGE	1401 PRAIRIE AVE	1/4 - 1/2WSW	E30	25
BENKO & SONS CO INC	1402 PRAIRIE AVE	1/4 - 1/2WSW	E32	27
OLINGER DISTRIBUTING CO INC	922 S MAIN ST	1/4 - 1/2ENE	J37	29
MODEL COVERALL SERVICE	717 S SCOTT ST	1/4 - 1/2N	K41	30
OLD FORT BUILDING SUPPLY	1401 S MAIN	1/4 - 1/2ESE	L43	31
HILL TRUCK SALES INC	1011 W SAMPLE ST	1/4 - 1/2WNW	H46	32

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CENTRAL TRANSPORT	1040 SAMPLE ST.	1/4 - 1/2WNW	M50	34
<i>S MICHIGAN U HAUL CENTER VACAN</i>	<i>1120 S MICHIGAN</i>	<i>1/4 - 1/2E</i>	<i>N54</i>	<i>35</i>
<i>ALCON BUILDING PRODUCTS</i>	<i>1702 S FRANKLIN ST</i>	<i>1/4 - 1/2SSE</i>	<i>O56</i>	<i>37</i>
THE RIDGE COMPANY	1535 S MAIN ST	1/4 - 1/2SE	P58	39
O'BRIAN SUNACO	1536 S MAIN ST	1/4 - 1/2SE	P59	39
<i>UNITED PARCEL SERVICE (UPS)</i>	<i>607 S SCOTT</i>	<i>1/4 - 1/2N</i>	<i>R65</i>	<i>42</i>
<i>ENYART ELECTRIC MTR SERVICE</i>	<i>122 E SAMPLE ST</i>	<i>1/4 - 1/2ENE</i>	<i>S80</i>	<i>75</i>
SOUTH BEND SCRAP & PROCESSING	1120 W SAMPLE	1/4 - 1/2WNW	T82	76
<i>JOHN SHOUP</i>	<i>716 S MAIN ST</i>	<i>1/4 - 1/2NE</i>	<i>V85</i>	<i>77</i>
PETER J NEMETH	711 S MAIN ST	1/4 - 1/2NE	V88	78
RITSCHARD BROS INC	1204 W SAMPLE ST	1/2 - 1 WNW	T89	78
SILO MFG CO INC	405 W SOUTH ST	1/2 - 1 NNE	90	80
WHITE FARM EQUIP DIVI OF ALLI	701 S CHAPIN	1/2 - 1 NNW	91	80
HASS WHOLESALE INC	1111 S WEBSTER ST	1/2 - 1 WNW	W93	81
GP AUTO SALES	1643 PRAIRIE AVE	1/2 - 1 SW	X95	83
GARAGE	1643 PRAIRIE AVE	1/2 - 1 SW	X96	84
AL MEUSTRUP	219 E TUTT ST	1/2 - 1 ENE	97	84
<i>ZIKER CLEANERS INC</i>	<i>247-251 E SAMPLE</i>	<i>1/2 - 1 ENE</i>	<i>Y98</i>	<i>85</i>
G W BERKHEIMER CO INC	612 CHAPIN ST	1/2 - 1 NNW	101	87
FRANK'S WHOLESALE FLORIST	1812 S MAIN ST	1/2 - 1 SE	102	87
LACAY FABRICATION	1344 W SAMPLE	1/2 - 1 WNW	Z104	88
KAMINSKI-MOOREN	214 E. BRONON	1/2 - 1 NE	105	88
<i>VACANT BUILDING</i>	<i>613 S MICHIGAN</i>	<i>1/2 - 1 NE</i>	<i>AA106</i>	<i>89</i>
<i>DREISBACH CAD OLDS GMC TRUCK I</i>	<i>602 S MICHIGAN ST</i>	<i>1/2 - 1 NE</i>	<i>AA107</i>	<i>89</i>
DEPARTMENT OF NAVY	1901 SOUTH KEMBLE	1/2 - 1 SSW	108	89
MOSSBERG & COMPANY INC	301 E SAMPLE ST	1/2 - 1 ENE	AB109	90
<i>CIRCLE LUMBER CO</i>	<i>1212 S WALNUT ST</i>	<i>1/2 - 1 W</i>	<i>AD112</i>	<i>92</i>
<i>KOKOKU WIRE INDUSTRIES CORP</i>	<i>1217 S WALNUT ST</i>	<i>1/2 - 1 W</i>	<i>AD114</i>	<i>93</i>
<i>HARMON GLASS CO</i>	<i>502 W WESTERN AVE</i>	<i>1/2 - 1 N</i>	<i>AE116</i>	<i>96</i>
<i>PRESTON TRUCKING COMPANY INC</i>	<i>1300 S WALNUT ST</i>	<i>1/2 - 1 W</i>	<i>AC118</i>	<i>98</i>
3 BAY STATION	534 S MICHIGAN ST	1/2 - 1 NE	AF119	99
B & R INVESTMENTS	1916 S MAIN ST	1/2 - 1 SSE	120	100
ASHLAND OIL CO	405 WESTERN AVE	1/2 - 1 NNE	AG122	100
<i>SOUTH BEND BALING & IRON CO</i>	<i>1420 S WALNUT</i>	<i>1/2 - 1 WSW</i>	<i>123</i>	<i>101</i>
FIRESTONE 29EM/009318 T CHARLE	502 S MICHIGAN	1/2 - 1 NE	AF124	101
<i>GATES CHEVROLET CORP (SERVICE)</i>	<i>333 WESTERN AVE</i>	<i>1/2 - 1 NNE</i>	<i>AG126</i>	<i>102</i>
<i>DON'S GAS AND CAR WASH</i>	<i>1836 S MICHIGAN</i>	<i>1/2 - 1 SE</i>	<i>AH127</i>	<i>103</i>
DICK'S 66 SERVICE	1902 S MICHIGAN ST	1/2 - 1 SE	AH129	104
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
H G CHRISTMAN CONSTRUCTION CO	850 S FELLOWS ST	1/2 - 1 ENE	AI130	105
DITMER OIL	825 S FELLOWS ST	1/2 - 1 ENE	AI132	106
MARION BROWN	501 E SAMPLE ST	1/2 - 1 ENE	AJ133	106
PHILLIP J MAGALDI	502 E SAMPLE ST	1/2 - 1 ENE	AJ134	107

FEDERAL ASTM SUPPLEMENTAL

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, has revealed that there is 1 ROD site within approximately 1.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>WHITEFORD SALES & SERVICE/NATI</i>	<i>2020 WEST SAMPLE STREET</i>	<i>1-2 W</i>	<i>0</i>	<i>7</i>

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/07/2000 has revealed that there are 36 FINDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>WELTEK INTERNATIONAL INC</i>	<i>760 W COTTER</i>	<i>1/8 - 1/4SW</i>	<i>3</i>	<i>13</i>
<i>ADVANCED MASONRY CONSTRUCTION</i>	<i>828 KERR ST</i>	<i>1/8 - 1/4WNW</i>	<i>A4</i>	<i>13</i>
<i>STUDEBAKER BLDG 92</i>	<i>414 W SAMPLE ST</i>	<i>1/8 - 1/4NE</i>	<i>B6</i>	<i>14</i>
<i>SOUTH BEND LATHE</i>	<i>400 W SAMPLE ST</i>	<i>1/8 - 1/4NE</i>	<i>B8</i>	<i>15</i>
<i>IDEAL CONSOLIDATED</i>	<i>806 W SAMPLE</i>	<i>1/8 - 1/4NW</i>	<i>C9</i>	<i>16</i>
<i>ABF FREIGHT SYS SOUTH BEND</i>	<i>813 W SAMPLE ST</i>	<i>1/4 - 1/2NW</i>	<i>C11</i>	<i>16</i>
<i>RAITT CORP</i>	<i>815 SAMPLE ST</i>	<i>1/4 - 1/2NW</i>	<i>C14</i>	<i>18</i>
<i>ZIOLKOWSKI CONSTRUCTION</i>	<i>1005 S LAFAYETTE</i>	<i>1/4 - 1/2ENE</i>	<i>16</i>	<i>19</i>
<i>GNB INC</i>	<i>730 PRAIRIE AVE</i>	<i>1/4 - 1/2N</i>	<i>24</i>	<i>23</i>
<i>CITY OF SOUTH BEND DEPT OF RED</i>	<i>1424 S LAFAYETTE ST</i>	<i>1/4 - 1/2SE</i>	<i>F25</i>	<i>23</i>
<i>INDIANA BELL N47125</i>	<i>1401 PRAIRIE AVE</i>	<i>1/4 - 1/2WSW</i>	<i>E29</i>	<i>25</i>
<i>BENKO & SONS CO INC</i>	<i>1402 PRAIRIE AVE</i>	<i>1/4 - 1/2WSW</i>	<i>E33</i>	<i>28</i>
<i>SOUTH BEND TOY INC</i>	<i>404 W SAMPLE ST</i>	<i>1/4 - 1/2WNW</i>	<i>H34</i>	<i>28</i>
<i>INDOT</i>	<i>US 31 BYPASS 110 MI N S</i>	<i>1/4 - 1/2ENE</i>	<i>J38</i>	<i>29</i>
<i>MODEL COVERALL SERVICE INC</i>	<i>717 S SCOTT ST</i>	<i>1/4 - 1/2N</i>	<i>K40</i>	<i>30</i>
<i>KEENER PRINTING & LITHOGRAPHY</i>	<i>411 W INDIANA AVE</i>	<i>1/4 - 1/2SSE</i>	<i>42</i>	<i>30</i>
<i>OLDFORT BUILDING SUPPLY</i>	<i>1401 S MAIN</i>	<i>1/4 - 1/2ESE</i>	<i>L44</i>	<i>31</i>
<i>INDIANA AUTO PARTS</i>	<i>1602 S LAFAYETTE BLVD</i>	<i>1/4 - 1/2SE</i>	<i>45</i>	<i>31</i>
<i>HILL TRUCK SALES INC</i>	<i>1011 W SAMPLE</i>	<i>1/4 - 1/2WNW</i>	<i>H47</i>	<i>33</i>
<i>ST JOSEPH CO HOUSEHOLD HAZ WST</i>	<i>701 W SAMPLE</i>	<i>1/4 - 1/2WNW</i>	<i>M48</i>	<i>33</i>
<i>CENTRAL TRANSPORT</i>	<i>1040 SAMPLE</i>	<i>1/4 - 1/2WNW</i>	<i>M51</i>	<i>35</i>
<i>SOUTH BEND CITY OF DIV OF EQUI</i>	<i>1045 W SAMPLE ST</i>	<i>1/4 - 1/2WNW</i>	<i>M52</i>	<i>35</i>
<i>S MICHIGAN U HAUL CENTER VACAN</i>	<i>1120 S MICHIGAN</i>	<i>1/4 - 1/2E</i>	<i>N53</i>	<i>35</i>
<i>ALCON BUILDING PRODUCTS</i>	<i>1702 S FRANKLIN ST</i>	<i>1/4 - 1/2SSE</i>	<i>O55</i>	<i>37</i>
<i>RIDGE CO INC THE</i>	<i>1535 S MAIN</i>	<i>1/4 - 1/2SE</i>	<i>P57</i>	<i>38</i>
<i>SUNOCO SERVICE STATION</i>	<i>1536 S MAIN ST</i>	<i>1/4 - 1/2SE</i>	<i>P60</i>	<i>40</i>
<i>BARTHOLOMEWS INC</i>	<i>1331 S MICHIGAN ST</i>	<i>1/4 - 1/2ESE</i>	<i>61</i>	<i>40</i>
<i>N A B BUILDING CO</i>	<i>765 S LAFAYETTE ST</i>	<i>1/4 - 1/2NNE</i>	<i>Q63</i>	<i>41</i>
<i>MICHIANA TRANSMISSION</i>	<i>902 S MICHIGAN</i>	<i>1/4 - 1/2ENE</i>	<i>S67</i>	<i>43</i>
<i>CHEMSOLV INC</i>	<i>604 S SCOTT ST</i>	<i>1/4 - 1/2N</i>	<i>R72</i>	<i>46</i>
<i>ENYART ELECTRIC MTR SERVICE</i>	<i>122 E SAMPLE ST</i>	<i>1/4 - 1/2ENE</i>	<i>S80</i>	<i>75</i>
<i>EXHIBITECH INC</i>	<i>1607 S MAIN ST</i>	<i>1/4 - 1/2SE</i>	<i>81</i>	<i>76</i>
<i>CONSOLIDATED RAIL</i>	<i>628 W SOUTH ST</i>	<i>1/4 - 1/2N</i>	<i>U83</i>	<i>76</i>
<i>YODER OIL CO</i>	<i>600 PRAIRIE AVE</i>	<i>1/4 - 1/2N</i>	<i>84</i>	<i>77</i>
<i>SHOUP BUSES INC</i>	<i>716 S MAIN ST</i>	<i>1/4 - 1/2NE</i>	<i>V86</i>	<i>78</i>
<i>UNITED CAR PARTS</i>	<i>600 W PRAIRIE</i>	<i>1/4 - 1/2N</i>	<i>U87</i>	<i>78</i>

EXECUTIVE SUMMARY

HMIRS: The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 06/30/1999 has revealed that there are 4 HMIRS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	813 W SAMPLE STREET	1/4 - 1/2NW	C10	16
Not reported	607 S SCOTT	1/4 - 1/2N	R66	43
Not reported	604 S SCOTT ST	1/4 - 1/2N	R74	47
Not reported	604 SOUTH SCOTT STREET	1/4 - 1/2N	R75	47

RAATS: The RCRA Administration Action Tracking System contains records based on enforcement actions issued under RCRA and pertaining to major violators. It includes administrative and civil actions brought by the United States Environmental Protection Agency. The source of this database is the U.S. EPA.

A review of the RAATS list, as provided by EDR, and dated 04/17/1995 has revealed that there is 1 RAATS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>INDUSTRIAL FUELS & RESOURCES C</i>	<i>604 SOUTH SCOTT STREET</i>	<i>1/4 - 1/2N</i>	<i>R78</i>	<i>48</i>

STATE OR LOCAL ASTM SUPPLEMENTAL

SPILLS: The List of Spills Incidents from The Department of Environmental Management.

A review of the IN Spills list, as provided by EDR, has revealed that there are 15 IN Spills sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>RAITT CORPORATION</i>	<i>815 W SAMPLE ST</i>	<i>1/4 - 1/2NW</i>	<i>C12</i>	<i>16</i>
Not reported	S OF FUEL PAD 1311 S OL	1/4 - 1/2NW	C13	17
Not reported	301 W SAMPLE	1/4 - 1/2ENE	19	20
Not reported	100 BLK N CAPITOL / 2	1/4 - 1/2WSW	E21	21
<i>AMERITECH GARAGE</i>	<i>1401 PRAIRIE AVE</i>	<i>1/4 - 1/2WSW</i>	<i>E30</i>	<i>25</i>
Not reported	MAIN ST / ST JOSEPH R	1/4 - 1/2WSW	E31	26
Not reported	1310 S MAIN	1/4 - 1/2ESE	I35	28
Not reported	1310 SOUTH MAIN ST., SU	1/4 - 1/2ESE	I36	28
Not reported	US 31 BYPASS AT SR 23 -	1/4 - 1/2ENE	J39	29
Not reported	604 S SCOTT RD	1/4 - 1/2N	R68	43
Not reported	604 SCOTT ST, ENV SVC O	1/4 - 1/2N	R69	44
Not reported	604 S SSCOTT ST	1/4 - 1/2N	R70	45
Not reported	604 S SCOTT	1/4 - 1/2N	R71	45
Not reported	604 S SCOTT ST-TIPPER C	1/4 - 1/2N	R73	46
Not reported	604 S SCOTT ST	1/4 - 1/2N	R76	47

EXECUTIVE SUMMARY

PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites:

The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative

A review of the Coal Gas list, as provided by EDR, has revealed that there are 2 Coal Gas sites within approximately 1.5 miles of the target property.

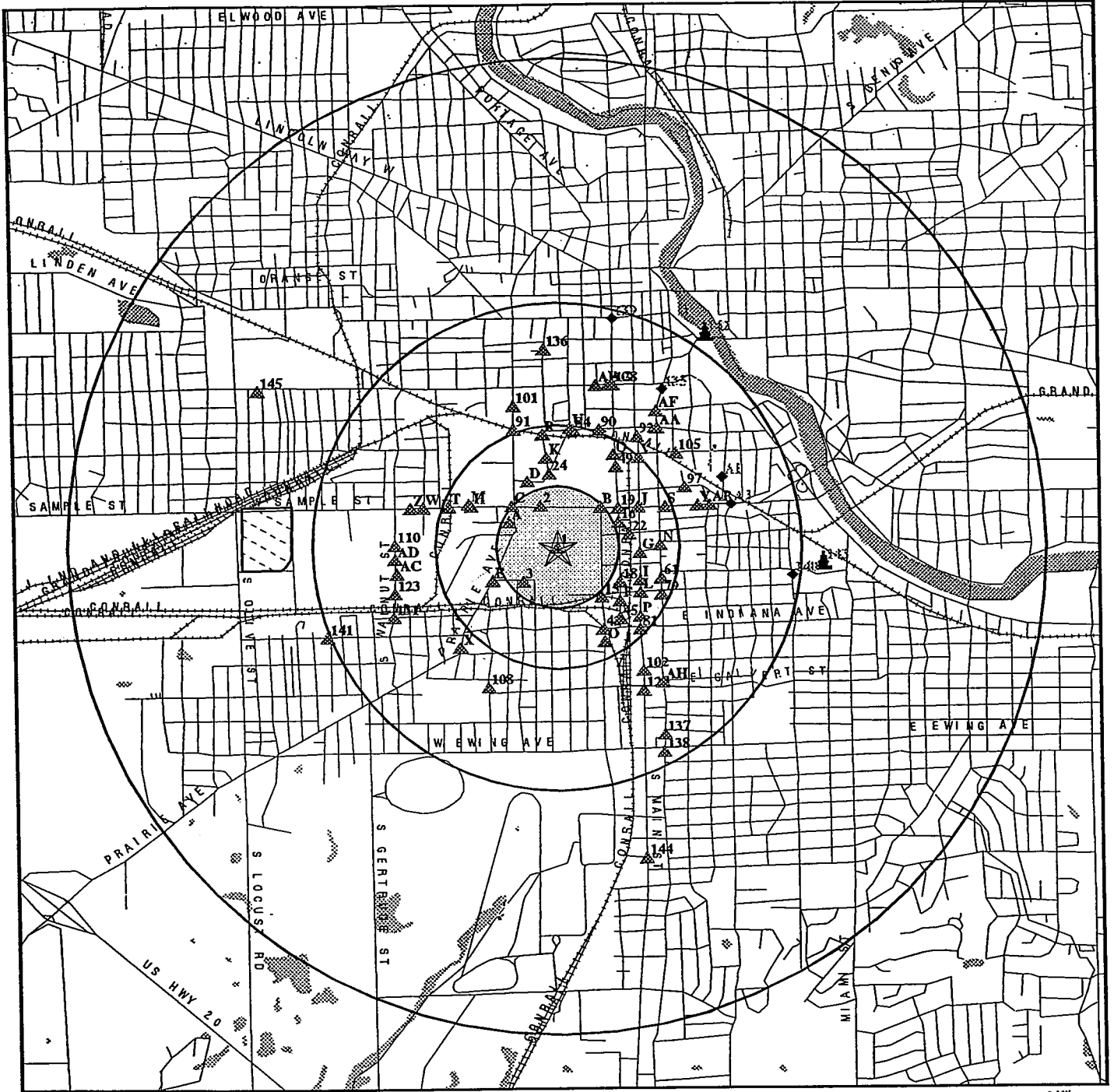
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SOUTH BEND GAS LIGHT & COKE CO	301 E. JEFFERSON AND 32	1 - 2 NE	142	122
NORTHERN INDIANA GAS AND ELECT	E. PENNSYLVANIA AVE.	1 - 2 E	143	122

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
ARCO INDUSTRIAL	SHWS
WESTERN AVENUE SITE	CERC-NFRAP
TREE BURNING SITE	CERC-NFRAP
BOC GASES-FORMERLY AIRCO INDUST	UST,LUST
SEE FAC ID 11102	UST
FORMER FIRE STATION	UST
I.U. SOUTH BEND	UST
ON RED ARROW HIGHWAY 1/4 MI SOUTH OF SHAWNEE	ERNS
AIRCO, 3809 CALVERT STREET, SOUTH BEND, ID 219-234-4906; DAV	ERNS
SOUTH BEND RAIL YARD WEST SIDE OF TOWN	ERNS
1310 SOUTH MAIN ST STE 3	ERNS
1310 SOUTH MAIN ST, UNIT 3	ERNS
1530 SOUTH OLIVE STREET	ERNS
137 SOUTH OLIVE	ERNS
A T & T SOUTH BEND	FINDS
SOUTH BEND COUNTRY CLUB	FINDS

OVERVIEW MAP - 0562243.4r - Hull & Associates, Inc.



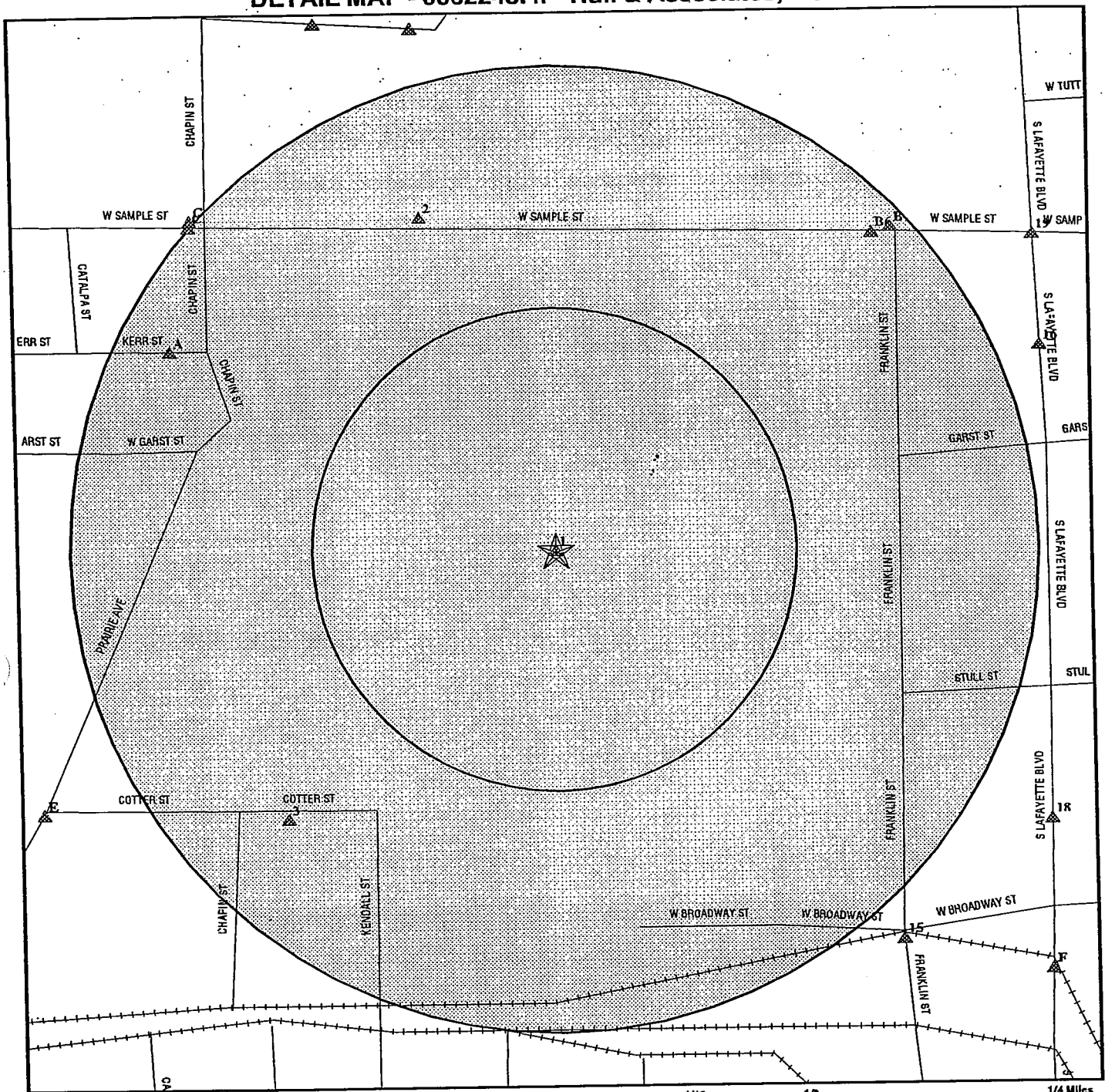
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- ▨ National Priority List Sites
- ▨ Landfill Sites

- Power transmission lines
- Oil & Gas pipelines
- ▨ Wetlands per National Wetlands Inventory



TARGET PROPERTY: South Bend Stamping, Et Al.
ADDRESS: 601 West Broadway
CITY/STATE/ZIP: South Bend IN 46601
LAT/LONG: 41.6623 / 86.2579

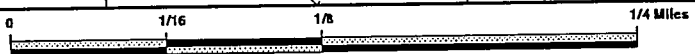
CUSTOMER: Hull & Associates, Inc.
CONTACT: Mike Coonfare
INQUIRY #: 0562243.4r
DATE: November 10, 2000 7:18 am

DETAIL MAP - 0562243.4r - Hull & Associates, Inc.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- ⚡ Sensitive Receptors
- ▣ National Priority List Sites
- ▣ Landfill Sites

 Power transmission lines
 Oil & Gas pipelines



TARGET PROPERTY: South Bend Stamping, Et Al ADDRESS: 601 West Broadway CITY/STATE/ZIP: South Bend IN 46601 LAT/LONG: 41.6623 / 86.2579	CUSTOMER: Hull & Associates, Inc. CONTACT: Mike Coonfare INQUIRY #: 0562243.4r DATE: November 10, 2000 7:19 am
---	---

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

1 SOUTH BEND STAMPING INC
 Target 601 W BROADWAY
 Property SOUTH BEND, IN 46018

RCRIS-SQG 1000463504
 FINDS IND005938014
 UST
 LUST

RCRIS:

Owner: TECUMSEH METAL PRODUCTS INC
 (248) 588-0079

Contact: GENE RISLEY
 (219) 282-8247

Record Date: 03/01/1993

Classification: Small Quantity Generator, Conditionally Exempt Small Quantity Generator

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 01/31/1992
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 11/18/1992

Enforcement Action: Written Informal
 Enforcement Action Date: 06/16/1992
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 01/31/1992
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 11/18/1992

Enforcement Action: Written Informal
 Enforcement Action Date: 06/16/1992
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 01/31/1992
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 11/18/1992

Enforcement Action: Written Informal
 Enforcement Action Date: 06/16/1992
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 01/31/1992
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 11/18/1992

Enforcement Action: Written Informal
 Enforcement Action Date: 06/16/1992
 Proposed Monetary Penalty: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

SOUTH BEND STAMPING INC (Continued)

1000463504

Final Monetary Penalty: Not reported
 Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 01/31/1992
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 11/18/1992
 Enforcement Action: Written Informal
 Enforcement Action Date: 06/16/1992
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

There are 5 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	11/18/1992
	Generator-All Requirements	11/18/1992
	Generator-All Requirements	11/18/1992
	TSD-Other Requirements	11/18/1992
	TSD-Other Requirements	11/18/1992
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	11/18/1992
	Generator-All Requirements	11/18/1992
	Generator-All Requirements	11/18/1992
	TSD-Other Requirements	11/18/1992
	TSD-Other Requirements	11/18/1992

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 National Compliance Database (NCDB)
 State Systems

LUST:

Facility ID: 10470
 Owner Name: Allied Products Corporation
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

Facility ID: 10470
 Owner Name: Allied Products
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:

Facility ID: 10470
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5674
 Company Id: 5674
 Company Name: Allied Products Corp

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

SOUTH BEND STAMPING INC (Continued)

1000463504

Facility ID: 10470
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5674
Company Id: 5674
Company Name: Allied Products Corp

Facility ID: 10470
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19931004
Closure Date: 11/29/93
Owner Id: 5674
Company Id: 5674
Company Name: Allied Products Corp

NPL
Region
West
> 1
5726

WHITEFORD SALES & SERVICE/NATIONALEASE
2020 WEST SAMPLE STREET
SOUTH BEND, IN 46619

CERCLIS 1000399687
Delisted NPL IND980999791
ROD

CERCLIS Classification Data:

Site Incident Category: Not reported
Ownership Status: Not reported
Contact: BILL BOLEN
Site Description: The 11-acre Whiteford Sales and Service, Inc. (WSS) site consists of a former truck washing facility located in St. Joseph County, Indiana. Currently the site serves as a retention basin for stormwater and surface water run-off from the Olive Street overpass and surrounding areas. The WSS site includes approximately 8.6 acres that comprised the original facility property, purchased by St. Joseph County in 1980, along with an additional 2.4 acres previously owned by the County. The closest surface water body to the site is the St. Joseph River, which eventually drains into Lake Michigan, and is located approximately 2 miles northeast of the site. The St. Joseph River is used for fishing and recreational activities. Land in the vicinity of the site is primarily commercial and light industrial. Residential areas are located approximately 2,000 feet south of the site, and also north of the site beyond the Olive Street overpass. One of the ten City of South Bend municipal well fields, the Olive Street well field, is located 800 feet west of the site. The municipal system, which supplies over 100,000 residents with drinking water, is referred to as a blended water system due to the fact that water mains from the ten well fields are interconnected and residents may be supplied with water from one or any combination of the ten well fields. The WSS site was altered significantly during the 1983 overpass construction project, when it was converted to its current use as a storm water retention basin. As a result, the topographic relief of the site is significantly greater than that of the surrounding area. Although material underlying the site generally consists of sand and gravel units, a clay layer exists at approximately 665 feet MSL (mean sea level). Areas with clay seams and areas of clayey silt would be expected to exhibit reduced permeability. Because of the apparent areal extent of this clay unit, it may be classified as a potential aquitard. Altho

Federal Facility: Not reported
NPL Status: Not reported
Contact Tel: (312) 353-6316

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

WHITEFORD SALES & SERVICE/NATIONALEASE (Continued)

1000399687

ugh this clay layer could potentially act as an aquitard between two portions of the shallow aquifer, based on monitoring well sample results and the lack of complete information on the clay layer, it must be assumed that the two portions are hydraulically connected. The Ellsworth Shale Formation is the bedrock layer underlying the unconsolidated sand and gravel unit. It is assumed that any groundwater present in bedrock would have a northwesterly regional flow direction towards Lake Michigan.

St. Joseph County purchased the property previously owned by Whiteford Sales and Service, Inc., on February 19, 1980. WSS continued operating its truck washing facility at the site from 1980 until St. Joseph County began construction of the Olive Street overpass in mid-1983. During the time that WSS operated at the site, waste water from the truck washing operations was disposed of via facility floor drains that discharged to three dry wells located 20 to 70 feet south of the main building. Each well was constructed of perforated concrete and was approximately 4 feet wide and 6 feet deep. No engineered liners or other materials limiting downward percolation of liquids, or collection systems, were present, and no records of the quantity of waste water generated were maintained. For Hazard Ranking System (HRS) scoring purposes, the volume of waste water generated was estimated to be 396,000 gallons. Types of wastes believed to have been discharged to the dry well include solvents, degreasers, waste oil, and detergents. Other waste fluids from the vehicles serviced at the facility may also have entered the wells. Volatile organic compounds (VOCs) were detected in the Olive Street well field as early as 1980. In June 1980 the well field was shut down by the City due to the contaminant levels in the wells. Later that year, a report of an investigation conducted by an environmental consulting firm retained by Ashland Chemical Company (Ashland) indicated that Ashland, located 2,000 feet southeast of the WSS site, was the probable source of the groundwater contamination. In 1981 Ashland initiated a study to further define the source of the contaminant plume and also excavated and disposed of approximately 10,000 cubic yards of contaminated soil from Ashland property. One of the Ashland extraction wells was installed adjacent to the southern boundary of the WSS site due to a "pocket of contamination" detected in the area. It was not until late in 1983, when the dry wells on the WSS site were uncovered, that it was recognized that this pocket of contamination may have been originating from the WSS site instead of from Ashland, and that contaminants from the WSS operations may have contributed to the contamination in the Olive Street well field. In addition to the release at Ashland, numerous spills and releases from other facilities in the generally commercial and light industrial area of the site have been reported. File searches completed at IDEM revealed a number of substances, including muriatic acid, waste motor oils, diesel fuel, gasoline, and No. 6 fuel, for which releases have been reported within an 1,500-foot radius of the WSS site. Ashland is currently finalizing a Work Plan for completing a RCRA Facility Investigation (RFI) at its facility. Based on the results of the RFI, corrective action may be required. Contaminant levels in the Olive Street municipal wells and the Ashland extraction wells continued to be monitored throughout the 1980s. By the late 1980s, data reports showed that levels of contaminants in the wells were decreasing. Two of the six wells in the Olive Street well field were reinstated in the summer of 1987 for use during high demand periods only. Currently, one well is used during periods of high

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

WHITEFORD SALES & SERVICE/NATIONALEASE (Continued)

1000399687

demand. In 1983, in the process of realigning the Olive Street interchange and constructing the new overpass, St. Joseph County used approximately 200,000 cubic yards of soil from the Whiteford Sales and Service, Inc. (WSS) site as fill material. St. Joseph County uncovered the three dry wells during excavation activities, and subsequently retained an environmental consulting firm to test samples of the sludge and soil from the wells. Results from the analysis of the dry well sludge showed that the sludge was a Resource Conservation and Recovery Act (RCRA) characteristic waste due to its low flash point. Eight EPA priority pollutants were identified in the sample. A Consent Decree finalized in June 1987 and signed by Whiteford-Kenworth, Inc., St. Joseph County, and Indiana Department of Environmental Management (IDEM) authorized the cleanup and removal of the dry well material. Removal of the sludge in the dry wells, and sludge and soil extending 4 feet beyond the dry well sides and bottoms, was completed in July 1988. Approximately 210 cubic yards of contaminated soil and sludge were disposed of at the County Line Sanitary Landfill in Fulton County, Indiana. In 1988, EPA proposed the WSS site for inclusion on the National Priorities List (NPL). In 1989, EPA offered Whiteford Nationalease, Inc., Whiteford Kenworth, Inc., St. Joseph County, Ronald Whiteford and Florence Whiteford the opportunity to conduct the remedial investigation and feasibility study (RI/FS) at the WSS site. In August, EPA provided the parties identified above with copies of a draft Administrative Order by Consent to conduct the RI/FS at the WSS site. In September, all parties advised EPA that they were declining the opportunity to conduct the RI/FS. In March 1990, EPA asked St. Joseph County to execute an access agreement to allow EPA to conduct the RI/FS. The WSS site was added to the NPL in August 1990. St. Joseph County signed an access agreement in May, and EPA conducted the RI from September through December 1990.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	19841001
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19850201
Assessment:	SITE INSPECTION	Completed:	19850906
Assessment:	HRS PACKAGE	Completed:	19860924
Assessment:	NPL RP SEARCH	Completed:	19870615
Assessment:	PROPOSAL TO NPL	Completed:	19880624
Assessment:	RI/FS NEGOTIATIONS	Completed:	19890929
Assessment:	REMOVAL ASSESSMENT	Completed:	19891013
Assessment:	MANAGEMENT ASSISTANCE	Completed:	19900331
Assessment:	REMOVAL ASSESSMENT	Completed:	19900619
Assessment:	COMMUNITY INVOLVEMENT	Completed:	19900726
Assessment:	FINAL LISTING ON NPL	Completed:	19900830
Assessment:	REMOVAL ASSESSMENT	Completed:	19920731
Assessment:	HUMAN HEALTH RISK ASSESSMENT	Completed:	19950718
Assessment:	ECOLOGICAL RISK ASSESSMENT	Completed:	19950719
Assessment:	COMBINED RI/FS	Completed:	19950929
Assessment:	RECORD OF DECISION	Completed:	19950929
Assessment:	DELETION FROM NPL	Completed:	19960906
Assessment:	OPERATIONS AND MAINTENANCE	Completed:	19991019

CERCLIS Site Status:

Not reported

CERCLIS Alias Name(s):

WHITEFORD SALES & SERV NAT LEASE
 WHITEFORD SALES & SERV NAT LEASE

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

WHITEFORD SALES & SERVICE/NATIONALEASE (Continued)

1000399687

NPL:

ID:	05IN051
Date Listed:	8/30/90 (FINAL)
EPAID:	IND980999791
Haz. Rank Score:	51.87
Status:	LISTED ON NPL
Rank:	175
Group:	4
Ownership:	County
Ownership:	Private
Permit:	None
Site Activities:	Underground Injection
Site Condition:	Direct Contact
Waste Type:	Chlorinated Organics
Waste Type:	Metals
Waste Type:	Solvents
Contaminant:	Media Affected:
LEAD (PB)	Not reported
ARSENIC	Not reported
ETHYLBENZENE	Not reported
1,4-DICHLOROBENZENE	Not reported
TOLUENE	Not reported
Distance to nearest Population:	Not reported
Population within a 1 Mile Radius:	3,001 to 10,000 People
Population within a 2 Mile Radius:	Not reported
Population within a 4 Mile Radius:	Not reported
Vertical Distance to Aquifer:	Less than 21 Feet
Ground Water Use:	Used as Drinking Water, Alternative Source not Available
Distance to nearest Surface Water:	Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

2
 NNW
 1/8-1/4
 977
 Higher

MUNICIPAL SERVICE FACILITY
 701 SAMPLE
 SOUTH BEND, IN 46625

UST U000182043
 LUST N/A

LUST:

Facility ID:	418
Owner Name:	Municipal Service Facility
Priority	Medium
Affected Area:	Soil
Description:	Active
Facility ID:	418
Owner Name:	Municipal Service Facility
Priority	Medium
Affected Area:	Groundwater
Description:	Active
Facility ID:	418
Owner Name:	Municipal Service Facility
Priority	Low
Affected Area:	Soil

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MUNICIPAL SERVICE FACILITY (Continued)

U000182043

Description: No Further Action

UST:

Facility ID: 418
Tank Number: 12
Tank Status: CURRENTLY IN USE
Install Date: 19950830
Closure Date: Not reported
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 9
Tank Status: CURRENTLY IN USE
Install Date: 19660101
Closure Date: Not reported
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/01/95
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/01/95
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 14
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19660101
Closure Date: 12/18/97
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 8
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/01/90
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

MUNICIPAL SERVICE FACILITY (Continued)

U000182043

Facility ID: 418
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 01/22/96
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 01/22/96
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 7
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/01/90
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 01/22/96
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 10
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 01/22/96
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 11
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19660101
Closure Date: 12/17/97
Owner Id: 5832
Company Id: 5832
Company Name: City Of South Bend

Facility ID: 418
Tank Number: 6

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		Database(s) EDR ID Number EPA ID Number
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MUNICIPAL SERVICE FACILITY (Continued)

U000182043

Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 01/22/96
 Owner Id: 5832
 Company Id: 5832
 Company Name: City Of South Bend

Facility ID: 418
 Tank Number: 13
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19660101
 Closure Date: 12/18/97
 Owner Id: 5832
 Company Id: 5832
 Company Name: City Of South Bend

3
 SW
 1/8-1/4
 1036
 Higher

WELTEK INTERNATIONAL INC
 760 W COTTER
 SOUTH BEND, IN 46613

RCRIS-SQG 1000399804
 FINDS IND102358181

RCRIS:
 Owner: NAME NOT REPORTED
 (312) 555-1212
 Contact: JOE OLSZEWSKI
 (219) 232-5400
 Record Date: 10/15/1984
 Classification: Not reported
 Used Oil Recyc: No
 Violation Status: No violations found

A4
 WNW
 1/8-1/4
 1174
 Higher

ADVANCED MASONRY CONSTRUCTION
 828 KERR ST
 SOUTH BEND, IN 46601

FINDS 1002910029
 IND985103167

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

A5
 WNW
 1/8-1/4
 1174
 Higher

AMERICAN HI-LIFT (VACANT)
 828 KERR ST
 SOUTH BEND, IN 0

UST U001322358
 LUST N/A

LUST:
 Facility ID: 18593
 Owner Name: American Hilit Company
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

AMERICAN HI-LIFT (VACANT) (Continued)

U001322358

UST:

Facility ID: 18593
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 05/17/93
Owner Id: 10796
Company Id: 10796
Company Name: American Hi-Lift

Facility ID: 18593
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 05/17/93
Owner Id: 10796
Company Id: 10796
Company Name: American Hi-Lift

B6
NE
1/8-1/4
1228
Higher

**STUDEBAKER BLDG 92
414 W SAMPLE ST
SOUTH BEND, IN 46601**

**FINDS 1001817059
RCRIS-LQG INR000021667**

RCRIS:

Owner: BD OF PUBLIC WORKS
(219) 235-5291
Contact: CARL LITTRELL
(219) 235-5291
Record Date: 12/01/1999
Classification: Large Quantity Generator, Hazardous Waste Transporter
Used Oil Recyc: No
Violation Status: No violations found

B7
NE
1/8-1/4
1274
Higher

**SOUTH BEND LATHE
400 W SAMPLE ST
SOUTH BEND, IN 46625**

**UST 1000751116
N/A**

UST:

Facility ID: 378
Tank Number: 1
Tank Status: CURRENTLY IN USE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6747
Company Id: 6747
Company Name: South Bend Lathe

Facility ID: 378
Tank Number: 2
Tank Status: CURRENTLY IN USE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

SOUTH BEND LATHE (Continued)

1000751116

Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6747
 Company Id: 6747
 Company Name: South Bend Lathe

Facility ID: 378
 Tank Number: 5
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6747
 Company Id: 6747
 Company Name: South Bend Lathe

Facility ID: 378
 Tank Number: 4
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6747
 Company Id: 6747
 Company Name: South Bend Lathe

Facility ID: 378
 Tank Number: 3
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6747
 Company Id: 6747
 Company Name: South Bend Lathe

**B8
 NE
 1/8-1/4
 1274
 Higher**

**SOUTH BEND LATHE
 400 W SAMPLE ST
 SOUTH BEND, IN 46601**

**RCRIS-SQG 1000404927
 FINDS IND005163738**

RCRIS:
 Owner: SOUTH BEND LATHE INC
 (219) 289-7771
 Contact: ROBERT PFLUGNER
 (219) 289-7771
 Record Date: 11/29/1999
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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SOUTH BEND LATHE (Continued)

1000404927

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 National Compliance Database (NCDB)
 State Systems

**C9
 NW
 1/8-1/4
 1306
 Higher**

**IDEAL CONSOLIDATED
 806 W SAMPLE
 SOUTH BEND, IN 46601**

**RCRIS-SQG 1000510068
 FINDS IND984896795**

RCRIS:

Owner: GRAF DARRELL
 Contact: BERNARD BLANDA
 (219) 282-1228
 Record Date: 05/02/1991
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

**C10
 NW
 1/4-1/2
 1323
 Higher**

**813 W SAMPLE STREET
 SOUTH BEND, IN**

**HMIRS 97070430
 N/A**

**C11
 NW
 1/4-1/2
 1323
 Higher**

**ABF FREIGHT SYS SOUTH BEND
 813 W SAMPLE ST
 SOUTH BEND, IN 46601**

**FINDS 1002892734
 IN0002143972**

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

**C12
 NW
 1/4-1/2
 1330
 Higher**

**RAITT CORPORATION
 815 W SAMPLE ST
 SOUTH BEND, IN 46625**

**LUST 1000511678
 IN Spills N/A
 UST**

LUST:

Facility ID: 8332
 Owner Name: Raitt Corporation
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

RAITT CORPORATION (Continued)

1000511678

SPILL:

Facility ID:	199102170	Release Date:	02/27/1991
Incident Date:	02/25/1991		
Spill Type:	LEAKING UNDERGROUND TANK		
Contained:	Yes		
Water Affected:	None	Area Affected:	1305 Ft Sq
Fish Killed:	0	Wtr Supply Affctd:	Undetermined
Enforcement:	REFERRED TO OTHER AREA		
Spilled Amount:	3.00	Units:	Gallons
Recovered Amnt:	2.90	Units:	Gallons
Material:	Diesel Fuel		
Cleanup Duration:	Ongoing		
Public Intake:	Not reported		

UST:

Facility ID:	8332
Tank Number:	1
Tank Status:	PERMANENTLY OUT OF SERVICE
Install Date:	19650101
Closure Date:	10/02/97
Owner Id:	6610
Company Id:	6610
Company Name:	Raitt Corporation
Facility ID:	8332
Tank Number:	2
Tank Status:	PERMANENTLY OUT OF SERVICE
Install Date:	19650101
Closure Date:	10/02/97
Owner Id:	6610
Company Id:	6610
Company Name:	Raitt Corporation
Facility ID:	8332
Tank Number:	3
Tank Status:	PERMANENTLY OUT OF SERVICE
Install Date:	Not reported
Closure Date:	Not reported
Owner Id:	6610
Company Id:	6610
Company Name:	Raitt Corporation
Facility ID:	8332
Tank Number:	4
Tank Status:	PERMANENTLY OUT OF SERVICE
Install Date:	Not reported
Closure Date:	Not reported
Owner Id:	6610
Company Id:	6610
Company Name:	Raitt Corporation

C13
 NW
 1/4-1/2
 1330
 Higher

S OF FUEL PAD 1311 S OLIVE
 SOUTH BEND, IN 46624

IN Spills

S103796922
 N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103796922

SPILL:

Facility ID:	199103170	Release Date:	02/27/1991
Incident Date:	02/25/1991		
Spill Type:	LEAKING UNDERGROUND TANK		
Contained:	Yes		
Water Affected:	None	Area Affected:	1305 Ft Sq
Fish Killed:	0	Wtr Supply Affctd:	Undetermined
Enforcement:	NONE		
Spilled Amount:	3.00	Units:	Pounds
Recovered Amnt:	3.00	Units:	Gallons
Material:	Diesel Fuel		
Cleanup Duration:	Ongoing		
Public Intake:	Not reported		

C14
 NW
 1/4-1/2
 1331
 Higher

RAITT CORP
 815 SAMPLE ST
 SOUTH BEND, IN 46601

RCRIS-SQG 1000887386
 FINDS IND984915199

RCRIS:

Owner: RAITT CORP
 (219) 287-8022

Contact: ROBERT DUNBAR
 (219) 287-8022

Record Date: 10/15/1997

Classification: Not reported

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

15
 SE
 1/4-1/2
 1422
 Higher

ECKLER LAHEY LUMBER COMPANY
 1406 S FRANKLIN ST
 SOUTH BEND, IN 46613

UST U003142201
 LUST N/A

LUST:

Facility ID: 18914
 Owner Name: Eckler Lehay Lumber Co.
 Priority Low
 Affected Area: Soil
 Description: Discontinued

UST:

Facility ID: 18914
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19780101
 Closure Date: 04/12/94
 Owner Id: 11104

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

ECKLER LAHEY LUMBER COMPANY (Continued)

U003142201

Company Id: 11104
Company Name: Eckler Lahey Lumber Company

Facility ID: 18914
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19650101
Closure Date: 04/12/94
Owner Id: 11104
Company Id: 11104
Company Name: Eckler Lahey Lumber Company

Facility ID: 18914
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19450101
Closure Date: 04/12/94
Owner Id: 11104
Company Id: 11104
Company Name: Eckler Lahey Lumber Company

16
ENE
1/4-1/2
1437
Higher

**ZIOLKOWSKI CONSTRUCTION
1005 S LAFAYETTE
SOUTH BEND, IN 46624**

**RCRIS-SQG 1000451454
FINDS IND984877597
UST**

RCRIS:

Owner: ZIOLKOWSKI CONSTRUCTION
Contact: BEN ZIOLKOWSKI
(219) 287-1811
Record Date: 08/03/1990
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

UST:

Facility ID: 11335
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6996
Company Id: 6996
Company Name: Ziolkowski Const

Facility ID: 11335
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6996
Company Id: 6996
Company Name: Ziolkowski Const

Facility ID: 11335

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		Database(s)	EDR-ID Number EPA ID Number
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ZIOLKOWSKI CONSTRUCTION (Continued)

1000451454

Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6996
 Company Id: 6996
 Company Name: Ziolkowski Const

D17
NNW
1/4-1/2
1472
Higher

MECHANICS LAUNDRY & SUPPLY INC
835 PRAIRIE AVE
SOUTH BEND, IN 46625

UST

1000755612
N/A

UST:

Facility ID: 14309
 Tank Number: 1
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6412
 Company Id: 6412
 Company Name: Mechanics Laundry & Supply Inc

18
ESE
1/4-1/2
1537
Higher

UNIVERSAL PAINTING CO INC
1319 S LAFAYETTE BLVD
SOUTH BEND, IN 46601

RCRIS-SQG

1001960570
IND984941815

RCRIS:

Owner: FORTSON WILLIAM B
 (219) 291-4147

 Contact: WILLIAM FORTSON
 (219) 289-4524

 Record Date: 01/27/2000
 Classification: Not reported
 Used Oil Recyc: No
 Violation Status: No violations found

19
ENE
1/4-1/2
1565
Higher

301 W SAMPLE
SOUTH BEND, IN 46601

IN Spills

S103805651
N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103805651

SPILL:

Facility ID:	199810147	Release Date:	10/19/1998
Incident Date:	10/19/1998		
Spill Type:	UNKNOWN		
Contained:	No		
Water Affected:	None	Area Affected:	Not reported
Fish Killed:	0	Wtr Supply Affctd:	Undetermined
Enforcement:	NONE		
Spilled Amount:	0	Units:	Unknown Units
Recovered Amnt:	Not reported	Units:	Unknown Units
Material:	Solvent Contamination		
Cleanup Duration:	Not reported		
Public Intake:	Not reported		

D20
 NNW
 1/4-1/2
 1572
 Higher

UNITED BEVERAGE
 840 S PRAIRIE
 SOUTH BEND, IN 46625

UST

1000756525
 N/A

UST:

Facility ID:	10212
Tank Number:	1
Tank Status:	CURRENTLY IN USE
Install Date:	19830101
Closure Date:	Not reported
Owner Id:	2021
Company Id:	2021
Company Name:	Mdk Corp
Facility ID:	10212
Tank Number:	2
Tank Status:	CURRENTLY IN USE
Install Date:	19810101
Closure Date:	Not reported
Owner Id:	2021
Company Id:	2021
Company Name:	Mdk Corp
Facility ID:	10212
Tank Number:	3
Tank Status:	CURRENTLY IN USE
Install Date:	19810101
Closure Date:	Not reported
Owner Id:	2021
Company Id:	2021
Company Name:	Mdk Corp

E21
 WSW
 1/4-1/2
 1574
 Higher

100 BLK N CAPITOL / 2500 LINCL
 MISHAWAKA, IN 46544

IN Spills

S103805179
 N/A

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s)
EDR ID Number
EPA ID Number

(Continued)

S103805179

SPILL:

Facility ID:	199807161	Release Date:	07/22/1998
Incident Date:	07/22/1998		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	None	Area Affected:	400 Sq Ft
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	.15	Units:	Gallons
Recovered Amnt:	.15	Units:	Gallons
Material:	Hydraulic Oil		
Cleanup Duration:	1 Day		
Public Intake:	Not reported		

22
East
1/4-1/2
1582
Higher

CITY OF SOUTH BEND
225 W GARST ST
SOUTH BEND, IN 46601

UST

U003142164
N/A

UST:

Facility ID: 18512
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 02/01/93
Owner Id: 10720
Company Id: 10720
Company Name: City Of South Bend

Facility ID: 18512
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 02/01/93
Owner Id: 10720
Company Id: 10720
Company Name: City Of South Bend

E23
WSW
1/4-1/2
1589
Higher

SOUTH BEND SUPPLY CO
1310 S PRAIRE AVE
SOUTH BEND, IN 46634

UST

U003093975
N/A

UST:

Facility ID: 9436
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6750
Company Id: 6750
Company Name: South Bend Supply Co

Facility ID: 9436
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

SOUTH BEND SUPPLY CO (Continued)

U003093975

Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6750
 Company Id: 6750
 Company Name: South Bend Supply Co

24
 North
 1/4-1/2
 1609
 Higher

GNB INC
730 PRAIRIE AVE
SOUTH BEND, IN 46624

FINDS 1000118901
 RCRIS-LQG IND981002199

RCRIS:

Owner: NAME NOT REPORTED
 (312) 555-1212
 Contact: E MILTON
 (612) 681-5305
 Record Date: 04/10/1985
 Classification: Large Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

F25
 SE
 1/4-1/2
 1770
 Higher

CITY OF SOUTH BEND DEPT OF REDEVELOPMENT
1424 S LAFAYETTE ST
SOUTH BEND, IN 46613

FINDS 1002774939
 000008756700

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

F26
 SE
 1/4-1/2
 1770
 Higher

LOT 10 STUDEBAKER CORRIDOR
1424 S LAFAYETTE ST
SOUTH BEND, IN 46613

UST U003142211
 N/A

UST:

Facility ID: 19015
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 08/15/94
 Owner Id: 11189
 Company Id: 11189
 Company Name: City Of South Bend

G27
 East
 1/4-1/2
 1780
 Higher

JERRY'S-U-SERV INC
1130 S MAIN ST
SOUTH BEND, IN 46618

UST U001080556
 LUST N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

JERRY'S-U-SERV INC (Continued)

U001080556

LUST:

Facility ID: 11905
 Owner Name: Jerry's-U-serve (former)
 Priority: Low
 Affected Area: Soil
 Description: Active

UST:

Facility ID: 11905
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 05/01/92
 Owner Id: 1065
 Company Id: 1065
 Company Name: Homer J Baird

Facility ID: 11905
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 05/01/92
 Owner Id: 1065
 Company Id: 1065
 Company Name: Homer J Baird

G28
 East
 1/4-1/2
 1780
 Higher

CITY OF SOUTH BEND
1130 S MAIN ST
SOUTH BEND, IN 46614

UST
 LUST

U001322280
 N/A

LUST:

Facility ID: 18511
 Owner Name: City Of South Bend Property
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:

Facility ID: 18511
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 02/01/93
 Owner Id: 10720
 Company Id: 10720
 Company Name: City Of South Bend

Facility ID: 18511
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 02/01/93
 Owner Id: 10720
 Company Id: 10720
 Company Name: City Of South Bend

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation		Database(s)	EDR ID Number EPA ID Number
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E29
WSW
1/4-1/2
1792
Higher

INDIANA BELL N47125
1401 PRAIRIE AVE
SOUTH BEND, IN 46613

RCRIS-SQG **1001481788**
FINDS **INR000019158**

RCRIS:
 Owner: **AMERITECH**
 (847) 248-6812

 Contact: **KELLY VAN KOVERING**
 (847) 248-6812

 Record Date: **03/11/1999**
 Classification: **Small Quantity Generator**
 Used Oil Recyc: **No**
 Violation Status: **No violations found**

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Enforcement Docket System (DOCKET)
 State Systems

E30
WSW
1/4-1/2
1792
Higher

AMERITECH GARAGE
1401 PRAIRIE AVE
SOUTH BEND, IN 46613

UST **U003093423**
IN Spills **N/A**

SPILL:
 Facility ID: **199801138**
 Incident Date: **01/26/1998** **Release Date: 01/26/1998**
 Spill Type: **TRANS - TRUCK**
 Contained: **Yes**
 Water Affected: **None** **Area Affected: 2200**
 Fish Killed: **0** **Wtr Supply Affctd: No**
 Enforcement: **NONE**
 Spilled Amount: **.50** **Units: Gallons**
 Recovered Amnt: **.50** **Units: Gallons**
 Material: **Diesel**
 Cleanup Duration: **6 Hours**
 Public Intake: **Not reported**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

AMERITECH GARAGE (Continued)

U003093423

Facility ID:	199801138	Release Date:	01/26/1998
Incident Date:	01/26/1998		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	None	Area Affected:	2200
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE	Units:	Gallons
Spilled Amount:	.10	Units:	Gallons
Recovered Amnt:	.10		
Material:	Hydraulic Oil		
Cleanup Duration:	6 Hours		
Public Intake:	Not reported		

UST:

Facility ID:	3907
Tank Number:	2
Tank Status:	CURRENTLY IN USE
Install Date:	Not reported
Closure Date:	Not reported
Owner Id:	5239
Company Id:	5239
Company Name:	Ameritech

Facility ID:	3907
Tank Number:	1
Tank Status:	CURRENTLY IN USE
Install Date:	Not reported
Closure Date:	Not reported
Owner Id:	5239
Company Id:	5239
Company Name:	Ameritech

**E31
 WSW
 1/4-1/2
 1792
 Higher**

**MAIN ST / ST JOSEPH RIVER
 MISHAWAKA, IN 46613**

**IN Spills S103799439
 N/A**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103799439

SPILL:

Facility ID:	199306290	Release Date:	06/24/1993
Incident Date:	06/24/1993		
Spill Type:	SEMI-PUBLIC		
Contained:	No	Area Affected:	Undetermined
Water Affected:	St Joseph River	Wtr Supply Affctd:	No
Fish Killed:	0		
Enforcement:	REFERRED TO OTHER AREA	Units:	Pounds
Spilled Amount:	0	Units:	Pounds
Recovered Amnt:	0		
Material:	Bentonite		
Cleanup Duration:	None		
Public Intake:	Not reported		

E32
 WSW
 1/4-1/2
 1798
 Higher

BENKO & SONS CO INC
 1402 PRAIRIE AVE
 SOUTH BEND, IN 46613

UST

1000511647
 N/A

UST:

Facility ID: 2553
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5725
 Company Id: 5725
 Company Name: Benko & Sons Co Inc

Facility ID: 2553
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5725
 Company Id: 5725
 Company Name: Benko & Sons Co Inc

Facility ID: 2553
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5725
 Company Id: 5725
 Company Name: Benko & Sons Co Inc

Facility ID: 2553
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5725
 Company Id: 5725
 Company Name: Benko & Sons Co Inc

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation . Site		Database(s)	EDR ID Number EPA ID Number
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E33 WSW 1/4-1/2 1798 Higher	BENKO & SONS CO INC 1402 PRAIRIE AVE SOUTH BEND, IN 46613	FINDS	1002897973 IND984914879
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

H34 WNW 1/4-1/2 1817 Higher	SOUTH BEND TOY INC 404 W SAMPLE ST SOUTH BEND, IN 46625	RCRIS-SQG FINDS	1000404934 IND980999544
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RCRIS:

Owner:	SOUTH BEND TOY INC (219) 289-9275	
Contact:	DAVID PINK (219) 289-9275	
Record Date:	02/04/1985	
Classification:	Not reported	
Used Oil Recyc:	No	
Violation Status:	No violations found	

I35 ESE 1/4-1/2 1913 Higher	1310 S MAIN SOUTH BEND, IN 46601	IN Spills	S103905584 N/A
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SPILL:

Facility ID:	199905064	Release Date:	05/10/1999
Incident Date:	05/10/1999	Area Affected:	Und
Spill Type:	COMMERCIAL	Wtr Supply Affctd:	No
Contained:	No	Units:	Unknown Units
Water Affected:	Storm Sewer?(nrc483231)	Units:	Unknown Units
Fish Killed:	0		
Enforcement:	REFERRED TO OTHER AREA		
Spilled Amount:	0		
Recovered Amnt:	Not reported		
Material:	Carpet Cleaning Chemicals		
Cleanup Duration:	Not reported		
Public Intake:	Not reported		

I36 ESE 1/4-1/2 1913 Higher	1310 SOUTH MAIN ST., SUITE 3 SOUTH BEND, IN 46601	IN Spills	S103905710 N/A
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103905710

SPILL:

Facility ID:	199906035	Release Date:	06/04/1999
Incident Date:	06/04/1999		
Spill Type:	COMMERCIAL		
Contained:	No		
Water Affected:	Nrc#486198	Area Affected:	Not reported
Fish Killed:	0	Wtr Supply Affctd:	Undetermined
Enforcement:	Not reported		
Spilled Amount:	0	Units:	Unknown Units
Recovered Amnt:	Not reported	Units:	Unknown Units
Material:	Unknown Material		
Cleanup Duration:	Not reported		
Public Intake:	Not reported		

J37
 ENE
 1/4-1/2
 1942
 Higher

OLINGER DISTRIBUTING CO INC
 922 S MAIN ST
 SOUTH BEND, IN 46634

UST

U000186161
 N/A

UST:

Facility ID: 5111
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 04/29/94
 Owner Id: 5436
 Company Id: 5436
 Company Name: Olinger Distributing Company Inc

J38
 ENE
 1/4-1/2
 1953
 Higher

INDOT
 US 31 BYPASS 110 MI N SR 23
 SOUTH BEND, IN 46619

RCRIS-SQG
 FINDS

1000451452
 IND984879817

RCRIS:

Owner: STATE OF INDIANA
 (219) 291-1805
 Contact: MICHAEL MANTEI
 (219) 291-1805
 Record Date: 12/30/1991
 Classification: Not reported
 Used Oil Recyc: No
 Violation Status: No violations found

J39
 ENE
 1/4-1/2
 1953
 Higher

US 31 BYPASS AT SR 23 - S BEND
 SOUTH BEND, IN 46618

IN Spills

S101376709
 N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s)
 EDR ID Number
 EPA ID Number

(Continued)

S101376709

SPILL:

Facility ID:	199408045	Release Date:	08/05/1994
Incident Date:	08/05/1994		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	None	Area Affected:	1200 Sq Ft
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	3.00	Units:	Gallons
Recovered Amnt:	0	Units:	Gallons
Material:	Ethanol		
Cleanup Duration:	1 Day		
Public Intake:	Not reported		

Facility ID:	199411121	Release Date:	11/15/1994
Incident Date:	11/15/1994		
Spill Type:	COMMERCIAL		
Contained:	Yes		
Water Affected:	None	Area Affected:	7 Sq Ft
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	5.	Units:	Gallons
Recovered Amnt:	5.	Units:	Gallons
Material:	Gasoline		
Cleanup Duration:	1 Hour		
Public Intake:	Not reported		

K40
 North
 1/4-1/2
 1957
 Higher

MODEL COVERALL SERVICE INC
 717 S SCOTT ST
 SOUTH BEND, IN 46601

FINDS

1002786531
 000008914288

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

K41
 North
 1/4-1/2
 1957
 Higher

MODEL COVERALL SERVICE
 717 S SCOTT ST
 SOUTH BEND, IN 46601

UST

U001082125
 N/A

UST:

Facility ID:	17571
Tank Number:	1
Tank Status:	PERMANENTLY OUT OF SERVICE
Install Date:	Not reported
Closure Date:	Not reported
Owner Id:	9993
Company Id:	9993
Company Name:	Model Coverall Service

42
 SSE
 1/4-1/2
 2018
 Higher

KEENER PRINTING & LITHOGRAPHY
 411 W INDIANA AVE
 SOUTH BEND, IN 46613

FINDS

1002657713
 000006933120

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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KEENER PRINTING & LITHOGRAPHY (Continued)

1002657713

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

L43
 ESE
 1/4-1/2
 2027
 Higher

OLD FORT BUILDING SUPPLY
 1401 S MAIN
 SOUTH BEND, IN 0

UST
 LUST

U003210018
 N/A

LUST:

Facility ID: 20897
 Owner Name: Oldfort Building Supply
 Priority: Low
 Affected Area: Soil
 Description: Discontinued

UST:

Facility ID: 20897
 Tank Number: 0
 Tank Status: Not reported
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 13345
 Company Id: 13345
 Company Name: Old Fort Building Supply

L44
 ESE
 1/4-1/2
 2027
 Higher

OLDFORT BUILDING SUPPLY
 1401 S MAIN
 SOUTH BEND, IN 46613

FINDS

1002909256
 IND985091230

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

45
 SE
 1/4-1/2
 2041
 Higher

INDIANA AUTO PARTS
 1602 S LAFAYETTE BLVD
 SOUTH BEND, IN 46613

RCRIS-SQG
 FINDS

1000907832
 IN0000665984

RCRIS:

Owner: PAULS AUTO YARD INC
 (219) 845-2676

 Contact: PAUL SHAFER
 (219) 845-2676

 Record Date: 09/07/1994

 Classification: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s)
 EDR ID Number
 EPA ID Number

INDIANA AUTO PARTS (Continued)

1000907832

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	04/21/1994
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/09/1995
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	05/04/1994
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 1 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	
Other Evaluation	Generator-All Requirements	

H46
 WNW
 1/4-1/2
 2063
 Higher

HILL TRUCK SALES INC
 1011 W SAMPLE ST
 SOUTH BEND, IN 46619

UST

1000939088
 N/A

UST:

Facility ID: 4450
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6141
 Company Id: 6141
 Company Name: Hill Truck Sales Inc

Facility ID: 4450
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6141
 Company Id: 6141
 Company Name: Hill Truck Sales Inc

Facility ID: 4450
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6141
 Company Id: 6141
 Company Name: Hill Truck Sales Inc

Facility ID: 4450
 Tank Number: 5
 Tank Status: PERMANENTLY OUT OF SERVICE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

HILL TRUCK SALES INC (Continued)

1000939088

Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6141
 Company Id: 6141
 Company Name: Hill Truck Sales Inc

Facility ID: 4450
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6141
 Company Id: 6141
 Company Name: Hill Truck Sales Inc

H47
 WNW
 1/4-1/2
 2063
 Higher

HILL TRUCK SALES INC
 1011 W SAMPLE
 SOUTH BEND, IN 46619

RCRIS-SQG 1000464438
 FINDS IND984885715

RCRIS:

Owner: HILL DAVID
 Contact: JIM PIETRZAK
 (219) 289-4065
 Record Date: 09/27/1990
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems,

M48
 WNW
 1/4-1/2
 2134
 Higher

ST JOSEPH CO HOUSEHOLD HAZ WST COL PRG
 701 W SAMPLE
 SOUTH BEND, IN 46625

FINDS 1000265672
 RCRIS-LQG IND984874941

RCRIS:

Owner: ST JOSEPH COUNTY
 Contact: PAUL TROST
 (219) 284-9775
 Record Date: 02/21/1990
 Classification: Large Quantity Generator

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

ST JOSEPH CO HOUSEHOLD HAZ WST COL PRG (Continued)

1000265672

Used Oil Recyc: No
 Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

49
 NE
 1/4-1/2
 2156
 Higher

AVANTI
 765 SOUTH LAFAYETTE BLVD
 SOUTH BEND, IN 46618

CERC-NFRAP 1000444337
 IND984885780

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Ownership Status: Unknown

Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: PRELIMINARY ASSESSMENT

Completed: 19900206
 Completed: 19900322

CERCLIS-NFRAP Alias Name(s):
 AVANTI

M50
 WNW
 1/4-1/2
 2198
 Higher

CENTRAL TRANSPORT
 1040 SAMPLE ST.
 SOUTH BEND, IN 46619

UST 1000753390
 N/A

UST:

Facility ID: 2108
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 07/23/99
 Owner Id: 1020
 Company Id: 1020
 Company Name: Crown Enterprises

Facility ID: 2108
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 07/23/99
 Owner Id: 1020
 Company Id: 1020
 Company Name: Crown Enterprises

Facility ID: 2108
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 07/23/99
 Owner Id: 1020
 Company Id: 1020
 Company Name: Crown Enterprises

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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M51 WNW 1/4-1/2 2198 Higher	CENTRAL TRANSPORT 1040 SAMPLE SOUTH BEND, IN 46619	FINDS	1002902268 IND984984633
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

M52 WNW 1/4-1/2 2218 Higher	SOUTH BEND CITY OF DIV OF EQUIP SVC 1045 W SAMPLE ST SOUTH BEND, IN 46619	FINDS	1002906932 IND985059872
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

N53 East 1/4-1/2 2223 Higher	S MICHIGAN U HAUL CENTER VACANT 1120 S MICHIGAN SOUTH BEND, IN 46601	FINDS	1002827320 000009653298
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

N54 East 1/4-1/2 2223 Higher	S MICHIGAN U HAUL CENTER VACANT 1120 S MICHIGAN SOUTH BEND, IN 46601	UST LUST	U003093739 N/A
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LUST:
 Facility ID: 6868
 Owner Name: S Michigan U Haul Center Vacant
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:
 Facility ID: 6868
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 09/26/89
 Owner Id: 10173
 Company Id: 10173
 Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 09/26/89
 Owner Id: 10173

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

S MICHIGAN U HAUL CENTER VACANT (Continued)

U003093739

Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/26/89
Owner Id: 10173
Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 05/23/96
Owner Id: 10173
Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 05/23/96
Owner Id: 10173
Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
Tank Number: 6
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/26/89
Owner Id: 10173
Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
Tank Number: 7
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 09/26/89
Owner Id: 10173
Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
Tank Number: 8
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 05/23/96
Owner Id: 10173
Company Id: 10173
Company Name: City Of South Bend - Econ Devmt

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

S MICHIGAN U HAUL CENTER VACANT (Continued)

U003093739

Facility ID: 6868
 Tank Number: 10
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 05/23/96
 Owner Id: 10173
 Company Id: 10173
 Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
 Tank Number: 11
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 05/23/96
 Owner Id: 10173
 Company Id: 10173
 Company Name: City Of South Bend - Econ Devmt

Facility ID: 6868
 Tank Number: 9
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: 05/23/96
 Owner Id: 10173
 Company Id: 10173
 Company Name: City Of South Bend - Econ Devmt

O55
 SSE
 1/4-1/2
 2275
 Higher

ALCON BUILDING PRODUCTS
1702 S FRANKLIN ST
SOUTH BEND, IN 46613

FINDS

1002892759
IN0002173771

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

O56
 SSE
 1/4-1/2
 2275
 Higher

ALCON BUILDING PRODUCTS
1702 S FRANKLIN ST
SOUTH BEND, IN 46613

LUST
UST

1001297409
N/A

LUST:
 Facility ID: 19747
 Owner Name: Alcon Building Products
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:
 Facility ID: 19747
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19800101
 Closure Date: 11/08/95
 Owner Id: 11779

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ALCON BUILDING PRODUCTS (Continued)

1001297409

Company Id: 11779
Company Name: Norwest Banks

Facility ID: 19747
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19800101
Closure Date: 11/06/95
Owner Id: 11779
Company Id: 11779
Company Name: Norwest Banks

Facility ID: 19747
Tank Number: 3
Tank Status: UNREGULATED
Install Date: Not reported
Closure Date: 11/08/95
Owner Id: 11779
Company Id: 11779
Company Name: Norwest Banks

P57
SE
1/4-1/2
2299
Higher

RIDGE CO INC THE
1535 S MAIN
SOUTH BEND, IN 46680

FINDS 1000463407
RCRIS-LQG IND005441167

RCRIS:
Owner: RIDGE CO INC THE
(312) 555-1212
Contact: HOWARD GOODHEW
(219) 234-3143
Record Date: 11/04/1986
Classification: Large Quantity Generator
Used Oil Recyc: No
Violation Status: Violations exist
Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 01/29/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

There are 1 violation record(s) reported at this site:

Evaluation
Compliance Evaluation Inspection (CEI)

Area of Violation
Generator-All Requirements

Date of
Compliance

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		Database(s)	EDR ID Number EPA ID Number
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RIDGE CO INC THE (Continued)

1000463407

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

P58
SE
1/4-1/2
2314
Higher

THE RIDGE COMPANY
1535 S MAIN ST
SOUTH BEND, IN 46680

UST

U001079925
N/A

UST:

Facility ID: 8318
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6827
 Company Id: 6827
 Company Name: The Ridge Company

P59
SE
1/4-1/2
2318
Higher

O'BRIAN SUNACO
1536 S MAIN ST
SOUTH BEND, IN 46624

UST

U001081996
N/A

UST:

Facility ID: 15424
 Tank Number: 5
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19590101
 Closure Date: 10/14/97
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15424
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19590101
 Closure Date: 10/14/97
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15424
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19740101
 Closure Date: 10/14/97
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15424
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19640101

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

O'BRIAN SUNACO (Continued)

U001081996

Closure Date: 10/14/97
Owner Id: 6044
Company Id: 6044
Company Name: Gafill Projects Inc

Facility ID: 15424
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19640101
Closure Date: 10/14/97
Owner Id: 6044
Company Id: 6044
Company Name: Gafill Projects Inc

**P60
SE
1/4-1/2
2318
Higher**

**SUNOCO SERVICE STATION
1536 S MAIN ST
SOUTH BEND, IN 46601**

**RCRIS-SQG 1000330640
FINDS IND000713990**

RCRIS:
Owner: SUNCO SERVICE STATION
(312) 555-1212
Contact: KARL BECKERS
(314) 878-4810
Record Date: 08/18/1980
Classification: Not reported
Used Oil Recyc: No
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
State Systems

**61
ESE
1/4-1/2
2333
Higher**

**BARTHOLOMEWS INC
1331 S MICHIGAN ST
SOUTH BEND, IN 46601**

**RCRIS-SQG 1000514222
FINDS IND984942268**

RCRIS:
Owner: ADAMS SR ROBERT
(219) 272-7440
Contact: BARRY ADAMS
(219) 289-5509
Record Date: 01/31/1992
Classification: Small Quantity Generator

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation .Site

Database(s) EDR ID Number
 EPA ID Number

BARTHOLOMEWS INC (Continued)

1000514222

Used Oil Recyc: No
 Violation Status: No violations found

**Q62
 NNE
 1/4-1/2
 2349
 Higher**

**ABN MOTOR CORP
 765 S LAFAYETTE BLVD
 SOUTH BEND, IN 46618**

**RCRIS-SQG 1000124652
 IND001756881**

RCRIS:
 Owner: NAME NOT REPORTED
 (312) 555-1212
 Contact: JEFF NEWMAN
 (219) 287-3381
 Record Date: 10/14/1983
 Classification: Not reported
 Used Oil Recyc: No
 Violation Status: No violations found

**Q63
 NNE
 1/4-1/2
 2349
 Higher**

**N A B BUILDING CO
 765 S LAFAYETTE ST
 SOUTH BEND, IN 46618**

**RCRIS-SQG 1000103564
 FINDS IND982646994**

RCRIS:
 Owner: NEWMAN LEE
 (312) 555-1212
 Contact: FREDERICK BAER
 (219) 234-1001
 Record Date: 08/19/1988
 Classification: Not reported
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

**Q64
 NNE
 1/4-1/2
 2349
 Higher**

**ABN MOTOR CORP
 765 S LAFAYETTE
 SOUTH BEND, IN 46618**

**RCRIS-SQG 1000124653
 IND980903256**

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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UNITED PARCEL SERVICE (UPS) (Continued)

U000747159

Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 8582
 Company Id: 8582
 Company Name: United Parcel Service

R66
 North
 1/4-1/2
 2422
 Higher

**607 S SCOTT
 SOUTH BEND, IN**

HMIRS

**96071272
 N/A**

S67
 ENE
 1/4-1/2
 2443
 Higher

**MICHIANA TRANSMISSION
 902 S MICHIGAN
 SOUTH BEND, IN 46618**

**RCRIS-SQG
 FINDS**

**1001077109
 INR000003434**

RCRIS:

Owner: WOOLLEY ENTERPRISES INC
 (219) 282-2806

 Contact: CURT WOOLLEY
 (219) 282-2806

 Record Date: 09/25/1995

 Classification: Small Quantity Generator

 Used Oil Recyc: No

 Violation Status: No violations found

R68
 North
 1/4-1/2
 2459
 Higher

**604 S SCOTT RD
 SOUTH BEND, IN 46601**

IN Spills

**S103798870
 N/A**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103798870

SPILL:

Facility ID:	199302077	Release Date:	02/09/1993
Incident Date:	02/08/1993		
Spill Type:	INDUSTRIAL		
Contained:	Yes		
Water Affected:	None	Area Affected:	5 Sq Ft
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	.20	Units:	Gallons
Recovered Amnt:	.20	Units:	Gallons
Material:	Fuel Blend Ot F-000 Waste		
Cleanup Duration:	1 3/4 Hrs		
Public Intake:	Not reported		

R69
 North
 1/4-1/2
 2459
 Higher

604 SCOTT ST, ENV SVC OF AMER
 SOUTH BEND, IN 46601

IN Spills

S103363956
 N/A

SPILL:

Facility ID:	199703131	Release Date:	03/25/1997
Incident Date:	03/25/1997		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	@ None-Minor Fire Vapor @	Area Affected:	Atmosphere
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	0	Units:	Unknown Units
Recovered Amnt:	Not reported	Units:	Unknown Units
Material:	Xylene, Toluene		
Cleanup Duration:	None-Vapor		
Public Intake:	Not reported		

Facility ID:	199703131	Release Date:	03/25/1997
Incident Date:	03/25/1997		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	@ None-Minor Fire Vapor @	Area Affected:	Atmosphere
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	0	Units:	Unknown Units
Recovered Amnt:	Not reported	Units:	Unknown Units
Material:	Ammonia Based Solvent		
Cleanup Duration:	Not reported		
Public Intake:	Not reported		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103363956

Facility ID: 199703131
 Incident Date: 03/25/1997 Release Date: 03/25/1997
 Spill Type: TRANS - TRUCK
 Contained: Yes
 Water Affected: @ None-Minor Fire Vapor @ Area Affected: Atmosphere
 Fish Killed: 0 Wtr Supply Affctd: No
 Enforcement: NONE
 Spilled Amount: 0 Units: Unknown Units
 Recovered Amnt: Not reported Units: Unknown Units
 Material: Polypropalene Filters
 Cleanup Duration: Not reported
 Public Intake: Not reported

R70
 North
 1/4-1/2
 2459
 Higher

604 S SSCOTT ST
 SOUTH BEND, IN 46001

IN Spills

S103797879
 N/A

SPILL:

Facility ID: 199203113
 Incident Date: 03/19/1992 Release Date: 03/19/1992
 Spill Type: INDUSTRIAL
 Contained: Yes
 Water Affected: None Area Affected: Air
 Fish Killed: 0 Wtr Supply Affctd: No
 Enforcement: NONE
 Spilled Amount: 2.00 Units: Gallons
 Recovered Amnt: 0 Units: Gallons
 Material: Ethyl Mercaptan
 Cleanup Duration: 1/2 Day
 Public Intake: Not reported

R71
 North
 1/4-1/2
 2459
 Higher

604 S SCOTT
 SOUTH BEND, IN 46601

IN Spills

S103798145
 N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S103798145

SPILL:

Facility ID:	199206090	Release Date:	06/16/1992
Incident Date:	06/16/1992		
Spill Type:	COMMERCIAL		
Contained:	No		
Water Affected:	None	Area Affected:	Air
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	1.	Units:	Pounds
Recovered Amnt:	0	Units:	Pounds
Material:	Mercaptan		
Cleanup Duration:	Evaporated		
Public Intake:	Not reported		

R72
 North
 1/4-1/2
 2459
 Higher

CHEMSOLV INC
 604 S SCOTT ST
 SOUTH BEND, IN 46626

RCRIS-SQG 1000303345
 FINDS INT190011734

RCRIS:

Owner: NAME NOT REPORTED
 (312) 555-1212

Contact: ENVIRONMENTAL COORDINATOR
 (312) 555-1212

Record Date: 11/03/1980

Classification: Not reported

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 State Systems

R73
 North
 1/4-1/2
 2459
 Higher

604 S SCOTT ST-TIPPER CAUSTIC
 SOUTH BEND, IN 46601

IN Spills S103019463
 N/A

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Distance (ft.)			
Elevation	Site	Database(s)	

(Continued)

S103019463

SPILL:

Facility ID:	199506090	Release Date:	06/12/1995
Incident Date:	06/12/1995		
Spill Type:	INDUSTRIAL		
Contained:	No		
Water Affected:	None	Area Affected:	Air
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	REFERRED TO OTHER AREA		
Spilled Amount:	0	Units:	Unknown Units
Recovered Amnt:	0	Units:	Unknown Units
Material:	Odor Form Xylene&Toluene		
Cleanup Duration:	3 Hours		
Public Intake:	Not reported		

R74 North 1/4-1/2 2459 Higher	604 S SCOTT ST SOUTH BEND, IN	HMIRS	96080124 N/A
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R75 North 1/4-1/2 2459 Higher	604 SOUTH SCOTT STREET SOUTH BEND, IN	HMIRS	96071380 N/A
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R76 North 1/4-1/2 2459 Higher	604 S SCOTT ST SOUTH BEND, IN 46601	IN Spills	S103905782 N/A
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SPILL:

Facility ID:	199906145	Release Date:	06/17/1999
Incident Date:	06/16/1999		
Spill Type:	TRANS - PIPELINE		
Contained:	No		
Water Affected:	Nrc#487744	Area Affected:	Not reported
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	Not reported		
Spilled Amount:	0	Units:	Unknown Units
Recovered Amnt:	Not reported	Units:	Unknown Units
Material:	Waste Oil		
Cleanup Duration:	Not reported		
Public Intake:	Not reported		

R77 North 1/4-1/2 2459 Higher	604 S SCOTT ST 604 S SCOTT ST SOUTH BEND, IN 46601	ERNS	93304187 N/A
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

R78
 North
 1/4-1/2
 2459
 Higher

INDUSTRIAL FUELS & RESOURCES CHEM SOLV
 604 SOUTH SCOTT STREET
 SOUTH BEND, IN 46626

RCRIS-LQG 1000703852
 RCRIS-TSD IND980590947
 RAATS
 CORRACTS
 CERC-NFRAP

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Ownership Status: Unknown

Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: PRELIMINARY ASSESSMENT

Completed: 19880115
 Completed: 19881230

CORRACTS Data:

Prioritization: Medium
 Status: RCRA Facility Assessment Completed

RCRIS:

Owner: MEI-IN
 (219) 234-0441
 Contact: JAMES KUIPERS
 (219) 234-0441

Record Date: 09/06/1994

Classification: Large Quantity Generator, TSDF

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	12465812.11	D002	1713705.99
D003	30370.00	D004	286264.77
D005	11946831.73	D006	11930682.58
D007	10954037.75	D008	563694.13
D009	290.00	D011	4455.15
D014	45541.55	D018	49886.70
D026	1485.05	D035	232731.00
D037	55060.87	D039	71976.80
D040	8800.30	F001	102749.00
F002	165925.50	F003	232731.00
F005	232731.00	F032	55060.87
U223	3713.00		

Used Oil Recyc: No

TSDF Activities: burning and/or blending of hazardous waste, marketing to burners of hazardous waste fuel activities, hazardous waste fuel marketing activities, other than generator marketing to a burner, accepts waste from off-site

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 09/26/1991
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 11/18/1992
 Enforcement Action: Initial Formal 3008(a) Compliance Order
 Enforcement Action Date: 09/26/1991
 Proposed Monetary Penalty: \$ 22,800.00
 Final Monetary Penalty: Not reported
 Regulation Violated: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	02/10/1994
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/12/1994
Actual Date Achieved Compliance:	02/28/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	02/10/1994
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	11/30/1987
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	01/12/1988
Actual Date Achieved Compliance:	04/12/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	12/15/1987
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	01/26/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/01/1988
Actual Date Achieved Compliance:	04/12/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	01/28/1988
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	03/31/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/10/1989
Actual Date Achieved Compliance:	03/28/1989
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	03/31/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/10/1989
Actual Date Achieved Compliance:	03/28/1989
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	09/29/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/10/1989
Actual Date Achieved Compliance:	03/28/1989
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/29/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/10/1989
Actual Date Achieved Compliance:	03/28/1989

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	01/03/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	04/15/1989
Actual Date Achieved Compliance:	05/30/1989
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	01/03/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	04/15/1989
Actual Date Achieved Compliance:	05/30/1989
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	09/28/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	02/03/1990
Actual Date Achieved Compliance:	02/28/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/28/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	02/03/1990
Actual Date Achieved Compliance:	02/28/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/30/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/02/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	01/04/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	07/24/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/02/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	01/04/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	09/28/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/02/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	01/04/1991
Proposed Monetary Penalty:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	01/31/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/17/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	05/02/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/27/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/17/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	05/02/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	05/24/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/17/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	05/02/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/24/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/05/1992
Enforcement Action:	Written Informal
Enforcement Action Date:	11/12/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	01/31/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/17/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	05/02/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Area of Violation: TSD-Other Requirements
Date Violation Determined: 01/31/1991
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 02/17/1994

Enforcement Action: Written Informal
Enforcement Action Date: 05/02/1991
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/20/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 01/14/1993

Enforcement Action: Written Informal
Enforcement Action Date: 06/16/1992
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/20/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 01/14/1993

Enforcement Action: Written Informal
Enforcement Action Date: 06/16/1992
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 08/14/1991
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 05/12/1992

Enforcement Action: Written Informal
Enforcement Action Date: 03/16/1992
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/13/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/05/1995

Enforcement Action: Written Informal
Enforcement Action Date: 04/30/1993
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 04/05/1995

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 04/30/1993
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/13/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/05/1995

Enforcement Action: Written Informal
Enforcement Action Date: 04/30/1993
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/13/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/05/1995

Enforcement Action: Written Informal
Enforcement Action Date: 04/30/1993
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 05/18/1987
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 11/16/1990

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/13/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/05/1995

Enforcement Action: Written Informal
Enforcement Action Date: 04/30/1993
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/13/1992
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/05/1995

Enforcement Action: Written Informal
Enforcement Action Date: 04/30/1993
Proposed Monetary Penalty: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/13/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/13/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/13/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/13/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	02/03/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Area of Violation:	Generator-All Requirements
Date Violation Determined:	02/03/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	02/03/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	02/03/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	02/03/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/05/1995
Enforcement Action:	Written Informal
Enforcement Action Date:	04/30/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/17/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	03/15/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/1994
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	12/17/1993

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 03/15/1994

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 12/17/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 03/15/1994

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 02/04/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/08/1994

Enforcement Action: Written Informal
Enforcement Action Date: 03/01/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/04/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 04/08/1994

Enforcement Action: Written Informal
Enforcement Action Date: 03/01/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 07/28/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/09/1994

Enforcement Action: Written Informal
Enforcement Action Date: 01/11/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 07/28/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA.ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Actual Date Achieved Compliance: 08/09/1994
Enforcement Action: Written Informal
Enforcement Action Date: 01/11/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 07/28/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/09/1994
Enforcement Action: Written Informal
Enforcement Action Date: 01/11/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 07/28/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/09/1994
Enforcement Action: Written Informal
Enforcement Action Date: 01/11/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 07/28/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/09/1994
Enforcement Action: Written Informal
Enforcement Action Date: 01/11/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Land Ban Requirements
Date Violation Determined: 07/28/1993
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/09/1994
Enforcement Action: Written Informal
Enforcement Action Date: 01/11/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 06/30/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/29/1994
Regulation Violated: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Area of Violation: TSD-Other Requirements
Date Violation Determined: 06/30/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/29/1994
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/29/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 03/10/1995
Enforcement Action: Written Informal
Enforcement Action Date: 12/02/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 12/01/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 03/10/1995
Enforcement Action: Written Informal
Enforcement Action Date: 12/02/1994
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/16/1995
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 06/12/1995
Enforcement Action: Written Informal
Enforcement Action Date: 03/27/1995
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/16/1995
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 06/12/1995
Enforcement Action: Written Informal
Enforcement Action Date: 03/27/1995
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/17/1995
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 12/21/1995
Regulation Violated: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Area of Violation: TSD-Other Requirements
Date Violation Determined: 12/15/1995
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 12/15/1995
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 12/15/1995
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 03/27/1996
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 05/06/1996
Enforcement Action: Written Informal
Enforcement Action Date: 05/06/1996
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 06/18/1996
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 07/03/1996
Enforcement Action: Written Informal
Enforcement Action Date: 07/03/1996
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/06/1996
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 08/29/1996
Enforcement Action: Written Informal
Enforcement Action Date: 08/29/1996
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported
Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 02/19/1997
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

Database(s)
EDR ID Number
EPA ID Number

1000703852

Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	05/07/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	08/20/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	08/20/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/20/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	08/20/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/20/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	08/20/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	12/29/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/26/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	01/16/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	12/29/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/26/1998

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Enforcement Action:	Written Informal
Enforcement Action Date:	01/16/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/29/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/26/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	01/16/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/29/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/26/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	01/16/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/25/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/29/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	05/11/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/25/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/29/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	05/11/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/25/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/29/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	05/11/1998

Map ID
Direction
Distance
Distance (ft.)
Elevation Site:

MAP FINDINGS

Database(s) .EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/25/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/29/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	05/11/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/25/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/29/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	05/11/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	03/25/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/29/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	05/11/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/30/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	12/04/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/30/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	12/04/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/30/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	12/04/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/30/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1998
Enforcement Action:	Written Informal
Enforcement Action Date:	12/04/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/11/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/11/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/11/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/11/1998
Priority of Violation:	Low

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 12/22/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/11/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 12/22/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/11/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 12/22/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/11/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 12/22/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/11/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 12/22/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/11/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/11/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/08/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/29/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/14/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/14/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	12/14/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/14/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/14/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	12/14/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/23/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/23/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/23/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/23/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/23/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	03/23/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/01/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Date Violation Determined: 03/23/1999
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/2000
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 03/23/1999
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/2000
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 03/23/1999
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/2000
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 03/23/1999
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/2000
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Land Ban Requirements
Date Violation Determined: 03/23/1999
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
Enforcement Action Date: 02/01/2000
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Land Ban Requirements
Date Violation Determined: 03/23/1999
Priority of Violation: Low

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
 Enforcement Action Date: 02/01/2000
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 05/11/1999
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: Not reported

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 09/09/1999
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: Not reported

MAP FINDINGS

Map ID.
Direction
Distance
Distance (ft.)
Elevation Site

Database(s)
EDR ID Number
EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

There are 131 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Land Ban Requirements	
	TSD-Other Requirements	
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	
A Significant Non-Complier (SNC)	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Land Ban Requirements	
	TSD-Land Ban Requirements	
	TSD-Other Requirements	
Case Development Inspection (CDI)	TSD-Other Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Land Ban Requirements	
	TSD-Land Ban Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Land Ban Requirements	
A Significant Non-Complier (SNC)	Generator-All Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Land Ban Requirements	
	TSD-Other Requirements	
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	Generator-All Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
	TSD-Land Ban Requirements	
	TSD-Other Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	07/29/1998
	Generator-All Requirements	07/29/1998
	Generator-All Requirements	07/29/1998
	Generator-All Requirements	07/29/1998
	TSD-Other Requirements	07/29/1998
	TSD-Land Ban Requirements	07/29/1998
Compliance Evaluation Inspection (CEI)	TSD-Financial Responsibility Requirements	02/26/1998
	TSD-Financial Responsibility Requirements	02/26/1998
	Generator-All Requirements	02/26/1998
	Generator-All Requirements	02/26/1998
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	04/30/1998
	Generator-All Requirements	04/30/1998
	Generator-All Requirements	04/30/1998
	TSD-Land Ban Requirements	04/30/1998
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	04/30/1998

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

	Generator-All Requirements	04/30/1998
	Generator-All Requirements	04/30/1998
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	
Other Evaluation	Generator-All Requirements	
Other Evaluation	TSD-Other Requirements	08/29/1996
Other Evaluation	TSD-Other Requirements	07/03/1996
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	05/06/1996
Other Evaluation	TSD-Other Requirements	
	TSD-Other Requirements	
Other Evaluation	TSD-Other Requirements	12/21/1995
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	06/12/1995
	TSD-Other Requirements	06/12/1995
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	06/12/1995
	TSD-Other Requirements	06/12/1995
Other Evaluation	TSD-Other Requirements	03/10/1995
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	03/10/1995
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	08/29/1994
	TSD-Other Requirements	08/29/1994
Other Evaluation	TSD-Other Requirements	03/10/1995
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	08/29/1994
	TSD-Other Requirements	08/29/1994
Other Evaluation	TSD-Other Requirements	08/29/1994
	TSD-Other Requirements	08/29/1994
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	04/08/1994
	TSD-Other Requirements	04/08/1994
Other Evaluation	Generator-All Requirements	03/15/1994
	TSD-Other Requirements	03/15/1994
	TSD-Other Requirements	03/15/1994
Compliance Evaluation Inspection (CEI)	Generator-Land Ban Requirements	02/28/1994
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	08/09/1994
	TSD-Other Requirements	08/09/1994
	TSD-Other Requirements	08/09/1994
	TSD-Other Requirements	08/09/1994
	TSD-Other Requirements	08/09/1994
	TSD-Land Ban Requirements	08/09/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	04/05/1995
	Generator-All Requirements	04/05/1995
	TSD-Land Ban Requirements	04/05/1995
	Generator-All Requirements	04/05/1995
	Generator-All Requirements	04/05/1995
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	04/05/1995
	TSD-Other Requirements	04/05/1995
	TSD-Other Requirements	04/05/1995
	TSD-Other Requirements	04/05/1995
	TSD-Other Requirements	04/05/1995
	Generator-All Requirements	04/05/1995
	TSD-Other Requirements	04/05/1995
	TSD-Other Requirements	04/05/1995
	Generator-All Requirements	04/05/1995
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	01/14/1993
	TSD-Other Requirements	01/14/1993

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site		Database(s)	EDR ID Number EPA ID Number
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INDUSTRIAL FUELS & RESOURCES CHEM SOLV (Continued)

1000703852

Non-Financial Record Review	Generator-All Requirements	11/18/1992
Other Evaluation	Generator-All Requirements	02/05/1992
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	05/12/1992
Other Evaluation	TSD-Other Requirements	02/17/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	02/17/1994
	TSD-Other Requirements	02/17/1994
	Generator-All Requirements	02/17/1994
	TSD-Other Requirements	02/17/1994
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	05/02/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	05/02/1994
Non-Financial Record Review	TSD-Other Requirements	02/17/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	05/02/1994
Other Evaluation	Generator-Land Ban Requirements	02/28/1990
	TSD-Land Ban Requirements	02/28/1990
Land Disposal Restriction Requirements Inspection	Generator-Land Ban Requirements	05/30/1989
	TSD-Land Ban Requirements	05/30/1989
Other Evaluation	Generator-Land Ban Requirements	03/28/1989
	TSD-Land Ban Requirements	03/28/1989
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	11/16/1990
Other Evaluation	Generator-Land Ban Requirements	03/28/1989
	TSD-Land Ban Requirements	03/28/1989
Compliance Schedule Evaluation (CSE)	TSD-Financial Responsibility Requirements	04/12/1988
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	04/12/1988

NY MANIFEST

Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

79 ESE 1/4-1/2 2461 Higher	104 EAST BROADWAY 104 EAST BROADWAY SOUTH BEND, IN	ERNS	90170596 N/A
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S80 ENE 1/4-1/2 2487 Higher	ENYART ELECTRIC MTR SERVICE 122 E SAMPLE ST SOUTH BEND, IN 46601	RCRIS-SQG FINDS UST	1000156229 IND064717655
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RCRIS:

Owner: HOLM RICHARD C
 (312) 555-1212

Contact: RICHARD HOLM
 (219) 288-4731

Record Date: 01/02/1990

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		Database(s) EDR ID Number EPA ID Number
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ENYART ELECTRIC MTR SERVICE (Continued) 1000156229

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

UST:
 Facility ID: 16719
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 9193
 Company Id: 9193
 Company Name: Enyart Electric Motor Service

81 SE 1/4-1/2 2498 Higher	EXHIBITECH INC 1607 S MAIN ST SOUTH BEND, IN 46613	FINDS	1002891368 IN0000082784
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 State Systems

T82 WNW 1/4-1/2 2510 Higher	SOUTH BEND SCRAP & PROCESSING 1120 W SAMPLE SOUTH BEND, IN 46680	UST	1000510626 N/A
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UST:
 Facility ID: 5530
 Tank Number: 1
 Tank Status: CURRENTLY IN USE
 Install Date: 19890829
 Closure Date: Not reported
 Owner Id: 1062
 Company Id: 1062
 Company Name: Sturgis Iron & Metal Company Inc

Facility ID: 5530
 Tank Number: 2
 Tank Status: CURRENTLY IN USE
 Install Date: 19890829
 Closure Date: Not reported
 Owner Id: 1062
 Company Id: 1062
 Company Name: Sturgis Iron & Metal Company Inc

U83 North 1/4-1/2 2514 Higher	CONSOLIDATED RAIL 628 W SOUTH ST SOUTH BEND, IN 46625	RCRIS-SQG FINDS	1000825697 IND985059864
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MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
V86 NE 1/4-1/2 2590 Higher	SHOUP BUSES INC 716 S MAIN ST SOUTH BEND, IN 46601	FINDS	1002891651 IN0000359596

FINDS:
Other Pertinent Environmental Activity Identified at Site:
State Systems

U87 North 1/4-1/2 2603 Higher	UNITED CAR PARTS 600 W PRAIRIE SOUTH BEND, IN 46621	RCRIS-SQG FINDS	1000510015 IND984896241
---	---	--------------------	----------------------------

RCRIS:
Owner: AUTO WARES
Contact: DAN BOND
(800) 255-7155
Record Date: 05/08/1990
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

V88 NE 1/4-1/2 2625 Higher	PETER J NEMETH 711 S MAIN ST SOUTH BEND, IN 46618	UST	U001080951 N/A
--	---	-----	-------------------

UST:
Facility ID: 12487
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19810101
Closure Date: 06/09/98
Owner Id: 6553
Company Id: 6553
Company Name: Peter J Nemeth

T89 WNW 1/2-1 2699 Higher	RITSCHARD BROS INC 1204 W SAMPLE ST SOUTH BEND, IN 46619	UST	1000825825 N/A
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UST:
Facility ID: 12042
Tank Number: 8
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID-Number
EPA ID Number

RITSCHARD BROS INC (Continued)

1000825825

Facility ID: 12042
Tank Number: 7
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Facility ID: 12042
Tank Number: 6
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Facility ID: 12042
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Facility ID: 12042
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Facility ID: 12042
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Facility ID: 12042
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6651
Company Id: 6651
Company Name: Ritschard Bros Inc

Facility ID: 12042
Tank Number: 1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

RITSCHARD BROS INC (Continued)

1000825825

Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6651
 Company Id: 6651
 Company Name: Ritschard Bros Inc

90
 NNE
 1/2-1
 2707
 Higher

SILO MFG CO INC
 405 W SOUTH ST
 NORTH LIBERTY, IN 46554

UST

U000193079
 N/A

UST:
 Facility ID: 13494
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 03/01/90
 Owner Id: 6734
 Company Id: 6734
 Company Name: Silo Mfg Co Inc

91
 NNW
 1/2-1
 2721
 Higher

WHITE FARM EQUIP DIVI OF ALLI PR
 701 S CHAPIN
 SOUTH BEND, IN 46621

UST

U003093779
 N/A

UST:
 Facility ID: 7295
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6950
 Company Id: 6950
 Company Name: Allied Products Corporation

92
 NE
 1/2-1
 2962
 Higher

SOUTH BEND COMMUNITY SCHOOLS
 635 S MAIN ST
 SOUTH BEND, IN 46601

RCRIS-SQG
 FINDS

1000404931
 IND074307216

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

IMAGINEERING ENTERPRISES INC (Continued)

1000235412

RCRIS:

Owner: F JAMES HAMMER PRES/CEO
(219) 287-2941

Contact: DAVID HUBER
(219) 287-2941

Record Date: 09/02/1997

Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	6773.00	D002	7736274.01
D007	7735742.01	F001	19971.00
F002	6456.00	F003	7219.00
F005	6773.00	F019	7747311.01

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 09/28/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 09/28/1998
Enforcement Action: Written Informal
Enforcement Action Date: 09/28/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 09/28/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 09/28/1998
Enforcement Action: Written Informal
Enforcement Action Date: 09/28/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 09/28/1998
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 09/28/1998
Enforcement Action: Written Informal
Enforcement Action Date: 09/28/1998
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: Generator-All Requirements
Date Violation Determined: 09/28/1998
Priority of Violation: Low

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

IMAGINEERING ENTERPRISES INC (Continued)

1000235412

Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 09/28/1998
 Enforcement Action: Written Informal
 Enforcement Action Date: 09/28/1998
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

There are 4 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	09/28/1998
	Generator-All Requirements	09/28/1998
	Generator-All Requirements	09/28/1998
	Generator-All Requirements	09/28/1998

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 State Systems

SPILL:

Facility ID: 198808108	Release Date: 08/30/1988
Incident Date: 08/30/1988	
Spill Type: INDUSTRIAL	
Contained: No	Area Affected: Unknown
Water Affected: None	Wtr Supply Affctd: No
Fish Killed: 0	
Enforcement: NONE	Units: Unknown Units
Spilled Amount: 0	Units: Unknown Units
Recovered Amnt: 0	
Material: Nitric Acid Fumes	
Cleanup Duration: 1/2 Day	
Public Intake: Not reported	

Facility ID: 199403018	Release Date: 03/02/1994
Incident Date: 03/02/1994	
Spill Type: INDUSTRIAL	
Contained: No	Area Affected: 100 Sq Ft
Water Affected: None	Wtr Supply Affctd: No
Fish Killed: 0	
Enforcement: NONE	Units: Gallons
Spilled Amount: 1.00	Units: Gallons
Recovered Amnt: 0	
Material: 15% Nitric Acid	
Cleanup Duration: None	
Public Intake: Not reported	

X95
 SW
 1/2-1
 3027
 Higher

GP AUTO SALES
 1643 PRAIRIE AVE
 SOUTH BEND, IN 0

UST

U003578814
 N/A

UST:

Facility ID: 21221
 Tank Number: 0
 Tank Status: Not reported
 Install Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

GP AUTO SALES (Continued)

U003578814

Closure Date: Not reported
Owner Id: 12000
Company Id: 12000
Company Name: Disputed Ownership

X96
SW
1/2-1
3027
Higher

GARAGE
1643 PRAIRIE AVE
SOUTH BEND, IN 46619

UST

U003578075
N/A

UST:

Facility ID: 16225
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9452
Company Id: 9452
Company Name: Donald Fox

Facility ID: 16225
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9452
Company Id: 9452
Company Name: Donald Fox

Facility ID: 16225
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9452
Company Id: 9452
Company Name: Donald Fox

97
ENE
1/2-1
3055
Higher

AL MEUSTRUP
219 E TUTT ST
SOUTH BEND, IN 46618

UST

U001321985
N/A

UST:

Facility ID: 1366
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5660
Company Id: 5660
Company Name: A V Meustrup / Ace Ref Trucking

Facility ID: 1366
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

AL MEUSTRUP (Continued)

U001321985

Install Date: Not reported
Closure Date: Not reported
Owner Id: 5660
Company Id: 5660
Company Name: A V Meustrup / Ace Ref Trucking

Facility ID: 1366
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5660
Company Id: 5660
Company Name: A V Meustrup / Ace Ref Trucking

Facility ID: 1366
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5660
Company Id: 5660
Company Name: A V Meustrup / Ace Ref Trucking

Y98
ENE
1/2-1
3148
Higher

ZIKER CLEANERS INC
247-251 E SAMPLE
SOUTH BEND, IN 46618

UST
LUST

U000188982
N/A

LUST:

Facility ID: 7447
Owner Name: Ziker Cleaners Inc
Priority: Low
Affected Area: Soil
Description: Active

UST:

Facility ID: 7447
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 11/06/98
Owner Id: 6994
Company Id: 6994
Company Name: Ziker Cleaners Inc

Facility ID: 7447
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 11/06/98
Owner Id: 6994
Company Id: 6994
Company Name: Ziker Cleaners Inc

Facility ID: 7447
Tank Number: 3

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

ZIKER CLEANERS INC (Continued)

U000188982

Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 11/09/98
Owner Id: 6994
Company Id: 6994
Company Name: Ziker Cleaners Inc

Facility ID: 7447
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 11/09/98
Owner Id: 6994
Company Id: 6994
Company Name: Ziker Cleaners Inc

Facility ID: 7447
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 11/06/98
Owner Id: 6994
Company Id: 6994
Company Name: Ziker Cleaners Inc

Facility ID: 7447
Tank Number: 6
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 11/09/98
Owner Id: 6994
Company Id: 6994
Company Name: Ziker Cleaners Inc

Y99
ENE
1/2-1
3169
Higher

MAACO AUTO PAINTING
250 E SAMPLE ST
SOUTH BEND, IN 46601

RCRIS-SQG 1001201965
FINDS INR000011684

RCRIS:
Owner: DAGAO INC/DBA MAACO AUTO PAINTING
(219) 234-1925
Contact: BILL GROOME
(219) 234-1925
Record Date: 06/23/1997
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

MAP FINDINGS

Map ID							
Direction							
Distance							
Distance (ft.)							EDR ID Number
Elevation	Site				Database(s)		EPA ID Number

MAACO AUTO PAINTING (Continued)

1001201965

FINDS:

Other Pertinent Environmental Activity Identified at Site:
State Systems

**Y100
ENE
1/2-1
3169
Higher**

**ZIKER CLEANERS INC
251 E SAMPLE ST
SOUTH BEND, IN 46601**

**RCRIS-SQG 1000979192
FINDS IN0000936740**

RCRIS:

Owner: MORTON ZIKER
(219) 287-2887

Contact: JOHN MERTES
(219) 287-2887

Record Date: 11/16/1994

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

**101
NNW
1/2-1
3201
Higher**

**G W BERKHEIMER CO INC
612 CHAPIN ST
SOUTH BEND, IN 46621**

**UST 1000758290
N/A**

UST:

Facility ID: 13677

Tank Number: 1

Tank Status: PERMANENTLY OUT OF SERVICE

Install Date: Not reported

Closure Date: Not reported

Owner Id: 4087

Company Id: 4087

Company Name: G W Berkheimer Co Inc

**102
SE
1/2-1
3238
Higher**

**FRANK'S WHOLESALE FLORIST
1812 S MAIN ST
SOUTH BEND, IN 46601**

**UST U003711880
N/A**

UST:

Facility ID: 24264

Tank Number: 1

Tank Status: PERMANENTLY OUT OF SERVICE

Install Date: 19650101

Closure Date: 01/06/00

Owner Id: 18776

Company Id: 18776

Company Name: Jim Frank

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
--	------	-------------	--------------------------------

Z103 WNW 1/2-1 3277 Higher	FIBER TECH INC 1344 W SAMPLE ST SOUTH BEND, IN 46619	RCRIS-SQG FINDS	1000212138 IND980823843
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RCRIS:

Owner: MOODY MURRAY F & MOODY ESTHER
(312) 555-1212

Contact: MURRAY MOODY
(219) 232-8559

Record Date: 07/06/1983

Classification: Not reported

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 National Compliance Database (NCDB)
 State Systems

Z104 WNW 1/2-1 3277 Higher	LACAY FABRICATION 1344 W SAMPLE SOUTH BEND, IN 46619	UST	U001079031 N/A
--	---	-----	-------------------

UST:

Facility ID: 10349

Tank Number: 1

Tank Status: PERMANENTLY OUT OF SERVICE

Install Date: Not reported

Closure Date: Not reported

Owner Id: 6327

Company Id: 6327

Company Name: Lacay Fabrication & Mfg

105 NE 1/2-1 3287 Higher	KAMINSKI-MOOREN 214 E. BRONON SOUTH BEND, IN 0	UST	U003209832 N/A
--------------------------------------	---	-----	-------------------

UST:

Facility ID: 20582

Tank Number: 0

Tank Status: Not reported

Install Date: Not reported

Closure Date: Not reported

Owner Id: 12000

Company Id: 12000

Company Name: Disputed Ownership

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation		Database(s)	EDR ID Number EPA ID Number
--	--	-------------	--------------------------------

AA106
NE
1/2-1
3328
Higher

VACANT BUILDING
613 S MICHIGAN
SOUTH BEND, IN 46601

UST
LUST

U001543786
N/A

LUST:

Facility ID: 18839
 Owner Name: Altman Family Trust
 Priority: Low
 Affected Area: Soil
 Description: Active

UST:

Facility ID: 18839
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 11/04/93
 Owner Id: 11028
 Company Id: 11028
 Company Name: Nathan D Altman Family Trust

AA107
NE
1/2-1
3370
Higher

DREISBACH CAD OLDS GMC TRUCK INC
602 S MICHIGAN ST
SOUTH BEND, IN 46601

LUST
UST

1000463862
N/A

LUST:

Facility ID: 12871
 Owner Name: Dreisbach Cad Olds Gmc Truck Inc
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:

Facility ID: 12871
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19570101
 Closure Date: 02/11/94
 Owner Id: 5955
 Company Id: 5955
 Company Name: Dreisbach Cad-Olds-gmc Truck Inc

108
SSW
1/2-1
3385
Higher

DEPARTMENT OF NAVY
1901 SOUTH KEMBLE
SOUTH BEND, IN 0

UST

U003210028
N/A

UST:

Facility ID: 20912
 Tank Number: 0
 Tank Status: Not reported
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 12000

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		Database(s) EDR ID Number EPA ID Number
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DEPARTMENT OF NAVY (Continued)

U003210028

Company Id: 12000
 Company Name: Disputed Ownership

AB109
ENE
1/2-1
3429
Same

MOSSBERG & COMPANY INC
301 E SAMPLE ST
SOUTH BEND, IN 46624

UST

U001078739
N/A

UST:
 Facility ID: 5944
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6459
 Company Id: 6459
 Company Name: Mossberg & Co Inc

110
West
1/2-1
3510
Higher

DELTA STAR ELECTRIC INC
1125 S WALNUT ST
SOUTH BEND, IN 46619

RCRIS-SQG 1000395399
FINDS IND061567731
MLTS

RCRIS:
 Owner: DELTA STAR ELECTRIC INC
 (219) 234-8131
 Contact: THOMAS GRABAREK
 (219) 234-8131
 Record Date: 02/05/1990
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 National Compliance Database (NCDB)
 State Systems

AC111
West
1/2-1
3513
Higher

YELLOW FREIGHT SYSTEM INC SBD
1300 WALNUT ST SITE B
SOUTH BEND, IN 46619

RCRIS-SQG 1001116931
IN Spills INR000007906

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

YELLOW FREIGHT SYSTEM INC SBD (Continued)

1001116931

RCRIS:

Owner: YELLOW FREIGHT SYSTEM INC
 (913) 344-5446

Contact: TOM RICHARDSON
 (219) 289-9217

Record Date: 09/16/1996

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

SPILL:

Facility ID:	197902005	Release Date:	02/12/1979
Incident Date:	02/12/1979	Area Affected:	4 Square Feet
Spill Type:	TRANS - TRUCK	Wtr Supply Affctd:	No
Contained:	Yes	Units:	Pounds
Water Affected:	None	Units:	Pounds
Fish Killed:	0		
Enforcement:	NONE		
Spilled Amount:	0		
Recovered Amnt:	0		
Material:	Sodium Cyanide		
Cleanup Duration:	1		
Public Intake:	Not reported		

Facility ID:	198307014	Release Date:	07/08/1983
Incident Date:	07/08/1983	Area Affected:	Not reported
Spill Type:	TRANS - TRUCK	Wtr Supply Affctd:	No
Contained:	Yes	Units:	Gallons
Water Affected:	St. Marys	Units:	Gallons
Fish Killed:	0		
Enforcement:	NONE		
Spilled Amount:	0		
Recovered Amnt:	0		
Material:	Diesel Fuel		
Cleanup Duration:	Not reported		
Public Intake:	Not reported		

MAP FINDINGS

Map ID:
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

YELLOW FREIGHT SYSTEM INC SBD (Continued)

1001116931

Facility ID: 198601068
 Incident Date: 01/29/1986 Release Date: 01/30/1986
 Spill Type: TRANS - TRUCK
 Contained: Yes
 Water Affected: None Area Affected: 150 Sq Ft
 Fish Killed: 0 Wtr Supply Affctd: No
 Enforcement: NONE
 Spilled Amount: 5.50 Units: Gallons
 Recovered Amnt: 5.50 Units: Gallons
 Material: Polyester Resin
 Cleanup Duration: 2
 Public Intake: Not reported

Facility ID: 198710071
 Incident Date: 10/14/1987 Release Date: 10/21/1987
 Spill Type: TRANS - TRUCK
 Contained: Yes
 Water Affected: None Area Affected: 100 Ft Sq
 Fish Killed: 0 Wtr Supply Affctd: No
 Enforcement: NONE
 Spilled Amount: .55 Units: Gallons
 Recovered Amnt: .55 Units: Gallons
 Material: Paint Strip
 Cleanup Duration: 2 Days
 Public Intake: Not reported

AD112
 West
 1/2-1
 3521
 Higher

CIRCLE LUMBER CO
 1212 S WALNUT ST
 SOUTH BEND, IN 46619

UST
 LUST

U001082137
 N/A

LUST:

Facility ID: 17658
 Owner Name: Circle Lumber Co.
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:

Facility ID: 17658
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 10011
 Company Id: 10011
 Company Name: Circle Lumber Co

AD113
 West
 1/2-1
 3522
 Higher

STEEL WAREHOUSE CO INC
 1215 S WALNUT ST
 SOUTH BEND, IN 46619

RCRIS-SQG
 FINDS

1000510436
 IND984900852

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

STEEL WAREHOUSE CO INC (Continued)

1000510436

RCRIS:

Owner: STEEL WAREHOUSE CO INC
 (219) 236-5100

Contact: DENNIS ENGLERT
 (219) 236-1526

Record Date: 09/03/1991

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

AD114
 West
 1/2-1
 3522
 Higher

KOKOKU WIRE INDUSTRIES CORP
 1217 S WALNUT ST
 SOUTH BEND, IN 46619

FINDS 1000333324
 RCRIS-LQG IND074320755
 CERC-NFRAP
 UST

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Ownership Status: Unknown

Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: PRELIMINARY ASSESSMENT

Completed: 19890904
 Completed: 19890925

CERCLIS-NFRAP Alias Name(s):

KOKOKU WIRE INDUSTRIES CORP
 ACCO INDUSTRIES/ACCO-BABCOCK

RCRIS:

Owner: KOKOKU WIRE INDUSTRIES CORP
 (312) 555-1212

Contact: JAMES HOFFMAN
 (219) 289-9234

Record Date: 02/11/1997

Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D002	300661.34	D007	300661.34
D008	300661.34	K062	300661.34

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/26/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	10/26/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s)
 EDR ID Number
 EPA ID Number

KOKOKU WIRE INDUSTRIES CORP (Continued)

1000333324

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/26/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	10/26/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/26/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	10/26/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/26/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	10/26/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/26/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	10/26/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/26/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/30/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	10/26/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

KOKOKU WIRE INDUSTRIES CORP (Continued)

1000333324

Date Violation Determined: 03/26/1992
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 04/30/1993
 Enforcement Action: Written Informal
 Enforcement Action Date: 10/26/1992
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

There are 7 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993
	Generator-All Requirements	04/30/1993

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 State Systems

UST:

Facility ID: 9162
 Tank Number: 1
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5659
 Company Id: 5659
 Company Name: Kokoka Wire Industries Corp

Facility ID: 9162
 Tank Number: 2
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5659
 Company Id: 5659
 Company Name: Kokoka Wire Industries Corp

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

KOKOKU WIRE INDUSTRIES CORP (Continued)

1000333324

Facility ID: 9162
 Tank Number: 3
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5659
 Company Id: 5659
 Company Name: Kokoka Wire Industries Corp

Facility ID: 9162
 Tank Number: 4
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5659
 Company Id: 5659
 Company Name: Kokoka Wire Industries Corp

Facility ID: 9162
 Tank Number: 5
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5659
 Company Id: 5659
 Company Name: Kokoka Wire Industries Corp

AB115
 ENE
 1/2-1
 3524
 Same

MOSSBURG AND CO INC
 301 E SAMPLE ST
 SOUTH BEND, IN 46618

RCRIS-SQG 1000463481
 FINDS IND005479316

RCRIS:
 Owner: NAME NOT REPORTED
 (312) 555-1212
 Contact: Not reported
 Record Date: Not reported
 Classification: Not reported
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

AE116
 North
 1/2-1
 3551
 Higher

HARMON GLASS CO
 502 W WESTERN AVE
 SOUTH BEND, IN 46614

LUST 1000939251
 UST N/A

LUST:
 Facility ID: 13379

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

HARMON GLASS CO (Continued)

1000939251

Owner Name: Harmon Glass Company
Priority: Low
Affected Area: Soil
Description: No Further Action

UST:

Facility ID: 13379
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/93
Owner Id: 6183
Company Id: 6183
Company Name: Interstate Glass Company Inc

Facility ID: 13379
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/93
Owner Id: 6183
Company Id: 6183
Company Name: Interstate Glass Company Inc

Facility ID: 13379
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/93
Owner Id: 6183
Company Id: 6183
Company Name: Interstate Glass Company Inc

Facility ID: 13379
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/93
Owner Id: 6183
Company Id: 6183
Company Name: Interstate Glass Company Inc

Facility ID: 13379
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/93
Owner Id: 6183
Company Id: 6183
Company Name: Interstate Glass Company Inc

AC117
West
1/2-1
3558
Higher
PRESTON TRUCKING CO
1300 WALNUT
SOUTH BEND, IN 46624

RCRIS-SQG 1000389438
FINDS IND078908969

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PRESTON TRUCKING CO (Continued)

1000389438

RCRIS:

Owner: PRESTON CORP
(312) 555-1212
Contact: MAX DRAUSCHAK
(301) 673-7151
Record Date: 03/27/1987
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
State Systems

AC118
West
1/2-1
3558
Higher

PRESTON TRUCKING COMPANY INC
1300 S WALNUT ST
SOUTH BEND, IN 46619

UST
LUST

U001079845
N/A

LUST:

Facility ID: 7867
Owner Name: Preston Trucking Company Inc
Priority: Medium
Affected Area: Groundwater
Description: Active

Facility ID: 7867
Owner Name: Preston Trucking Company Inc
Priority: Medium
Affected Area: Soil
Description: Active

UST:

Facility ID: 7867
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19680101
Closure Date: 12/12/98
Owner Id: 335
Company Id: 335
Company Name: Preston Trucking Co Inc

Facility ID: 7867
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: 19680101
Closure Date: 12/12/98
Owner Id: 335
Company Id: 335
Company Name: Preston Trucking Co Inc

Facility ID: 7867
Tank Number: 3

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

PRESTON TRUCKING COMPANY INC (Continued)

U001079845

Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19680101
 Closure Date: 12/12/98
 Owner Id: 335
 Company Id: 335
 Company Name: Preston Trucking Co Inc

Facility ID: 7867
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19680101
 Closure Date: 12/30/98
 Owner Id: 335
 Company Id: 335
 Company Name: Preston Trucking Co Inc

Facility ID: 7867
 Tank Number: 5
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19680101
 Closure Date: 12/12/98
 Owner Id: 335
 Company Id: 335
 Company Name: Preston Trucking Co Inc

Facility ID: 7867
 Tank Number: 6
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19680101
 Closure Date: 12/28/98
 Owner Id: 335
 Company Id: 335
 Company Name: Preston Trucking Co Inc

AF119
 NE
 1/2-1
 3561
 Higher

**3 BAY STATION
 534 S MICHIGAN ST
 SOUTH BEND, IN 46601**

UST

**U001081992
 N/A**

UST:

Facility ID: 15436
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15436
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s)
 EDR ID Number
 EPA ID Number

3 BAY STATION (Continued)

U001081992

Facility ID: 15436
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

**120
 SSE
 1/2-1
 3602
 Higher**

**B & R INVESTMENTS
 1916 S MAIN ST
 SOUTH BEND, IN 46613**

UST

**U000194268
 N/A**

UST:

Facility ID: 15378
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 8043
 Company Id: 8043
 Company Name: B & R Investments

**AE121
 NNE
 1/2-1
 3605
 Higher**

**RICHEY RADIATOR SERVICE
 416 W WESTERN AVE
 SOUTH BEND, IN 46601**

**RCRIS-SQG
 FINDS**

**1000464197
 IND016632333**

RCRIS:

Owner: RICHEY JACK E JR
 (317) 555-1212

 Contact: JACK RICHEY
 (219) 234-3312

 Record Date: 09/09/1997

 Classification: Conditionally Exempt Small Quantity Generator, Hazardous Waste Transporter

 Used Oil Recyc: No

 Violation Status: No violations found

**AG122
 NNE
 1/2-1
 3614
 Higher**

**ASHLAND OIL CO
 405 WESTERN AVE
 SOUTH BEND, IN 46601**

UST

**1001297915
 N/A**

UST:

Facility ID: 1349
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

ASHLAND OIL CO (Continued)

1001297915

Owner Id: 31
 Company Id: 31
 Company Name: Marathon Ashland Petroleum Llc

123
 WSW
 1/2-1
 3654
 Higher

SOUTH BEND BALING & IRON CO
 1420 S WALNUT
 SOUTH BEND, IN 46627

IN Spills
 UST

1000756840
 N/A

SPILL:

Facility ID:	199312116	Release Date:	12/16/1993
Incident Date:	12/15/1993		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	None	Area Affected:	75 Sq Ft
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	1.00	Units:	Gallons
Recovered Amnt:	1.00	Units:	Gallons
Material:	Diesel Fuel		
Cleanup Duration:	3 Hours		
Public Intake:	Not reported		

UST:

Facility ID: 11641
 Tank Number: 1
 Tank Status: UNREGULATED
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6745
 Company Id: 6745
 Company Name: South Bend Baling & Iron Co

AF124
 NE
 1/2-1
 3653
 Same

FIRESTONE 29EM/009318 T CHARLES
 502 S MICHIGAN
 SOUTH BEND, IN 46601

UST

1000512079
 N/A

UST:

Facility ID: 1986
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 1173
 Company Id: 1173
 Company Name: Penn Partners

Facility ID: 1986
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 1173
 Company Id: 1173
 Company Name: Penn Partners

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

FIRESTONE 29EM/009318 T CHARLES (Continued)

1000512079

Facility ID: 1986
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 1173
 Company Id: 1173
 Company Name: Penn Partners

Facility ID: 1986
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 1173
 Company Id: 1173
 Company Name: Penn Partners

AG125
 NNE
 1/2-1
 3682
 Higher

GATES AUTOMOTIVE
 333 W WESTERN AVE
 SOUTH BEND, IN 46601

RCRIS-SQG 1000887401
 FINDS IND985099142

RCRIS:
 Owner: GATES WILLIAM
 (219) 291-4704
 Contact: MATTHEW T HELMKAMP
 (219) 237-4005
 Record Date: 03/17/1994
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

AG126
 NNE
 1/2-1
 3682
 Higher

GATES CHEVROLET CORP (SERVICE)
 333 WESTERN AVE
 SOUTH BEND, IN 46601

UST U003141971
 LUST N/A

LUST:
 Facility ID: 16396
 Owner Name: Gates Chevy World
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:
 Facility ID: 16396
 Tank Number: 1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

GATES CHEVROLET CORP (SERVICE) (Continued)

U003141971

Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 8869
 Company Id: 8869
 Company Name: Gates Chevrolet Corp (service)

AH127
 SE
 1/2-1
 3689
 Higher

DON'S GAS AND CAR WASH
 1836 S MICHIGAN
 SOUTH BEND, IN 46613

FINDS 1000510301
 RCRIS-LQG IND984899344
 UST
 LUST

RCRIS:
 Owner: ZWIERZYNSKI DON
 (219) 259-0110
 Contact: DON ZWIERZYNSKI
 (216) 232-0110
 Record Date: 07/24/1991
 Classification: Large Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

LUST:
 Facility ID: 13393
 Owner Name: Don's Gas & Car Wash
 Priority: Medium
 Affected Area: Soil
 Description: Active

Facility ID: 13393
 Owner Name: Don's Gas & Car Wash
 Priority: Medium
 Affected Area: Groundwater
 Description: Active

UST:
 Facility ID: 13393
 Tank Number: 5
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5943
 Company Id: 5943
 Company Name: Don Zwierzynski

Facility ID: 13393
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

DON'S GAS AND CAR WASH (Continued)

1000510301

Owner Id: 5943
Company Id: 5943
Company Name: Don Zwierzynski

Facility ID: 13393
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5943
Company Id: 5943
Company Name: Don Zwierzynski

Facility ID: 13393
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5943
Company Id: 5943
Company Name: Don Zwierzynski

Facility ID: 13393
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 5943
Company Id: 5943
Company Name: Don Zwierzynski

128
NNE
1/2-1
3718
Higher

GATES CHEVROLET CORP
401 S LAFAYETTE BLVD
SOUTH BEND, IN 46601

FINDS 1000463831
RCRIS-LQG IND006939805

RCRIS:
Owner: GMS REALTY
(312) 555-1212
Contact: VAN GATES
(219) 237-4040
Record Date: 09/15/1986
Classification: Large Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
State Systems

AH129
SE
1/2-1
3789
Higher

DICK'S 66 SERVICE
1902 S MICHIGAN ST
SOUTH BEND, IN 46613

UST 1000514206
N/A

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

DICK'S 66 SERVICE (Continued)

1000514206

UST:

Facility ID: 10343
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/92
Owner Id: 5924
Company Id: 5924
Company Name: Dennis F Moon

Facility ID: 10343
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/92
Owner Id: 5924
Company Id: 5924
Company Name: Dennis F Moon

Facility ID: 10343
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/92
Owner Id: 5924
Company Id: 5924
Company Name: Dennis F Moon

Facility ID: 10343
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 08/01/92
Owner Id: 5924
Company Id: 5924
Company Name: Dennis F Moon

AI130
ENE
1/2-1
3844
Lower

H G CHRISTMAN CONSTRUCTION CO
850 S FELLOWS ST
SOUTH BEND, IN 46618

UST

U003093329
N/A

UST:

Facility ID: 3186
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 6105
Company Id: 6105
Company Name: H G Christman Construction Co

Facility ID: 3186
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MARION BROWN (Continued)

U000747296

Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 10192
Company Id: 10192
Company Name: Marion Brown

Facility ID: 17899
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 10192
Company Id: 10192
Company Name: Marion Brown

Facility ID: 17899
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 10192
Company Id: 10192
Company Name: Marion Brown

Facility ID: 17899
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 10192
Company Id: 10192
Company Name: Marion Brown

AJ134
ENE
1/2-1
3884
Lower

PHILLIP J MAGALDI
502 E SAMPLE ST
SOUTH BEND, IN 46618

UST

U003094814
N/A

UST:

Facility ID: 17562
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9936
Company Id: 9936
Company Name: Phillip J Magaldi

Facility ID: 17562
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9936
Company Id: 9936
Company Name: Phillip J Magaldi

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

PHILLIP J MAGALDI (Continued)

U003094814

Facility ID: 17562
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9936
Company Id: 9936
Company Name: Phillip J Magaldi

Facility ID: 17562
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9936
Company Id: 9936
Company Name: Phillip J Magaldi

Facility ID: 17562
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 9936
Company Id: 9936
Company Name: Phillip J Magaldi

135
NE
1/2-1
4106
Lower

SOUTH BEND VMF
424 S MICHIGAN ST
SOUTH BEND, IN 46624

UST
LUST

U002178515
N/A

LUST:

Facility ID: 6914
Owner Name: South Bend Post Office
Priority: Low
Affected Area: Soil
Description: No Further Action

UST:

Facility ID: 6914
Tank Number: 8
Tank Status: CURRENTLY IN USE
Install Date: 19920201
Closure Date: Not reported
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 9
Tank Status: CURRENTLY IN USE
Install Date: 19920201
Closure Date: Not reported
Owner Id: 5605
Company Id: 5605

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

SOUTH BEND VMF (Continued)

U002178515

Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 10
Tank Status: CURRENTLY IN USE
Install Date: 19920201
Closure Date: Not reported
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 11
Tank Status: CURRENTLY IN USE
Install Date: 19920201
Closure Date: Not reported
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 12
Tank Status: CURRENTLY IN USE
Install Date: 19920201
Closure Date: Not reported
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 1
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 2
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

SOUTH BEND VMF (Continued)

U002178515

Tank Number: 6
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 7
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 13
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 14
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

Facility ID: 6914
Tank Number: 15
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: 12/01/91
Owner Id: 5605
Company Id: 5605
Company Name: Us Postal Service

136
North
1/2-1
4293
Higher

AT&T
222 S SCOTT ST
SOUTH BEND, IN 46601

UST
LUST

U001082449
N/A

LUST:
Facility ID: 18190
Owner Name: At&T
Priority: Low
Affected Area: Soil
Description: No Further Action

UST:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

AT&T (Continued)

U001082449

Facility ID: 18190
 Tank Number: 3
 Tank Status: CURRENTLY IN USE
 Install Date: 19920901
 Closure Date: Not reported
 Owner Id: 8014
 Company Id: 8014
 Company Name: At&T

Facility ID: 18190
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 09/01/92
 Owner Id: 8014
 Company Id: 8014
 Company Name: At&T

Facility ID: 18190
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: 09/01/92
 Owner Id: 8014
 Company Id: 8014
 Company Name: At&T

137
 SSE
 1/2-1
 4657
 Higher

DISCOUNT MUFFLER
 2222 S MICHIGAN ST
 SOUTH BEND, IN 46601

LUST
 UST

1000514251
 N/A

LUST:

Facility ID: 15437
 Owner Name: Discount Muffler & Tire
 Priority: Medium
 Affected Area: Soil
 Description: Active

UST:

Facility ID: 15437
 Tank Number: 5
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15437
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

DISCOUNT MUFFLER (Continued)

1000514251

Facility ID: 15437
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15437
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

Facility ID: 15437
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 6044
 Company Id: 6044
 Company Name: Gafill Projects Inc

138
 SSE
 1/2-1
 4982
 Higher

CLARK STORE #448
 2322 S MICHIGAN
 SOUTH BEND, IN 46614

UST
 LUST

U001081512
 N/A

LUST:

Facility ID: 13528
 Owner Name: Clark Store #448
 Priority: High
 Affected Area: Free Product
 Description: Active

Facility ID: 13528
 Owner Name: Clark Store #448
 Priority: High
 Affected Area: Groundwater
 Description: Active

Facility ID: 13528
 Owner Name: Clark Store #448
 Priority: High
 Affected Area: Soil
 Description: Active

UST:

Facility ID: 13528
 Tank Number: 3
 Tank Status: PERMANENTLY OUT OF SERVICE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

CLARK STORE #448 (Continued)

U001081512

Install Date: 19700801
 Closure Date: 01/22/98
 Owner Id: 234
 Company Id: 234
 Company Name: Clark Retail Enterprises Inc

Facility ID: 13528
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19710601
 Closure Date: 01/22/98
 Owner Id: 234
 Company Id: 234
 Company Name: Clark Retail Enterprises Inc

Facility ID: 13528
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19570601
 Closure Date: 01/22/98
 Owner Id: 234
 Company Id: 234
 Company Name: Clark Retail Enterprises Inc

139
 NNE
 1/2-1
 5092
 Lower

**BABCOCK MARATHON
 101 N LAFAYETTE BLVD
 SOUTH BEND, IN 46601**

**LUST
 UST**

**1000753495
 N/A**

LUST:

Facility ID: 2563
 Owner Name: Babcock Marathon
 Priority: Low
 Affected Area: Soil
 Description: Active

Facility ID: 2563
 Owner Name: Babcock Marathon
 Priority: Low
 Affected Area: Soil
 Description: Active

Facility ID: 2563
 Owner Name: Babcock Marathon
 Priority: Low
 Affected Area: Soil
 Description: Active

UST:

Facility ID: 2563
 Tank Number: 2
 Tank Status: CURRENTLY IN USE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5703
 Company Id: 5703

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

BABCOCK MARATHON (Continued)

1000753495

Company Name: Babcock Services Inc
 Facility ID: 2563
 Tank Number: 1
 Tank Status: CURRENTLY IN USE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5703
 Company Id: 5703
 Company Name: Babcock Services Inc

Facility ID: 2563
 Tank Number: 3
 Tank Status: CURRENTLY IN USE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 5703
 Company Id: 5703
 Company Name: Babcock Services Inc

Facility ID: 2563
 Tank Number: 4
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: 19630101
 Closure Date: 11/16/98
 Owner Id: 5703
 Company Id: 5703
 Company Name: Babcock Services Inc

140
 East
 1/2-1
 5117
 Lower

PEPSI COLA GENERAL BOTTLERS INC
 1330 S HIGH ST
 SOUTH BEND, IN 46634

UST
 LUST

U000189506
 N/A

LUST:
 Facility ID: 8322
 Owner Name: Pepsi Cola Bottlers
 Priority: Low
 Affected Area: Soil
 Description: No Further Action

UST:
 Facility ID: 8322
 Tank Number: 1
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 192
 Company Id: 192
 Company Name: Pepsi Cola General Bottlers Corp

Facility ID: 8322
 Tank Number: 2
 Tank Status: PERMANENTLY OUT OF SERVICE
 Install Date: Not reported
 Closure Date: Not reported
 Owner Id: 192

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PEPSI COLA GENERAL BOTTLERS INC (Continued)

U000189506

Company Id: 192
Company Name: Pepsi Cola General Bottlers Corp

Facility ID: 8322
Tank Number: 3
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 192
Company Id: 192
Company Name: Pepsi Cola General Bottlers Corp

Facility ID: 8322
Tank Number: 4
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 192
Company Id: 192
Company Name: Pepsi Cola General Bottlers Corp

Facility ID: 8322
Tank Number: 5
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 192
Company Id: 192
Company Name: Pepsi Cola General Bottlers Corp

Facility ID: 8322
Tank Number: 6
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 192
Company Id: 192
Company Name: Pepsi Cola General Bottlers Corp

Facility ID: 8322
Tank Number: 7
Tank Status: PERMANENTLY OUT OF SERVICE
Install Date: Not reported
Closure Date: Not reported
Owner Id: 192
Company Id: 192
Company Name: Pepsi Cola General Bottlers Corp

141
WSW
> 1
5338
Higher

ASHLAND DISTRIBUTION CO
1817 W INDIANA AVE
SOUTH BEND, IN 46613

FINDS 1000276930
RCRIS-LQG IND016621476
TRIS
RCRIS-TSD
RAATS
CORRACTS
CERC-NFRAP
IN Spills

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Ownership Status: Other

Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: PRELIMINARY ASSESSMENT
 Assessment: SITE INSPECTION
 Assessment: HRS PACKAGE

Completed: 19800801
 Completed: 19850201
 Completed: 19850906
 Completed: 19860728

CERCLIS-NFRAP Alias Name(s):

ASHLAND CHEM CO

CORRACTS Data:

Prioritization: High
 Status: RCRA Facility Assessment Completed, Determination of Need for a RCRA Facility Investigation, RFI Imposition, RFI Workplan Approved, RCRA Facility Investigation Approved

RCRIS Corrective Action Summary:

Effective Date: 10/29/1992
 Legal Authority: RCRA 3004(u) or equivalent

RCRIS:

Owner: ASHLAND DST CO/DIV ASHLAND INC
 (614) 790-3333

Contact: ARLENE HENDRICKSON
 (614) 889-3695

Record Date: 02/20/1994

Classification: Large Quantity Generator, TSD, Hazardous Waste Transporter

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	903659.65	D002	21664.00
D003	500.00	D004	8103.00
D005	10255.00	D006	42046.00
D007	46184.00	D008	49792.00
D009	14668.00	D018	457560.71
D035	346119.18	D039	113645.00
D040	4937.00	D043	950.00
F001	21028.00	F002	220635.00
F003	770456.70	F005	743418.03
F006	2000.00	U028	4600.00
U043	950.00	U077	22350.00
U080	100.00	U154	400.00
U165	21400.00		

Used Oil Recyc: No

TSDF Activities: accepts waste from off-site

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 09/06/1990
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 10/01/1991

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

Enforcement Action:	Written Informal
Enforcement Action Date:	01/24/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	09/06/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/11/1992
Enforcement Action:	Written Informal
Enforcement Action Date:	02/18/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/06/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/11/1992
Enforcement Action:	Written Informal
Enforcement Action Date:	02/18/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/23/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/29/1988
Actual Date Achieved Compliance:	10/27/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	08/15/1988
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	11/13/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/14/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	12/17/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	11/13/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	07/14/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	12/17/1991

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	11/13/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	01/08/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/12/1986
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	12/09/1986
Actual Date Achieved Compliance:	05/05/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	11/03/1986
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/12/1986
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	12/09/1986
Actual Date Achieved Compliance:	05/05/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	11/03/1986
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	11/04/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	04/22/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	02/24/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	04/04/1994
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	10/13/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	07/08/1994
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	04/07/1994
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	10/13/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	07/08/1994
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	02/21/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/21/1997
Enforcement Action:	Written Informal
Enforcement Action Date:	04/18/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	02/21/1997
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	05/21/1997
Enforcement Action:	Written Informal
Enforcement Action Date:	04/18/1997
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 14 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Schedule Evaluation (CSE)	TSD-Land Ban Requirements	05/21/1997
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	05/21/1997
Compliance Schedule Evaluation (CSE)	TSD-Land Ban Requirements	05/21/1997
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	05/21/1997
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	10/13/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/13/1994
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	10/13/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/13/1994
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	07/14/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	07/14/1993
Other Evaluation	Generator-All Requirements	04/22/1993
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	07/14/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	07/14/1993
Compliance Schedule Evaluation (CSE)	TSD-Other Requirements	07/14/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	07/14/1993
Land Disposal Restriction Requirements Inspection	TSD-Land Ban Requirements	07/14/1993

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/01/1991
Other Evaluation	Generator-Land Ban Requirements	05/11/1992
	TSD-Land Ban Requirements	05/11/1992
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/27/1988
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	05/05/1988
	TSD-Other Requirements	05/05/1988

NY MANIFEST

Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

FINDS:

Other Pertinent Environmental Activity Identified at Site:

- AIRS Facility System (AIRS/AFS)
- Section Seven Tracking System (SSTS)
- State Systems

SPILL:

Facility ID:	197905015	Release Date:	05/16/1979
Incident Date:	05/16/1979		
Spill Type:	INDUSTRIAL		
Contained:	Yes		
Water Affected:	Ground	Area Affected:	Unk
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	5.01	Units:	Gallons
Recovered Amnt:	0	Units:	Gallons
Material:	Toluene & Ketones		
Cleanup Duration:	U		
Public Intake:	Not reported		

Facility ID:	197905017	Release Date:	05/16/1979
Incident Date:	05/16/1979		
Spill Type:	TRANS - TRUCK		
Contained:	Yes		
Water Affected:	None	Area Affected:	Unk
Fish Killed:	0	Wtr Supply Affctd:	No
Enforcement:	NONE		
Spilled Amount:	11.00	Units:	Gallons
Recovered Amnt:	0	Units:	Gallons
Material:	Perchloroethylene		
Cleanup Duration:	1		
Public Intake:	Not reported		

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) : EDR ID Number
EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

Facility ID: 197907018
Incident Date: 07/19/1979
Spill Type: INDUSTRIAL
Contained: Yes
Water Affected: Ground
Fish Killed: 0
Enforcement: NONE
Spilled Amount: 20.00
Recovered Amnt: 20.00
Material: Hydrochloric Acid
Cleanup Duration: 1 Day
Public Intake: Not reported

Release Date: 07/19/1979
Area Affected: Unk
Wtr Supply Affctd: No
Units: Gallons
Units: Gallons

Facility ID: 198202015
Incident Date: 02/10/1982
Spill Type: INDUSTRIAL
Contained: No
Water Affected: None
Fish Killed: 0
Enforcement: NONE
Spilled Amount: 5.
Recovered Amnt: 0
Material: Acetone
Cleanup Duration: None Done
Public Intake: Not reported

Release Date: 02/10/1982
Area Affected: Unk
Wtr Supply Affctd: No
Units: Gallons
Units: Gallons

Facility ID: 198810023
Incident Date: 10/07/1988
Spill Type: TRANS - TRUCK
Contained: Yes
Water Affected: Storm Sewer
Fish Killed: 0
Enforcement: NONE
Spilled Amount: 3.
Recovered Amnt: 0
Material: Sulfuric Acid
Cleanup Duration: Complete
Public Intake: Not reported

Release Date: 10/11/1988
Area Affected: 1000 Ft Sq
Wtr Supply Affctd: No
Units: Gallons
Units: Gallons

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

ASHLAND DISTRIBUTION CO (Continued)

1000276930

Facility ID: 198905119
 Incident Date: 05/24/1989 Release Date: 05/26/1989
 Spill Type: INDUSTRIAL
 Contained: No
 Water Affected: None Area Affected: Air
 Fish Killed: 0 Wtr Supply Affctd: No
 Enforcement: NONE
 Spilled Amount: 1. Units: Pounds
 Recovered Amnt: 0 Units: Pounds
 Material: Sulfur Dioxide
 Cleanup Duration: N/A
 Public Intake: Not reported

Facility ID: 198907020
 Incident Date: 07/10/1989 Release Date: 07/10/1989
 Spill Type: INDUSTRIAL
 Contained: No
 Water Affected: None Area Affected: 10 Sq Ft
 Fish Killed: 0 Wtr Supply Affctd: No
 Enforcement: NONE
 Spilled Amount: 2. Units: Gallons
 Recovered Amnt: 0 Units: Gallons
 Material: Xylene
 Cleanup Duration: One Day
 Public Intake: Not reported

142
 NE
 > 1
 5624
 Lower

SOUTH BEND GAS LIGHT & COKE CO.
 301 E. JEFFERSON AND 320 JEFFERSON
 SOUTH BEND, IN 46601

Coal Gas G000001194
 N/A

COAL GAS SITE DESCRIPTION:

1885 S. Bend, In. #11 South Bend Gas Light and Coke is on the north side of E. J t, east of Carroll St. Site is bordered on the eat by the St. Joseph River. One r is on the south side of Jefferson. By 1891, site not labeled, gas holders stil to parking on site of 301 E. Jefferson and gas holder is gone from south side of various businesses on site.

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143
 East
 > 1
 5747
 Lower

NORTHERN INDIANA GAS AND ELECTRIC CO.
 E. PENNSYLVANIA AVE.
 SOUTH BEND, IN 46601

Coal Gas G000001195
 N/A

COAL GAS SITE DESCRIPTION:

1917 Northern Indiana Gas and Electric Co. is located on north side of E. Pennsy st ofS. High Street. Site is bordered on the northeast by the NTCRR railroad li f Miami St. 1945,site is expanded across to the south side of E. Pennsylvania A

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144
 SSE
 > 1
 6989
 Higher

COPCO STEEL AND ENGINEERING CO
 2901 S MAIN ST
 SOUTH BEND, IN 46614

RCRIS-SQG 1000177782
 FINDS IND005157623
 CORRACTS
 CERC-NFRAP

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

COPCO STEEL AND ENGINEERING CO (Continued)

1000177782

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Ownership Status: Unknown
 Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY Completed: 19890210
 Assessment: PRELIMINARY ASSESSMENT Completed: 19890808

CERCLIS-NFRAP Alias Name(s):

COPCO STEEL & ENGINEERING CO.
 CENTENNIAL STEEL
 COPCO STEEL & ENGINEERING CO.

CORRACTS Data:

Prioritization: Low
 Status: Not reported

RCRIS:

Owner: COPCO STEEL & ENGINEERING COMPANY
 Contact: JOHN CARNICK
 (219) 291-6220

Record Date: 08/18/1980

Classification: Not reported

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 10/11/1984
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 02/04/1985
 Actual Date Achieved Compliance: 01/08/1987

Enforcement Action: Written Informal
 Enforcement Action Date: 12/19/1984
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 10/11/1984
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 02/09/1985
 Actual Date Achieved Compliance: 01/08/1987

Enforcement Action: Written Informal
 Enforcement Action Date: 12/19/1984
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

There are 2 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	01/08/1987
	Generator-All Requirements	01/08/1987

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s)
 EDR ID Number
 EPA ID Number

COPCO STEEL AND ENGINEERING CO (Continued)

1000177782

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 State Systems

145
 WNW
 > 1
 7275
 Higher

SAFETY KLEEN CORPORATION
2217 WESTERN AVENUE
SOUTH BEND, IN 46628

PADS 1000224339
FINDS IND000715474
RCRIS-LQG
RCRIS-TSD
CORRACTS
CERC-NFRAP
IN Spills

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
 Ownership Status: Unknown

Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
 Assessment: PRELIMINARY ASSESSMENT

Completed: 19890210
 Completed: 19890517

CERCLIS-NFRAP Alias Name(s):

SAFETY KLEEN CORP.
 SAFETY KLEEN CORP.

CORRACTS Data:

Prioritization: Low
 Status: RCRA Facility Assessment Completed

RCRIS:

Owner: SAFETY KLEEN SYSTEMS INC
 (803) 933-4393

Contact: KEVIN HERSEY
 (312) 697-8460

Record Date: 05/08/1994

Classification: Large Quantity Generator, TSD, Hazardous Waste Transporter

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	445958.40	D006	446398.40
D008	445958.40	D018	392298.40
D039	54100.00	F001	1152.00
F002	1152.00	F003	1152.00
F005	1152.00		

Used Oil Recyc: No

TSDF Activities: accepts waste from off-site

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 12/03/1987
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 03/23/1988
 Actual Date Achieved Compliance: 09/19/1988
 Enforcement Action: Written Informal
 Enforcement Action Date: 02/17/1988
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

SAFETY KLEEN CORPORATION (Continued)

1000224339

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/09/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/30/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	09/12/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/30/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	09/12/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/10/1993
Proposed Monetary Penalty:	\$ 37,219.00
Final Monetary Penalty:	\$ 37,219.00
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/10/1993
Proposed Monetary Penalty:	\$ 37,219.00
Final Monetary Penalty:	\$ 37,219.00
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

SAFETY KLEEN CORPORATION (Continued)

1000224339

Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/10/1993
Proposed Monetary Penalty:	\$ 37,219.00
Final Monetary Penalty:	\$ 37,219.00
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/10/1993
Proposed Monetary Penalty:	\$ 37,219.00
Final Monetary Penalty:	\$ 37,219.00
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/28/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	03/31/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	02/08/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/26/1993
Actual Date Achieved Compliance:	07/15/1993
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/28/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	03/31/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	02/08/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/26/1993
Actual Date Achieved Compliance:	07/15/1993
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	08/30/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	07/30/1993
Actual Date Achieved Compliance:	07/21/1993

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

SAFETY KLEEN CORPORATION (Continued)

1000224339

Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	09/15/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	01/03/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	12/10/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/15/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	01/03/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	12/10/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	09/15/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	01/03/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	12/10/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/28/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/10/1993
Proposed Monetary Penalty:	\$ 37,219.00
Final Monetary Penalty:	\$ 37,219.00
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	09/26/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/10/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/10/1993
Proposed Monetary Penalty:	\$ 37,219.00
Final Monetary Penalty:	\$ 37,219.00
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

SAFETY KLEEN CORPORATION (Continued)

1000224339

Date Violation Determined: 09/26/1991
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 12/10/1993
 Enforcement Action: Initial Formal 3008(a) Compliance Order
 Enforcement Action Date: 03/10/1993
 Proposed Monetary Penalty: \$ 37,219.00
 Final Monetary Penalty: \$ 37,219.00
 Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 09/26/1991
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 12/10/1993
 Enforcement Action: Initial Formal 3008(a) Compliance Order
 Enforcement Action Date: 03/10/1993
 Proposed Monetary Penalty: \$ 37,219.00
 Final Monetary Penalty: \$ 37,219.00
 Regulation Violated: Not reported
 Area of Violation: TSD-Other Requirements
 Date Violation Determined: 09/26/1991
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 12/10/1993
 Enforcement Action: Initial Formal 3008(a) Compliance Order
 Enforcement Action Date: 03/10/1993
 Proposed Monetary Penalty: \$ 37,219.00
 Final Monetary Penalty: \$ 37,219.00
 Regulation Violated: Not reported
 Area of Violation: TSD-Closure/Post Closure Requirements
 Date Violation Determined: 09/26/1991
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 12/10/1993
 Enforcement Action: Initial Formal 3008(a) Compliance Order
 Enforcement Action Date: 03/10/1993
 Proposed Monetary Penalty: \$ 37,219.00
 Final Monetary Penalty: \$ 37,219.00
 Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 09/21/1995
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 12/01/1995
 Regulation Violated: Not reported
 Area of Violation: TSD-Land Ban Requirements
 Date Violation Determined: 09/21/1995
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: Not reported
 Actual Date Achieved Compliance: 12/01/1995
 Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

SAFETY KLEEN CORPORATION (Continued)

1000224339

Date Violation Determined:	12/15/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/12/1999
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/15/1998
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/12/1999
Enforcement Action:	Written Informal
Enforcement Action Date:	12/22/1998
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 26 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	02/12/1999
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	02/12/1999
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	12/01/1995
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	12/01/1995
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	01/03/1994
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	01/03/1994
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	01/03/1994
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	03/31/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	03/31/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Closure/Post Closure Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	07/15/1993
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	07/15/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	Generator-Land Ban Requirements	07/21/1993
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	12/10/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	09/19/1988
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	09/19/1988

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

SAFETY KLEEN CORPORATION (Continued)

1000224339

FINDS:

Other Pertinent Environmental Activity Identified at Site:
PCB Handler Activity Data System (PADS)
State Systems

SPILL:

Facility ID:	199304276	Release Date:	04/30/1993
Incident Date:	04/30/1993		
Spill Type:	COMMERCIAL		
Contained:	Yes	Area Affected:	20 Sq Ft
Water Affected:	None	Wtr Supply Affctd:	No
Fish Killed:	0		
Enforcement:	NONE	Units:	Gallons
Spilled Amount:	6.	Units:	Gallons
Recovered Amnt:	6.		
Material:	Waste Motor Oil		
Cleanup Duration:	1 Hour		
Public Intake:	Not reported		

Facility ID:	199406210	Release Date:	06/23/1994
Incident Date:	06/23/1994		
Spill Type:	Not reported		
Contained:	Yes	Area Affected:	Not reported
Water Affected:	None	Wtr Supply Affctd:	No
Fish Killed:	0		
Enforcement:	NONE	Units:	Gallons
Spilled Amount:	1.	Units:	Gallons
Recovered Amnt:	1.		
Material:	Mineral Spirits		
Cleanup Duration:	1 Hour		
Public Intake:	Not reported		

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
BRIDGMAN	98448959	ON RED ARROW HIGHWAY 1/4 MI SOUTH OF SHAWNEE	ON RED ARROW HIGHWAY 1/4 MI SOUTH OF SHAWNEE	46601	ERNS	
SOUTH BEND	1002893461	A T & T SOUTH BEND	LT: 41-18-10/ LN:86-1-27	46601	FINDS	
SOUTH BEND	8855514	AIRCO, 3809 CALVERT STREET, SOUTH BEND, ID 219-234-4906; DAV	AIRCO, 3809 CALVERT STREET, SOUTH BEND, ID 219-234-4906; DAV	46613	ERNS	2519
SOUTH BEND	90157385	SOUTH BEND RAIL YARD WEST SIDE OF TOWN	SOUTH BEND RAIL YARD WEST SIDE OF TOWN	46613	ERNS	11102
SOUTH BEND	U003577504	SEE FAC ID 11102	3809 W CALVERT ST	46613	UST	
SOUTH BEND	U003577831	BOC GASES-FORMERLY AIRCO INDUST	3809 W CALVERT ST	46613	UST, LUST	
SOUTH BEND	1002898919	SOUTH BEND COUNTRY CLUB	25800 COUNTRY CLUB DR	46619	FINDS	
SOUTH BEND	1000402406	WESTERN AVENUE SITE	ELMER HURON HOLLYWOOD & FORD STREET	46619	CERC-NFRAP	
SOUTH BEND	S104325359	ARCO INDUSTRIAL	20630 WEST IRELAND	46601	SHWS	22672
SOUTH BEND	U003514946	FORMER FIRE STATION	LINCOLNWAY AT BOWMAN CREEK	46601	UST	
SOUTH BEND	99625533	1310 SOUTH MAIN ST STE 3	1310 SOUTH MAIN ST STE 3	46601	ERNS	
SOUTH BEND	99621257	1310 SOUTH MAIN ST, UNIT 3	1310 SOUTH MAIN ST, UNIT 3	46601	ERNS	
SOUTH BEND	1000195614	TREE BURNING SITE	1 MILE SOUTH OF CHAMERLAIN LAKE	46619	CERC-NFRAP	
SOUTH BEND	2000659028	1530 SOUTH OLIVE STREET	1530 SOUTH OLIVE STREET	46601	ERNS	
SOUTH BEND	94378078	137 SOUTH OLIVE	137 SOUTH OLIVE	46601	ERNS	21533
SOUTH BEND	U003210380	I.U. SOUTH BEND	RUSKIN & ESTHER STREETS	46601	UST	

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D003	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D011	SILVER
D014	METHOXYCHLOR
D018	BENZENE
D026	CRESOL
D035	METHYL ETHYL KETONE
D037	PENTRACHLOROPHENOL
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
D043	VINYL CHLORIDE

EPA Waste Codes Addendum

Code	Description
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
F019	WASTEWATER TREATMENT SLUDGES FROM THE CHEMICAL CONVERSION COATING OF ALUMINUM EXCEPT FROM ZIRCONIUM PHOSPHATING IN ALUMINUM CAN WASHING WHEN SUCH PHOSPHATING IS AN EXCLUSIVE CONVERSION COATING PROCESS.
F032	WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESSES GENERATED AT PLANTS THAT CURRENTLY USE OR HAVE PREVIOUSLY USED CHLOROPHENOLIC FORMULATIONS (EXCEPT POTENTIALLY CROSS-CONTAMINATED WASTES THAT HAVE HAD THE F032 WASTE CODE DELETED IN ACCORDANCE WITH SECTION 261.35 OF THIS CHAPTER AND WHERE THE GENERATOR DOES NOT RESUME OR INITIATE USE OF CHLOROPHENOLIC FORMULATIONS). THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT

EPA Waste Codes Addendum

Code	Description
	OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL. (NOTE: THE LISTING OF WASTEWATERS THAT HAVE NOT COME INTO CONTACT WITH PROCESS CONTAMINANTS IS STAYED ADMINISTRATIVELY. THE LISTING FOR PLANTS THAT HAVE PREVIOUSLY USED CHLOROPHENOLIC FORMULATIONS IS ADMINISTRATIVELY STAYED WHENEVER THESE WASTES ARE COVERED BY THE F034 OR F035 LISTINGS. THESE STAYS WILL REMAIN IN EFFECT UNTIL FURTHER ADMINISTRATIVE ACTION IS TAKEN.)
K062	SPENT PICKLE LIQUOR GENERATED BY STEEL FINISHING OPERATIONS OF FACILITIES WITHIN THE IRON AND STEEL INDUSTRY (SIC CODES 331 AND 332).
U028	1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER
U028	DIETHYLHEXYL PHTHALATE
U043	ETHENE, CHLORO-
U043	VINYL CHLORIDE
U077	ETHANE, 1,2-DICHLORO-
U077	ETHYLENE DICHLORIDE
U080	METHANE, DICHLORO-
U080	METHYLENE CHLORIDE
U154	METHANOL (I)
U154	METHYL ALCOHOL (I)
U165	NAPHTHALENE
U223	BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)
U223	TOLUENE DIISOCYANATE (R,T)

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA
Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 06/13/00
Date Made Active at EDR: 07/06/00
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/27/00
Elapsed ASTM days: 9
Date of Last EDR Contact: 08/07/00

DELISTED NPL: NPL Deletions

Source: EPA
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/13/00
Date Made Active at EDR: 07/06/00
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/27/00
Elapsed ASTM days: 9
Date of Last EDR Contact: 08/07/00

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA
Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/16/00
Date Made Active at EDR: 08/16/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/05/00
Elapsed ASTM days: 72
Date of Last EDR Contact: 08/28/00

CERCLIS-NFRAP: No Further Remedial Action Planned

Source: EPA
Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 04/16/00
Date Made Active at EDR: 08/16/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/05/00
Elapsed ASTM days: 72
Date of Last EDR Contact: 08/28/00

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/20/00

Date Made Active at EDR: 08/01/00

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/12/00

Elapsed ASTM days: 50

Date of Last EDR Contact: 09/12/00

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00

Date Made Active at EDR: 07/31/00

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/10/00

Elapsed ASTM days: 21

Date of Last EDR Contact: 09/26/00

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00

Date Made Active at EDR: 09/06/00

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 08/11/00

Elapsed ASTM days: 26

Date of Last EDR Contact: 08/02/00

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97

Database Release Frequency: Biennially

Date of Last EDR Contact: 09/18/00

Date of Next Scheduled EDR Contact: 12/18/00

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A

Database Release Frequency: Varies

Date of Last EDR Contact: N/A

Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: NTIS

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/31/99

Database Release Frequency: Annually

Date of Last EDR Contact: 10/12/00

Date of Next Scheduled EDR Contact: 01/08/01

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/07/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/10/00
Date of Next Scheduled EDR Contact: 01/08/01

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4526

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/99
Database Release Frequency: Annually

Date of Last EDR Contact: 07/25/00
Date of Next Scheduled EDR Contact: 10/23/00

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/23/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/10/00
Date of Next Scheduled EDR Contact: 01/08/01

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 08/01/98
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/02/00
Date of Next Scheduled EDR Contact: 01/01/01

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/21/00
Date of Next Scheduled EDR Contact: 11/20/00

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-260-3936

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/01/00
Database Release Frequency: Annually

Date of Last EDR Contact: 08/15/00
Date of Next Scheduled EDR Contact: 11/13/00

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 09/12/00
Date of Next Scheduled EDR Contact: 12/11/00

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/97
Database Release Frequency: Annually

Date of Last EDR Contact: 09/25/00
Date of Next Scheduled EDR Contact: 12/25/00

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-1444

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 09/12/00
Date of Next Scheduled EDR Contact: 12/11/00

STATE OF INDIANA ASTM STANDARD RECORDS

SHWS: List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

Source: Department of Environmental Management
Telephone: 317-308-3052

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/31/00
Date Made Active at EDR: 05/16/00
Database Release Frequency: Annually

Date of Data Arrival at EDR: 04/05/00
Elapsed ASTM days: 41
Date of Last EDR Contact: 10/10/00

LF: Permitted Solid Waste Facilities

Source: Department of Environmental Management
Telephone: 317-232-0066

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/05/00
Date Made Active at EDR: 03/20/00
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/07/00
Elapsed ASTM days: 42
Date of Last EDR Contact: 07/20/00

LUST: Lust List

Source: Department of Environmental Management
Telephone: 317-308-3008

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/26/00
Date Made Active at EDR: 07/27/00
Database Release Frequency: Annually

Date of Data Arrival at EDR: 07/17/00
Elapsed ASTM days: 10
Date of Last EDR Contact: 10/03/00

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Indiana Registered Underground Storage Tanks
Source: Department of Environmental Management
Telephone: 317-308-3008

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/27/00
Date Made Active at EDR: 10/25/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 10/03/00
Elapsed ASTM days: 22
Date of Last EDR Contact: 10/03/00

STATE OF INDIANA ASTM SUPPLEMENTAL RECORDS

SPILLS: Spills Incidents
Source: Department of Environmental Management
Telephone: 317-308-3008

Date of Government Version: 06/26/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/03/00
Date of Next Scheduled EDR Contact: 01/01/01

EDR PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively by EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SOUTH BEND STAMPING, ET AL.
601 WEST BROADWAY
SOUTH BEND, IN 46601

TARGET PROPERTY COORDINATES

Latitude (North):	41.662300 - 41° 39' 44.3"
Longitude (West):	86.257896 - 86° 15' 28.4"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	561784.8
UTM Y (Meters):	4612336.0

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2441086-F3 SOUTH BEND WEST, IN
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General NNE

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Q3 Flood</u>
ST JOSEPH, IN	<u>Data Electronic Coverage</u>
	NO

Flood Plain Panel at Target Property:	Not Reported
Additional Panels in search area:	Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
SOUTH BEND WEST	<u>Coverage</u>
	YES

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

AQUIFLOW®

Search Radius: 2,000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
C9	1/4 - 1/2 Mile NW	SSE
D12	1/4 - 1/2 Mile SE	NE
H43	1/4 - 1/2 Mile NE	NE
J70	1/2 - 1 Mile NE	E
O76	1/2 - 1 Mile NNE	NE
T97	1 - 2 Miles ENE	SW
98	1 - 2 Miles WNW	FLAT
102	1 - 2 Miles WSW	NW
T103	1 - 2 Miles ENE	SW
V104	1 - 2 Miles WNW	E
105	1 - 2 Miles NNW	N
V106	1 - 2 Miles WNW	NNE
107	1 - 2 Miles NNE	E
109	1 - 2 Miles NW	NW
111	1 - 2 Miles SSW	VARIES

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

GEOLOGIC AGE IDENTIFICATION

Geologic Code: M1
 Era: Paleozoic
 System: Mississippian
 Series: Osagean and Kinderhookian Series

ROCK STRATIGRAPHIC UNIT

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Amdt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: COLOMA

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information						
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)
	Upper	Lower		AASHTO Group	Unified Soil	
1	0 inches	4 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COURSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00
2	4 inches	39 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COURSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00
3	39 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COURSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sand
 loamy fine sand
 fine sand
 sandy loam
 fine sandy loam

Surficial Soil Types: sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

loamy fine sand
 fine sand
 sandy loam
 fine sandy loam

 Shallow Soil Types: sandy loam
 sandy clay loam

 Deeper Soil Types: fine sand
 sand
 loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	413945086153501	0 - 1/8 Mile West
2	413938086152501	1/8 - 1/4 Mile SSE
B3	413952086152201	1/8 - 1/4 Mile NNE
B4	413953086152001	1/8 - 1/4 Mile NE
C5	413952086154001	1/8 - 1/4 Mile NW
A6	413950086154201	1/8 - 1/4 Mile WNW
B7	413954086151901	1/8 - 1/4 Mile NE
D8	413939086151301	1/8 - 1/4 Mile ESE
D10	413940086151201	1/4 - 1/2 Mile ESE
B11	413955086151701	1/4 - 1/2 Mile NE
D13	413940086151001	1/4 - 1/2 Mile ESE
D14	413941086150901	1/4 - 1/2 Mile ESE
B15	413956086151601	1/4 - 1/2 Mile NE
B16	413959086152301	1/4 - 1/2 Mile NNE
E17	413953086151001	1/4 - 1/2 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D18	413942086150701	1/4 - 1/2 Mile East
F19	41400086152201	1/4 - 1/2 Mile NNE
E20	413957086151401	1/4 - 1/2 Mile NE
D21	413943086150601	1/4 - 1/2 Mile East
F22	414001086152001	1/4 - 1/2 Mile NNE
E23	413958086151301	1/4 - 1/2 Mile NE
F24	414001086151701	1/4 - 1/2 Mile NNE
F25	414002086151901	1/4 - 1/2 Mile NNE
E26	413959086151201	1/4 - 1/2 Mile NE
D27	413934086150601	1/4 - 1/2 Mile ESE
G28	413942086150201	1/4 - 1/2 Mile East
F29	414002086151601	1/4 - 1/2 Mile NNE
F30	414004086152301	1/4 - 1/2 Mile NNE
G31	413935086150401	1/4 - 1/2 Mile ESE
E32	414000086151001	1/4 - 1/2 Mile NE
F33	414003086151401	1/4 - 1/2 Mile NNE
H34	414001086150901	1/4 - 1/2 Mile NE
G35	413943086145901	1/4 - 1/2 Mile East
H36	414004086151301	1/4 - 1/2 Mile NNE
H37	414002086150701	1/4 - 1/2 Mile NE
H38	414005086151201	1/4 - 1/2 Mile NNE
H39	414000086150301	1/4 - 1/2 Mile NE
40	413952086160001	1/4 - 1/2 Mile WNW
H41	414003086150601	1/4 - 1/2 Mile NE
42	413926086155201	1/4 - 1/2 Mile SW
H44	414006086151001	1/4 - 1/2 Mile NNE
H45	414006086151002	1/4 - 1/2 Mile NNE
H46	414001086150201	1/4 - 1/2 Mile NE
H47	414004086150601	1/4 - 1/2 Mile NE
48	414011086152501	1/2 - 1 Mile North
H49	414007086150901	1/2 - 1 Mile NNE
H50	414007086150902	1/2 - 1 Mile NNE
51	413958086145701	1/2 - 1 Mile ENE
52	414010086154201	1/2 - 1 Mile NNW
H53	414002086150001	1/2 - 1 Mile NE
H54	414005086150401	1/2 - 1 Mile NE
I55	413923086150301	1/2 - 1 Mile SE
H56	414008086150701	1/2 - 1 Mile NE
I57	413921086150601	1/2 - 1 Mile SE
H58	414006086150301	1/2 - 1 Mile NE
I59	413922086150401	1/2 - 1 Mile SE
I60	413920086150701	1/2 - 1 Mile SE
J61	414009086150601	1/2 - 1 Mile NE
J62	414007086150201	1/2 - 1 Mile NE
63	413914086153201	1/2 - 1 Mile South
J64	414007086150001	1/2 - 1 Mile NE
K65	413915086151301	1/2 - 1 Mile SSE
66	413949086161001	1/2 - 1 Mile West
J67	414010086150401	1/2 - 1 Mile NE
K68	413914086151401	1/2 - 1 Mile SSE
J69	414008086145901	1/2 - 1 Mile NE
L71	414017086153901	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
M72	413939086161301	1/2 - 1 Mile West
L73	414018086153601	1/2 - 1 Mile North
L74	414018086153701	1/2 - 1 Mile North
N75	413925086160901	1/2 - 1 Mile WSW
77	413908086152501	1/2 - 1 Mile South
78	413915086145901	1/2 - 1 Mile SE
P79	414001086144301	1/2 - 1 Mile ENE
M80	413939086161901	1/2 - 1 Mile West
P81	414002086144201	1/2 - 1 Mile ENE
P82	414003086144001	1/2 - 1 Mile ENE
N83	413924086161901	1/2 - 1 Mile WSW
O84	414026086151201	1/2 - 1 Mile NNE
Q85	414025086150301	1/2 - 1 Mile NNE
86	414030086152201	1/2 - 1 Mile North
Q87	414026086150201	1/2 - 1 Mile NNE
88	414019086144601	1/2 - 1 Mile NE
R91	413900086150401	1/2 - 1 Mile SSE
R92	413859086150601	1/2 - 1 Mile SSE
S93	414031086151201	1/2 - 1 Mile NNE
94	413927086163001	1/2 - 1 Mile WSW
S95	414032086151001	1/2 - 1 Mile NNE
S96	414034086150901	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

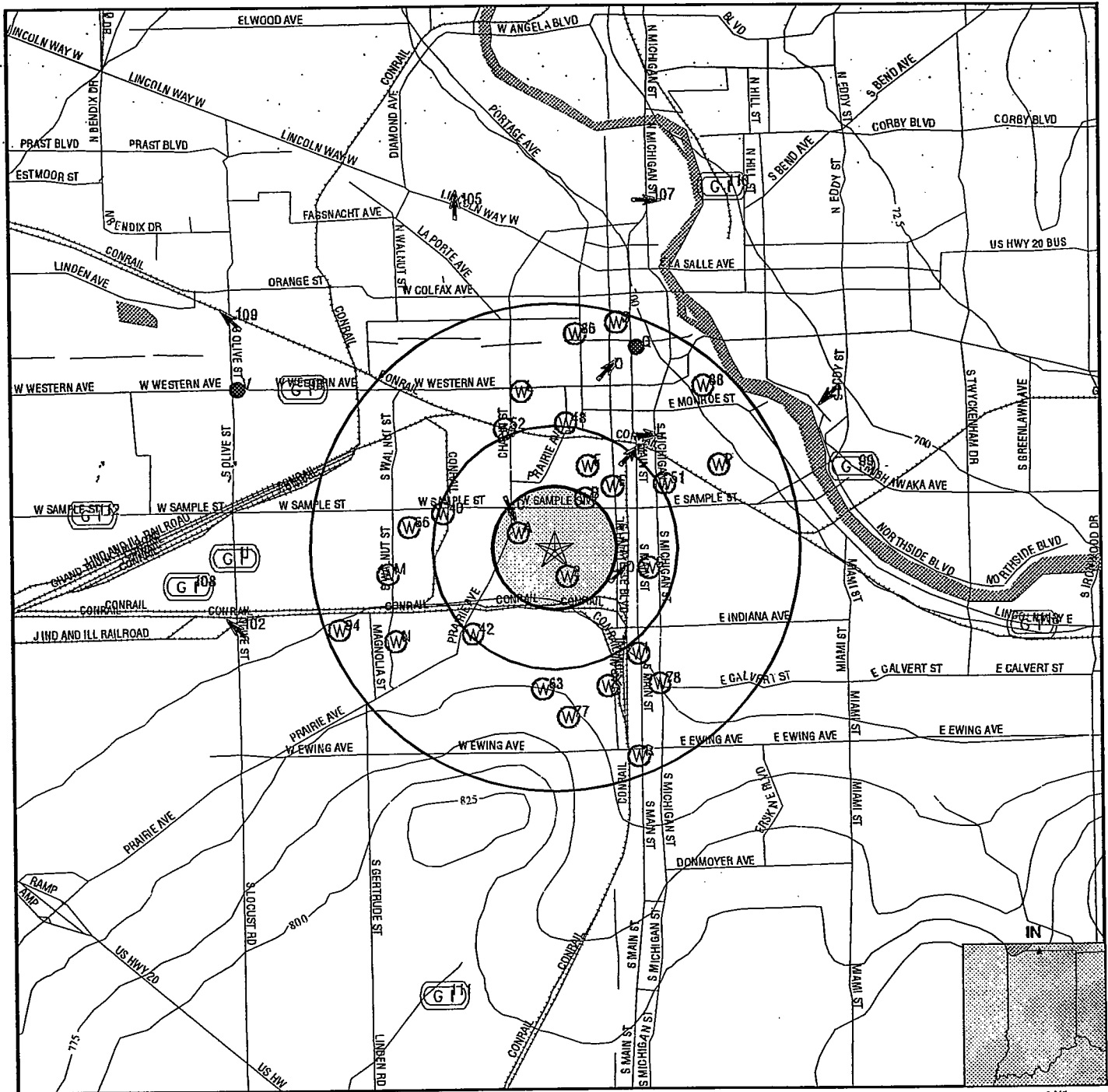
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Q89	C5220025	1/2 - 1 Mile NNE
Q90	C5220024	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 0562243.4r



- Major Roads
- Contour Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons

Earthquake epicenter, Richter 5 or greater



TARGET PROPERTY: South Bend Stamping, Et Al.
ADDRESS: 601 West Broadway
CITY/STATE/ZIP: South Bend IN 46601
LAT/LONG: 41.6623 / 86.2579

CUSTOMER: Hull & Associates, Inc.
CONTACT: Mike Coonfare
INQUIRY #: 0562243.4r
DATE: November 10, 2000 7:19 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A1 West 0 - 1/8 Mile Higher		FED USGS	413945086153501
BASIC WELL DATA			
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	718.00 ft.	State:	Indiana
Well Depth:	100.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported
<hr/>			
2 SSE 1/8 - 1/4 Mile Higher		FED USGS	413938086152501
BASIC WELL DATA			
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1926	County:	Scott
Altitude:	729.00 ft.	State:	Indiana
Well Depth:	58.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	31.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	05011926	Prim. Use of Water:	Industrial
<hr/>			
B3 NNE 1/8 - 1/4 Mile Higher		FED USGS	413952086152201
BASIC WELL DATA			
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1927	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	29.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011927	Prim. Use of Water:	Industrial
<hr/>			
B4 NE 1/8 - 1/4 Mile Higher		FED USGS	413953086152001
BASIC WELL DATA			
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	29.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	03191937	Prim. Use of Water:	Industrial

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
C5 NW 1/8 - 1/4 Mile Higher	FED USGS	413952086154001

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1944	County:	Scott
Altitude:	722.00 ft.	State:	Indiana
Well Depth:	70.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	26.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	06291944	Prim. Use of Water:	Not Reported

A6 WNW 1/8 - 1/4 Mile Higher	FED USGS	413950086154201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1900	County:	Scott
Altitude:	720.00 ft.	State:	Indiana
Well Depth:	79.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	28.00 ft.	Prim. Use of Site:	Unused
Date Measured:	01011900	Prim. Use of Water:	Unused

B7 NE 1/8 - 1/4 Mile Higher	FED USGS	413954086151901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	103.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

D8 ESE 1/8 - 1/4 Mile Higher	FED USGS	413939086151301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1926	County:	Scott
Altitude:	729.00 ft.	State:	Indiana
Well Depth:	58.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	34.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011926	Prim. Use of Water:	Industrial

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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C9 NW 1/4 - 1/2 Mile Higher	Site ID: 8332 Groundwater Flow: SSE Water Table Depth: 2.03-DRY Date: May-98	AQUIFLOW	4260
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D10 ESE 1/4 - 1/2 Mile Higher		FED USGS	413940086151201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	728.00 ft.	State:	Indiana
Well Depth:	82.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

B11 NE 1/4 - 1/2 Mile Higher		FED USGS	413955086151701
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	105.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

D12 SE 1/4 - 1/2 Mile Higher	Site ID: 18914 Groundwater Flow: NE Water Table Depth: 24.68-26.97 Date: Jul-94	AQUIFLOW	4287
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D13 ESE 1/4 - 1/2 Mile Higher		FED USGS	413940086151001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	730.00 ft.	State:	Indiana
Well Depth:	120.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
D14 ESE 1/4 - 1/2 Mile Higher	FED USGS	413941086150901

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	730.00 ft.	State:	Indiana
Well Depth:	76.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

B15 NE 1/4 - 1/2 Mile Higher	FED USGS	413956086151601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	67.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

B16 NNE 1/4 - 1/2 Mile Higher	FED USGS	413959086152301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	724.00 ft.	State:	Indiana
Well Depth:	72.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

E17 ENE 1/4 - 1/2 Mile Higher	FED USGS	413953086151001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	726.00 ft.	State:	Indiana
Well Depth:	102.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	01011925	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
D18 East 1/4 - 1/2 Mile Higher	FED USGS	413942086150701

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	728.00 ft.	State:	Indiana
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

F19 NNE 1/4 - 1/2 Mile Higher	FED USGS	414000086152201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1932	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	81.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	32.00 ft.	Prim. Use of Site:	Destroyed
Date Measured:	08011938	Prim. Use of Water:	Not Reported

E20 NE 1/4 - 1/2 Mile Higher	FED USGS	413957086151401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	90.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

D21 East 1/4 - 1/2 Mile Higher	FED USGS	413943086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	730.00 ft.	State:	Indiana
Well Depth:	60.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID		Database	EDR ID Number
Direction			
Distance			
Elevation			

F22 NNE 1/4 - 1/2 Mile Higher		FED USGS	414001086152001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	103.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

E23 NE 1/4 - 1/2 Mile Higher		FED USGS	413958086151301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	103.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

F24 NNE 1/4 - 1/2 Mile Higher		FED USGS	414001086151701
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1910	County:	Scott
Altitude:	724.00 ft.	State:	Indiana
Well Depth:	58.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	37.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011910	Prim. Use of Water:	Industrial

F25 NNE 1/4 - 1/2 Mile Higher		FED USGS	414002086151901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	103.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Not Reported
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
E26 NE 1/4 - 1/2 Mile Higher	FED USGS	413959086151201

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	83.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

D27 ESE 1/4 - 1/2 Mile Higher	FED USGS	413934086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Scott
Altitude:	733.00 ft.	State:	Indiana
Well Depth:	137.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Air conditioning

G28 East 1/4 - 1/2 Mile Higher	FED USGS	413942086150201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1935	County:	Scott
Altitude:	732.00 ft.	State:	Indiana
Well Depth:	58.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	36.00 ft.	Prim. Use of Site:	Oil or gas well
Date Measured:	01231935	Prim. Use of Water:	Not Reported

F29 NNE 1/4 - 1/2 Mile Higher	FED USGS	414002086151601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	97.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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F30 NNE 1/4 - 1/2 Mile Higher	FED USGS	414004086152301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	724.00 ft.	State:	Indiana
Well Depth:	63.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

G31 ESE 1/4 - 1/2 Mile Higher	FED USGS	413935086150401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1955	County:	Scott
Altitude:	733.00 ft.	State:	Indiana
Well Depth:	94.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	49.00 ft.	Prim. Use of Site:	Unused
Date Measured:	01201955	Prim. Use of Water:	Unused

E32 NE 1/4 - 1/2 Mile Higher	FED USGS	414000086151001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	2.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

F33 NNE 1/4 - 1/2 Mile Higher	FED USGS	414003086151401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	724.00 ft.	State:	Indiana
Well Depth:	90.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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H34 NE 1/4 - 1/2 Mile Higher	FED USGS	414001086150901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	93.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

G35 East 1/4 - 1/2 Mile Higher	FED USGS	413943086145901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Scott
Altitude:	732.00 ft.	State:	Indiana
Well Depth:	45.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	33.00 ft.	Prim. Use of Site:	Oil or gas well
Date Measured:	07011937	Prim. Use of Water:	Not Reported

H36 NNE 1/4 - 1/2 Mile Higher	FED USGS	414004086151301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	724.00 ft.	State:	Indiana
Well Depth:	90.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

H37 NE 1/4 - 1/2 Mile Higher	FED USGS	414002086150701
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	70.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID		Database	EDR ID Number
Direction			
Distance			
Elevation			

H38 NNE 1/4 - 1/2 Mile Higher		FED USGS	414005086151201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	63.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

H39 NE 1/4 - 1/2 Mile Higher		FED USGS	414000086150301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1932	County:	Scott
Altitude:	720.00 ft.	State:	Indiana
Well Depth:	60.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	36.00 ft.	Prim. Use of Site:	Unused
Date Measured:	01011932	Prim. Use of Water:	Unused

40 WNW 1/4 - 1/2 Mile Higher		FED USGS	413952086160001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Scott
Altitude:	719.00 ft.	State:	Indiana
Well Depth:	77.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	25.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011937	Prim. Use of Water:	Industrial

H41 NE 1/4 - 1/2 Mile Higher		FED USGS	414003086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

42 SW 1/4 - 1/2 Mile Higher	FED USGS	413926086155201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type			
Year Constructed:	1944	County:	Scott	
Altitude:	730.00 ft.	State:	Indiana	
Well Depth:	80.00 ft.	Topographic Setting:	Not Reported	
Depth to Water Table:	26.00 ft.	Prim. Use of Site:	Withdrawal of water	
Date Measured:	05021944	Prim. Use of Water:	Public supply	

H43 NE 1/4 - 1/2 Mile Higher		AQUIFLOW 4285
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Site ID:	18766		
Groundwater Flow:	NE		
Water Table Depth:	25.70-26.20		
Date:	Feb-94		

H44 NNE 1/4 - 1/2 Mile Higher	FED USGS	414006086151001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type			
Year Constructed:	Not Reported	County:	Scott	
Altitude:	724.00 ft.	State:	Indiana	
Well Depth:	100.00 ft.	Topographic Setting:	Not Reported	
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test	
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported	

H45 NNE 1/4 - 1/2 Mile Higher	FED USGS	414006086151002
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type			
Year Constructed:	1947	County:	Scott	
Altitude:	722.00 ft.	State:	Indiana	
Well Depth:	100.00 ft.	Topographic Setting:	Not Reported	
Depth to Water Table:	46.00 ft.	Prim. Use of Site:	Destroyed	
Date Measured:	03011947	Prim. Use of Water:	Not Reported	

H46 NE 1/4 - 1/2 Mile Higher	FED USGS	414001086150201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type			
Year Constructed:	1938	County:	Scott	
Altitude:	728.00 ft.	State:	Indiana	
Well Depth:	73.00 ft.	Topographic Setting:	Not Reported	
Depth to Water Table:	37.00 ft.	Prim. Use of Site:	Unused	
Date Measured:	02241938	Prim. Use of Water:	Unused	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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H47 NE 1/4 - 1/2 Mile Higher	FED USGS	414004086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	728.00 ft.	State:	Indiana
Well Depth:	70.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

48 North 1/2 - 1 Mile Higher	FED USGS	414011086152501
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1929	County:	Scott
Altitude:	720.00 ft.	State:	Indiana
Well Depth:	64.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Destroyed
Date Measured:	03211929	Prim. Use of Water:	Not Reported

H49 NNE 1/2 - 1 Mile Higher	FED USGS	414007086150901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	96.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

H50 NNE 1/2 - 1 Mile Higher	FED USGS	414007086150902
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1953	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	95.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	42.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	08311953	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
51	ENE	1/2 - 1 Mile	Higher	FED USGS	413958086145701

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	726.00 ft.	State:	Indiana
Well Depth:	81.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Oil or gas well
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

52	NNW	1/2 - 1 Mile	Higher	FED USGS	414010086154201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1944	County:	Scott
Altitude:	718.00 ft.	State:	Indiana
Well Depth:	44.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Oil or gas well
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

H53	NE	1/2 - 1 Mile	Higher	FED USGS	414002086150001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1945	County:	Scott
Altitude:	728.00 ft.	State:	Indiana
Well Depth:	74.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	39.00 ft.	Prim. Use of Site:	Destroyed
Date Measured:	06151945	Prim. Use of Water:	Not Reported

H54	NE	1/2 - 1 Mile	Higher	FED USGS	414005086150401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	728.00 ft.	State:	Indiana
Well Depth:	65.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID		Database	EDR ID Number
Direction			
Distance			
Elevation			

I55 SE 1/2 - 1 Mile Higher		FED USGS	413923086150301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Scott
Year Constructed:	1948	State:	Indiana
Altitude:	750.00 ft.	Topographic Setting:	Not Reported
Well Depth:	80.00 ft.	Prim. Use of Site:	Unused
Depth to Water Table:	40.00 ft.	Prim. Use of Water:	Unused
Date Measured:	10301948		

H56 NE 1/2 - 1 Mile Higher		FED USGS	414008086150701
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Scott
Year Constructed:	Not Reported	State:	Indiana
Altitude:	725.00 ft.	Topographic Setting:	Not Reported
Well Depth:	100.00 ft.	Prim. Use of Site:	Test
Depth to Water Table:	Not Reported	Prim. Use of Water:	Not Reported
Date Measured:	Not Reported		

I57 SE 1/2 - 1 Mile Higher		FED USGS	413921086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Scott
Year Constructed:	1938	State:	Indiana
Altitude:	742.00 ft.	Topographic Setting:	Not Reported
Well Depth:	76.00 ft.	Prim. Use of Site:	Unused
Depth to Water Table:	40.00 ft.	Prim. Use of Water:	Unused
Date Measured:	03011938		

H58 NE 1/2 - 1 Mile Higher		FED USGS	414006086150301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type	County:	Scott
Year Constructed:	Not Reported	State:	Indiana
Altitude:	727.00 ft.	Topographic Setting:	Not Reported
Well Depth:	115.00 ft.	Prim. Use of Site:	Test
Depth to Water Table:	Not Reported	Prim. Use of Water:	Not Reported
Date Measured:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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I59 SE 1/2 - 1 Mile Higher	FED USGS	413922086150401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1927	County:	Scott
Altitude:	750.00 ft.	State:	Indiana
Well Depth:	77.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	32.00 ft.	Prim. Use of Site:	Unused
Date Measured:	02011927	Prim. Use of Water:	Unused

I60 SE 1/2 - 1 Mile Higher	FED USGS	413920086150701
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	742.00 ft.	State:	Indiana
Well Depth:	58.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Unused
Date Measured:	Not Reported	Prim. Use of Water:	Unused

J61 NE 1/2 - 1 Mile Higher	FED USGS	414009086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	724.00 ft.	State:	Indiana
Well Depth:	63.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

J62 NE 1/2 - 1 Mile Higher	FED USGS	414007086150201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	63.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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63 South 1/2 - 1 Mile Higher	FED USGS	413914086153201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1911	County:	Sullivan
Altitude:	765.00 ft.	State:	Indiana
Well Depth:	182.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	29.00 ft.	Prim. Use of Site:	Test
Date Measured:	01011911	Prim. Use of Water:	Not Reported

J64 NE 1/2 - 1 Mile Higher	FED USGS	414007086150001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	63.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

K65 SSE 1/2 - 1 Mile Higher	FED USGS	413915086151301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1951	County:	Scott
Altitude:	767.00 ft.	State:	Indiana
Well Depth:	94.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	55.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	12311951	Prim. Use of Water:	Industrial

66 West 1/2 - 1 Mile Higher	FED USGS	413949086161001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1924	County:	Scott
Altitude:	719.00 ft.	State:	Indiana
Well Depth:	100.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	24.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011924	Prim. Use of Water:	Industrial

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
J67 NE 1/2 - 1 Mile Higher	FED USGS	414010086150401

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Scott
Altitude:	725.00 ft.	State:	Indiana
Well Depth:	94.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	36.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	03031941	Prim. Use of Water:	Industrial

K68 SSE 1/2 - 1 Mile Higher	FED USGS	413914086151401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1975	County:	Scott
Altitude:	767.00 ft.	State:	Indiana
Well Depth:	93.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Unused
Date Measured:	Not Reported	Prim. Use of Water:	Unused

J69 NE 1/2 - 1 Mile Higher	FED USGS	414008086145901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	727.00 ft.	State:	Indiana
Well Depth:	70.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

J70 NE 1/2 - 1 Mile Higher	Site ID: 18839 Groundwater Flow: E Water Table Depth: 7.90-10.71 Date: Nov-95	AQUIFLOW	4286
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L71 NNW 1/2 - 1 Mile Higher	FED USGS	414017086153901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1906	County:	Scott
Altitude:	718.00 ft.	State:	Indiana
Well Depth:	28.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	10.00 ft.	Prim. Use of Site:	Unused
Date Measured:	01011906	Prim. Use of Water:	Unused

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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M72 West 1/2 - 1 Mile Higher	FED USGS	413939086161301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1910	County:	Scott
Altitude:	720.00 ft.	State:	Indiana
Well Depth:	72.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	18.00 ft.	Prim. Use of Site:	Oil or gas well
Date Measured:	01011910	Prim. Use of Water:	Not Reported

L73 North 1/2 - 1 Mile Higher	FED USGS	414018086153601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1945	County:	Scott
Altitude:	718.00 ft.	State:	Indiana
Well Depth:	96.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	03241945	Prim. Use of Water:	Industrial

L74 North 1/2 - 1 Mile Higher	FED USGS	414018086153701
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1944	County:	Scott
Altitude:	718.00 ft.	State:	Indiana
Well Depth:	125.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	25.00 ft.	Prim. Use of Site:	Test
Date Measured:	10271944	Prim. Use of Water:	Not Reported

N75 WSW 1/2 - 1 Mile Higher	FED USGS	413925086160901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1921	County:	Scott
Altitude:	723.00 ft.	State:	Indiana
Well Depth:	132.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	12.00 ft.	Prim. Use of Site:	Test
Date Measured:	01011921	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
O76 NNE 1/2 - 1 Mile Higher	Site ID: 16396 Groundwater Flow: NE Water Table Depth: 15-DRY Date: Mar-89		AQUIFLOW	4276

77 South 1/2 - 1 Mile Higher			FED USGS	413908086152501
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1926	County:	Scott
Altitude:	768.00 ft.	State:	Indiana
Well Depth:	155.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Test
Date Measured:	09171926	Prim. Use of Water:	Not Reported

78 SE 1/2 - 1 Mile Higher			FED USGS	413915086145901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1939	County:	Scott
Altitude:	744.00 ft.	State:	Indiana
Well Depth:	103.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	28.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06301939	Prim. Use of Water:	Industrial

P79 ENE 1/2 - 1 Mile Lower			FED USGS	414001086144301
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Scott
Altitude:	726.00 ft.	State:	Indiana
Well Depth:	97.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	38.00 ft.	Prim. Use of Site:	Test
Date Measured:	12111941	Prim. Use of Water:	Not Reported

M80 West 1/2 - 1 Mile Higher			FED USGS	413939086161901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Scott
Altitude:	717.00 ft.	State:	Indiana
Well Depth:	86.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	17.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	10221941	Prim. Use of Water:	Industrial

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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P81 ENE 1/2 - 1 Mile Lower	FED USGS	414002086144201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Scott
Altitude:	726.00 ft.	State:	Indiana
Well Depth:	95.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	42.00 ft.	Prim. Use of Site:	Destroyed
Date Measured:	12311941	Prim. Use of Water:	Not Reported

P82 ENE 1/2 - 1 Mile Lower	FED USGS	414003086144001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1947	County:	Scott
Altitude:	726.00 ft.	State:	Indiana
Well Depth:	97.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	42.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	04241947	Prim. Use of Water:	Industrial

N83 WSW 1/2 - 1 Mile Higher	FED USGS	413924086161901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	722.00 ft.	State:	Indiana
Well Depth:	135.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Institution

O84 NNE 1/2 - 1 Mile Higher	FED USGS	414026086151201
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1953	County:	Scott
Altitude:	712.00 ft.	State:	Indiana
Well Depth:	64.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	33.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	12301953	Prim. Use of Water:	Industrial

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

Q85
NNE
1/2 - 1 Mile
Lower

FED USGS 414025086150301

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1939	County:	Scott
Altitude:	709.00 ft.	State:	Indiana
Well Depth:	99.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	09231939	Prim. Use of Water:	Public supply

86
North
1/2 - 1 Mile
Higher

FED USGS 414030086152201

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1948	County:	Scott
Altitude:	720.00 ft.	State:	Indiana
Well Depth:	75.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	36.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06091948	Prim. Use of Water:	Industrial

Q87
NNE
1/2 - 1 Mile
Lower

FED USGS 414026086150201

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Scott
Altitude:	708.00 ft.	State:	Indiana
Well Depth:	160.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

88
NE
1/2 - 1 Mile
Lower

FED USGS 414019086144601

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1929	County:	Scott
Altitude:	711.00 ft.	State:	Indiana
Well Depth:	121.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	30.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	08171929	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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Q89 NNE 1/2 - 1 Mile Lower	IN WELLS	C5220025
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Pub. Water Supply ID:	5220025	Type:	Community Well
Source Type:	Purchased	Population:	250
System Name:	SUBURBAN UTIL/RIVERLAND 205 W. JEFFERSON BLVD., SOUTH BEND, IN 46601		
Operator:	MARTY SMITH		
Operator's Phone:	(219)232-9154	County:	ST JOSEPH

Q90 NNE 1/2 - 1 Mile Lower	IN WELLS	C5220024
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Pub. Water Supply ID:	5220024	Type:	Community Well
Source Type:	Purchased	Population:	960
System Name:	SUBURBAN UTILITIES-EL PACO 205 JEFFERSON BLVD. #414 SOUTH BEND, IN 46601		
Operator:	MARTY SMITH		
Operator's Phone:	(219)232-9154	County:	ST JOSEPH

R91 SSE 1/2 - 1 Mile Higher	FED USGS	413900086150401
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1926	County:	Scott
Altitude:	759.00 ft.	State:	Indiana
Well Depth:	205.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

R92 SSE 1/2 - 1 Mile Higher	FED USGS	413859086150601
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1926	County:	Scott
Altitude:	759.00 ft.	State:	Indiana
Well Depth:	205.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	27.00 ft.	Prim. Use of Site:	Test
Date Measured:	08241926	Prim. Use of Water:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
S93 NNE 1/2 - 1 Mile Lower	FED USGS	414031086151201

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	709.00 ft.	State:	Indiana
Well Depth:	73.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	22.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	08131954	Prim. Use of Water:	Not Reported

94 WSW 1/2 - 1 Mile Higher	FED USGS	413927086163001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Scott
Altitude:	720.00 ft.	State:	Indiana
Well Depth:	80.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Test
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

S95 NNE 1/2 - 1 Mile Lower	FED USGS	414032086151001
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1954	County:	Scott
Altitude:	709.00 ft.	State:	Indiana
Well Depth:	55.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	28.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	08201954	Prim. Use of Water:	Not Reported

S96 NNE 1/2 - 1 Mile Lower	FED USGS	414034086150901
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BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Scott
Altitude:	708.00 ft.	State:	Indiana
Well Depth:	140.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	36.00 ft.	Prim. Use of Site:	Unused
Date Measured:	09251937	Prim. Use of Water:	Unused

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map-ID Direction Distance Elevation		Site ID:	Database	EDR ID Number
T97 ENE 1 - 2 Miles Lower	Groundwater Flow:	18352 SW	AQUIFLOW	4283
	Water Table Depth:	20-21		
	Date:	Nov-93		
98 WNW 1 - 2 Miles Higher	Groundwater Flow:	7265 FLAT	AQUIFLOW	4256
	Water Table Depth:	13.91-14.76		
	Date:	Apr-96		
99 ENE 1 - 2 Miles Lower	Groundwater Flow:	5678 NOT REPORTED	AQUIFLOW	4251
	Water Table Depth:	AVG 9.0		
	Date:	Nov-95		
U100 West 1 - 2 Miles Higher	Groundwater Flow:	17831 NOT REPORTED	AQUIFLOW	4281
	Water Table Depth:	16-20		
	Date:	Jun-91		
U101 West 1 - 2 Miles Higher	Groundwater Flow:	8210 NOT REPORTED	AQUIFLOW	4259
	Water Table Depth:	11-12		
	Date:	Sep-96		
102 WSW 1 - 2 Miles Higher	Groundwater Flow:	5913 NW	AQUIFLOW	4252
	Water Table Depth:	9.41-10.11		
	Date:	Apr-96		
T103 ENE 1 - 2 Miles Lower	Groundwater Flow:	17157 SW	AQUIFLOW	4279
	Water Table Depth:	16.61-16.74		
	Date:	Jul-92		
V104 WNW 1 - 2 Miles Higher	Groundwater Flow:	10551 E	AQUIFLOW	4263
	Water Table Depth:	AVG 13.5		
	Date:	Apr-90		
105 NNW 1 - 2 Miles Lower	Groundwater Flow:	16907 N	AQUIFLOW	4278
	Water Table Depth:	11.02-14.79		
	Date:	Oct-90		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
V106 WNW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	121 NNE NOT REPORTED Nov-70	AQUIFLOW	4224
107 NNE 1 - 2 Miles Lower	Site ID: Groundwater Flow: Water Table Depth: Date:	17284 E NOT REPORTED Nov-96	AQUIFLOW	4280
108 West 1 - 2 Miles Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	319 NOT REPORTED 16.0-20.0 Jun-91	AQUIFLOW	4227
109 NW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	18437 NW 13.49-14.04 Oct-96	AQUIFLOW	4284
110 NNE 1 - 2 Miles Lower	Site ID: Groundwater Flow: Water Table Depth: Date:	7414 NOT REPORTED 20-30 Feb-91	AQUIFLOW	4257
111 SSW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	11228 VARIES 11.86-21.59 Aug-90	AQUIFLOW	4265
112 West 1 - 2 Miles Higher	Site ID: Groundwater Flow: Water Table Depth: Date:	15906 NOT REPORTED 2.96-14.2 Oct-94	AQUIFLOW	4274
113 East 1 - 2 Miles Lower	Site ID: Groundwater Flow: Water Table Depth: Date:	1347 NOT REPORTED 20.1-20.82 Dec-91	AQUIFLOW	4235

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for ST JOSEPH County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Zip Code: 46601

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.400 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Indiana Community and Non-Community Wells

Source: Department of Environmental Management
Telephone: 317-232-8476

RADON

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX K

FOIA Requests and Responses



Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

Mr. Tony Molnar
St. Joe County Health Department
227 W. Jefferson
9th Floor
South Bend, IN 46601

Re: Request for Information Concerning Spills or Releases Involving Petroleum, Toxic, or Hazardous Substances: SBI002.300.0004.DOC.

Dear Mr. Molnar:

Hull & Associates, Inc. is requesting a copy of the Health Department's files for the properties located at the addresses below:


Former Studebaker Manufacturing Area:

- 1100 Prairie Ave. # 1, Underground Pipe and Valve Incorporated, South Bend, IN 46601
- 1010 Prairie Ave., Huckins Tool & Die Corp., South Bend, IN 46601
- 400 W. Sample St., South Bend Lathe, South Bend, IN 46601
- 601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have enclosed a map of the area of interest for your use. If needed, please reference the following purchase order number for billing purposes: SBI002.

If you have any questions, please contact me at (614) 793-8777. Thank you for your assistance.

Sincerely,


Jane E. Makowski
Environmental Scientist

cc: file
Mr. Mike Coonfare, Hull & Associates, Inc.
Mr. Lance Turley, Hull & Associates, Inc.

Enclosure





Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

Ms. Jeanne Mahoney
Emergency Management Agency
4714 Lathrop Street
South Bend, IN 46628

Re: Request for Information Concerning Spills or Releases Involving Petroleum, Toxic, or Hazardous Substances: SBI002.300.0003.DOC.

Dear Ms. Mahoney:

Hull & Associates, Inc. is requesting a copy of the Emergency Management Agency's files for the properties located at the addresses below:

Former Studebaker Manufacturing Area:

1100 Prairie Ave. # 1, Underground Pipe and Valve Incorporated, South Bend, IN 46601
1010 Prairie Ave., Huckins Tool & Die Corp., South Bend, IN 46601
400 W. Sample St., South Bend Lathe, South Bend, IN 46601
601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have enclosed a map of the area of interest for your use. If needed, please reference the following purchase order number for billing purposes: SBI002.

If you have any questions, please contact me at (614) 793-8777. Thank you for your assistance.

Sincerely,

Jane E. Makowski
Environmental Scientist

cc: file
Mr. Mike Coonfare, Hull & Associates, Inc.
Mr. Lance Turley, Hull & Associates, Inc.

Enclosure





Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

Chief Jim Lopez
South Bend Fire Department
701 W. Sample Street
South Bend, IN 46601

RE: Request for File Search of Hazmat Responses for Properties located in South Bend, IN:
SBI002.300.0002.DOC.

Dear Chief Lopez:

Hull & Associates, Inc. is requesting a copy of all historic hazardous material responses on file for the addresses below:

Former Studebaker Manufacturing Area:

1100 Prairie Ave. # 1, Underground Pipe and Valve Incorporated, South Bend, IN 46601
1010 Prairie Ave., Huckins Tool & Die Corp., South Bend, IN 46601
400 W. Sample St., South Bend Lathe, South Bend, IN 46601
601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have enclosed a map of the area of interest for your use. If needed, please reference the following purchase order number for billing purposes: SBI002.

If you have questions, please contact me at (614) 793-8777. Thank you in advance for your assistance.

Sincerely,

Jane E. Makowski
Environmental Scientist

cc: file
Mr. Mike Coonfare, Hull & Associates, Inc.
Mr. Lance Turley, Hull & Associates, Inc.

Enclosure





Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

Chief Burt Praywatt
South Bend Fire Department
701 W. Sample Street
South Bend, IN 46601

RE: Request for File Search of Fire and Tanks for Properties located in South Bend,
IN: SBI002.300.0001.DOC.

Dear Chief Lopez:

Hull & Associates, Inc. is requesting a copy of all historic fire and tanks on file for the addresses below:

Former Studebaker Manufacturing Area:

1100 Prairie Ave. # 1, Underground Pipe and Valve Incorporated, South Bend, IN 46601
1010 Prairie Ave., Huckins Tool & Die Corp., South Bend, IN 46601
400 W. Sample St., South Bend Lathe, South Bend, IN 46601
601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have enclosed a map of the area of interest for your use. If needed, please reference the following purchase order number for billing purposes: SBI002.

If you have questions, please contact me at (614) 793-8777. Thank you in advance for your assistance.

Sincerely,

Jane E. Makowski
Environmental Scientist

cc: file
Mr. Mike Coonfare, Hull & Associates, Inc.
Mr. Lance Turley, Hull & Associates, Inc.

Enclosure





Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

Ms. Glenda Oaks
IDEM
Department of Environmental Management
Office of Land Quality
100 N. Senate
P.O. Box 6015
Indianapolis, IN 46206

Re: Request for Information Concerning RCRA Notifiers, Indiana Spills Database, TRI information, and SARA information: SBI002.300.0006.DOC.

Dear Ms. Oaks:

I would like to obtain any information that the Office of Land Quality has for the referenced sites. I am searching for RCRA notifiers within the St. Joe County, and a listing of the current Indiana Spill's database for St. Joe County. I am also searching for TRI information regarding chemical storage, spills, unauthorized discharges, or other environmental problems at the referenced sites. Finally, I am searching for SARA information regarding spills, unauthorized discharges, or other environmental problems at the stated addresses:

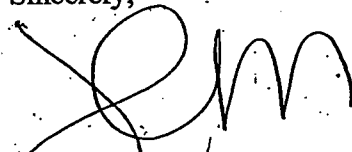
Former Studebaker Manufacturing Area:

1100 Prairie Ave. # 1, Underground Pipe and Valve Incorporated, South Bend, IN 46601
1010 Prairie Ave., Huckins Tool & Die Corp., South Bend, IN 46601
400 W. Sample St., South Bend Lathe, South Bend, IN 46601
601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have enclosed a map of the area of interest for your use. If needed, please reference the following purchase order number for billing purposes: SBI002.

If you have any questions, please contact me at (614) 793-8777. Thank you for your assistance.

Sincerely,



Jane E. Makowski
Environmental Scientist

ct: / file
Mr. Mike Coonfare, Hull & Associates, Inc.





INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live

Frank O'Bannon
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.state.in.us/idem

December 6, 2000

Hull & Associates
6130 Wilcox Road
Dublin, OH 43016
ATTN: Jane Makowski

Dear Ms. Jane Makowski:

Re: File Information

On December 4, 2000 I received your FAX dated November 30, 2000 requesting File Document information on:

Studebaker Manufacturing Area
1100 Prairie Ave.
1010 Prairie Ave.
400 W. Sample St.
601 W. Broadway St.
South Bend, IN

My records show the only thing in South Bend Indiana on your list is (this includes all areas sited) a Voluntary Remediation Program Site. The number is VRP6950501, the Name is Allied Products, and the Project Manager is Ed Joniskan at 317.234.0967.

These files are available for your inspection and copying during normal business hours in IDEM's Centralized Public File Room located in Suite 1201 of the Indiana Government Center North, 100 North Senate Avenue, Indianapolis, IN. The telephone number at the file room is (317) 234-0965.

Please call me if you require more information, 317.233.0448.

Patricia A. McArtor,
Administrative Assistant

Remediation Services Branch
Office of Land Quality



Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

FOIA Officer
USEPA Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590

RE: Request for Information Concerning Locations of CERCLIS Sites, RCRA Notifiers and TRIS Facilities in St. Joe County, Indiana: SBI002.300.0005.DOC.

To Whom It May Concern:

Please send me a listing of CERCLIS sites, RCRA notifiers and TRIS facilities that are located in St. Joe County, Indiana. If possible, I would appreciate a listing sorted by zip code. If needed, please use the following purchase order number for billing purposes: SBI002.

If you have any questions, please contact me at (614) 793-8777. Thank you for your assistance.

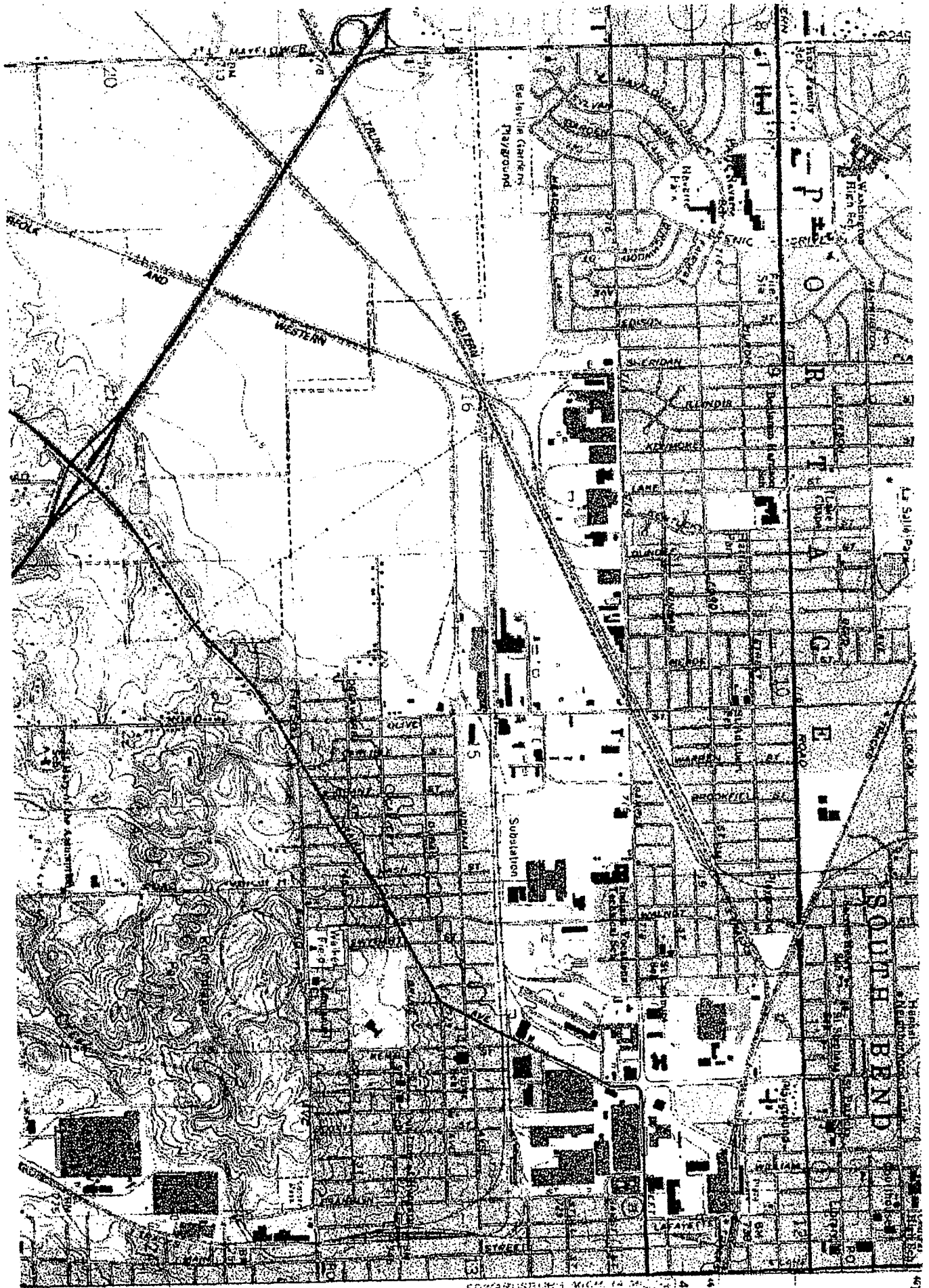
Sincerely,



Jane E. Makowski
Environmental Scientist

cc: file
Mr. Mike Coonfare, Hull & Associates, Inc.
Mr. Lance Turley, Hull & Associates, Inc.





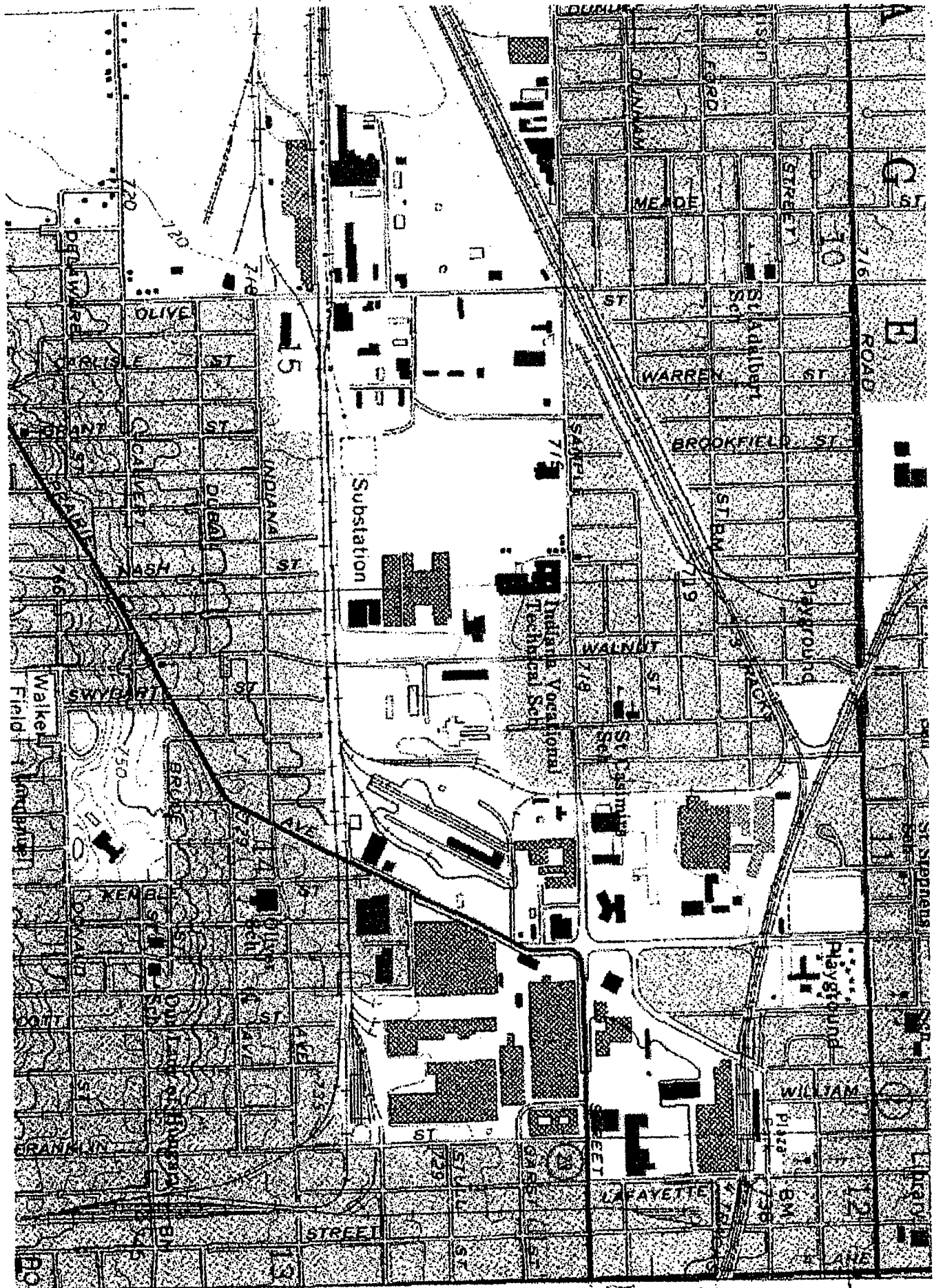
4910

4911

EDWARDS PUBL. CO. WASH. D.C.

4913

4914



EDWARDSBURG, MICH 14 MI.

40°
33'
493



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/28/00
 CLIENT: City of South Bend MEETING: _____
 PROJECT: SB1002 Phase I PHONE: 219-235-9091
EIA Research CONVERSATION: Aerial Photos
County Archives
 IN ATTENDANCE: Jane Makowski
Vicki

TOPIC/DISCUSSION:

I asked if The County Archives had any information on the Area A in the Studebaker Corridor. Vicki stated that she thought there might be some aerials from the 1940s. Vicki has to leave early today. So call either her or Katrina back tomorrow morning and she will check.

ACTION REQUIRED:

1. Call back Vicki 11/29/00 morning
2. no formal request needed
3. _____
4. _____
5. _____

EM



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/28/00
 MEETING: _____
 CLIENT: City of South Bend
 PROJECT: SB1002 Phase I
FOIA Research PHONE: 219-235-9251
 CONVERSATION: Utility Maps
Public Works

IN ATTENDANCE: Jane Makowski
Tony Molnar

TOPIC/DISCUSSION:

I asked if the Public Works had any Utility Maps of the Studebaker Area A buildings. Tony stated that they did and he would call back with the price for getting me copies.

ACTION REQUIRED:

1. Wait for Tony's call back
2. no formal request needed
3. _____
4. _____
5. _____

JM



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/28/00
 CLIENT: City of South Bend
 MEETING: _____
 PROJECT: SB1002 Phase I
 PHONE: 219-235-9255
FOIA Research CONVERSATION: Hazmat Response, ta
Historical Fires
S.B Fire Dept.
 IN ATTENDANCE: Jane Malowski
Chief Jim Lopez

TOPIC/DISCUSSION:

I asked if South Bend Fire Department had any knowledge of Tanks, Historical Fires, or Hazmat Responses for the Area A of the Studebaker Corridor. Chief Lopez stated that he was a contact for Hazmat Responses and Chief Burt Praywatt was the contact for Tanks and Historical fires. I should send a formal letter to both gentlemen

South Bend Fire Department
 701 W. Sample Street
 South Bend, IN 46601

ACTION REQUIRED:

1. formal request to Chief Lopez
2. formal request to Chief Praywatt.
3. _____
4. _____
5. _____

SM



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/28/00
 MEETING: _____
 CLIENT: City of South Bend
 PROJECT: SB1002 Phase I
FOIA Research PHONE: 219-235-9721
 CONVERSATION: Releases of wastes
County Health depart.

IN ATTENDANCE: Jane Makowski
Shannon Franklin

TOPIC/DISCUSSION:

I asked if St. Joe Health Department had any knowledge of Hazardous or Toxic releases in the Area A of the Studebaker Corridor. He said that I should send a request to Tony Maruso, Interim Environmental Health Director, St. Joe Health Dept, 227 W. Jefferson, SB, IN 46601, 9th Floor.
 Also Shannon said that there isn't a City Health Department. And that I should try the State Health Department, 317-233-7117

ACTION REQUIRED:

1. Formal Request needed
2. _____
3. _____
4. _____
5. _____

SM



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/29/00

CLIENT: City of SouthBend MEETING: _____

PROJECT: SB1002 Phase I PHONE: 317-233-7177

FOIA Research CONVERSATION: Releases of Wastes
Indiana Health Dept

IN ATTENDANCE: Jane Makowski
Catherine

TOPIC/DISCUSSION:

I asked if the Indiana Health Dept.
had any files pertaining to Hazardous or
Toxic releases in the Area A of the Studebaker
Corridor. Catherine said that they
didn't have those files and to contact
IDEM's office
Hazardous Materials (317) 232-41
Compliance (317) 232-8892

ACTION REQUIRED:

1. _____
2. _____
3. _____
4. _____
5. _____

JM



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/29/00

CLIENT: City of South Bend MEETING: _____

PROJECT: SBI 003 Phase I PHONE: 219-235-9234

TOIA Research CONVERSATION: Releases of Toxic or Hazardous Substances

IN ATTENDANCE: Jane Makowski Emergency Management Agency
Jeanne Mahoney _____

TOPIC/DISCUSSION:

I asked if the Emergency Management Agency had any record of Releases at the Studebaker Corridor, Area A. Jeanne stated that their information wouldn't go as far back as Studebaker but she might give me an idea of current properties. Send her a list of addresses. We can fax if we like

ACTION REQUIRED:

1. Send formal request
2. Fax # 219-235-9779
3. _____
4. _____
5. _____



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 11/29/00

CLIENT: City of South Bend
 MEETING: _____
 PROJECT: SB1002 Phase I
 PHONE: 317-233-1052
FOIA Research CONVERSATION: IDEM FOIA Search

IN ATTENDANCE: Jane Makowski Dept. Enviro. Mgmt.
Cindy Office of Land Quality
_____ Hazardous Waste
_____ Permit Secti

TOPIC/DISCUSSION:

Glenda Oaks, FOIA officer, wasn't in
today so I spoke w/ Cindy. Cindy stated
that I should fax a letter and list
what info I need & Glenda should
get back to me. Information needed
DERR - Spills in St. Joe County, RCRA notifier
SARA Community Right-to-Know, & TRI Search
If Glenda's department doesn't do it she
can direct me to another Department

Ms Glenda Oaks
Office of Land Quality
Department of Environmental Management
100 N. Senate
P.O. Box 6015
Indianapolis IN 46206

ACTION REQUIRED:

1. Send formal request
2. Fax # 317 232-3403
3. _____
4. _____
5. _____



Hull & Associates, Inc.



6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070
www.hullinc.com

November 29, 2000

Mr. Tony Mancuso
St. Joe County Health Department
227 W. Jefferson
9th Floor
South Bend, IN 46601

Re: Request for Information Concerning Spills or Releases Involving Petroleum, Toxic, or Hazardous Substances: SBI002.300.0004.DOC.

Dear Mr. Mancuso:

Hull & Associates, Inc. is requesting a copy of the Health Department's files for the properties located at the addresses below:

Former Studebaker Manufacturing Area:

1100 Prairie Ave. # 1, Underground Pipe and Valve Incorporated, South Bend, IN 46601
1010 Prairie Ave., Huckins Tool & Die Corp., South Bend, IN 46601
400 W. Sample St., South Bend Lathe, South Bend, IN 46601
601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have enclosed a map of the area of interest for your use. If needed, please reference the following purchase order number for billing purposes: SBI002.

If you have any questions, please contact me at (614) 793-8777. Thank you for your assistance.

Sincerely,

Jane E. Makowski
Environmental Scientist

cc: file
Mr. Mike Coonfare, Hull & Associates, Inc.
Mr. Lance Turley, Hull & Associates, Inc.

Enclosure





Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

DATE: 12-1-00
 CLIENT: City of South Bend MEETING: _____
 PROJECT: SB1002 Phase I PHONE: 317-233-1052
FOIA Research CONVERSATION: ITEM FOIA Search

IN ATTENDANCE: Jane Makowski _____
Glenda Oaks _____

TOPIC/DISCUSSION:

Glenda Recieved my fax &
is going to forward my letter to the
appropriate departments & we should
relieve info back soon:

ACTION REQUIRED:

1. _____
2. _____
3. _____
4. _____
5. _____

JEM



Hull & Associates, Inc.
 6130 Wilcox Road
 Dublin, Ohio 43016
 Telephone (614) 793-8777
 Fax (614) 793-9070

FILE MEMO
 HULL & ASSOCIATES, INC.

CLIENT: City of South Bend
 PROJECT: SB1002 Phase I
FOIA Research
 DATE: 12/1/00
 MEETING: _____
 PHONE: 219-235-9251
 CONVERSATION: Utility Maps
Public Works

IN ATTENDANCE:

Jane Makowski
Tony Molnar

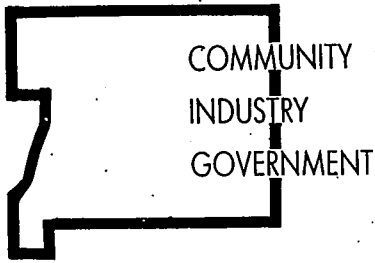
TOPIC/DISCUSSION:

I asked if he had gotten a price
on the water & sewer maps for me
yet and he said no. He was going to
check w/ the city and get back to me!

ACTION REQUIRED:

1. _____
2. _____
3. _____
4. _____
5. _____

JM



ST. JOSEPH COUNTY
LOCAL EMERGENCY PLANNING COMMITTEE
4714 LATHROP ST.
SOUTH BEND, INDIANA 46628
PHONE: 235-9234 FAX: 235-9779

December 5, 2000

Hull & Associates
6130 Wilcox Rd.
Dublin, OH 46016
Attn: Jane E. Makowski

Dear Jane:

I have received your request for information concerning spills or releases involving petroleum, toxic or hazardous substances for the following properties:

1100 Prairie Ave. #1 Underground Pipe and Valve Incorporated South Bend, IN 46601
1010 Prairie Ave., Huckins Tool & die Corp., South Bend, IN 46601
400 W. Sample St., South Bend Lathe, South Bend, IN 46601
601 W. Broadway St., South Bend Stamping, South Bend, IN 46601

I have reviewed our spill records and Tier 2 reports and found the enclosed information. The only information found was on South Bend Lathe. No other records of spills or stored chemicals were found on the other properties. We have no spill reports for South Bend Lathe, only the enclosed Tier 2 report.

If you have any questions, please feel free to call or write with your request.

Sincerely,

A handwritten signature in black ink that reads "Jeanne Mahoney". The signature is written in a cursive, flowing style.

Jeanne Mahoney,
Secretary, St. Joseph County Local Emergency Planning Committee
Director, St. Joseph County Emergency Management Agency

Encl.

Facility Identification

Name South Bend Lathe Corp.
 Street 400 W. Sample Street
 City South Bend County St. Joseph State IN Zip 46601

SIC Code 3540 Dun & Bradstreet Number 8458550-0572

Specific Information by Chemical
 ID # 3540 Date Received 10/11/90 From Mailing Label YES

Owner/Operator Name

Name South Bend Lathe Corp. Phone 219 289-7771
 Mailing Address 400 W. Sample Street South Bend, IN 46601

Emergency Contact

Name Robert Newton Title Dir./Mfg. Phone 219 277-0949
 Name Richard Amadril Title President Phone 219 273-8918

From January 1 to December 31, 19 90

Reporting Period

Important: Read all instructions before completing form

Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards	Inventory	Storage Codes and Locations (Non-Confidential)
CAS <u>7782447</u> Chem. Name <u>Oxygen</u> Trade Secret <input type="checkbox"/> Check all that apply: Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> EHS <input type="checkbox"/> EHS Name _____	Check all that apply: Fire <input type="checkbox"/> Sudden Release of Pressure <input checked="" type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input type="checkbox"/>	Max. Daily Amount (code) <u>03</u> Avg. Daily Amount (code) <u>03</u> No. of Days On-site (days) <u>256</u>	Storage Locations South side-300 ft from west end piped to two locations in plant, 50ft west (fab-shopp) and 300ft east (heat-treat) tank owner-Union Carbide 203-794-2000
CAS <u>14339</u> Chem. Name <u>Sodium Cyanide</u> Trade Secret <input type="checkbox"/> Check all that apply: Pure <input type="checkbox"/> Mixture <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS <input type="checkbox"/> EHS Name _____	Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input checked="" type="checkbox"/>	Max. Daily Amount (code) <u>01</u> Avg. Daily Amount (code) <u>00</u> No. of Days On-site (days) <u>365</u>	Heat-treat Dept South Side door #10 250ft from East End.
CAS _____ Chem. Name _____ Trade Secret <input type="checkbox"/> Check all that apply: Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS <input type="checkbox"/> EHS Name _____	Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input type="checkbox"/>	Max. Daily Amount (code) _____ Avg. Daily Amount (code) _____ No. of Days On-site (days) _____	_____ _____ _____

Certification (Read and sign after completing all sections)
 I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through _____ and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.
 Richard Amadril, President

Optional Attachments

I have attached a site plan
 I have attached a list of site coordinate abbreviations

Richard Amadril 3-1-94



PUBLIC RECORD COPY REQUEST

State Form 136S (R3 / 11-99)
Approved by State Board of Accounts, 1999
IC 5-14-3

PLEASE TYPE OR PRINT FIRMLY - YOU ARE MAKING 2 COPIES.

LOCATION OF RECORD(S)	
Department / Agency	IDEM 3610-140900
Division / Institution	Section / Branch
CENTRAL FILE ROOM	AIR FILE

RECORD(S) REQUESTED (Identify by title, control number, date, description)
SOUTH BEND STAMPING (E W I INCORPORATED), 601 W. BROADWAY ST., SOUTH BEND, ST JOSEPH CO
27 PAGES
paid with check # 4615

REQUEST MADE BY:		
OPTIONAL	Name of requestor JANE MAKOWSKI	Daytime telephone number 614-793-8777
	Address (if records are to be mailed): HUEL AND ASSOCIATES INC. 6130 WILCOX ROAD DUBLIN, OHIO 43016	
Date / time of request 11/29/00	Date / time filed 12/6/00	Request filed by (name and title) THEA GRANT

STANDARD SIZE (8 1/2" X 11" OR 8 1/2" X 11")	
Uniform copy fee	\$ 0.1
No. of copies made	x 27
TOTAL CHARGE	\$ 2.7
* Reasonable fee established by ag	
NON-STANDARD SIZE	
Agency fee *	\$.
No. of copies made	x .
TOTAL CHARGE	\$.

IF REQUEST IS NOT FILLED, STATE REASON (i.e., confidential by statute, etc.)	
Signature <i>[Signature]</i>	Title Environmental Scientist
	Date 12-7

DISTRIBUTION: White - Requestor; Canary - Cashier

RECEIVED DEC 15 2000

Cancelled

St Joseph

Permits by

He2/20/98
File - St. Joe Co.

FAX TRANSMITTAL
RECEIVED

So. Bend Stamping
141-6357-55
0000

cc: DAE
Permits Br.
KNR
WPS
EWE
South Bend Stamping

SEP 27 1996 FROM

St. Joseph Co. Engineering Dept.

601 W. Broadway St.
South Bend, IN 46601

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT

Phone #: 219-282-8212
Fax #: 219-282-8293

one file

To: Mr. Douglas A. Elliott
Company: INDIANA Department of ENVIRONMENTAL MANAGEMENT
Fax No.: (317) 233-5967
From: Kenny Guy
Date: 9-23-1996 Total Pages: 2
With Cover

COMMENTS: Just if you have any questions on this please call.

Kenny

Keith Hawksley.... 282-8284
Engineering Manager

Tom Grandys.. 282-8210
Senior Engineer

Phil Gadson..... 282-8238
Mfg. Engineer/Industrial Engineer

Kenny Guy.... 282-8238
Welding Engineer

Sherry Hess ...282-8212
Engineering Secretary

If you do not receive this transmittal complete -
please call our office...219-282-8212.

South Bend Stamping
Division of Tecumseh Metal Products
601 W. Broadway St.
South Bend, IN 46601

September 23, 1996

Douglas A. Elliott
Indiana Department of Environmental Management
Office of Air Management
100 North Senate Ave.
P.O. Box 6015
Indianapolis, IN 46206-6015

Re: Plant ID # 141-0003, EWI, South Bend Stamping
Change of Ownership from EWI, South Bend Stamping
to
South Bend Stamping, Division of Tecumseh Metal Products

Dear Mr. Elliott,

This letter is to notify you that EWI, South Bend Stamping was officially sold to Tecumseh Metal Products on September 16, 1996. Our new name is now South Bend Stamping, Division of Tecumseh Metal Products.

On July 28, 1996, EWI sent to Indiana Dept. of Environmental the information pertaining to Part 70 Permit Transition application. We are needing you to please notify your department of the change in ownership and operating business name on all documents.

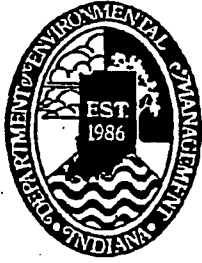
If you have any questions, please feel free to give me a call. My number is (219) 282-8238. Thank you for your attention to this matter.

Sincerely,

Ken Guy 
Welding Engineer

KG/sh

St. Joe



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Evan Bayh
Governor
Kathy Prosser
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-6027

Via Certified Mail #Z441082388

April 22, 1996

Mr. Dennis Peterson
E.W.I. Stamping Division
417 E. Jefferson Blvd.
Mishawaka, IN 46545

Re: Permit Application

Dear Mr. Peterson:

On February 19, 1996 a certified letter requesting the submittal of an Office of Air Management (OAM) Construction Permit application was sent to Mick Clark, E.W.I., Incorporated. A copy of this letter is included for your review. The Construction Permit application is required under Rule 326 IAC 2-1 (a copy of Rule 2-1 was provided with the above mentioned letter). The letter was received by E.W.I., Inc. on February 21, 1996. The letter provided E.W.I., Inc. with a Construction Permit application form and a request for its completion and return within thirty (30) days. As of April 11, 1996, OAM Permits Branch records indicate that E.W.I., Incorporated's permit application has not been received.

Please respond in writing within ten (10) days from the date of this letter indicating your source's intent to comply with Rule 2-1. If a violation of Rule 2-1 is determined, the violation may be referred to the Office of Enforcement for possible legal action.

If you have any questions regarding this matter please contact Doug Elliott, of my staff at the above address or via phone at 317/233-5674.

Sincerely,

Herman D. Carney
Herman D. Carney, Chief
Air Compliance Section I
Office of Air Management

dae/
Enclosure:
cc: Permits Branch
Doug Elliott
File-St. Joseph



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Evan Bayh
Governor
Kathy Prosser
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-60

May 30, 1996

VIA CERTIFIED MAIL #Z 441 082 676

Mr. Kenny Guy
E.W.I. Stamping, Incorporated
601 W. Broadway
South Bend, IN 46601

Re: Permit Status

Dear Mr. Guy:

This letter will confirm receipt of your April 30, 1996, letter and your May 14, 1996, letter and acknowledge your May 10, 1996, phone conversation with Doug Elliott of my staff. The correspondence and conversation were a result of questions identified during a routine source inspection conducted on November 21, 1995. The conversation was conducted to determine the appropriate permit application to provide E.W.I. Stamping, Incorporated. During the conversation Mr. Elliott confirmed that E.W.I. operates boilers with potential emissions of regulated air pollutants above exempt thresholds without a permit or registration, possibly in violation of 326 IAC 2-1 (copy enclosed). He also determined that the boilers in question were constructed prior to December of 1968. Sources meeting these conditions are required to apply for an Operation Permit.

Within thirty (30) days from the date of this letter please complete and submit the enclosed Operation Permit application. Also please supply within twenty (20) days from the date of this letter to the attention of Doug Elliott, a copy of the maximum design rates for E.W.I. Stamping's boilers.


If a violation of Rule 2-1 is confirmed, the case may be referred to the Office of Enforcement for possible legal action. Based on estimated emissions this source may be subject to limited liability under the compliance transition program (copy enclosed).

Page Two

E.W.I. Stamping, Incorporated

If you have any questions regarding this matter, please contact Doug Elliott at the above address or via phone at (317)233-5674.

Sincerely,


Herman D. Carney, Chief
Air Compliance Section I
Office of Air Management

DAE:jm

Enclosures

cc: Permits Branch

Doug Elliott

File - St. Joseph County

ST. JOSEPH CO

Telephone Memorandum

Thru: HDC/WPS

CALLER: Doug Elliott **DATE:** 05/10/96

COMPANY/AGENCY: OAM, COMPLIANCE SECTION 1

CALL MADE TO: KENNY GUY **SUBJECT:** PERMIT APPLICATION

COMPANY/AGENCY: E.W.I. STAMPING, INC. 141-00003

SUMMARY OF CALL: On May 10, 1996, I returned a call from Kenny Guy. Kenny and I discussed his source's annual natural gas usage and the construction dates of their boilers. As a result of our conversation we determined that E.W.I, Inc's 1994 natural gas purchases totaled just over 131 million cubic feet. We also determined the construction dates of all seven of their boilers to be prior to December of 1968.

I requested that Kenny provide me with a copy of his source's 1995 natural gas purchases. I also inform him that I would have an operating permit application sent out to him as soon as possible. Kenny informed me he already had approval to hire a consultant to help him with filling out the operation permit application.

Further Action Required: send a operating permit application

Copies To: Permits Branch
E.W.I, Inc. File-St. Joseph

EWI Inc.

SOUTH BEND STAMPING DIVISION

RECEIVED

MAY 2 1996

To: Indiana Department of Environmental Management
From: Kenny Guy
Date: April 30, 1996
Re: Permit & Compliance Status
South Bend Plant I.D. 141-00003

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT

CC:DAE

Dear Mr. Carney,

This letter is written in response to the letter that was sent to Mr. Peterson of E.W.I. South Bend Stamping on April 22, 1996 from the office of Air Management. A letter was sent to Mr. Mick Clark of E.W.I. Incorporated on February 19, 1996 requesting E.W.I. South Bend plant to submit for a (OAM) construction permit under Rule 3261AC2-1. Mr. Mick Clark was terminated from his position on February 29, 1996. We at E.W.I. South Bend did not know that the application was not submitted. Per Mr. Clark our emissions did not exceed 100 Ton/Per Year and therefore did not require us to apply for, or operate under a part 70 operating permit.

Per my phone conversation on Friday, April 26, 1996 with Mr. Ed Stresino from your department as to what E.W.I. South Bend Stamping would need to do to apply for a (OAM) construction permit application as the first copy went to our Orrville Plant in Orrville, Ohio.

We apologize for the lack of communication within our corporation.

E.W.I. South Bend Stamping have six (6) boilers but only three (3) are in use. All boilers are run on natural gas. The six (6) boilers were put on line in 1965 by Allied Corporation.

Attached is a copy of the letter that was sent to your department by Mr. Mick Clark to Nancy Landau. We are also providing the information of gas used in 1993 & 94.

If you have any questions regarding this matter, please do not hesitate to call me at (219) 282-8238.

Kenny Guy



cc: D. Peterson - EWI
B. Bayer - EWI
D. Elliott - I.D.E.M.

E.W.I. South Bend Stamping
Engineering Department

601 W. BROADWAY • SOUTH BEND, INDIANA 46601 • (219) 287-7253 • FAX (219) 282-8217
MAILING ADDRESS: P.O. Box 990 • SOUTH BEND, INDIANA 46624

EWI Inc.

1330 N. Main Street
P.O. Box 904
Orrville, Ohio 44667
(216)684-6150
(216)684-6019 Fax

1-8-96

Steve Gordon
E.W.I. - South Bend
601 W. Broadway
South Bend, Indiana 46601.

Re: Indiana Department of Environmental Management (IDEM)
Inspection Report

Dear Steve:

After further investigation into E.W.I. - South Bend's gas usage for 1994, we discovered that the usage amount was grossly overstated. The miscalculation occurred when translating the numbers obtained from the gas log. The gas usage was represented in currency and read as whole numbers (see enclosed ledger). The error was found when reviewing the 1993 gas consumption.

The correction resulted in favor of E.W.I. - South Bend. The corrected 1994 air emission fee is \$1,366.82 rather than the \$24,592.00 originally determined. Enclosed for your review is the corrected 1994 conversions as well as the gas usage for 1993. Payment to IDEM is required for both 1993 and 1994. The change in numbers also disqualifies E.W.I. - South Bend as a major source under Indiana's air rules. Your potential emissions do not exceed 100 tons/year and therefore does not require us to apply for or operate under a Part 70 operating permit.

We apologize for any inconvenience this may have caused you. If you have any questions, please feel free to contact me at 216/684-6150.

Mick Clark

Mick Clark
Environmental and Safety Services Manager

cc Kenny Guy
Doug Elliott

Indiana Department of Environmental Management
Office of Air Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

Att: Nancy Landau

Re: 1995 Emission Statement

Certification Letter

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements and information in the enclosed document/software are true, accurate, and complete.

Mick Clark Date Signed: 1-8-96
Certifying Individual (printed signature)

Mick Clark Title: Environmental & Safety Service
Certifying Individual (written signature) Manage:

Telephone Number: 216/684-6150

Plant Address:

E. W. I. Inc. (141-00003)
601 Broadway
South Bend, IN 46624

Plant Phone Number:
2166846150

SOUTH BEND STAMPING

Month	TOTAL Therms	TOTAL CCF	
1	January	3851728.00	3185828
2	February	325755.00	325755
3	March	215893.00	215893
4	APRIL	2173.00	2173
5	May	11119.00	11119
6	June	358.00	358
7	July	191.00	191
8	August	373.00	373
9	September	477.00	477
10	October	1964.00	1964
11	November	86732.00	86732
12	December	294108.00	294108
13	TOTAL Therms 1974	315011.00	315011
14		1315011.5 - MAF	→ 1011111
15			
16		1315011.5 - MAF	→ 1000
17			
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
TITLE V FEE DISPUTE Worksheet - 1995
Attachment 3

Date : 07/25/95

Plant ID : 141-00003
 Company Name : E.W.I. INC.
 Plant Address : 601 BROADWAY
 SOUTH BEND IN 46624

Mailing Address: 1330 N. MAIN ST. P.O. BOX 904
 ORRVILLE OH 44667

In accordance with 326 IAC 2-7-19 (e), if you disagree with the department's calculation of your fee, you may dispute it. If you wish to dispute it, you must remit the total fee minus the amount in dispute and provide emissions calculations that support your calculation of the fee within thirty (30) days of your receipt of this bill. The commissioner will review the information you have submitted and make a final determination of your total annual fee. You must pay any remaining fee within fifteen (15) days of receipt of a second billing. The commissioner's determination of a final fee amount is a final action for purposes of IC 4-21.5.

If you intend to dispute your fee, please complete the following chart, include certified supporting documentation for your emissions, and return this sheet with your invoice to the address on the invoice form along with payment of the undisputed amount of the fee. Please write your plant identification number on your check. If you need assistance with this worksheet, contact Ismail Khatri at (317)233-6852.

<u>Pollutants Emitted:</u>	<u>Actual Emissions</u>	<u>Fee/ton</u>	<u>New Fee</u>
Nitrous Oxides (NOx) :	<u>9.205</u>	x \$33.00 =	<u>\$303.77</u>
Total Particulates (PT) :	<u>.32875</u>	x \$33.00 =	<u>\$10.85</u>
Sulfur Dioxide (SO2) :	<u>.03945</u>	x \$33.00 =	<u>\$1.30</u>
Volatle Organic Comp (VOC) :	<u>1.9725</u>	x \$33.00 =	<u>\$6.51</u>
Hazardous Air Pollutants (HAPs) :	<u>0.000</u>	x \$33.00 =	<u>\$0.00</u>
		Total:	<u>\$322.43</u>
		Base Fee +	\$1,500.00
		Subtotal	<u>\$1822.43</u>
		75%	<u>X .75</u>
		Subtotal	<u>\$1366.82</u>
		Remaining 1994 Fee:	<u>+</u>
		Total Fee to be remitted:	<u>\$1366.82</u>

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR MANAGEMENT

TITLE V PERMIT ESTIMATED FEE INVOICE - 1995

Attachment 1

Date : 07/25/95
 Plant ID : 141 - 00003
 Company Name : E.W.I. INC.
 Plant Address : 601 BROADWAY
 SOUTH BEND, IN 46624
 Mailing Address : 1330 N. MAIN ST. P.O. BOX 904
 ORRVILLE, OH 44667

1995 Title V Fees : (Based on the emissions year : 94)

<u>Pollutant</u>	<u>Estimated Emissions</u>		
Nitrous Oxides (NOx)	:	919.740	X \$33.00 = \$30,351.00
Total Particulates (PT)	:	1.040	X \$33.00 = \$34.00
Sulfur Dioxides (SO2)	:	3.945	X \$33.00 = \$130.00
Volatile Organic Cmpds (VOC)	:	23.458	X \$33.00 = \$774.00
Hazardous Air Pollutants (HAP)	:	0.000	X \$33.00 = \$0.00
			Total Emissions \$31,289.00
			Base Fee + \$1,500.00
			\$32,789.00
			75% X .75
			\$24,592.00
			Less Credits - \$0.00
			\$24,592.00

Please Remit Total Fee : \$24,592.00

If you have questions on how your bill was calculated, contact Donna Dickison at (317)232-5696.

PLEASE MAKE COPY OF THIS INVOICE AND RETURN ON OR BEFORE 30 DAYS OF RECE
 WITH PAYMENT TO ADDRESS BELOW

Controller's Department
 Attention: Cashier
 100 North Senate Avenue
 P.O. Box 7060, Room 1324
 Indianapolis, IN 46206-7060

PLEASE WRITE PLANT-ID# ON PAYMENT CHECK

Revenue Code : 2760-410500-150000

E.W.I. - SOUTH BEND 1993 GAS USAGE

<u>POLLUTANTS EMITTED:</u>	<u>ACTUAL EMISSIONS</u>	<u>FEE</u>	<u>NEW FEE</u>
Nitrous Oxides (NOx)	: <u>11.1874</u>	x \$33.=	<u>\$369.18</u>
Total Particulates (PT)	: <u>.39955</u>	x \$33.=	<u>\$13.19</u>
Sulfur Dioxide (SO2)	: <u>.047946</u>	x \$33.=	<u>\$1.58</u>
Volatile Organic Comp. (VOC)	: <u>.23973</u>	x \$33.=	<u>\$7.91</u>
Hazardous Air Pollutants (HAPs):	<u>0.00</u>	x \$33.=	<u>\$0.00</u>

TOTAL = \$391.86

BASE FEE + \$1500.00

SUBTOTAL = \$1891.86

50% x .50

SUBTOTAL = \$945.93

TOTAL FEE TO BE SUBMITTED = \$945.93

OFFICE OF AIR MANAGEMENT
FIELD INSPECTION REPORT

File: ST. JOSEPH COUNTY
Thru: ~~HEC~~/WPS

SOURCE: E W I, Inc. PLANT ID NUMBER: 141-00003
LOCATION: 601 West Broadway EPA COMMITMENT: No
CITY: South Bend INSPECTION TYPE: Inspection
INDIANA, 46601 INSPECTED BY: Doug Elliott *DJE*
COUNTY: St. Joseph INSPECTION DATE: 11/21/95
REPORTED BY: Doug Elliott
DATE OF REPORT: 11/27/95

COMPLAINT: No COMPLAINT NUMBER: N/A
COMPLAINANT: N/A

CHECK IF APPLICABLE: NSPS PSD X NESHAP OTHER
AIR QUALITY STATUS? Attainment: CO, NO_x, VOC, SO₂ Nonattainment: Secondary
Nonattainment
for TSP.

SOURCE ID: 141-00003
ST. JOSEPH LOCAL AGENCY PERMITS: None
SIC CODE: 3469

PERSONS: Kenny Guy, Senior Welding Engineer and Michael King, Maintenance Supervisor
INTERVIEWED: Mick Clark, Environmental supervisor, via phone

DESCRIPTION
OF BUSINESS: Manufacture of stamped and welded metal components for the automobile industry.

OBJECTIVES: Inspection to determine permit and compliance status.

DESCRIPTION OF SOURCE:

E W I, Incorporated's South Bend source manufactures stamped and welded metal automotive components. The operation consists primarily of production of automotive quarter panels, doors and oil pans for Ford and General Motors. The source operates three 8 hour shifts per day, 6 days per week. The source leases the grounds and occupies several buildings at this location. The buildings and grounds are owned by Allied Products, Incorporated. E W I, Inc. began operations at this location in 1991 and presently employs approximately 500 people.

This source's operations consist primarily of cutting, shaping and welding sheet metal. The source operates fifteen (15) Mig welders and over one hundred spot welders and presses. The source is heated by six (6) natural gas-fired boilers. Two (2) 1.7 mmBtu per hour Kewanee Boilers are located in building number 86 and four (4) 3.0 mmBtu per hour Kewanee Boilers are located in building number 78. These boilers are also capable of burning oil as a fuel source but oil has not been used in these boilers since 1989. There are no oil storage tanks located at this source. These boilers were purchased new in 1965.

(Next)

cc: Permits Br.
BJT

BACKGROUND:

This source has not applied for or received a state construction or operation permit. This source began operations at this location in 1991.

PROCESS EQUIPMENT:**A. Fuel Combustion/Space Heating:**

- Process Description: Generation of steam used to heat the plants
1. Equipment: Six natural gas-fired Kewanee Boilers, two rated at 1.7 mm Btu's per hour and four rated at 3.0 mm Btu's per hour.
 2. Pollutants Emitted: Particulate Matter, NO_x, SO_x, CO, VOC
 3. Control Equipment: None, each boiler is exhausted through a separate stack
 4. Applicable Rules: 2-1, 6-~~2~~ and 6-4
 5. Observations: These boilers are fired as needed with no more than five units operating at one time. An average of three boilers operate during the winter months.
 6. Compliance Status: These boilers were constructed and operated without a permit or registration,, potentially in violation of Rule 2-1. No other violations were determined during this inspection.

B. Welding:

- Process Description: Mig and spot welding of sheet metal
1. Equipment: Fifteen Mig welders and several spot welders.
 2. Pollutants Emitted: Particulate Matter, NO_x, SO_x, CO, VOC's
 3. Control Equipment: None, the only unit with a direct external exhaust is the oil tank drain Mig Welder..
 4. Applicable Rules: 2-1, 5-1 and 6-3
 5. Observations: The vast majority of the welding operations are exhausted inside the buildings. The buildings are old with numerous openings and appear to provide adequate ventilation.
 6. Compliance Status: This equipment was constructed and operated without a permit or registration, potentially in violation of Rule 2-1. No other violations were determined during this inspection.

ADDITIONAL COMMENTS: None

COMPUTER DATA: This source is not in targeting, a targeting form was submitted with this report.

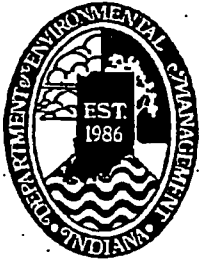
TITLE V PERMIT STATUS: E W I's 1994 emissions statement indicates that the source is subject to Title V. This source has not been sent a Title V billing packet. I contacted Dan Campbell with Data Support and requested that a Title V billing packet be sent to this source.

CONCLUSIONS: This source was constructed and is operating without a permit or registration, potentially in violation of Rule 2-1. A complete permit application covering all applicable facilities operated at this source must be submitted. Compliance with Rule 2-1 will be determined by the Permits Branch following a review of this sources permit application.

No violations of other OAM rules were determined during this inspection.

RECOMMENDATIONS: Send E W I, Inc. an Enhanced New Source Review Part 70 Permit Application with a notice requiring that the application be completed and returned to OAM Permits Branch in a timely manner. Conduct an inspection in FY 1997 following issuance of this source's Title V permit.

EXIT INTERVIEW: I explained my conclusions and recommendations to Mr. Guy prior to leaving the source.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-

Via Certified Mail #Z 441 070 787

December 1, 1995

Mr. Kenny Guy
E W I, Inc.
601 West Broadway
South Bend, Indiana 46601

Re: Inspection Summary

Dear Mr. Guy:

On November 21, 1995, a representative of the Office of Air Management, Indiana Department of Environmental Management, conducted an inspection to determine compliance with Indiana's air rules. For your information, a summary of the inspection report is provided below:

Company Name: E W I, Inc.
Company Street Address: 601 West Broadway
Company City, State: South Bend, Indiana

Type of inspection: ___ USEPA Commitment
 ___ Complaint
 ___ Surveillance
 X Routine
 ___ Other:

Results of Inspection: ___ No violations were determined during the inspection
 X Further investigation, review of records, or laboratory analysis
 of samples necessary to determine compliance
 ___ Out of compliance with the following rule:

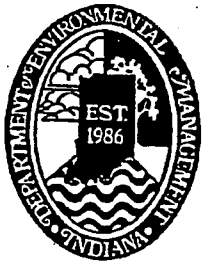
Recommended Action: ___ None
 ___ Warning Letter
 ___ Referred to Office of Enforcement
 X Other: Follow-up to confirm that the source has received the
 appropriate OAM permit

Comments: E W I, Incorporated located at the above address has constructed and is operating a 1,600,000 square feet metal stamping plant with six (6) natural gas-fired boilers without a permit or registration. E W I, Incorporated's South Bend operation is potentially in violation of 326 IAC Rule 2-1, construction and operation without a permit. Please complete and submit the provided Title V Enhanced New Source Review permit application within sixty (60) days from the date of this letter.

Inspector Information:

Name/Telephone: Douglas A. Elliott, (317) 233-5674

Signature: *Douglas A. Elliott*



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P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-6027

Via Certified Mail #Z 441 082 388

April 22, 1996

Mr. Dennis Peterson
E.W.I. Stamping Division
417 E. Jefferson Blvd.
Mishawaka, IN 46545

Re: Permit Application

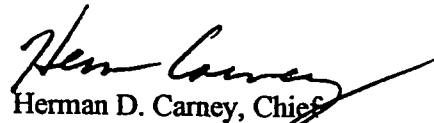
Dear Mr. Peterson:

On February 19, 1996 a certified letter requesting the submittal of an Office of Air Management (OAM) Construction Permit application was sent to Mick Clark, E.W.I., Incorporated. A copy of this letter is included for your review. The Construction Permit application is required under Rule 326 IAC 2-1 (a copy of Rule 2-1 was provided with the above mentioned letter). The letter was received by E.W.I., Inc. on February 21, 1996. The letter provided E.W.I., Inc. with a Construction Permit application form and a request for its completion and return within thirty (30) days. As of April 11, 1996, OAM Permits Branch records indicate that E.W.I., Incorporated's permit application has not been received.

Please respond in writing within ten (10) days from the date of this letter indicating your source's intent to comply with Rule 2-1. If a violation of Rule 2-1 is determined, the violation may be referred to the Office of Enforcement for possible legal action.

If you have any questions regarding this matter please contact Doug Elliott, of my staff at the above address or via phone at 317/233-5674.

Sincerely,


Herman D. Carney, Chief
Air Compliance Section I
Office of Air Management

dae/
Enclosure:
cc: Permits Branch
Doug Elliott
File-St. Joseph



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Kathy Prosser
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-4

Via Certified Mail #Z-441 070 787

Mr. Kenny Guy
E W I, Inc.
601 West Broadway
South Bend, Indiana 46601

December 1, 1995

St Joseph

Re: Inspection Summary

Dear Mr. Guy:

On November 21, 1995, a representative of the Office of Air Management, Indiana Department of Environmental Management, conducted an inspection to determine compliance with Indiana's air rules. For your information, a summary of the inspection report is provided below:

Company Name: E W I, Inc.
Company Street Address: 601 West Broadway
Company City, State: South Bend, Indiana

Type of inspection: ___ USEPA Commitment
 ___ Complaint
 ___ Surveillance
 X Routine
 ___ Other:

Results of Inspection: ___ No violations were determined during the inspection
 X Further investigation, review of records, or laboratory analysis
 of samples necessary to determine compliance
 ___ Out of compliance with the following rule:

Recommended Action: ___ None
 ___ Warning Letter
 ___ Referred to Office of Enforcement
 X Other: Follow-up to confirm that the source has received the
 appropriate OAM permit

Comments: E W I, Incorporated located at the above address has constructed and is operating a 1,600,000 square feet metal stamping plant with six (6) natural gas-fired boilers without a permit or registration. E W I, Incorporated's South Bend operation is potentially in violation of 326 IAC Rule 2-1, construction and operation without a permit. Please complete and submit the provided Title V Enhanced New Source Review permit application within sixty (60) days from the date of this letter.

Inspector Information: Name/Telephone: Douglas A. Elliott, (317) 233-5674

Signature: *Douglas A. Elliott*



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-6027

Via Certified Mail #Z 441-071 966

February 19, 1996

Mr. Mick Clark
E W I, Inc.
1330 N. Main Street
P.O. Box 904
Orrville, OH 44667

Re: Permit and compliance status of EWI Incorporated's South Bend
Plant ID 141-00003

Dear Mr. Clark:

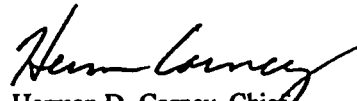
This letter is drafted in response to the information packet for EWI Incorporated's South Bend Plant received January 19, 1996. Please submit a corrected 1993 and 1994 annual emissions statement. Send the corrected emissions statements to the Office of Air Management, Data Support Section at the above address. Your 1993 and 1994 billing statements will be revised to reflect your corrected actual emissions. If your potential emissions of NOx are ten (10) tons per year or more you will need to continue to submit annual emissions statements.

Calculations based on the data submitted in your information packet received on January 19, 1996, indicates that EWI's South Bend plant has potential emissions of NOx in excess of twenty five (25) tons per year. EWI, Incorporated's South Bend plant is currently operating without a permit or registration, potentially in violation of 326 IAC Rule 2 (copy enclosed). Sources with allowable emissions in excess of the thresholds established in Rule 2-1 are required to submit a permit application even if they are not subject to the requirements of the Part 70 permit program. A Construction Permit Application covering all equipment capable of generating emissions of regulated air pollutants must be submitted in accordance with Rule 2. Applicability of the Part 70 permit program will be determined by our Permits Branch following a review of this source's complete permit application.

Please complete the enclosed construction permit application and return it to the Office of Air Management, Permits Branch within thirty (30) days from the date of this letter. If a violation of Rule 2 is determined, the violation may be referred to the Office of Enforcement for possible legal action.

If you have any questions regarding this matter please contact Doug Elliott of my staff at the above address or via phone at 317/233-5674.

Sincerely,


Herman D. Carney, Chief
Air Compliance Section 1
Office of Air Management

dae/

Enclosures:

cc: Permits Branch
Data Support
Doug Elliott



171-2003
St. Joseph

Frank O'Bannon
Governor

John M. Hamilton
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.ai.org/idem

March 08, 1999

VIA CERTIFIED MAIL # Z 540 035 445

Karol S. Jackson, Safety Coordinator
South Bend Stamping Division,
Tecumseh Metal Products, Inc.
601 West Broadway Street
P.O. Box 990
South Bend, Indiana 46624

Re: Commissioner of the Department
of Environmental Management

v.

South Bend Stamping Division,
Tecumseh Metal Products, Inc.
Cause No. A-4107

Dear Ms. Jackson:

This is to advise you of recent action taken by the Department of Environmental Management of the State of Indiana.

The Findings of Fact and Order in the above-referenced cause, which were signed by you on behalf of South Bend Stamping Division, Tecumseh Metal Products, Inc., were considered and approved. The Agreed Order has been executed.

A copy of the approved Order is enclosed. Please note that the civil penalty has been received and deposited in the Environmental Management Special Fund. Thank you for your cooperation.

Sincerely,

David P. McIver
Chief, Air Section
Office of Enforcement

DPM/eb1
Enclosure



Frank O'Bannon
Governor

John M. Hamilton
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.ai.org/idem

STATE OF INDIANA)
)
COUNTY OF MARION) SS: BEFORE THE INDIANA DEPARTMENT
 OF ENVIRONMENTAL MANAGEMENT

COMMISSIONER OF THE DEPARTMENT)
OF ENVIRONMENTAL MANAGEMENT,)

Complainant,)

v.)

CAUSE NO. A-4107 ;

SOUTH BEND STAMPING DIVISION,)
TECUMSEH METAL PRODUCTS, INC.)

Respondent.)

AGREED ORDER

The Complainant and the Respondent desire to settle and compromise this action without hearing or adjudication of any issue of fact or law, and consent to the entry of the following Findings of Fact and Order.

I. FINDINGS OF FACT

1. Complainant is the Commissioner (hereinafter referred to as "Complainant") of the Indiana Department of Environmental Management, a department of the State of Indiana created by IC 13-13-1-1.
2. Respondent is South Bend Stamping Division, Tecumseh Metal Products, Inc., (hereinafter referred to as "Respondent"), which owns and operates a metal fabrication facility at 601 W. Broadway, South Bend, Indiana.
3. The Indiana Department of Environmental Management ("IDEM") has jurisdiction over the parties and subject matter of this action.

4. Civil penalties are payable by check to the Environmental Management Special Fund. Checks shall include the Cause Number of this action and shall be mailed to:

Cashier
IDEM
100 N. Senate Avenue
P. O. Box 7060
Indianapolis, IN 46207-7060

5. In the event that the civil penalty required by paragraph 3 is not paid within thirty (30) days of the Effective Date of this Agreed Order, Respondent shall pay interest on the unpaid balance at the rate established by IC 24-4.6-1-101. The interest shall continue to accrue until the civil penalty is paid in full.
6. This Agreed Order shall apply to and be binding upon the Respondent, its officers, directors, principals, agents, successors, subsidiaries, and assigns. The Respondent's signatories to this Agreed Order certify that they are fully authorized to execute this document and legally bind the parties they represent. No change in ownership, corporate, or partnership status of the Respondent shall in any way alter its status or responsibilities under this Agreed Order.
7. In the event that any terms of the Agreed Order are found to be invalid, the remaining terms shall remain in full force and effect and shall be construed and enforced as if the Agreed Order did not contain the invalid terms.
8. The Respondent shall provide a copy of this Agreed Order, if in force, to any subsequent owners or successors before ownership rights are transferred. Respondent shall ensure that all contractors, firms and other persons performing work under this Agreed Order comply with the terms of this Agreed Order.
9. This Agreed Order shall remain in effect until the Respondent has paid the civil penalty required by paragraph 3.

St. Joseph
141-00003



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Frank O'Bannon
Governor

John M. Hamilton
Commissioner

100 North Seriate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.aie.org/idem
December 09, 1998

Via Certified Mail # Z 540 036 860

NOTICE OF VIOLATION

To: Kristopher Dreyer, President
Tecumseh Metal Products, Inc.
1183 Chicago Road
Troy, Michigan 48083

C.T. Corporation System, Resident Agent
for Tecumseh Metal Products, Inc.
1 North Capitol
Indianapolis, Indiana 46204

Cause No. A-4107

Designated representative(s) of the Indiana Department of Environmental Management (IDEM) conducted a records review on June 16, 1997, of Tecumseh Metal Products, Inc., d.b.a. South Bend Stamping, 601 W. Broadway, South Bend, Indiana. You were found in violation of 326 IAC 2-6-3 which requires that the owner or operator of any facility in Clark, Elkhart, Floyd, Lake, Marion, Porter, St. Joseph or Vanderburgh County with the potential to emit volatile organic compounds (VOCs) or oxides of nitrogen (NO_x) at levels greater than ten (10) tons per year annually submit an emission statement to the Commissioner by April 15 of the following year. That violation is based on the fact that during the records review it was determined that you failed to submit your emission statement for 1996 by April 15, 1997, to the Commissioner.

In accordance with IC 13-30-3-3, the Commissioner is required to notify you in writing that the Commissioner believes a violation exists and offer you an opportunity to enter into an Agreed Order providing for the actions required to correct the violations and for the payment of a civil penalty. The Commissioner is not required to extend this offer for more than sixty (60) days.

If settlement is not reached within sixty (60) days of your receipt of this Notice, the Commissioner may issue an Order pursuant to IC 13-30-3-4 containing the actions you must take to achieve compliance, the required time frames, and an appropriate civil penalty. Pursuant to IC 13-30-4-1, the Commissioner may assess penalties of up to \$25,000 per day of any violation.



Frank O'Bannon
Governor

John M. Hamilton
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.ai.org/idem

STATE OF INDIANA)
)
COUNTY OF MARION)

BEFORE THE INDIANA DEPARTMENT
OF ENVIRONMENTAL MANAGEMENT

COMMISSIONER OF THE DEPARTMENT
OF ENVIRONMENTAL MANAGEMENT,)

Complainant,)

v.)

CAUSE NO. A-4107

TECUMSEH METAL PRODUCTS, INC., d.b.a
SOUTH BEND STAMPING.)

Respondent.)

AGREED ORDER

The Complainant and the Respondent desire to settle and compromise this action without hearing or adjudication of any issue of fact or law, and consent to the entry of the following Findings of Fact and Order.

I. FINDINGS OF FACT

1. Complainant is the Commissioner (hereinafter referred to as "Complainant") of the Indiana Department of Environmental Management, a department of the State of Indiana created by IC 13-13-1-1.
2. Respondent is Tecumseh Metal Products, Inc., d.b.a. South Bend Stamping (hereinafter referred to as "Respondent"), which owns and operates a metal fabrication facility at 601 W. Broadway, South Bend, Indiana.
3. The Indiana Department of Environmental Management ("IDEM") has jurisdiction over the parties and subject matter of this action.

4. The 1997 emission statement shall be sent via Certified Mail to:

Ken Ritter
Office of Air Management
Indiana Department of Environmental Management
100 N. Senate Avenue
P. O. Box 6015
Indianapolis, IN 46206-6015

with a copy sent to:

Eric Larsen, Enforcement Case Manager
Office of Enforcement
Indiana Department of Environmental Management
100 N. Senate Avenue
P. O. Box 6015
Indianapolis, IN 46206-6015

5. Respondent is assessed a civil penalty of Two Thousand Dollars (\$2,000). Said penalty amount shall be due and payable to the Environmental Management Special Fund within thirty (30) days of the Effective Date of this Agreed Order.
6. In the event the following terms and conditions are violated, the Complainant may assess and the Respondent shall pay a stipulated penalty in the following amounts:

<u>Violation</u>	<u>Penalty</u>
326 IAC 2-6-3	\$5,000
Paragraph 2 of Order	\$100 per day

7. Stipulated penalties shall be due and payable within thirty (30) days after the Respondent receives written notice that the Complainant has determined a stipulated penalty is due. Assessment and payment of stipulated penalties shall not preclude the Complainant from seeking any additional relief against the Respondent for violation of the Agreed Order. In lieu of any of the stipulated penalties given above, the Complainant may seek any other remedies or sanctions available by virtue of the Respondent's violation of this Agreed Order, or Indiana law, including but not limited to civil penalties pursuant to IC 13-30-4.
8. Civil and stipulated penalties are payable by check to the Environmental Management Special Fund. Checks shall include the Cause Number of this action and shall be mailed to:

TECHNICAL RECOMMENDATION:
Department of Environmental Management

By: David P. McIver
David P. McIver
Chief, Air Section
Office of Enforcement

Date: 11-18-98

COUNSEL FOR COMPLAINANT:
Department of Environmental Management

By: Daron Schroll
Office of Legal Counsel
Department of Environmental Management

Date: 12/3/98

TECUMSEH METAL PRODUCTS,
INC.:

By: _____

Printed: _____

Title: _____

Date: _____

COUNSEL FOR RESPONDENT:

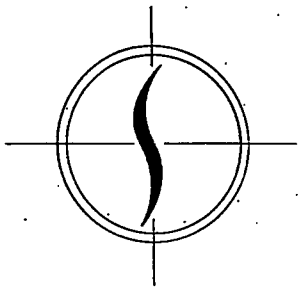
By: _____

Date: _____

APPROVED AND ADOPTED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT THIS ____ DAY OF _____, 199__.

For the Commissioner:

Felicia Robinson George
Assistant Commissioner of Enforcement



SOUTH BEND STAMPING

Division of Tecumseh Metal Products Inc.

P.O. Box 990
601 W. Broadway Street
South Bend, IN 46601

EW.I. INC.

(219) 287-7253
Fax (219) 287-8293

File please

December 15, 1999

Ms. Michele Boner
Indiana Department of Environment Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

Re: 2000 Emission Report

RECEIVED

DEC 20 1999

State of Indiana
Dept. of Environmental Mgmt.
Office of Air Management

Dear Ms. Boner:

Pursuant to our telephone conversation on December 15, 1999, South Bend Stamping Division of Tecumseh Metal Products, Inc. filed bankruptcy on March 21, 1999. They ceased operations on June 30, 1999 and were liquidated on November 18, 1999.

Any information that may have been available would have been moved to warehouse storage. Hopefully, this letter will provide you with the necessary information to remove South Bend Stamping from the required filing of the emission reports. Thank you for your assistance in handling this matter.

Sincerely yours,

Stephen W. Gordon
Stephen W. Gordon
Consultant



APPENDIX L

Previous Reports



RECEIVED

APR 15 1998

April 9, 1998

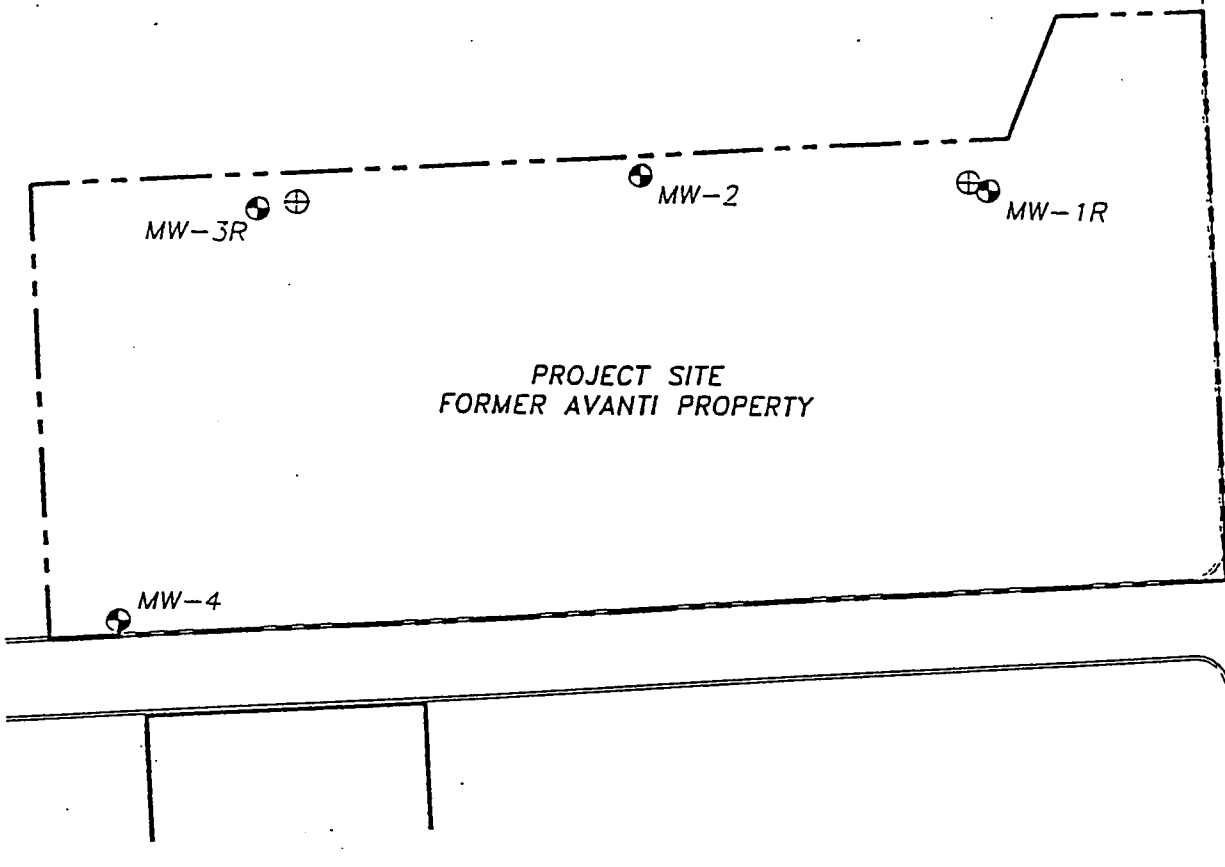
Ms. Anne E. Kolata
Deputy Executive Director
City of South Bend
Community & Economic Development
1200 County-City Building
South Bend, Indiana 46601-1830

**RE: Report for Sampling and Analyses of Groundwater
and Abandonment of Wells, March 1998
Former Avanti Site, South Bend, Indiana**

Dear Ms. Kolata:

Enclosed please find the following attachments which comprise the EIS Environmental Engineers, Inc., (EIS) report for the March 1998 sampling and analyses of groundwater samples and the abandonment of three (3) monitoring wells at the former Avanti site (the Site), located northwest of the intersection of Sample and Lafayette Streets in South Bend, Indiana:

- A) Brief narrative describing the March 1998 groundwater sampling and analyses and well abandonments at the Site.
- B) A site map from a previous ATEC report showing the general location of the wells sampled and abandoned at the Site.
- C) A summary of the analytical results.
- D) Complete laboratory analytical reports.
- E) Chain-of-custody records for all samples collected.
- F) Monitoring well sampling forms documenting the details of the groundwater sample collections.
- G) Copies of the Indiana Department of Natural Resources (IDNR) water well records documenting the well abandonments. The original forms have been mailed to the IDNR as is required by applicable well abandonment regulations.



LEGEND

- MONITORING WELL
MW-1R — Well Identification
- APPROX. LOCATION OF MISSING WELL
- - PROPERTY BOUNDARY
- MW-1R & MW-3R: REPLACEMENT WELLS

SCALE: 1" = 100'

SITE MAP
 From
ATEC Associates, Inc.,
 June 8, 1995, Report
Phase II Subsurface
Investigation, Former
Avanti Property.

BORING PLAN
 PHASE II SITE INVESTIGATION
 FORMER AVANTI PROPERTY
 NORTHWEST CORNER of LAFAYETTE ST. AND SAMPLE ST.
 SOUTH BEND, INDIANA

Project Number 21-07-95-00451
Drawing File 00451BP
Date 6-2-95
Scale 1" = 100'
Drawn By SPJ
Chk. By BKL
App'd. By

1995

2

10/26/95/11

SUMMARY OF RESULTS
MARCH 10, 1998, GROUNDWATER SAMPLES
AVANTI SITE, SOUTH BEND, INDIANA ⁽¹⁾

Well I.D.	VOC Results ⁽²⁾
MW-1R	N.D. ⁽³⁾
MW-2	N.D.
MW-3R	N.D.

Notes:

- (1) Groundwater samples were collected from monitoring wells MW-1R, MW-2 and MW-3R by EIS Environmental Engineers, Inc., on March 10, 1998, from the former Avanti Site located northwest of the intersection of Sample and Lafayette Streets in South Bend, Indiana.
- (2) The groundwater samples were analyzed by American Environmental Analytical Corp., of Lincolnwood, Illinois, for Volatile Organic Compounds (VOC).
- (3) N.D. = Not Detected. See complete analytical reports for detection limits and target parameter list. The complete analytical reports are provided in Attachment D of this report.



5150 East 65th Street
Indianapolis, Indiana 46220-4871
(317) 849-4990, FAX (317) 849-5260

Solid & Hazardous Waste Site Assessments
Remedial Design & Construction
Underground Tank Management
Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

January 25, 1996

Ms. Ann Kolata
City of South Bend
Community and Economic Development
1200 County City Building
South Bend, Indiana 46601

Re: Records Review
On Allied Products Property
<0.1 mile South of Avanti Site
South Bend, Indiana

Dear Mr. Stark:

In accordance with your request for additional information on the Voluntary Remediation Program at the Allied Products site south of the Avanti project site, ATEC has performed a review of the available records. This letter summarizes the information that was found on file at IDEM under the Voluntary Remediation Program. This information is based on a 1995 report by Advanced Pollution Technologists, Ltd (APT), which incorporated subsurface investigations at the site from the years 1993 until 1995.

HYDROLOGY

Based on information in the APT report, groundwater at the Allied property is at approximately 25 feet below grade. There is a single unconfined aquifer consisting of a massive sand unit from

surface to a depth of approximately 76 feet below grade. Groundwater flow at the Allied project site is toward the northeast at 103.5 feet/year. Given the direction of the flow of groundwater in the area the Avanti site is directly down gradient of the Allied Products property.

PETROLEUM HYDROCARBON RELEASES

Advanced Pollution Technologist, Ltd., identified four separate sources of petroleum hydrocarbon contamination at the Allied Products site. These potential sources include:

- 1) Four 4,000 gallon USTs locate beneath west building.
- 2) One 5,000 gallon UST along the east wall of the west building. Gasoline was detected in monitoring well down gradient of this UST.
- 3) One 20,000 gallon UST located northwest of the west building. Petroleum hydrocarbons were detected in down gradient wells.
- 4) One 10,000 gallon UST located north of the east building. Petroleum hydrocarbons (mineral spirits) were detected in adjacent wells.

According to APT, total petroleum hydrocarbon concentrations along the north property line were 560 ppm (gasoline) and 840 ppm (unknown petroleum). No permission was obtained to drill on the property immediately north of the project site. Three off-site wells to the far northeast of the Allied property showed levels of TPH in groundwater ranging from 110 ppm to 450 ppm. In relation to the Avanti property these wells are southeast, east and northeast of the Avanti property. Please note that the Avanti site did not reveal any concentrations of petroleum hydrocarbons during sampling and analysis.

VOLATILE ORGANIC CONTAMINANTS

Prior to the 1960's the four 4,000 gallon USTs located under the west building on the Allied Products property were used to store tetrachloroethene (PCE). VOC contamination has been detected in the groundwater surrounding these four USTs. In addition VOC contamination was noted at its highest concentration in MW-15 near the Allied Products north property line.

Groundwater samples collected from the shallow wells at this location showed concentrations of tetrachloroethene (490 ppb, 510 ppb), trichloroethene (55 ppb, 46 ppb), and total 1,2 dichloroethene (7.7 ppb, ND). Similar VOC constituents were detected in deep well at the same location. Again no permission was granted to APT to drill on the property immediately to the north of the Allied site. Several off-site shallow and deep wells were completed on properties to the northeast of the Allied property. One well to the east of the Avanti property had concentrations of 1,2 dichloroethene (19 ppb) trichloroethene (6.4 ppb), and vinyl chloride (26 ppb). In addition monitoring wells MW-19, MW-20 northeast of the Allied site also contained concentrations of 1,1 dichloroethane, tetrachloroethene, toluene, ethylbenzene, 1,1,1 trichloroethane, and xylenes.

CONCLUSIONS

Groundwater at Allied Products has been impacted by petroleum hydrocarbons and volatile organic compounds. Based on off-site wells to the northeast of the property both contaminant plumes have migrated off-site. Since no wells could be completed on the property directly north of the Allied facility, the northern boundaries of these plumes were not determined. The VOC constituents found in well MW-1 at the Avanti site include dichloroethene, tetrachloroethene and vinyl chloride. Tetrachloroethene and dichloroethene are both constituents that are also found in wells on the Allied Products site upgradient of the project site. APT suggests that a groundwater pump and treatment system using granular activated carbon is one remediation option for the removal of both the PCE and the TPH contaminants at the site.

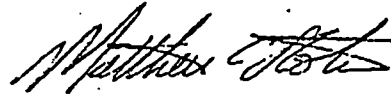
Attached are three plume maps that appear in the APT report. We trust that this submittal is responsive to your needs. If you have any questions or comments regarding this report please contact Brad K. Lewis, (ATEC) at (317) 849-4990 ext. 1752.

Sincerely,

ATEC ASSOCIATES, INC.



Brad K. Lewis
Staff Environmental Scientist




Matthew C. Stokes, C.H.M.M.
Senior Project Manager

**PHASE II
INVESTIGATION AT FORMER
TRANSWESTERN BUILDING SITE
SOUTH BEND, INDIANA 46628
ATTACHMENTS**

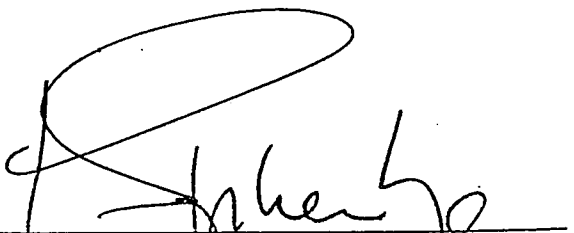
AUGUST 7, 1995

**PREPARED FOR
CITY OF SOUTH BEND
COMMUNITY AND ECONOMIC DEVELOPMENT**

**PREPARED BY
EIS ENVIRONMENTAL ENGINEERS, INC.
1701 NORTH IRONWOOD DRIVE
SOUTH BEND, INDIANA 46635**



Wanada Baxter-Potter, P.E.
Senior Project Engineer



H. Stephen Nye, P.E.
President

TABLE 2
ANALYTICAL RESULTS
FOR
ALLIED PRODUCTS DOWNGRADIENT MONITORING WELLS
AND
NEW ON-SITE UPGRADIENT WELLS
TRANSWESTERN SITE, SOUTH BEND, INDIANA

	South Nest North Well (shallow) (Allied Products Well MW-18S)		South Nest South Well (deep) (Allied Products Well MW-18D)		MW- 2 (shallow)	Center Well (shallow) (Allied Products Well MW-17)		MW- 1 (shallow)	North Nest South Well (shallow) (Allied Products Well MW-16S)			North Nest North Well (deep) (Allied Products Well MW-16D)			MCL
	5/15/95	7/19/95	5/15/95	7/19/95	7/19/95	5/15/95	7/19/95	7/19/95	5/15/95	7/19/95	8/3/95	5/15/95	7/19/95	8/3/95	
	Metals Detected (mg/l or ppm)														
Arsenic	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	0.02	<0.01 ^α	<0.01 ^α	<0.01 ^α	0.012	0.021	0.05
Barium	0.099		0.159			0.046			0.103			0.041			2.00
Lead	0.01	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	<0.01 ^α	0.015 ^δ
Volatile Organic Compounds Detected (ug/l or ppb)															
Benzene	ND	ND	2.2	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	5.
sec-Butyl Benzene	ND	ND	10.	6.6 ^β	ND	ND	ND	ND	6.8	ND	ND	ND	4.2	5.5	No MCL
1,1-Dichloroethane	ND	ND	1.8	ND	ND	ND	ND	ND	1.5	ND	ND	ND	1.4	1.8	No MCL
c-1,2-Dichloroethene	ND	ND	0.64 ^β	ND	14.	11.	5.2	ND	ND	ND	ND	ND	ND	ND	70.
t-1,2-Dichloroethene	ND	ND	ND	ND	2.6	3.	1.9	ND	ND	ND	ND	ND	ND	ND	No MCL
Ethylbenzene	ND	ND	2.9	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	700.
2-Hexarione	ND	ND	31.	ND	ND	ND	ND	ND	22.	ND	ND	ND	ND	ND	No MCL
Isopropyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	3.6	No MCL
p-Isopropyltoluene	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No MCL
Napthalene	ND	ND	1.1 ^β	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No MCL
n-Propyl Benzene	ND	ND	3.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No MCL
Styrene	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No MCL
Tetrachloroethene	ND	ND	1.3	ND	32.	1.	0.96 ^β	ND	0.81 ^β	ND	ND	ND	ND	ND	100.
Tetrahydrofuran	ND	ND	22.	ND	ND	ND	ND	ND	11.	ND	ND	ND	ND	ND	5.
Toluene	ND	ND	0.88 ^β	ND	ND	ND	ND	ND	0.75 ^β	ND	ND	ND	ND	ND	No MCL
1,1,1-Trichloroethane	ND	ND	ND	ND	0.77 ^β	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000.
Trichloroethene	ND	ND	4.6	4.7	30.	9.9	12.	ND	ND	ND	ND	ND	ND	ND	200.
1,3,5-Trimethylbenzene	ND	ND	1.6 ^β	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.
Vinyl Chloride	ND	ND	ND	ND	ND	14.	8.3	ND	1.8 ^β	ND	ND	ND	ND	ND	No MCL
Xylenes ^γ	ND	ND	7.3	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	2.
Petroleum Hydrocarbons	ND	ND	1,420	2,260	ND	ND	ND	ND	690	ND	ND	ND	620	1,200	No MCL

^α Metal was not detected in this sample at a concentration above the detection limit. The value shown is the detection limit.

^β Compound was detected at concentration below the EQL. The result shown is an estimate.

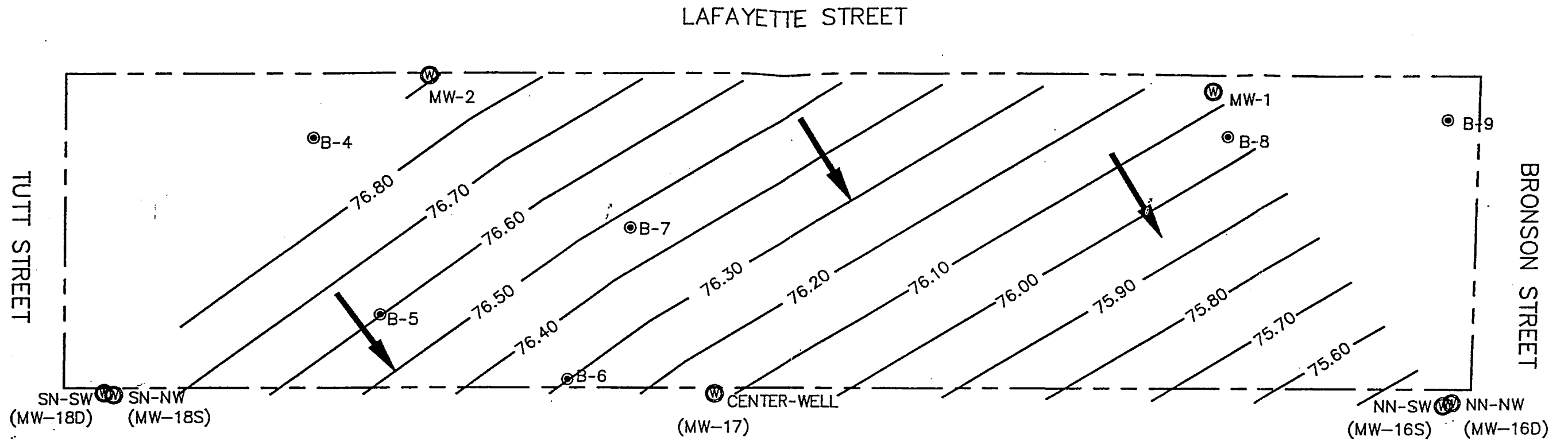
^γ Total Xylenes are equal to the sum of m + p-Xylenes plus o-Xylenes.

^δ There is no MCL for Lead. EPA has established an "Action Level" for Lead and Copper.

Gray-shaded data are from up-gradient wells.



1" = 60'



LEGEND

- Ⓜ MW-2 MONITORING WELL
- Ⓞ B-4 SOIL BORING
- 76.60 — STATIC WATER LEVEL CONTOUR
- - - - - PROPERTY LINE
- ➔ GROUND WATER FLOW DIRECTION

RELATIVE TOP OF CASING ELEVATIONS AND STATIC WATER LEVELS.

WELL ID	TOC ELEVATION	SWL ELEVATION 7-19-95
SN-SW	101.72	76.80
SN-NW	101.00	76.77
NN-SW	99.26	75.42
NN-NW	99.28	75.36
CENTER WELL	100.00	76.12
MW-1	100.29	76.13
MW-2	101.20	76.91



EIS ENVIRONMENTAL ENGINEERS, INC.

GROUND WATER FLOW, BORING AND MONITORING WELL LOCATIONS
TRANSWESTERN BUILDING SITE
SOUTH BEND, INDIANA

Dwn JEH	App'd WBP	(Rev) Date	Date 8/3/95	Proj.No. 810695
------------	--------------	------------	----------------	--------------------

BAKER & DANIELS

EST. 1863

300 NORTH MERIDIAN STREET, SUITE 2700 · INDIANAPOLIS, INDIANA 46204-1782 · (317) 237-0300 · FAX (317) 237-1000

ANNE SLAUGHTER ANDREW
(317) 237-1412

INDIANAPOLIS
FORT WAYNE
SOUTH BEND
ELKHART
WASHINGTON, D.C.

RECEIVED

JUL 17 1995

July 12, 1995

CITY OF SOUTH BEND
DEPT. OF LAW

Jenny Pitts-Manier, Esq.
Chief Assistant City Attorney
City of South Bend
1400 County-City Building
South Bend, IN 46601

Re: Allied Products Site
South Bend, Indiana

Dear Jenny:

Pursuant to our discussion, I am forwarding to you copies of documents we found in IDEM's files related to the spill and proposed environmental remediation at the Allied Products' site in South Bend, Indiana. Also enclosed is a brief memorandum from our legal assistant, Enid Carpenter, indicating other Allied Products documents in IDEM's files which we found but did not copy.

As soon as I have heard from Larry McHugh with regard to the Allied Site, I will contact you.

Sincerely,


Anne Slaughter Andrew

ASA:dba
Enclosures

file

LEGAL DEPARTMENT
INTEROFFICE MEMORANDUM
CONFIDENTIAL

TO: ANN KOLATA
REDEVELOPMENT DIRECTOR

DATE: OCTOBER 10, 1995

FROM: JENNY PITTS MANIER
CHIEF ASSISTANT CITY ATTORNEY

RE: ALLIED PRODUCTS

This memo will recap what I have learned about the status of the environmental conditions discovered at the Allied Products site. As you know, I met Mark Standifer, Allied's Assistant General Counsel, at a conference that was held in South Bend in early September. The conference was hosted by Advanced Pollution Technologists (APT).

APT has been hired by Allied to test Allied's site, and assess its options. As you know, Larry McHugh, from Barnes & Thornburg, approached me a few years ago seeking permission, on behalf of Allied to place monitoring wells on "City property." Although exactly what property he meant is unclear, I assume it may have included the Transwestern site, the Avanti site and perhaps the Corridor Properties site. Larry was not very forthcoming with information, but indicated that a PCE release had occurred on the Allied site, at its northeast corner. According to Larry, Allied wanted to be able to assess the flume of migration of the PCE in order to be prepared to discuss the problem fully with IDEM. As you know, on the advice of Ann Slaughter Andrew, we never gave Allied permission, given its failure to provide more information.

At the conference Mark informed me that Allied had initiated a voluntary remediation effort under Indiana's VRP program. A final workplan was not submitted, however, and that effort has been placed on hold. According to Mark, Allied became uncomfortable with APT's "facts, analysis and conclusions." He said that he attended the South Bend conference in part to see APT in action.

The following information came to me through Mark at the conference and in a follow-up conversation we had today.

As noted above, there are elevated levels of PCE on the Allied site. There are also elevated levels of THP in the area in general and at the Allied site. APT concluded there had been a PCE and petroleum release at the Allied site. The proposal made by APT included characterizing the various tanks that were removed from the Allied tank (the dates of removal are not clear to me) as kerosene tanks in order to attempt to become eligible for funds to assist in the clean-up under Indiana's ELF fund. Clean-up of tanks that are required to be registered (including kerosene tanks) is

Ann Kolata
October 10, 1995
Page Two

eligible for ELF assistance, whereas clean up from tanks that are not required to be registered (including heating oil tanks) is not eligible for ELF funding. In addition, APT thought it could orchestrate a THP clean-up plan that would also address the PCE problem and thereby secure ELF funds, indirectly, for the PCE clean up. The plan, according to Mark, was not approved by those in charge of ELF funds. In addition, the plan proposed a massive pump and treat operation. As an example of the impracticability of the proposal, Mark indicated that APT planned to build a pipeline to the St. Joseph River to dispose of the water used in the pump and treat operation.

Perhaps triggered by its growing lack of confidence in APT, Allied began to reevaluate its problem. Allied now questions whether it is the source of the PCE. Allied maintains that its operation never involved the use of solvents or other sources of PCE. Allied believes the Studebaker Corporation may be the actual cause of the problem. Allied's hunch is that the PCE source is the old vapor degreasing system. He does not know where this operation was located within the Studebaker complex, but believes it may be the current South Bend Lathe plant.

Mark also indicated that the PCE levels are highest adjacent to the old sewer lines. He indicated that he believes these were private, internal sewers running among the Studebaker buildings. He said that he has a copy of a 1953 Studebaker sewer map, which shows a 24" sewer running north and south along the western edge of the Corridor Properties property, near the area of the highest PCE readings. He said that he believes the buried tunnels (what we have called the "steam tunnels") also carried sewer lines. He said that he would send me a copy of the 1953 sewer map.

Mark asked if I could assist by providing copies of any old Studebaker maps, or engineering documents. I told him I would see what I could do. I have placed a call to Jean Dennen, the volunteer archivist at the Studebaker Museum, to see what information the museum may have available.

Mark suggested that Allied believes Studebaker Corporation might be responsible for the PCE (and THP) problem. He said that Allied has identified the current successor to Studebaker as Cooper International, a large corporation. Apparently, Studebaker Corporation did not dissolve when it closed down its South Bend operations, but went north to Canada, and its assets were eventually purchased by McGraw Edison and then Cooper International.

Ann Kolata
October 10, 1995
Page Three

When I spoke with Mark at the conference I did nothing to indicate that I knew about Allied's entry into the VRP program. When he called today he started out by telling me that he had been in touch with Ed at IDEM, who informed him that I had asked to be given notice when Allied filed its VRP remediation plan. My letter was sent prior to the conference, so if Mark asked Ed for the date of my letter, I will appear fairly disingenuous to him, I suspect. I told him that we simply wanted to be apprised of Allied's plans. I do not know if he is aware that we have copies of some of Allied's filings.

Mark asked me if Allied could have copies of any of our testing reports. He indicated that he felt the City's interests and Allied's are the same. I told him I would be in touch with him about his request.

Mark indicated that Allied had or was in the process of hiring a new consultant, RMT out of Madison, Wisconsin. He does not want APT to find this out, however, from anyone but Allied, so please keep this item, as well as the rest of this information in this memo, confidential.

I believe that after we have received the sewer map from Mark and after I have had a chance to see what documents the Studebaker archives contain, we may want to consider contacting Ann Slaughter Andrew about our position, vis-a-vis Allied.

St. Joseph Co. File #9403118

APT

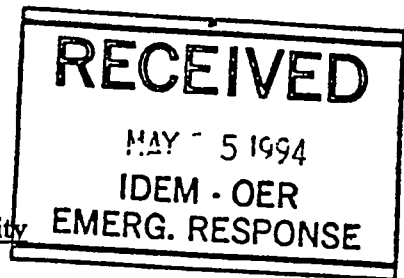
Advanced Pollution Technologists Limited
51513-B Bittersweet Road
Granger, Indiana 46530
(219) 273-0555
(219) 273-0344 (FAX)

Project No. 87-03

April 29, 1994

Mr. Charles R. Phipps
Indiana Department of Environmental Management
Emergency Response Section
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

Spill Report
Allied Products Incorporated Facility
South Bend, Indiana
IDEM Incident No. 9403118



Dear Mr. Phipps:

On behalf of Allied Products Incorporated (Allied), Advanced Pollution Technologists Limited (APT) submits herein the narrative Spill Report completed for the Allied facility in South Bend, Indiana as required by 327 IAC 2-6-2(5) and your correspondence dated March 15, 1994 (Note: since this correspondence was not received until April 20, it must be assumed that the date of the correspondence is in error and was intended to read April 15, 1994). The site owner has subcontracted APT to perform the site investigation and corrective action activities.

Allied Products Corporation (Allied) owns a facility located at 601 West Broadway, South Bend, Indiana 46601. The facility has historically been used to manufacture automotive parts. There are four 5,000-gallon underground storage tanks (USTs) located under the floor along the western wall of the westernmost building at the facility. These USTs were believed to have originally contained virgin materials (solvents) to be used in the manufacturing process, but use of the USTs for this purpose was discontinued after the late 1960s. However, the USTs were reportedly used to temporarily store fuel oil for consumptive use on site during the oil embargo of 1973-1975.

The USTs were closed in-place during March 9-11, 1994. The USTs were empty at the time of closure and appeared to be sound based on visual observations during tank cleaning prior to closure. Twenty-eight soil samples were collected from the sides, ends, and bottoms of the four USTs and analyzed for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs).

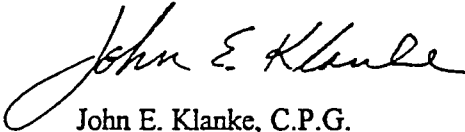
The results of the UST closure soil sampling indicates that soil in the vicinity of the USTs had been impacted by tetrachloroethylene (PCE). It is unknown when the PCE release(s) may have occurred, other than it had to have been prior to the late 1960s. Therefore the total amount released is unknown. No free product was observed during closure activities. Since no free product was observed, there have been no recovery activities performed at the site. Also, since the USTs have been closed, the source of the PCE has been removed and the possibility of further releases has been eliminated.

APT, acting on behalf of Allied, notified the IDEM Emergency Response Section of the PCE release on March 14, 1994 after receiving preliminary analytical results for the soil samples collected during the tank closures. An incident number 9403118 was issued by the IDEM. The final laboratory results corroborate the preliminary results, and are attached to this report as Appendix A.

A site investigation to determine the extent of impact to the soil and groundwater is currently being implemented. A Site Characterization Report will be developed and submitted to the IDEM at the conclusion of investigatory activities.

If you require clarification please contact me.

Respectfully Submitted,



John E. Klanke, C.P.G.
Project Manager

File:Allied.087sbendsrcvr.ltr



111 A
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Evan Bayh
Governor

Kathy Prosser
Commissioner

May 13, 1995

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone 317-232-8603
Environmental Helpline 1-800-451-

Mr. John Klanke
Advanced Pollution Technologists, Limited
3505 North Home Street, Suite 100
Mishawaka, IN 46545

Dear Mr. Klanke:

Re: Allied Products Corp.
South Bend, Indiana
IDEM Site: 6950501

The Indiana Department of Environmental Management has reviewed your application for the Voluntary Remediation Program and determined that your proposed cleanup is eligible for participation in this program. Your site identification number is 6950501. Please reference this number in all future correspondence.

If you wish to proceed, the next step is to submit the investigation and remediation work plans according to IDEM's outlines. When you have prepared the necessary work plan documents forward them to IDEM at the address above. We will then send you a Voluntary Remediation Agreement that will include an oversight cost estimate.

If you wish to withdraw from the program, please notify IDEM of your decision. We will then return the unused balance of your application fee. If you have any questions, please contact Ed Joniskan at 317/233-1217. Thank you for your participation in the Voluntary Remediation Program.

Sincerely,

John Rose
Acting Assistant Commissioner
Office of Environmental Response

JMR:eaj



WARNER and SONS, INC.

Excavating Contractors

29099 U.S. 33 WEST

ELKHART, INDIANA 46515

(Osceola) 674-9534

POST OFFICE BOX 87

PHONES: (Elkhart) 293-3547

FAX (219) 293-9724

PROJECT NO. 2981

CITY OF SOUTH BEND
DEPARTMENT OF ECONOMIC DEVELOPMENT

SITE REMEDIATION
10,000 GALLON UNDERGROUND STORAGE TANK
32,000 GALLON CISTERN

AVANTI BUILDING SITE
765 S. LAFAYETTE STREET
SOUTH BEND, INDIANA

JUNE 1, 1993



WARNER and SONS, INC.

Excavating Contractors

29099 U.S. 33 WEST

POST OFFICE BOX 87
PHONES: (Elkhart) 293-3547

ELKHART, INDIANA 46515
(Osceola) 674-9534

FAX (219) 293-9724

November 18, 1992

MR. K. C. POTIOUS
CITY OF SOUTH BEND
DEPARTMENT OF ECONOMIC DEVELOPMENT
County-City Building
South Bend IN 46601

RE: FORMER AVANTI BUILDING SITE
RESULTS OF SAMPLING OF CONTENTS OF CISTERN AND SUMP PIT

Dear Mr. Potious :

As you are aware, samples of the aqueous solutions were collected from the above referenced structures and submitted for analysis to determine if there was any contamination present.

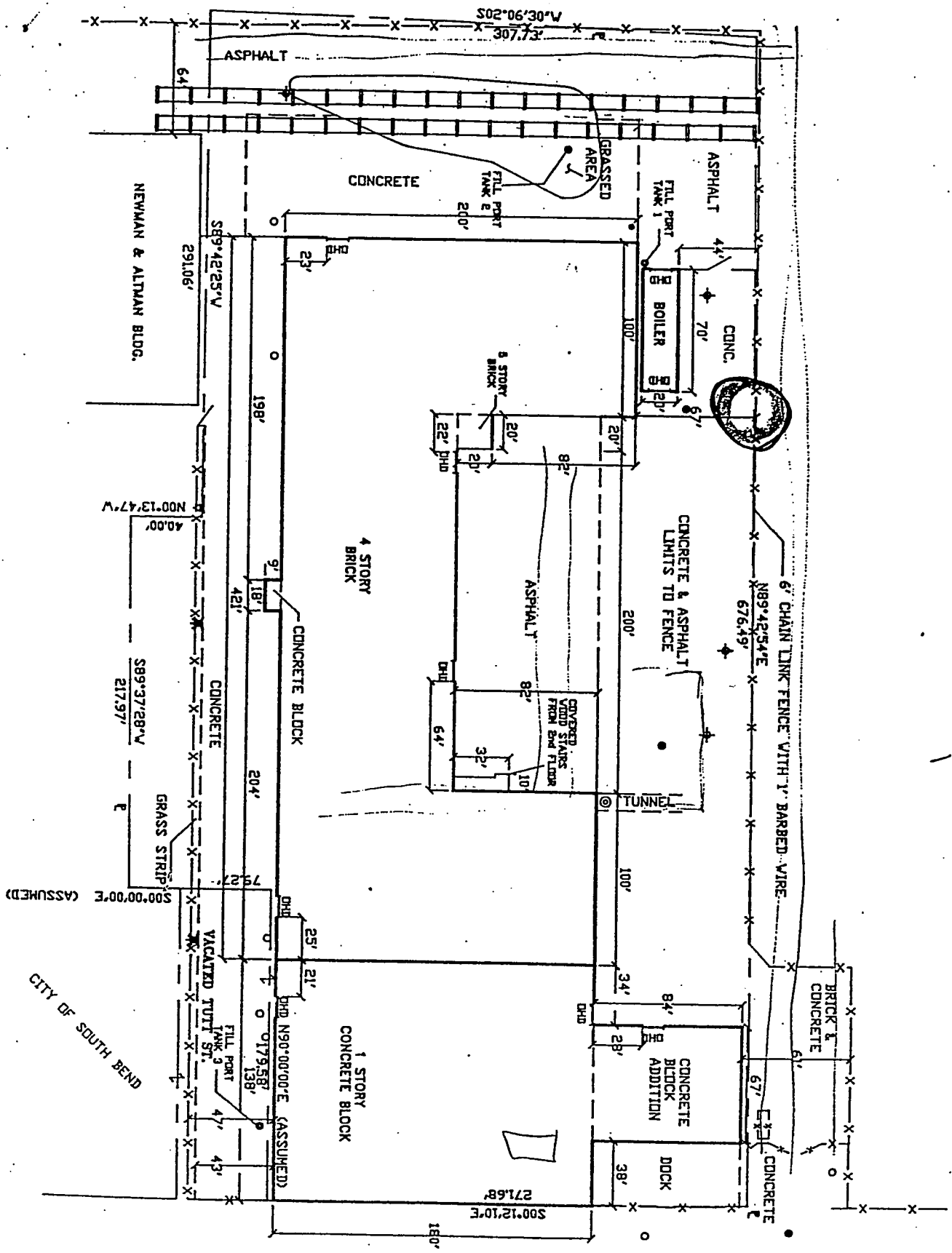
At approximately 14:30 hours today I was advised by the testing facility that the solutions in both structures are contaminated. We were not surprised that the oily, sludge type residue in the sump pit structure was contaminated and anticipated the results of this testing.

However, we were somewhat surprised to learn that the solution (approximately 4,200 gallons) in the large concrete cistern was contaminated with a flash point of 165 degrees fahrenheit. I would recommend that the solution be promptly removed and properly disposed of to limit the extent of liability. Further, I would also recommend that the gravel-like material be removed from the floor of the structure and stockpiled with the contaminated soils from the tank removal area. By isolating the gravel material and disposing of it independently would most likely increase the site remediation costs significantly.

I would appreciate being advised as to whether or not you wish for us to proceed with any of the above noted work. Please contact me if you have any questions regarding this matter or require additional information.

Sincerely,

John Bamber
Warner & Sons Inc.,



11
7710.0

2.3

S. LAFAYETTE BLVD.

CITY OF SOUTH BEND

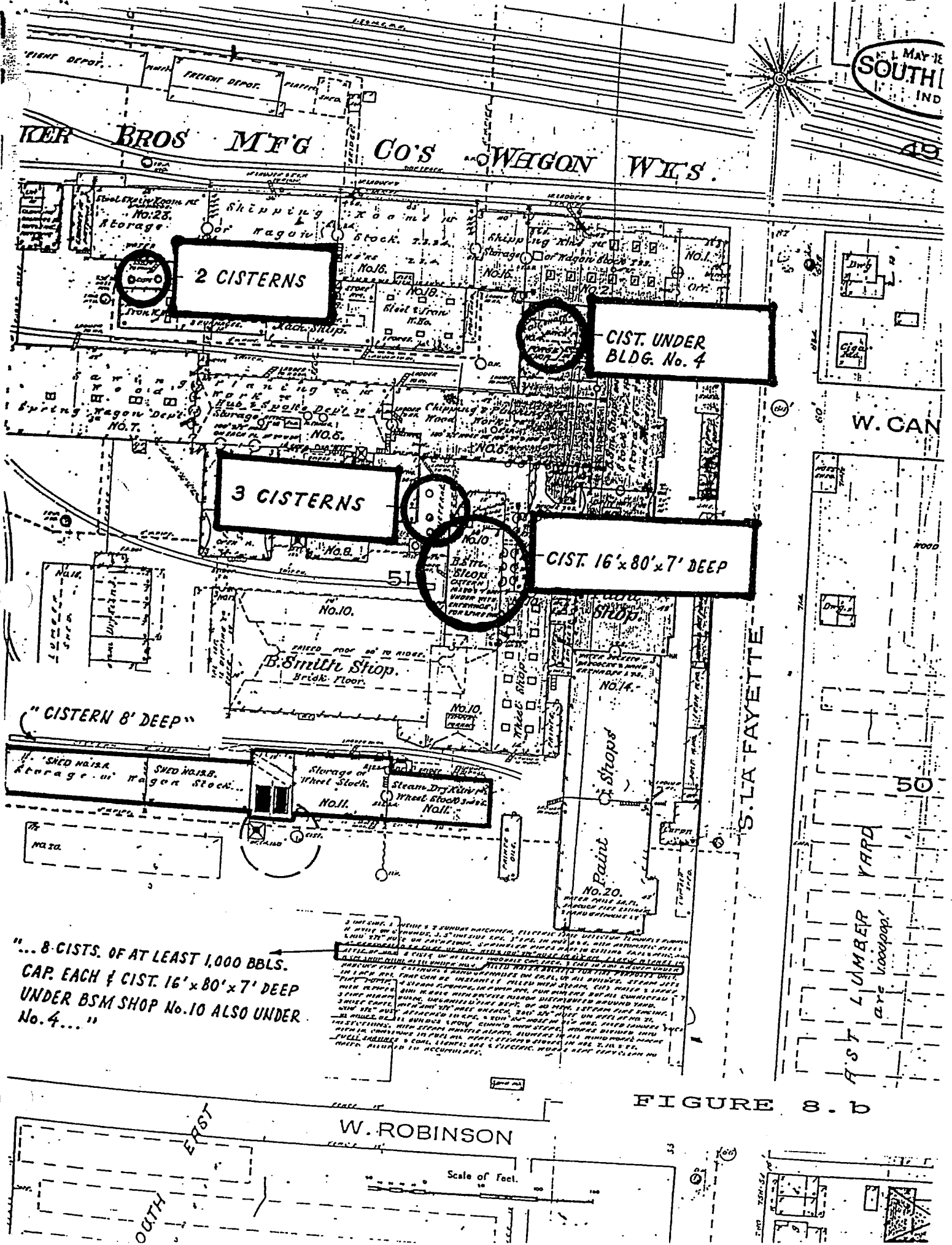


FIGURE 8. b

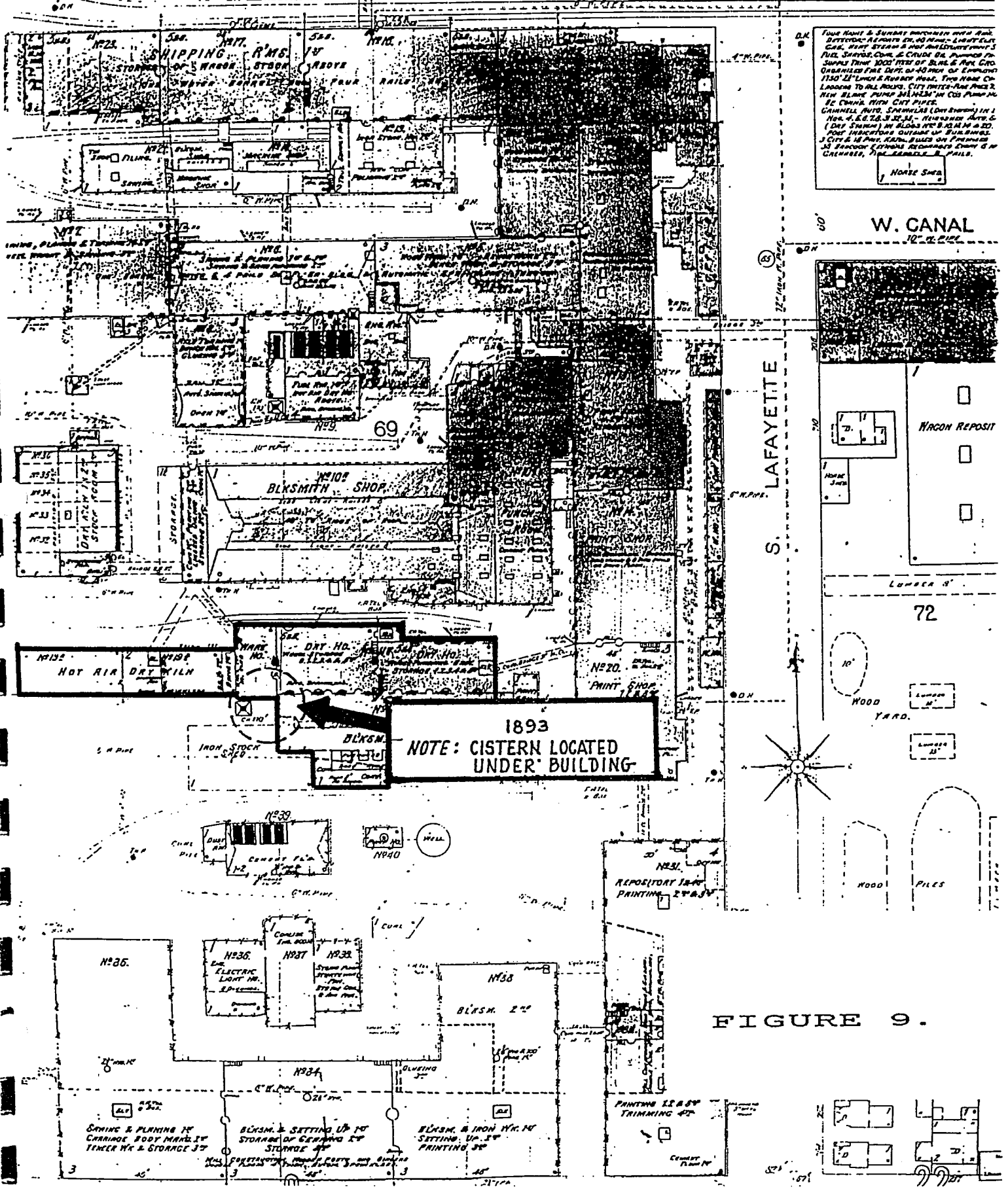
"... 8 CISTS. OF AT LEAST 1,000 BBLs. CAP. EACH & CIST. 16' x 80' x 7' DEEP UNDER BSM SHOP No. 10 ALSO UNDER No. 4..."

[Faint, mostly illegible text, possibly a transcription or notes related to the site plan.]

AST LUMBER YARD are located

Scale of Feet.

STUDEBAKER BROS. MAN'G. CO. WAGON WORKS



Four Night & Sunday Watchmen with Am. Protective Reports on 40 Hours - Night Duty Call. Water Steam & Hot Air Engine Room 3 Fuel Storage Coal & Crude Oil Pumped for Supply Tank 1000 Feet of Blue & Red Cro. Organized Fire Dept. on 40 men of equipment 150' 2 1/2 inch & 4 inch hose, two hose car ladders to all roofs. City water-line pipes 2 inch blue pump 30 1/2 inch in cast pump 20 1/2 inch with cut pipe.

CHIMNEY PIPE. CHIMNEYS (Low Stacks) in 1 No. 4, 6, 8, 12, 18, 24, 30, 36, 42, 48, 54, 60 (Dry Stack) in blocks 100 ft. in a 20. For incineration outside of building. 3 City & 1 Fire Alarm Bells on Platform 35 Bannock Cisterns Recorders 5000 G of Capacity, Fire Alarm B. Mills.

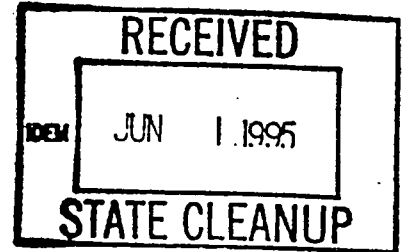
Horse Shed

W. CANAL

S. LAFAYETTE

1893
NOTE: CISTERN LOCATED UNDER BUILDING

FIGURE 9.



May 1995

**SITE INVESTIGATION REPORT
INDIANA VOLUNTARY REMEDIATION PROGRAM**

**ALLIED PRODUCTS CORPORATION STAMPING FACILITY
SOUTH BEND, INDIANA**

Project No. 8708

**Prepared By
Advanced Pollution Technologists, Limited
Mishawaka, Indiana**

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20	

1.0 INTRODUCTION

This section presents background information pertinent to the site activities performed at the Allied Products Corporation (Allied) manufacturing facility located in South Bend, Indiana. These activities were performed during the period of June 1989 to May 1995. This section is organized as follows:

- Report Organization (Section 1.1); and
- Site Background (Section 1.2).

Allied retained Advanced Pollution Technologists, Limited (APT) to perform a site investigation regarding potential constituent releases associated with seventeen underground storage tank (UST) systems. The investigation by APT, performed during the period of December 1993 to May 1995, was preceded by the closure of thirteen USTs. These closures were performed by Petroleum Equipment Inc. (PEI) during June 1989 to October 1991. The remaining four USTs were removed by APT in March 1994. This document summarizes the scope of work and the results associated with the site investigation performed by APT.

1.1 REPORT ORGANIZATION

This report is organized as follows:

- Introduction (Section 1.0);
- Site Characterization (Section 2.0); and
- Conclusions (Section 3.0).

There are also thirteen tables, twenty-one figures, and three appendices associated with this report.

1.2 SITE LOCATION AND HISTORY

This section presents information regarding the facility and the site history.

1.2.1 Site Location

The Allied South Bend Stamping facility is located at 601 West Broadway Street in South Bend, Indiana (Figure 1). The facility is part of the Studebaker corridor, a concentrated area of manufacturing and former manufacturing facilities, located about 1 mile southwest of the Central Business District of South Bend. The facility property boundaries abut Franklin Street to the east and the Conrail Railroad to the south (Figure 1). The northern boundary is shared with South Bend Lathe and western boundary is shared with Underground Pipe and Valve. The properties east of Franklin Street consist of undeveloped (vacant) lots. A residential area is located approximately 1/8-mile south of the facility.

Allied Products is the current facility owner. The facility manufactures automotive parts. Automotive body parts such as bumpers, fenders, doors, etc. are manufactured using cold rolled steel, which is cut to size and stamped to shape using large presses. The facility consists of three

buildings, the largest of which is the east building with approximately 444,000 square feet under roof. The west building has approximately 231,000 square feet under roof. The third and northernmost building has approximately 122,000 square feet under roof. The buildings are Type VI fire protection steel and concrete construction. The site layout is presented in Figure 2.

Climatologically, the facility is located in the temperate zone. Maximum summer temperatures are typically in the 90 to 95° F range and minimum winter temperatures are in the -15 to -20° F range. The South Bend, Indiana area receives approximately 38 inches of precipitation annually (source: Water Resource Availability in the St. Joseph River Basin, Indiana).

The topography of the area surrounding the facility is gently rolling to flat with a general slope to the northeast toward the St. Joseph River. Surface runoff consists of sheetflow which either exits the facility property along the northeast property boundary or is collected by storm sewers and discharged to the City of South Bend combined storm and sanitary sewer system. The surface water body closest to the facility is the Saint Joseph River which is approximately one mile northeast of the facility.

The drinking water in the area is supplied by the City of South Bend and is derived from groundwater sources. The wells supplying the municipal system are screened between 90-200 feet below the ground surface. The location of the nearest South Bend water supply wellfield is approximately one mile southwest of the facility (Figure 3).

1.2.2 Site History

Allied retained PEI to close the seventeen underground storage tanks that were present at the South Bend facility. A tank farm consisting of ten USTs, located between the three buildings of the facility was excavated and closed during November and December 1990. The tank farm consisted of six 10,000-gallon tanks, one 8,000-gallon tank, and three 12,000-gallon tanks (Figure 4). Soil samples were collected during closure and tested for Total Petroleum Hydrocarbons (TPH). The analytical results indicated that no releases had occurred from this UST system. Groundwater samples were not collected because groundwater was not encountered during the tank closure. The tanks reportedly stored gasoline, kerosene, diesel and heating oil prior to their closures. However, the tanks may have been installed as early as the 1920s, in which case the tanks may have stored several constituents in their lifetime.

A 5,000-gallon UST which was reportedly used to store gasoline was located approximately midway along and outside the east wall of the west building (Figure 4). This UST was closed in June 1990. Soil samples were collected during closure and tested for TPH. The closure sample analytical results indicated that releases had occurred from this UST. Impacted soils were overexcavated and disposed. Groundwater samples were not collected because groundwater was not encountered during the tank closure.

A 20,000-gallon UST which reportedly stored heating oil prior to its closure was located at the northwest corner of the west building (Figure 4). In June 1991, the tank was closed by abandonment-in-place since a large electrical transformer was located over a portion of the tank. Soil samples were collected during closure and analyzed for TPH. The results of the analysis indicated the presence of petroleum hydrocarbons in two samples. One closure sample contained TPH at a concentration of 62 mg/kg and the second sample contained TPH at a concentration of 17

mg/kg. Groundwater samples were not collected because groundwater was not encountered during the tank closure.

In October 1991, a 10,000-gallon tank located north of the east building was closed by removal (Figure 4). The tank reportedly had stored mineral spirits (associated with painting operations) and kerosene prior to the time of closure. A strong petroleum odor was detected in the surrounding soil during excavation activities. A TPH concentration of 6,300 mg/kg was detected in a soil sample collected from the excavated soil stockpiled from the excavation. A soil sample was collected four feet below the UST and analyzed for TPH and VOCs. The analytical results indicated a TPH concentration of 31 mg/kg and a 1,2,4-Trimethylbenzene concentration of 1,052 ug/kg. Since groundwater was not encountered during the tank closure, groundwater samples were not collected. The relative age and quantity of the release could not be accurately determined due to the age of the tank and the lack of adequate inventory records. However, 2,264 cubic yards of impacted soil was required to be excavated before encountering the limits of the impact. This soil was bioremediated and returned to the excavation site after the concentrations of constituents were below detection limits.

The final UST system consisting of four 4,000-gallon tanks is located under the west wall of the west building. A preliminary assessment conducted by PEI, consisting of a single monitoring well installed near the tanks, indicated that releases to the groundwater had occurred, based on the detection of Tetrachloroethylene or Tetrachloroethene (PCE) in a single groundwater sample collected from this well and analyzed for volatile organic compounds. The apparent release was reported to IDEM by PEI and APT was retained by Allied to conduct a site assessment. These USTs were closed by APT in March 1994. Analysis of soil samples collected at the time of closure confirmed that PCE and TPH releases had occurred from this tank system. The summary of these closure soil sample analyses can be found in Table 1 through Table 3.

1.2.3 Site Documentation

A summary of the previous work performed at the site, described in Section 1.2.2 of this document, is found in the following reports:

- Underground Storage Tank Closure Report: Allied Products Tank Farm Facility (PEI, 1991).
- Underground Storage Tank Closure Report: Allied Products 20,000 UST (PEI, 1991).
- Underground Storage Tank Closure Report (PEI, 1991).

2.0 SITE CHARACTERIZATION

This section is organized as follows:

- Baseline Assessment (Section 2.1);
- Background Concentrations (Section 2.2);
- Sampling Methodology (Section 2.3);
- Sample Analysis (Section 2.4); and

- Site Investigation Results (Section 2.5).

The Boring Logs for soil borings and monitoring wells drilled by APT are located in Appendix A. The Chain-of-Custody records are included in Appendix B. The laboratory analytical reports for samples collected by APT are included in Appendix C.

2.1 BASELINE ASSESSMENT

Baseline ecological and hydrogeological assessments for this site are discussed below.

2.1.1 Baseline Ecological Assessment

The facility is located within the City of South Bend corporate limits in a highly industrialized and commercialized urban area. The surface topography is relatively flat and slightly sloping toward the northeast. Surface runoff in the area is collected by the City of South Bend combined storm and sanitary sewer system. The nearest surface water is the St. Joseph River which is located approximately one mile northeast of the facility. The groundwater flow is toward the northeast in the direction of the St. Joseph River. The constituents of concern have been detected only in subsurface soils and groundwater, and the extent of impact has been determined. Therefore, the potential threat to aquatic wildlife in the St. Joseph River is assessed to be non-existent.

There does not appear to be any potentially affected endangered species in the vicinity of the site. No evidence of stressed vegetation or wildlife has been observed at the site. There are no wetlands, riparian areas or other environmentally sensitive areas in the vicinity of the site.

There are limited opportunities for exposure to the constituents identified at the site. There are no large concentrations of wildlife in the immediate vicinity, and the closest residential area is approximately 1/8 mile south (upgradient) of the facility (Figure 1). The site is secured within a seven foot chain-link fence with a designated ingress point attended by security personnel. There is no opportunity for wildlife or the local human population (e.g., children or passers-by) to have access to the site and contact potentially impacted soils or groundwater. Impacted soils, where present, are not at the ground surface but are encountered in the subsurface beneath paved areas and buildings. Likewise, groundwater is encountered at depths greater than 20 feet below the ground surface and there are no groundwater surface discharge points (e.g., springs) in the area.

In summary, the potential for sensitive areas to be affected appears to be minimal.

2.1.2 Background Hydrogeological Assessment

A literature search was performed to provide a background understanding of the regional and local hydrogeology in order to properly guide assessment activities. Since the facility is located in St. Joseph County in northern Indiana the following publications are applicable and were reviewed:

- Professional Technical Staff for the Division of Water, Water Resource Availability in the St. Joseph River Basin, Indiana; Indiana Department of Natural Resources, 1987.

- Geologic Map of the 1st x 2nd Fort Wayne Quadrangle, Indiana, Michigan, and Ohio, Showing Bedrock and Unconsolidated Deposits; Indiana Department of Natural Resources, 1972.
- South Bend - East and South Bend - West, Indiana 7.5-minute Topographic Quadrangle Maps; United States Geologic Survey (1973).
- St. Joseph County Potential Groundwater Contamination Sites; Michiana Area Council of Governments; August 1989.

Physiographically, the facility is located along the southern rim of the Michigan Basin and northeast of the Kankakee Arch, which separates the Illinois Basin from the Michigan Basin. The surface and near-surface geology is part of the Kankakee Lowland. It is characterized by fine-grained Holocene alluvium underlain by thick outwash sand and gravel which overlie lake muds. The unconsolidated surficial deposits are approximately a hundred feet thick and unconformably overlie the Ellsworth Shale, an eroded Devonian bedrock surface (Geologic Map of Indiana; Indiana Geological Survey). The Ellsworth Shale is a predominantly green marine shale with some dark brown/black layers occurring in the lower portions of the unit.

Literature sources concerning the hydrogeology of the area indicate that the facility is located in the St. Joseph Aquifer System. The St. Joseph Aquifer System is primarily composed of fine to medium sand with localized layers of coarse sand and gravel. The total aquifer system thickness ranges from 20 to 400 feet. (Indiana Department of Natural Resources Division of Water; Water Resource Availability in the St. Joseph River Basin, Indiana; 1987). Typically, groundwater is first encountered at depths of 15-20 feet below the ground surface. The regional groundwater flow within the St. Joseph Aquifer System is toward the northeast with a gradient of approximately 0.005 ft/ft, generally following the surface topographic expression (Water Resource Availability in the St. Joseph River Basin, 1987).

According to available reference materials, thin (3 to 5 feet) clay layers are interspersed within the aquifer and a moderately thick deposit of clay/till separates an upper sand and gravel aquifer from a lower more productive sand and gravel aquifer. Also according to available published reference materials, the shallow aquifer unit is unconfined and occurs within 15-20 feet of the surface. Therefore, it is highly susceptible to surface and near-surface sources of groundwater contamination. Reference material suggests that the deep aquifer unit is generally confined and occurs at depths greater than 100 feet below the ground surface.

The on-site investigation indicates that a single, unconfined, aquifer unit consisting of a massive sand unit underlies the facility, extending from the ground surface to a depth of approximately 76 feet below the ground surface. A thirty-seven foot thick interval consisting of interbedded till and sand/gravel units underlies the massive sand unit and extends downward to the bedrock surface, which occurs at a depth of 113 feet, the depth at which auger refusal occurred while drilling monitoring well MW-1D. Individual till and sand/gravel units within this interval are typically several feet thick (see Soil Boring Log for monitoring well MW-1D).

Several rounds of water elevation measurements collected during the site investigation indicate that the depth to groundwater in the unconfined aquifer underlying the site is approximately 25 feet

below ground surface. The expected seasonal fluctuation of groundwater in the site area is several inches based on groundwater elevation data collected during the course of a year. The local groundwater flow is toward the northeast with a gradient of approximately 0.003 ft/ft and an estimated velocity of 103.5 ft/year.

Groundwater from the St. Joseph Aquifer System is utilized as a potable water supply in the area. However, there are no private water supply wells in the vicinity; the City of South Bend provides a municipal water supply to all residential and commercial property in the city. The municipal water supply wells tap the aquifer at a minimum depth of 90 feet and the nearest municipal water supply wells are located upgradient of the site.

2.2 BACKGROUND CONCENTRATIONS

The constituents of concern (i.e., chlorinated compounds and refined petroleum hydrocarbons) do not occur naturally in the environment. Therefore, a background investigation was not performed. Any detected constituents are assumed to be the result of man-made operations.

2.3 SAMPLING METHODOLOGY

APT conducted a site investigation during the period of December 1993 to May 1995. The sampling locations, the media sampled, and the methods utilized are discussed in the following sections.

2.3.1 Sample Matrices

Soil and groundwater were the media investigated during the site investigation. The soil was sampled primarily at three depth intervals: at a depth of approximately eight feet below the ground surface as part of the UST closure sampling; at the water table approximately 21-25 feet below the ground surface; and from a depth interval between 38-42 feet below the ground surface. The latter depth interval contains a distinct (stained) layer of soil which was determined to be impacted by petroleum products.

The groundwater was sampled at the water table 21-25 feet below the ground surface and from a depth interval of approximately 40-45 feet below the ground surface. The monitoring well screens were five feet long and set four feet below the water table for the shallow wells and set at approximately 45 feet for the deep monitoring wells.

Surface water was not sampled because the nearest surface water is located approximately one mile northeast of the facility and it is beyond the extent of the impacted soil and groundwater.

The atmosphere was also not sampled since the opportunity for the constituents of concern to contact the atmosphere is essentially non-existent.

2.3.2 Sample Locations

The site investigation consisted of twenty-four shallow monitoring wells, seventeen deep monitoring wells, and nine soil borings. The shallow wells (identified by a "S" designation) are screened across the water table to identify constituents that would be present on or near the groundwater surface.

The deep wells (identified by a "D" designation) were screened at approximately 40-45 feet to evaluate potentially impacted groundwater resulting from the petroleum impacted soil layer identified in the soil samples at a depth of approximately 38-42 feet. The shallow and deep wells were drilled as well clusters so that the vertical groundwater gradient could be determined and the constituent concentration profiles could be evaluated. The installation of the monitoring wells included continuous split spoon sampling and hydrogeologic characterization of the subsurface deposits. The soil samples for laboratory analysis were typically collected at the water table and from a depth of 38-42 feet below the ground surface. The constituents of concern in groundwater were believed to be in the uppermost portions of the aquifer and at a depth corresponding to the stained interval, respectively. The locations of the monitoring wells and soil borings are presented in Figure 5.

Releases were initially determined to have occurred from the four 4,000-gallon underground storage tanks located under the west building (Figure 4). Therefore, the monitoring wells installed during the early phases of the investigation installed during the early phases of the site investigation (MW-1 through MW-9) are concentrated around these tanks and downgradient of the tanks toward the northeast portion of the facility (Figure 5). Monitoring well/well cluster locations MW-10, MW-11, MW-12, MW-13, MW-15 and MW-25 were installed downgradient of the four USTs during a subsequent phase of the investigation in order to define the extent of the soil and groundwater impact associated with the release and to characterize the local hydrogeologic conditions (Figure 5). The off-site monitoring well/well cluster locations (MW-16, MW-17, MW-18, MW-19, MW-20, United Limo MW-1, MW-3) were installed and sampled to determine the extent of impact off-site.

The soil and groundwater were also evaluated near the locations of the other closed underground storage tank systems at the facility in order to assess the possibility that releases might have occurred from these areas (Figure 5). Monitoring well cluster MW-23S/23D and soil borings TB-5 and TB-6 were installed to investigate the 10,000-gallon tank north of the east building. Soil borings TB-1, TB-2, TB-3, TB-4, TB-7, TB-8, TB-14 and monitoring well MW-24D were installed to ascertain whether or not releases have occurred from the ten UST tank farm located between the east building and the west building. Monitoring well cluster MW-11S/11D is located immediately downgradient of the former 20,000-gallon UST located northwest of the west building. Monitoring well cluster MW-26S/26D was installed downgradient of the former 5,000-gallon gasoline UST located along the eastern side of the west building.

Lastly, several monitoring wells were installed to assess whether any constituents were migrating onto the Allied property from off-site (upgradient or sidegradient) sources (Figure 5). Monitoring well MW-22 was installed at the southern (upgradient) property boundary to evaluate the groundwater quality entering the site. Likewise, monitoring wells MW-5S and MW-5D provide information about the groundwater entering the site from the western boundary. The three monitoring wells (MW-14, MW-21S, MW-21D) along the east boundary of the site provide sidegradient control.

2.3.3 Investigation Methods

All of the soil borings and monitoring wells were drilled using a mobile rig equipped with 4¼ inch inside diameter (ID) continuous flight hollow stem augers. Continuous undisturbed soil samples for geologic and chemical characterization were collected utilizing a two-foot long split-spoon sampler driven ahead of the auger bit in accordance with ASTM Standard Method D1586-84. All soil

borings were advanced until the desired depth was reached, based on either a predetermined depth or the results of field screening using a photoionization detector (PID). Geologic observations, as well as any other apparent physical characteristics (staining, odor) were recorded on boring logs. Each borehole was plugged with bentonite chips after sampling. The boring logs for APT soil borings are included in Appendix A.

Upon opening each two-foot split-spoon sampler, the recovered soil sample was screened at six-inch intervals for VOCs using a PID headspace method, and the observations recorded on the boring log in accordance with the Indiana Department of Environmental Management (IDEM) requirements. The soil sample was then geologically characterized by the site geologist. Representative soil samples were collected from various intervals within the soil borings based either on pre-determined sampling frequency or on the results of the PID head space analysis and analyzed for VOCs, SVOCs, and TPH.

Monitoring well installation was accomplished inside of the hollow stem auger chain. All monitoring wells were constructed of flush-threaded five- and ten-foot sections of Schedule 40 PVC with a five-foot long, 0.010-inch slotted screen. All monitoring wells were of the flush mount design to avoid impeding vehicular traffic and for aesthetic reasons. Monitoring well construction details are provided on the boring logs included in Appendix A.

The following procedure was used when installing monitoring wells:

- The borehole was advanced to the total desired depth using a hollow stem auger, with continuous two-foot long split-spoon sampling for chemical and geologic characterization. At most of the well cluster locations the deep well was drilled first with continuous sampling from the ground surface to the total depth. At those well locations where a deep well was installed subsequent to the installation of the shallow well, split-spoon sampling in the twinned, deep wells commenced at the interval corresponding to the total depth of the adjacent shallow well and continued to the total depth.
- A five-foot long, 0.010-inch slotted PVC screen and ten-foot long sections of flush-threaded PVC riser were installed in the wellbore. The screen in the shallow wells was placed to intersect static groundwater under a variety of climatic seasonal conditions. The screened interval in the deep wells extends from 40-45 feet below the ground surface.
- A sand pack was placed in the wellbore annular space extending from the bottom of the wellbore to two feet above the top of screen.
- The annular space extending from the top of the sand pack to approximately one foot below the ground surface was backfilled using bentonite chips.
- The remaining annular space was filled with cement from the bottom-up.
- The riser pipe was notched for surveying purposes and equipped with a locking cap.

- A flush-mounted, protective steel outer casing was cemented into place for each well, and a two-foot diameter concrete pad was placed around each well. The concrete pad was mounded in order to provide runoff of precipitation and discourage seepage into the well. The protective casing was covered with a screw-down steel cap.

Well development to clear the well screen and sand pack of any fine material which might cause clogging was accomplished by bailing a minimum of three well volumes from the well using a decontaminated bailer. Each well was developed to the satisfaction of the site geologist who monitored the volume of water removed from the well, water color, turbidity, pH, conductivity, and temperature to determine the effectiveness of the development. The well was considered developed when the above criteria became stable. These observations were recorded on the Monitoring Well Development Data form.

2.3.4 Sample Collection

Discrete soil and groundwater grab samples were obtained during all sampling activities. Sampling equipment included a split-spoon soil sampling device, laboratory-supplied sample bottles, disposable Teflon bailers, and disposable latex gloves. Sampling equipment was either decontaminated using a steam cleaner (split-spoons) or discarded after the collection of every sample. No composite or commingled samples were collected for analysis. Soil samples were collected from predetermined depths; from suspected impacted zones based on head-space analysis; or from just above the saturated zone. Samples were assigned a unique sample ID code: the boring number followed by the sampling depth for soil samples (e.g., TB1-1'); or the monitoring well number followed by the code "GW" (to identify the sample as a groundwater sample) and the sampling round (e.g., MW1-GW1); or the tank number followed by the portion of the tank such as tank #4 - bottom east (e.g., T4-BE).

Upon opening each two-foot split-spoon sampler, the recovered soil sample was screened at six-inch intervals for VOCs using a PID head space method, and the observations recorded on the boring log in accordance with the Indiana Department of Environmental Management (IDEM) requirements. The PID screening results can also be found in Table 4. Field screening using head-space analysis was performed by collecting split soil samples and placing one of the samples in a plastic Ziplock bag and the other sample in a laboratory-supplied sample bottle. The soil sample in the Ziplock bag was allowed to sit for approximately 15 minutes in a warm environment to allow constituents to volatilize from the soil, at which time the PID probe was inserted into a small opening in the bag and the VOC concentration measured and recorded in the field log. The split sample containerized in the sample bottle was then either discarded or sent to the laboratory for analysis. While the PID is capable of detecting volatile vapors in the parts-per-million (ppm) range, it was used solely as a field screening device. The PID readings presented in Table 4 do not necessarily correlate to constituent concentrations determined as a result of laboratory analysis of soil samples, which was accomplished using the much more rigorous procedures defined in SW-846.

The following procedure was followed during all soil and groundwater sampling:

- Field sampling equipment was inspected and decontaminated prior to use in the field and between each sample depth interval (e.g., split-spoons) or sampling location (e.g., augers and associated drilling equipment);
- Following geologic characterization, soil samples for laboratory analysis were collected using disposable sterile latex gloves. Each soil sample for VOCs, semi-volatile organic compounds, and TPH analysis was containerized in an appropriate laboratory-provided sample container.
- Monitoring wells were purged of at least three well volumes of water prior to groundwater sampling in order to remove stagnant water from the well and verify that a representative groundwater sample was collected from the transmissive unit. Temperature, conductivity, pH, appearance, and odor were measured or noted and recorded on a Groundwater Sampling Log Sheet. In the event that these indicator parameters were not stable after removing three well volumes of groundwater from the well, an additional two well volumes of water were purged prior to sampling
- Groundwater samples were collected using three-foot long disposable Teflon bailers which were decontaminated by the manufacturer and sealed inside plastic packaging for storage until use. Bailers were not removed from the packaging until immediately prior to sampling.
- To establish the documentation necessary to trace sample possession from the time of collection, a Chain of Custody/Request for Analysis form accompanied each sample shipment. This form contained the sample numbers, the date and time of collection, the sample type, the sample location (i.e., well number), the number of containers, parameters requested for analysis, method of preservation, and signature of person(s) involved in the chain of possession, sample temperature documentation, and the name/address of the laboratory receiving the samples. Copies of the Chain-of-Custody forms for the APT site investigation are included in Appendix B.
- The samples were placed in a cooler packed with ice or ice packs to maintain the samples at approximately 4°C and transported to the laboratory at the earliest opportunity. The cooler was sealed and the appropriate documents were taped to the inside lid of the cooler.

2.4 SAMPLE ANALYSIS

All soil and groundwater samples which were subjected to laboratory analyses were analyzed using SW846 Methods to obtain high-quality data. Those soil samples which were tested for TPH were analyzed using Method 8015-Modified; soil and groundwater samples which were tested for VOCs were analyzed using Method 8240; soil and groundwater samples which were tested for SVOCs were analyzed using Method 8270.

Soil samples were containerized in single 4-ounce widemouth clear glass jars (one jar per sample per analyte) equipped with Teflon sealed lids. Preservation of the soil samples was accomplished by

cooling to 4° C; no other preservation technique was used. Groundwater samples that were analyzed for VOCs were containerized in two 40-ml clear glass vials per sample and preserved with HCl to a pH of less than 2. Groundwater samples that were analyzed for SVOCs or TPH were containerized in two 1-L amber glass bottle with Teflon sealed lids. Groundwater samples were also cooled to a temperature of 4° C. A summary of analytical methods and sample collection requirements is presented in Table 5. A summary of the soil and groundwater sampling performed at the facility, including sample numbers, dates, and analyses is presented in Table 6.

2.5 SITE INVESTIGATION RESULTS

The results of the APT site investigation are presented in the following sections and include the results of the laboratory analyses performed on soil and groundwater samples, as well as a characterization of the hydrogeologic framework at the site.

2.5.1 Soil Sample Analysis Results

The site investigation included the collection and analyses of 82 soil samples for constituents that may have been released from the seventeen former USTs at the facility. A total of 54 of these soil samples were collected from soil borings and monitoring wells drilled during the site investigation, and 28 soil samples were collected during closure of the four USTs located beneath the west building. Seventy-one of the 82 soil samples were analyzed for TPH, forty-seven samples were analyzed for VOCs, and seventy-three samples were analyzed for SVOCs (Table 6). The results of these analyses are discussed below.

TPH

Seventy-one soil samples were analyzed for TPH. Forty-three samples were collected from soil boring and monitoring well locations and twenty-eight samples were collected during the closure of the four tank UST system located beneath the west building.

Petroleum hydrocarbons were detected in eight of the forty-three soil boring samples and in five of the twenty-eight UST closure samples. The concentration of TPH in these samples ranged from 11 mg/kg (MW15D-40') to 30,000 mg/kg (MW1D-38'). The petroleum hydrocarbons were identified as motor oil and diesel. The observed TPH concentrations exceeded the IDEM LUST cleanup objective of 100 mg/kg in four of the soil boring samples and two of the UST closure samples: MW1D-38' (39,000 mg/kg TPH-motor oil); MW2-21' (930 mg/kg TPH-motor oil); MW7-40' (320 mg/kg TPH-diesel); MW20D-42' (290 mg/kg TPH-diesel); T4-SSE (2,300 mg/kg TPH-diesel); and T4-NSW (3,600 mg/kg TPH-diesel).

Monitoring wells MW-1D, MW-2, and MW-7 are located immediately downgradient of the four tank UST system and MW-20D is an off-site monitoring well located northeast of the Allied facility.

The remaining four TPH detections (i.e., those where the TPH concentration was less than 100 mg/kg) correspond to soil samples collected from soil boring locations MW-4, MW-15D, and TB-5 (two samples). Soil sample MW4-21', collected at a location downgradient of the four tank UST system, contained 43 mg/kg TPH-motor oil. TPH-gasoline was detected at a concentration of 11 mg/kg in MW15D-40' which is located along the northern boundary of the site. Soil boring TB-5, which is downgradient of the former 10,000-gallon UST located north of the east building, had TPH

detections at two depths. TPH-motor oil was detected at a concentration of 78 mg/kg at TB5-11', and TPH-gasoline was detected at a concentration of 59 mg/kg at TB5-24'.

A summary of the TPH analytical results for the soil samples is presented in Table 7. The horizontal and vertical distributions of TPH in soil are presented in Figures 6 and 7.

VOCs

Forty-seven soil samples were analyzed for VOCs. Twenty-eight soil samples were collected during the closure of the four former 4,000-gallon UST system located beneath the west building, and nineteen soil samples were collected from 17 soil boring and monitoring well boring locations.

All twenty-eight of the closure samples and eighteen of the nineteen samples collected from soil borings/monitoring well borings exhibited detectable concentrations of one or more VOC constituents. Acetone, 2-butanone, carbon disulfide, 1,2-dichloroethene, ethylbenzene, 2-hexanone, methylene chloride, 1,1,2,2-tetrachloroethane, tetrachloroethene, toluene, trichloroethene, and xylenes were detected in at least one sample.

Acetone was detected in 37 samples at concentrations ranging from 2.0 ug/kg (MW13S-23.4') to 1,000 ug/kg (T1-SSE). The constituent 2-butanone was detected in 19 samples at concentrations ranging from 2.6 ug/kg (T1-WE and T2-SSW) to 44 ug/kg (T4-BE). Carbon disulfide was detected in one sample (T4-NSE) at a concentration of 2.7 ug/kg. The constituent 1,2-dichloroethene was detected in two samples at concentrations of 5.8 ug/kg (T3-EE) and 8.7 ug/kg (T4-NSE). Ethylbenzene was detected in two samples at concentrations of 4.2 ug/kg (T3-EE) and 6.1 ug/kg (T4-NSE). The constituent 2-hexanone was detected in one sample (T4-BE) at a concentration of 12 ug/kg. Methylene chloride was detected in 17 samples at concentrations ranging from 2.0 ug/kg (MW15S-25.5') to 22 ug/kg (T1-EE). The constituent 1,1,2,2-tetrachloroethane was detected in one sample (T1-SSE) at a concentration of 610 ug/kg. Tetrachloroethene was detected in 35 samples at concentrations ranging from 3.9 ug/kg (MW6-21.5') to 72,000 ug/kg (T2-SSE). Toluene was detected in six samples at concentrations ranging from 2.4 ug/kg (T4-SSE) to 7 ug/kg (T4-NSE). Trichloroethene was detected in four samples at concentrations ranging from 2.0 ug/kg (MW15S-25.5') to 6.8 ug/kg (T3-EE). Xylenes were detected in four samples at concentrations ranging from 2.5 ug/kg (MW1D-38') to 24 ug/kg (T4-NSE).

Two VOC constituents were detected in soil samples at concentrations exceeding their VRP Tier II cleanup objectives for a non-residential scenario: PCE and 1,1,2,2-tetrachloroethane. The cleanup objective of 8,010 ug/kg for PCE was exceeded in six of the 28 UST closure soil samples collected from the immediate vicinity of the four 4,000-gallon USTs. The cleanup objective of 210 ug/kg for 1,1,2,2-tetrachloroethane was exceeded in UST closure sample T1-SSE. None of the soil samples collected from the soil borings and monitoring wells exhibited VOC concentrations in excess of the VRP Tier II cleanup objectives for a non-residential scenario. Also acetone, 2-butanone, and methylene chloride are common laboratory contaminants. The observed concentrations of these three constituents may be artifacts of laboratory contamination.

The analytical results for VOCs are summarized in Table 8. The vertical and horizontal distribution of PCE in soil is illustrated in Figures 8 and 9.

detections at two depths. TPH-motor oil was detected at a concentration of 78 mg/kg at TB5-11', and TPH-gasoline was detected at a concentration of 59 mg/kg at TB5-24'.

A summary of the TPH analytical results for the soil samples is presented in Table 7. The horizontal and vertical distributions of TPH in soil are presented in Figures 6 and 7.

VOCs

Forty-seven soil samples were analyzed for VOCs. Twenty-eight soil samples were collected during the closure of the four former 4,000-gallon UST system located beneath the west building, and nineteen soil samples were collected from 17 soil boring and monitoring well boring locations.

All twenty-eight of the closure samples and eighteen of the nineteen samples collected from soil borings/monitoring well borings exhibited detectable concentrations of one or more VOC constituents. Acetone, 2-butanone, carbon disulfide, 1,2-dichloroethene, ethylbenzene, 2-hexanone, methylene chloride, 1,1,2,2-tetrachloroethane, tetrachloroethene, toluene, trichloroethene, and xylenes were detected in at least one sample.

Acetone was detected in 37 samples at concentrations ranging from 2.0 ug/kg (MW13S-23.4') to 1,000 ug/kg (T1-SSE). The constituent 2-butanone was detected in 19 samples at concentrations ranging from 2.6 ug/kg (T1-WE and T2-SSW) to 44 ug/kg (T4-BE). Carbon disulfide was detected in one sample (T4-NSE) at a concentration of 2.7 ug/kg. The constituent 1,2-dichloroethene was detected in two samples at concentrations of 5.8 ug/kg (T3-EE) and 8.7 ug/kg (T4-NSE). Ethylbenzene was detected in two samples at concentrations of 4.2 ug/kg (T3-EE) and 6.1 ug/kg (T4-NSE). The constituent 2-hexanone was detected in one sample (T4-BE) at a concentration of 12 ug/kg. Methylene chloride was detected in 17 samples at concentrations ranging from 2.0 ug/kg (MW15S-25.5') to 22 ug/kg (T1-EE). The constituent 1,1,2,2-tetrachloroethane was detected in one sample (T1-SSE) at a concentration of 610 ug/kg. Tetrachloroethene was detected in 35 samples at concentrations ranging from 3.9 ug/kg (MW6-21.5') to 72,000 ug/kg (T2-SSE). Toluene was detected in six samples at concentrations ranging from 2.4 ug/kg (T4-SSE) to 7 ug/kg (T4-NSE). Trichloroethene was detected in four samples at concentrations ranging from 2.0 ug/kg (MW15S-25.5') to 6.8 ug/kg (T3-EE). Xylenes were detected in four samples at concentrations ranging from 2.5 ug/kg (MW1D-38') to 24 ug/kg (T4-NSE).

Two VOC constituents were detected in soil samples at concentrations exceeding their VRP Tier II cleanup objectives for a non-residential scenario: PCE and 1,1,2,2-tetrachloroethane. The cleanup objective of 8,010 ug/kg for PCE was exceeded in six of the 28 UST closure soil samples collected from the immediate vicinity of the four 4,000-gallon USTs. The cleanup objective of 210 ug/kg for 1,1,2,2-tetrachloroethane was exceeded in UST closure sample T1-SSE. None of the soil samples collected from the soil borings and monitoring wells exhibited VOC concentrations in excess of the VRP Tier II cleanup objectives for a non-residential scenario. Also acetone, 2-butanone, and methylene chloride are common laboratory contaminants. The observed concentrations of these three constituents may be artifacts of laboratory contamination.

The analytical results for VOCs are summarized in Table 8. The vertical and horizontal distribution of PCE in soil is illustrated in Figures 8 and 9.

SVOCs

Seventy-three soil samples were collected and analyzed for SVOCs. Forty-five samples were collected from 29 soil boring and monitoring well locations and twenty-eight samples were collected during the four tank UST closure.

Sixty of the seventy-three soil samples (thirty-nine of the forty-five soil boring/monitoring well samples and twenty-one of the twenty-eight closure samples) exhibited detectable concentrations of one or more SVOC constituents. Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (ghi) perylene, benzo (k) fluoranthene, bis(2-ethylhexyl) phthalate, carbazole, chrysene, di-n-butyl phthalate, diethyl phthalate, di-n-octyl phthalate, fluoranthene, indeno (1,2,3-cd) pyrene, 2-methylnaphthalene, naphthalene, phenathrene, and pyrene were detected in at least one sample.

Benzo (a) anthracene was detected in three samples at concentrations ranging from 51 ug/kg at (MW25D-26') to 120 ug/kg (MW15D-40' and TB5-11'). Benzo (a) pyrene was detected in four samples at concentrations ranging from 6.9 ug/kg (MW2-21') to 130 ug/kg (TB5-11'). Benzo (b) fluoranthene was detected in four samples at concentrations ranging from 51 ug/kg (MW25D-26') to 200 ug/kg (TB5-11'). Benzo (ghi) perylene was detected in three samples at concentrations ranging from 35 ug/kg (MW2-21') to 60 ug/kg (TB5-11'). Benzo (k) fluoranthene was detected in three samples at concentrations ranging from 44 ug/kg (TB1-12') to 80 ug/kg (TB5-11'). Bis(2-ethylhexyl) phthalate was detected in 35 samples at concentrations ranging from 43 ug/kg (MW21D-25') to 4,600 ug/kg (MW11D-25'). Carbazole was detected in one sample (T1-NSW) at a concentration of 35 ug/kg. Chrysene was detected in five samples at concentrations ranging from 50 ug/kg (MW25D-26') to 930 ug/kg (T3-NSE). Di-n-butyl phthalate was detected in 49 samples at concentrations ranging from 37 ug/kg (T3-BW) to 1,800 ug/kg (TB7-25'). Diethyl phthalate was detected in one sample (T2-SS) at a concentration of 42 ug/kg. Di-n-octyl phthalate was detected in one sample (MW21D-44') at a concentration of 240 ug/kg. Fluoranthene was detected in six samples at concentrations ranging from 49 ug/kg (TB1-12') to 300 ug/kg (TB5-11'). Indeno (1,2,3-cd) pyrene was detected in three samples at concentrations ranging from 37 ug/kg (MW2-21') to 60 ug/kg at (TB5-11'). The constituent 2-methylnaphthalene was detected in one sample (TB5-24') at a concentration of 200 ug/kg. Naphthalene was detected in one sample (TB5-24') at a concentration of 230 ug/kg. Phenathrene was detected in nine samples at concentrations ranging from 50 ug/kg (MW25D-42') to 2,100 ug/kg (T4-SSE). Pyrene was detected in eight samples at concentrations ranging from 42 ug/kg (MW10D-42') to 670 ug/kg at (T3-NSE).

However, neither the IDEM LUST nor the Tier II cleanup objectives for individual SVOC constituents were exceeded in any of the samples, nor was the cleanup goal for total SVOCs of 10,000 mg/kg exceeded in any samples. The analytical results are presented in Table 9 and the distribution of total SVOCs is illustrated in Figure 10.

2.5.2 Groundwater Sample Analysis Results

The site investigation included the analyses of 68 groundwater samples. Thirty-four samples were analyzed for TPH, forty-three samples were analyzed for VOCs, and twenty-six samples were analyzed for SVOCs (Table 6). The results of these analyses are discussed below.

TPH

Thirty-four groundwater samples were collected from 32 monitoring wells (both shallow and deep) and analyzed for TPH (Table 6). Petroleum hydrocarbons were detected in 18 of these 34 samples. The IDEM LUST cleanup objective of 100 ug/L was exceeded in all eighteen samples.

Several sampling locations downgradient from former UST systems exhibited TPH concentrations above the cleanup objective. The analytical data indicates that relatively high concentrations of TPH are present in groundwater: near the former four 4,000-gallon UST system under the west building; downgradient of the 10,000-gallon UST located northeast of the east building; downgradient of the former 5,000-gallon UST located along the east wall of the west building; downgradient of the former 20,000-gallon UST located northwest of the west building; at off-site locations approximately 0.25 mile northeast of the Allied facility; and the southeast corner of the facility.

TPH-motor oil, TPH-diesel fuel, and TPH-gasoline constituents were identified in monitoring wells located downgradient of the of the former four tank UST system.

Groundwater samples collected from monitoring wells MW-E, MW-2, MW-3, MW-4, MW-7, and MW-12 exhibited TPH concentrations ranging from 100 ug/L (MW-15S) to 42,000 ug/L (MW-E). TPH-motor oil was identified in groundwater samples collected from monitoring wells MW-E (42,000 ug/L); MW-2 (1,400 ug/L), MW-3 (2,500 ug/L); MW-4 (1,400 ug/L); and MW-12 (570 ug/L). TPH-diesel fuel at a concentration of 260 ug/L was identified in a groundwater sample collected from monitoring well MW-7. TPH-gasoline at a concentration of 150 ug/L was identified in a groundwater sample collected from monitoring well MW-2. An unknown hydrocarbon (i.e., not able to be fingerprinted) was detected at a concentration of 130 ug/L in a sample collected from monitoring well MW-7.

TPH-mineral spirits were detected in monitoring well MW-23S located downgradient of the former 10,000-gallon UST system excavation. A groundwater sample collected from this well exhibited a TPH-mineral spirits concentration of 88,000 ug/L. No petroleum hydrocarbons were detected a sample collected from monitoring well MW-23D.

TPH-gasoline and TPH-motor oil were detected at monitoring well cluster location MW-13 and MW-15, both located downgradient of the former 5,000-gallon UST located along the east wall of the west building. Groundwater samples collected from monitoring wells MW-13D and MW-15D exhibited TPH-gasoline concentrations of 120 ug/L and 560 ug/L, respectively. TPH-motor oil was detected at a concentration of 270 ug/L in a sample collected from monitoring well MW-13S. An unknown hydrocarbon was detected at a concentration of 100 ug/L in a sample collected from monitoring well MW-15S.

An unknown hydrocarbon (i.e., not able to be fingerprinted) was detected at a concentration of 840 ug/L in a sample collected from MW-11D. This monitoring well is located immediately downgradient of a former 20,000-gallon UST northwest of the west building.

TPH-gasoline and an unknown hydrocarbon were detected in off-site monitoring wells MW-16D, MW-18D, and MW-20D. Groundwater samples collected from three monitoring wells exhibited TPH concentrations ranging from 110 ug/L (MW-20D) to 480 ug/L (MW-16D). TPH-gasoline was identified in groundwater samples collected from monitoring wells MW-18D (420 ug/L) and MW-20D (110 ug/L). An unidentifiable hydrocarbon was detected at a concentration of 480 ug/L in a sample collected from monitoring well MW-16D.

TPH-gasoline and TPH-motor oil constituents were identified in monitoring well MW-22. Three groundwater samples collected from this well indicate the presence of petroleum hydrocarbons in the groundwater at this location. TPH-gasoline and TPH-motor oil were detected at concentrations of 220 ug/L and 1,900 ug/L, respectively, in one sample; TPH-gasoline was detected at a concentration of 160 ug/L in a second sample; and TPH-motor oil was detected at a concentration of 390 ug/L in a third sample. These petroleum hydrocarbons appears have an off-site source since monitoring well MW-22 is located near the upgradient property line.

The results from the TPH analyses of groundwater samples are summarized in Table 10. The distribution of TPH in the samples from shallow wells is presented in Figure 11; the distribution from the deep well sample analyses is presented in Figure 12. The vertical distribution of TPH in the groundwater is illustrated in Figure 13.

VOCs

Forty-three groundwater samples were analyzed for VOCs (Table 6). Forty of the samples contained detectable concentrations of one or more VOC constituents. Acetone, 2-butanone, 1,1-dichloroethane, 1,2-dichloroethene, ethylbenzene, methylene chloride, tetrachloroethene, toluene, 1,1,1-trichloroethane, vinyl chloride, and xylenes were detected in at least one sample.

Acetone was detected in eight samples at concentrations ranging from 3.0 ug/L (MW17S-GW) to 15 ug/L (WW2-GW1). The constituent 2-butanone was detected in two samples at concentrations of 3.8 ug/L (MW18D-GW1) to 8.4 ug/L (MW16D-GW1). The constituent 1,1-dichloroethane was detected in one sample (MW19S-GW1) at a concentration of 2.1-ug/L. The constituent 1,2-dichloroethene was detected in five samples at concentrations ranging from 4.0 ug/L (MW12-GW1) to 42 ug/L (MW13S-GW1). Ethylbenzene was detected in four samples at concentrations ranging from 3.4 ug/L (MW-5 and MW5D-GW1) to 5.5 ug/L (MW20S-GW1). Methylene chloride was detected in three samples at concentrations ranging from 2.3 ug/L (MW-6) to 5.3 ug/L (MW-Exst). Tetrachloroethene was detected in 19 samples at concentrations ranging from 2.3 ug/L (MW-4) to 510 ug/L (MW15S-GW1). Toluene was detected in nine samples at concentrations ranging from 2.0 ug/L (MW10D-GW1) to 34 ug/L (MW20S-GW1). The constituent 1,1,1-trichloroethane was detected in nine samples at concentrations ranging from 2.2 ug/L (MW23D-GW1) to 6.8 ug/L (MW20D-GW1 and MW21S-GW1). Vinyl chloride was detected in two samples at concentrations of 7.3 ug/L (MW-Exst) to 26 ug/L (MW17S-GW1). Xylenes were detected in 8 samples at concentrations ranging from 7.1 ug/L (MW24D-GW1) to 300 ug/L (MW23S-GW1).

Two constituents were detected above the VRP Tier II non-residential scenario cleanup criteria: tetrachloroethene and vinyl chloride. PCE was detected at concentrations exceeding the Tier II cleanup goal of 56.1 ug/L in eight samples (MW-1, MW-2, MW-6, MW13-GW1, MW13D-GW1, MW15D-GW1, and MW15-GW2). The highest concentrations of PCE were measured at monitoring wells MW-13S, MW-13D, MW-15S and MW-15D which are located in the northern portion of the site. Concentrations of PCE in groundwater samples collected from these wells are 410 ug/L, 460 ug/L, 510 ug/L, and 240 ug/L, respectively. The remaining samples which contained PCE at concentrations above the cleanup objective were collected from monitoring wells located near the former four 4,000-gallon UST system beneath the west building. Groundwater samples collected from MW-1S, MW-2, and MW-6 contained PCE concentrations of 110 ug/L, 320 ug/L, and 150 ug/L, respectively.

Vinyl chloride (a byproduct of the degradation of PCE) was detected in one sample (MW17S-GW1) at a concentration exceeding the Tier II cleanup goal of 10 ug/L. Monitoring well MW-17S is an off-site-monitoring well located northeast of the Allied property.

The groundwater sample analyses are summarized in Table 11 and the distribution of PCE in groundwater is illustrated in Figures 14, 15 and 16.

SVOCs

Twenty-six groundwater samples were analyzed for SVOCs (Table 6). Twenty-one of the samples contained detectable concentrations of one or more SVOC constituents. Benzo (b) fluoranthene, bis(2-ethylhexyl) phthalate, carbazole, chrysene, di-n-butyl phthalate, diethyl phthalate, di-n-octyl phthalate, fluoranthene, 2-methylnaphthalene, naphthalene, 4-nitrophenol, pentachlorophenol, phenol, and pyrene were detected in at least one sample

Benzo (b) fluoranthene was detected in two samples at concentrations of 1.6 ug/L (MW-3) to 6.0 ug/L (MW-3). Bis (2-ethylhexyl) phthalate was detected in 18 samples at concentrations ranging from 1.0 ug/L (MW18D-GW2) to 300 ug/L (MW-Exst). Carbazole was detected in one sample (MW18D-GW1) at a concentration of 1.0 ug/L. Chrysene was detected in three samples at concentrations ranging from 1.6 ug/L (MW-3) to 13 ug/L (MW-Exst). Di-n-butyl phthalate was detected in seven samples at concentrations ranging from 1.0 ug/L (MW13D-GW1) to 2.5 ug/L (MW23D-GW1). Di-n-octyl phthalate was detected in one sample (MW16D-GW2) at a concentration of 1.3 ug/L. Fluoranthene was detected in three samples at concentrations ranging from 1.4 ug/L (MW-6) to 18 ug/L (MW-3). The constituent 2-methylnaphthalene was detected in one sample (MW23S-GW1) at a concentration of 160 ug/L. Naphthalene was detected in four samples at concentrations ranging from 1.2 ug/L (MW25D-GW1) to 520 ug/L (MW23S-GW1). The constituent 4-nitrophenol was detected in one sample (MW23S-GW1) at a concentration of 12 ug/L. Pentachlorophenol was detected in one sample (MW-3) at a concentration of 82 ug/L. Phenol was detected in one sample (MW18D-GW1) at a concentration of 1.5 ug/L. Pyrene was detected in three samples at concentrations ranging from 3.4 ug/L (MW-3) to 12 ug/L (MW-3).

Two SVOC constituents were detected above the VRP Tier II non-residential scenario cleanup objective: bis(2-ethylhexyl) phthalate and pentachlorophenol. The sample collected from monitoring well MW-E contained bis(2-ethylhexyl) phthalate at a concentration of 300 ug/L. However, bis(2-ethylhexyl) phthalate is a common laboratory contaminant, and it was not utilized in the facility's manufacturing operations. A second sample, collected from monitoring well MW-3 detected pentachlorophenol at a concentration of 82 ug/L. This location was resampled and pentachlorophenol was not detected.

The results from the SVOC analyses of groundwater samples are summarized in Table 12. The distribution of SVOCs is illustrated in Figures 17 and 18.

2.5.2 Hydrogeologic Investigation Results

Geologic observations made during the drilling program at the Allied Facility indicate that there are two stratigraphic units present beneath the facility. A massive medium to coarse grained sand unit with occasional gravel and silt lenses extends from the topsoil to a depth of approximately 80 feet beneath the surface. A second stratigraphic unit consisting of interbedded sands and clayey silt deposits extends from a depth of approximately 80 feet to bedrock (located at a depth of

approximately 113 feet beneath the ground surface in MW-1D). The sand and clayey silt layers range in thickness from 1 to 10 feet.

Hydrologically, the uppermost unit serves as a massive unconfined aquifer unit with no continuous impermeable layers. The water table is consistently encountered between 21-26 feet below the ground surface in all the monitoring wells on the site. A potentiometric map (Figure 21) developed using groundwater elevation data collected during the site investigation (Table 13) indicates that groundwater flow is toward the northeast, which is consistent with published regional trends and with the local topography. The groundwater gradient (I) is approximately 0.003 ft/ft, and was calculated using the total relative change in groundwater elevation parallel to the direction of flow (i.e., from the most upgradient contour to the most downgradient contour presented in Figure 21) divided by the distance between these two points. The degree of seasonal fluctuation in groundwater elevations was assessed according to water level elevations collected at various times between April 1994 and May 1995 (Table 13). The data indicates that the temporal fluctuations in groundwater elevations are on the order of a few inches. Since the fluctuations were approximately uniformly experienced in all the monitoring wells, the direction of groundwater flow appears to remain constant over time.

While the hydraulic conductivity (k) of the upper sand unit has not been measured, a value of 1×10^{-2} cm/s is typical for these types of deposits. If the effective porosity (n) is assumed to be on the order of 0.30, then an estimated maximum groundwater flow velocity (v) of approximately 0.288 feet/day (105 feet/year) can be calculated using the Darcy equation: $v = (k)(i)/(n)$. This velocity would also approximate the migration rate of volatile constituents entrained in the groundwater. However, the migration rate of petroleum hydrocarbon constituents is expected to be somewhat slower than that of volatile constituents due to their physical and chemical properties.

The individual sand layers in the lower unit may be in hydraulic communication with the upper unit depending on the lateral continuity of the silt layers which occur in this unit. North-south and east-west cross-sectional depictions of the hydrostratigraphic framework are presented in Figures 19 and 20.

3.0 CONCLUSIONS

The results of the site investigation conducted by APT at the Allied facility indicates:

- A single, unconfined, sole source aquifer is present beneath the site. This aquifer unit consists of medium to coarse grained, gravely sands which extend to a depth of approximately eighty feet, and an interbedded sand and clay interval extending from approximately 80 feet to 113 feet (bedrock);
- Soil has been impacted above action limits by 1,1,2,2-tetrachloroethane, PCE, and TPH constituents.
- Groundwater have been impacted above action limits by vinyl chloride, PCE, and TPH constituents.

- There are multiple sources of the observed aforementioned impact. Specifically, TPH releases are believed to have occurred from four separate former UST systems. The PCE release appears to have occurred at a single former UST system.
- The site poses a minimal risk to human health and other sensitive populations. The opportunities for exposure to impacted soil and groundwater are limited given the site characteristics.

The impacted soil areas are confined to the immediate vicinity of former UST systems. Soil impact in the vicinity of a former four tank UST system beneath the west building consists of TPH-motor oil, TPH-diesel, 1,1,2,2-tetrachloroethane, and PCE. Soil impact in the vicinity of a former 10,000-gallon UST located near the northeast corner of the east building consists of TPH-motor oil and TPH-gasoline. Soil impact in the vicinity of a former 20,000-gallon UST located near the northwest corner of the west building consists of unknown (i.e., not able to be fingerprinted) petroleum hydrocarbons.

The extent of impacted groundwater is greater than the extent of impacted soil, and extends beyond the downgradient property boundary. The TPH impact in groundwater appears to be the result of releases from multiple sources whereas the PCE impact in groundwater appears to originate from a single source, the four 4,000-gallon USTs located beneath the west building.

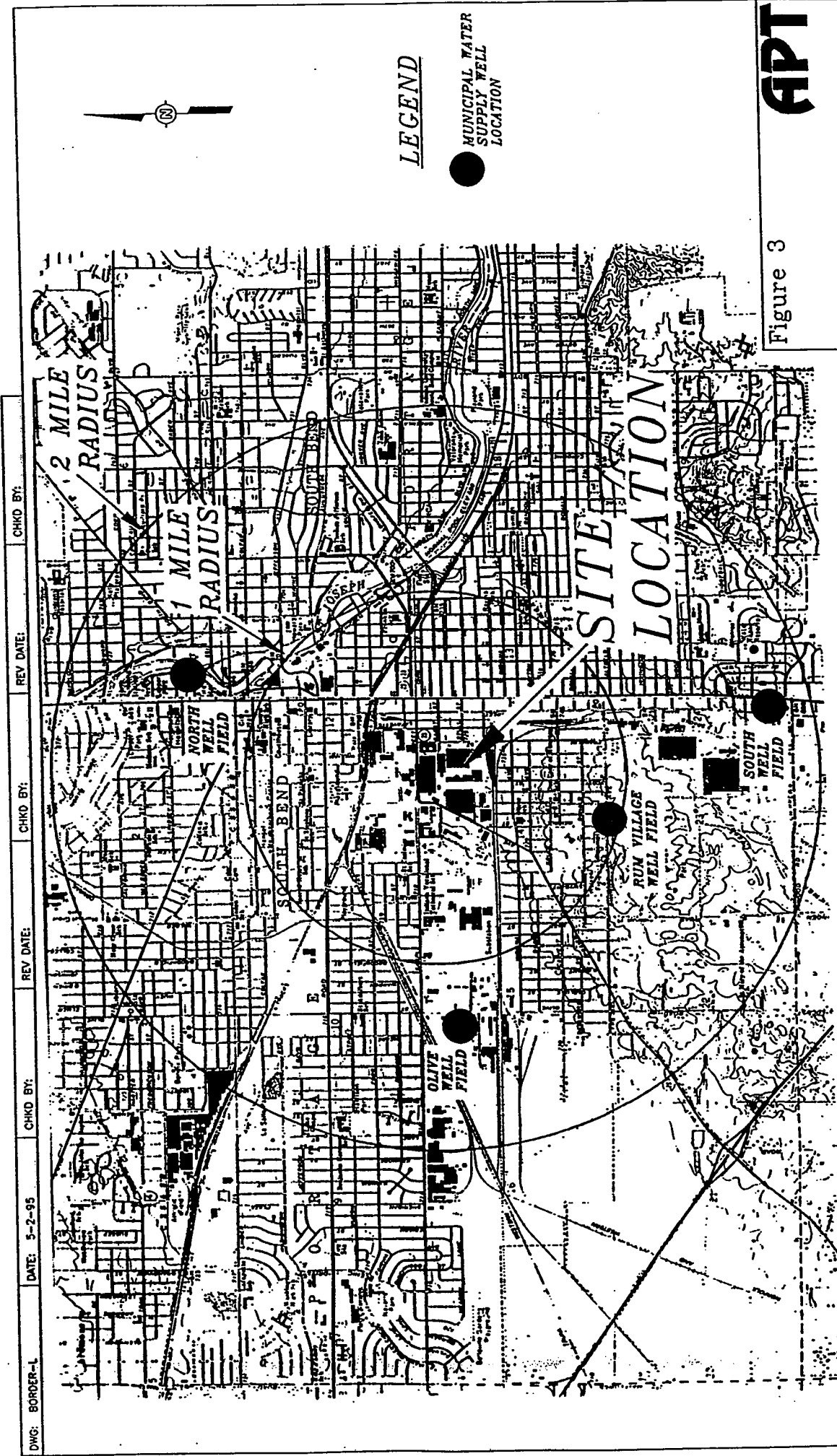
The maximum PCE concentrations were observed in MW-15S and MW-15D, located at the downgradient property boundary. This distribution pattern is consistent with historical data which indicates that a PCE-containing material was stored in the four 4,000-gallon USTs located under the west building during the 1960s. Since these USTs have not been used to store PCE-containing compounds since the 1960s, the zone of maximum PCE impact would be expected to migrate in a downgradient direction with the groundwater flow over time.

The geometric distribution and variation in type of petroleum hydrocarbons (e.g., TPH-gasoline) detected in groundwater at the facility suggests that there are four separate sources of the TPH impact. There appears to be a diesel and motor oil source at the location of the four 4,000-gallon USTs located beneath the west building (see Figures 6, 11, and 12). These USTs were reported to have contained various petroleum products prior to the 1960s and during the 1970s. A second source of petroleum hydrocarbons appears to be the former 5,000-gallon UST located along the east wall of the west building. Prior to closure in 1992, this UST reportedly contained gasoline. Gasoline was detected in monitoring wells downgradient of this UST, but not in upgradient monitoring wells located between this UST and the four 4,000-gallon USTs (see Figure 12). A third TPH source appears to be the former 20,000-gallon UST located northwest of the west building. Petroleum hydrocarbons (unknown patterns) were detected in a monitoring well located immediately downgradient of the former 20,000-gallon UST (see Figure 12). The former 10,000-gallon UST located north of the east building is a source of groundwater impact. Mineral spirits were detected in monitoring well MW-23S located adjacent to the former UST. Soil impact was detected at the time of closure, and motor oil and degraded gasoline were detected in soil samples collected in soil boring TB-5, also located adjacent to the former UST. The former UST is located near the facility property boundary, and Allied was unable to obtain permission to place monitoring wells immediately downgradient of the former UST system. This UST reportedly contained gasoline, kerosene, and mineral spirits during its lifetime.

The presence of an impacted soil layer at a depth of 38-40 feet below the ground surface, and the observation that the TPH impact is greater at depth in the aquifer (deep wells verses shallow wells), is possibly explained by the presence of three large capacity 36-inch diameter water supply wells at the facility (Figure 5). These wells were reportedly used to provide process water for use in the manufacturing operations. It is likely that large-scale pumping of groundwater from these wells lowered the water table to a substantial degree. Any petroleum releases occurring during this period would impact the soil at the elevation of the existing water table, since petroleum products tend to be less dense than water. This impacted soil horizon would continue to be an ongoing source of petroleum hydrocarbons in groundwater even after the original source area (i.e. the UST systems) had been removed.

The site investigation indicates that the site does not pose a risk to human health. The impacted soil is located on the Allied property at a minimum depth of 20 feet below the ground surface. The impacted groundwater is approximately 25 feet below the ground surface and no discharges to the surface have been identified. The groundwater is flowing to the northeast at an estimated velocity of 105 feet/year. The nearest municipal water supply well is one mile upgradient of the facility. The other municipal wells identified in Figure 3 are more than one mile from the site. The St. Joseph River is the closest surface water and is located approximately one mile from the site. The area is provided with a municipal water supply from the City of South Bend. The nearest municipal well fields draw the water supply from a minimum depth of 90 feet below the ground surface and are located upgradient of the facility (see Figure 3).

Preliminary remediation alternatives have been investigated for treatment of the impacted soil and groundwater associated with the site. A groundwater pump and treatment system using granular activated carbon is suggested to remove both the PCE and TPH constituents from groundwater. Air stripping was discarded as a groundwater remediation option due to the presence to TPH which is not readily removed using this technique. Bioventing is recommended to remediate the impact of soil in the vadose zone. Although a preliminary evaluation has been performed with respect to the observed impact and physical characteristics of the site, the actual remediation system will be designed based on the results of feasibility studies and treatability studies, including groundwater flow/constituent transport modeling, specifically designed to assess the performance of various remediation techniques on the site constituents and environment.



DWG: BORDER-L DATE: 5-2-95 CHKD BY: REV DATE: CHKD BY: REV DATE: CHKD BY:



LEGEND

● MUNICIPAL WATER SUPPLY WELL LOCATION

APT

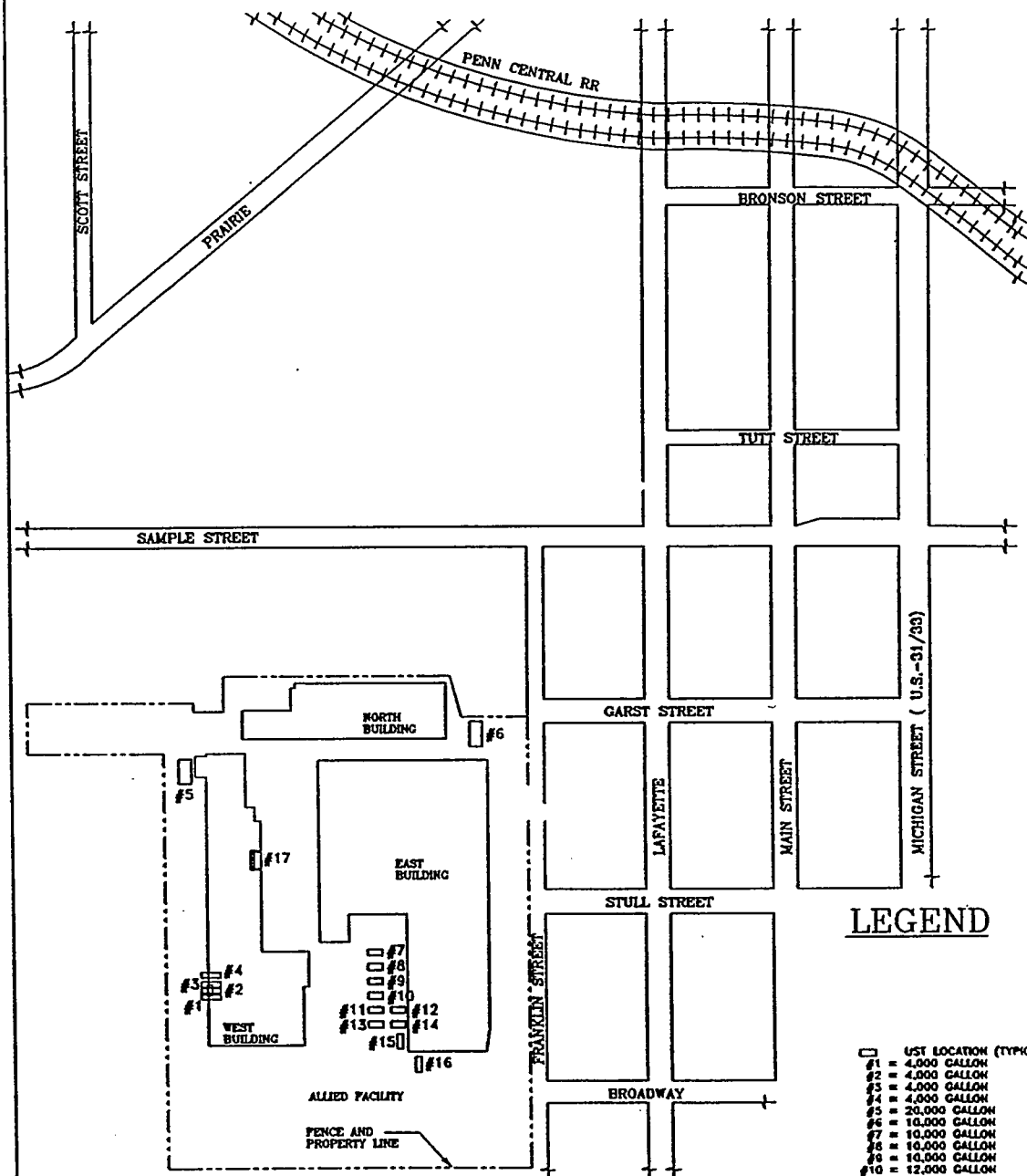
Figure 3

WATER SUPPLY WELLS
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA
 PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS



SOURCE: U.S.C.S. 7.5-MINUTE TOPOGRAPHIC MAP: SOUTH BEND EAST, IN QUAD (REVISED 1991) AND SOUTH BEND WEST, IN QUAD (PHOTOREVISED 1986).

5-31-95



LEGEND

- UST LOCATION (TYPICAL)
- #1 = 4,000 GALLON
- #2 = 4,000 GALLON
- #3 = 4,000 GALLON
- #4 = 4,000 GALLON
- #5 = 20,000 GALLON
- #6 = 10,000 GALLON
- #7 = 10,000 GALLON
- #8 = 10,000 GALLON
- #9 = 10,000 GALLON
- #10 = 12,000 GALLON
- #11 = 12,000 GALLON
- #12 = 10,000 GALLON
- #13 = 12,000 GALLON
- #14 = 10,000 GALLON
- #15 = 8,000 GALLON
- #16 = 10,000 GALLON
- #17 = 5,000 GALLON

SOURCE: SURVEY MAP BY L. STRACHMAN,
 SCALE 1in = 80ft., DATED 3-13-85.



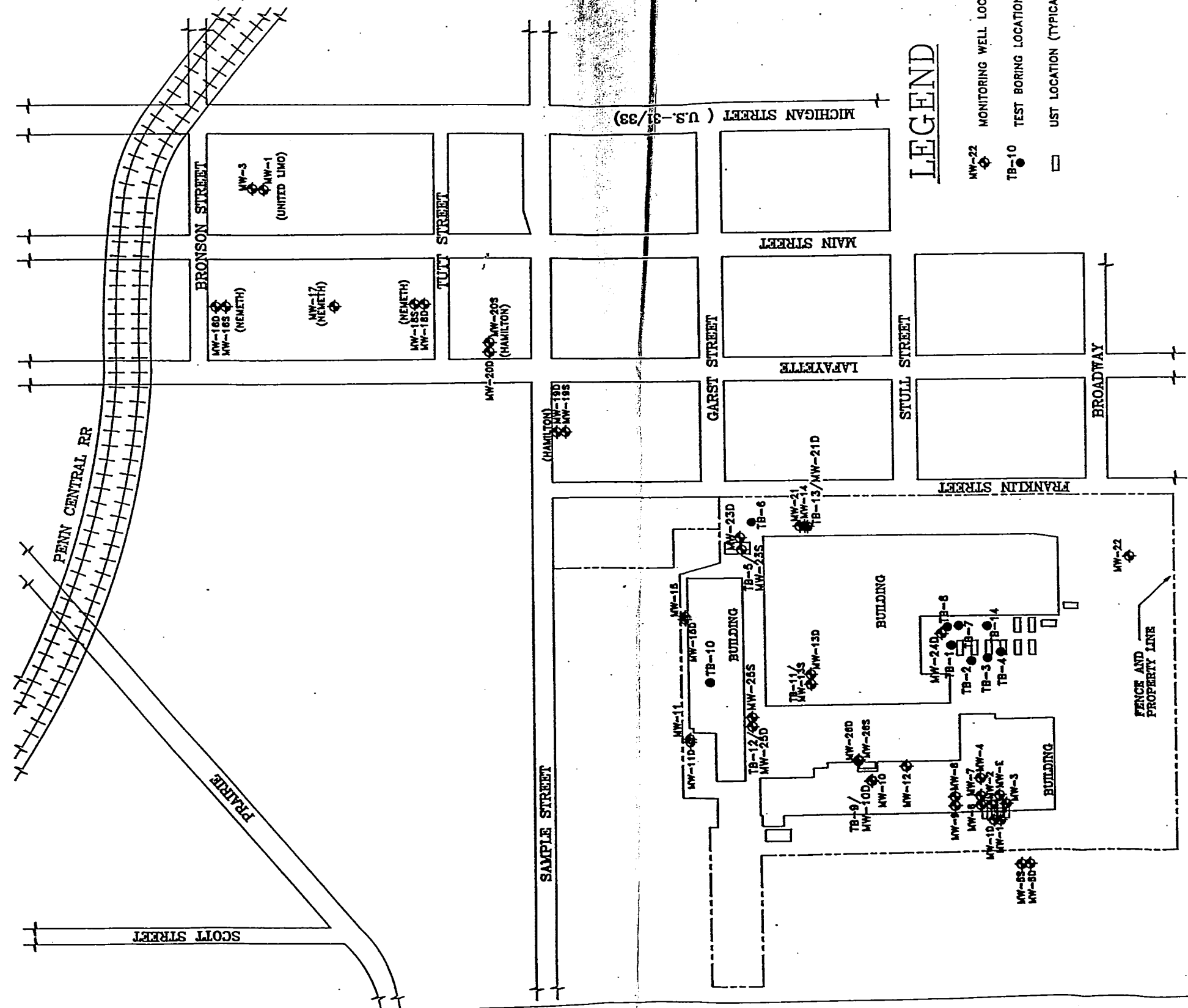
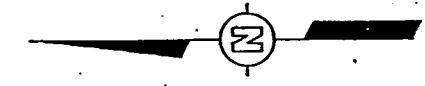
Figure 4



**UNDERGROUND STORAGE
 TANK LOCATIONS
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA**

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS

DWG: 8708-A10 DATE: 2-15-94 CHKD BY: *JRK* REV DATE: CHKD BY:



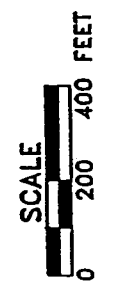
LEGEND

- MW-22 ○ MONITORING WELL LOCATION
- TB-10 ● TEST BORING LOCATION
- □ UST LOCATION (TYPICAL)

Figure 5
APT

MONITORING WELL AND
SOIL BORING LOCATION MAP
ALLIED PRODUCTS
SOUTH BEND, INDIANA

PREPARED FOR
ALLIED PRODUCTS
CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY I. STRACHMAN,
SCALE 1 in = 80 ft., DATED 3-13-85.

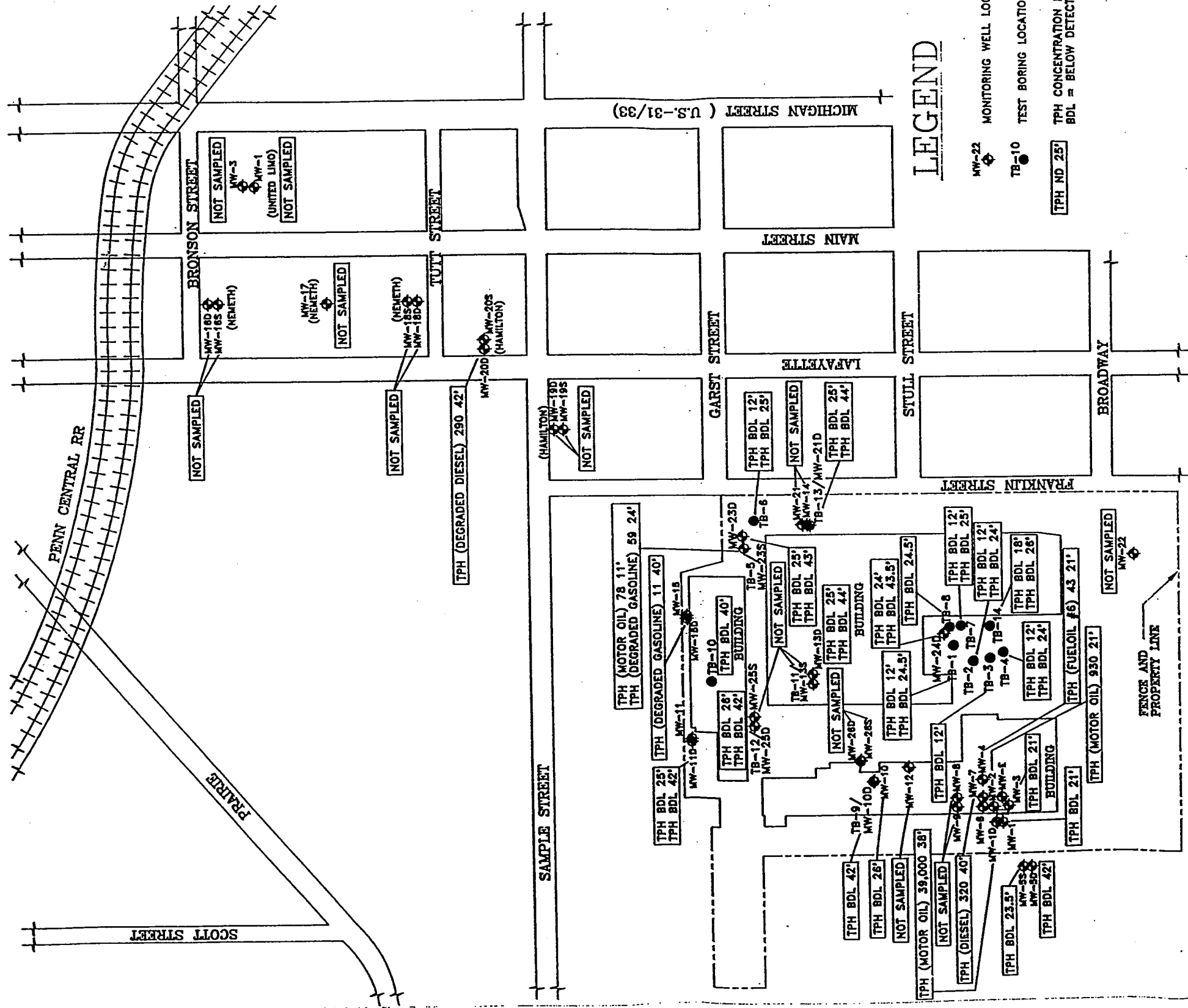
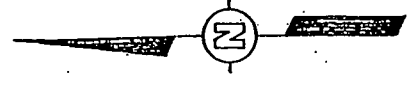
DWG: 8703-A21

DATE: 3-16-95

CHKD BY: J.K. Stiles

REV DATE:

CHKD BY:



NOTE: SOIL RESULTS ARE IN mg/kg

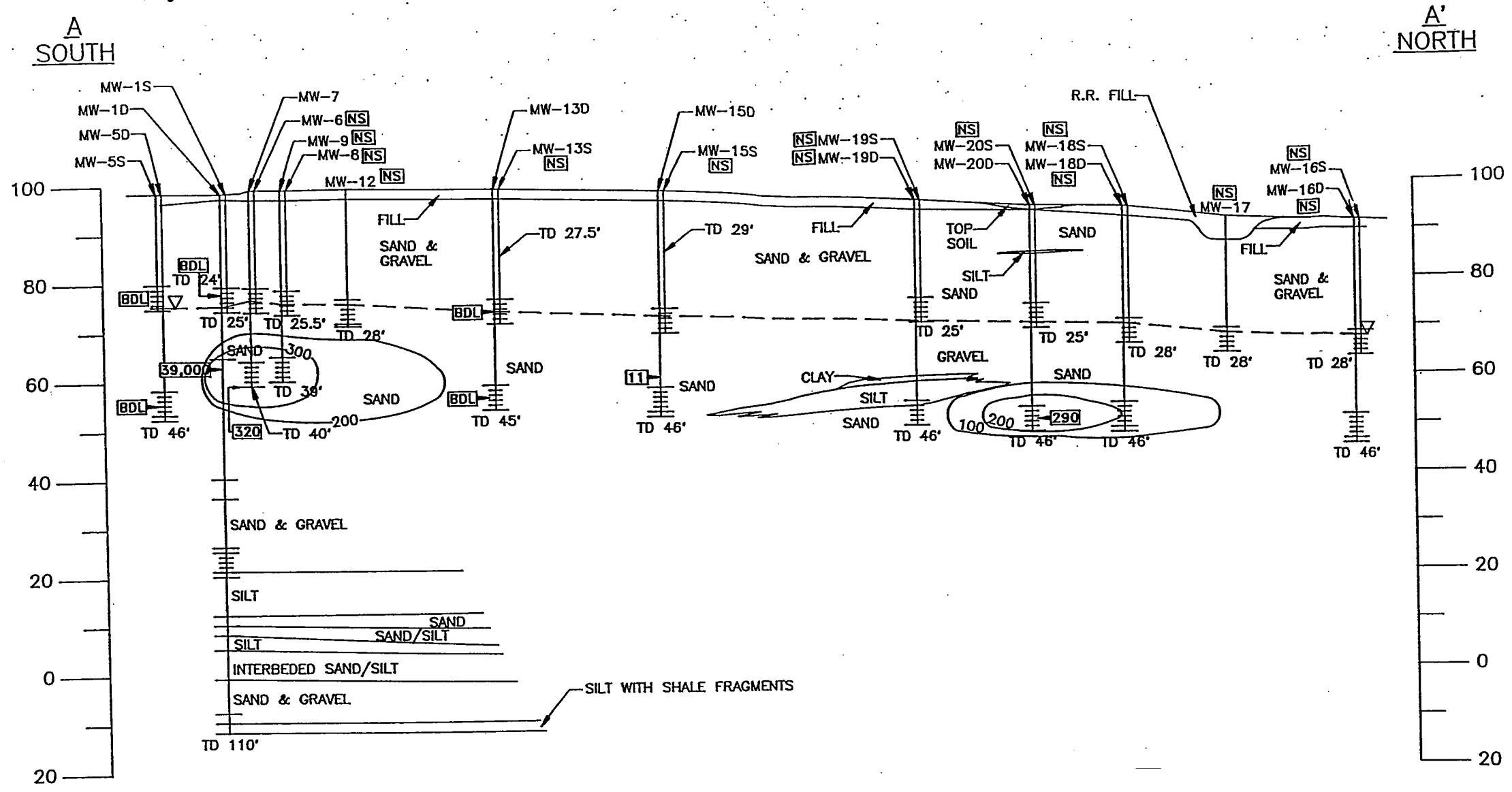


SOURCE: SURVEY MAP BY L. STRACHMAN, SCALE 1in = 80ft., DATED 3-13-86.

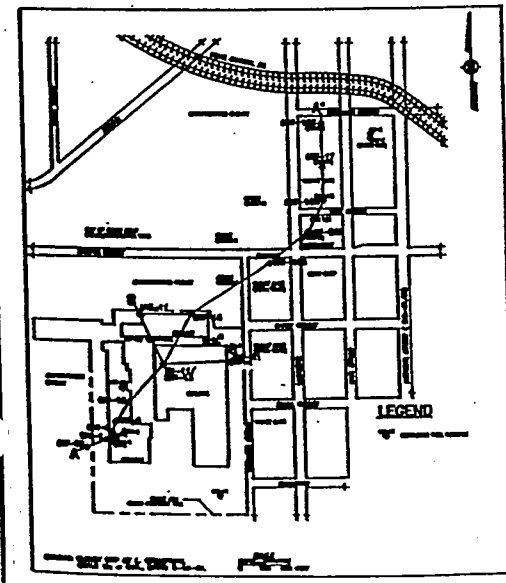
Figure 6 **APT**

DISTRIBUTION OF TPH IN SOIL ALLIED PRODUCTS SOUTH BEND, INDIANA

PREPARED FOR ALLIED PRODUCTS CHICAGO, ILLINOIS



KEY MAP



LEGEND

- SCREENED INTERVAL
- TPH CONCENTRATION IN SOIL (mg/kg)
- BDL = BELOW DETECTION LIMIT
- NS = NOT SAMPLED

NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).

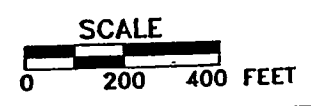
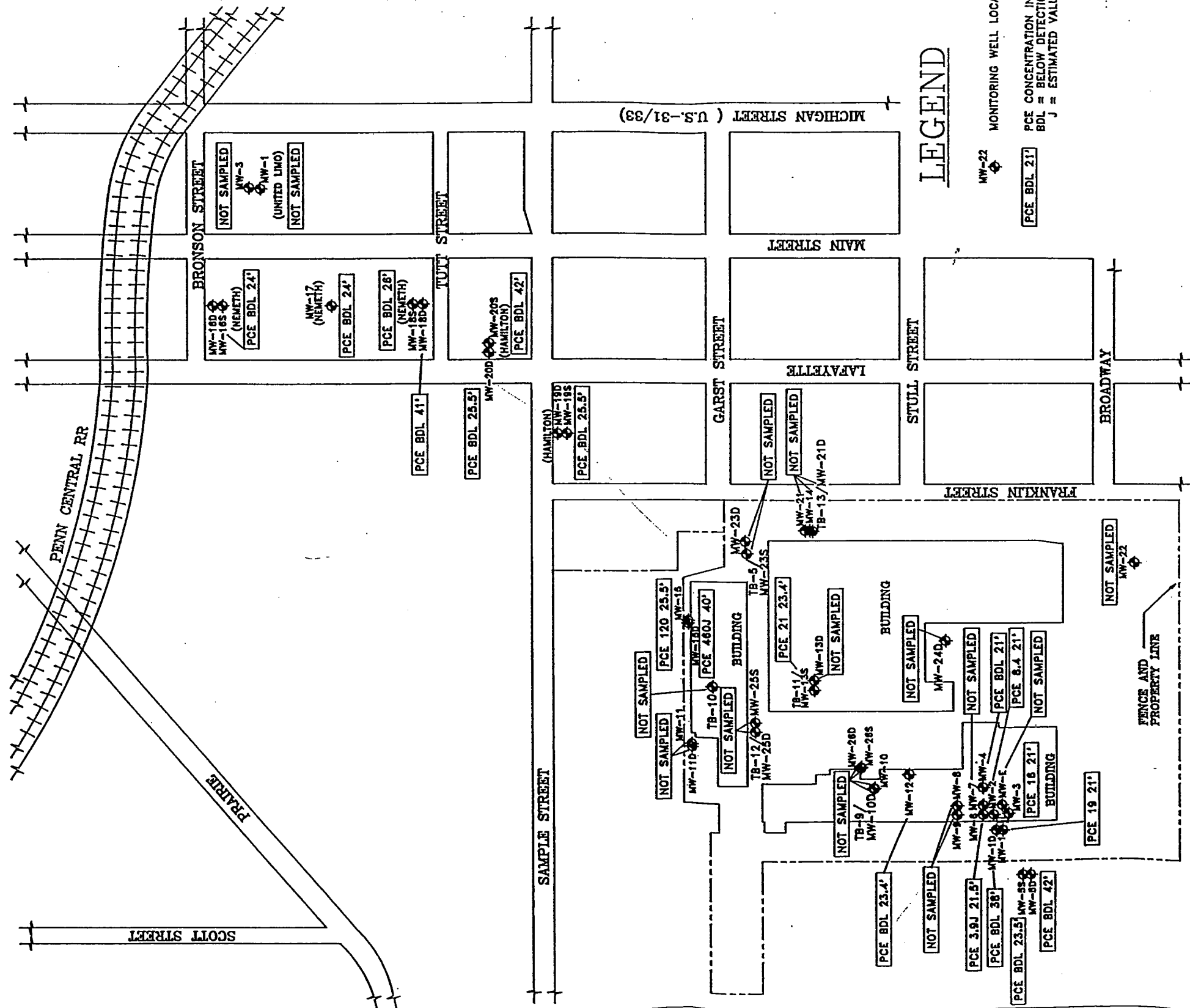
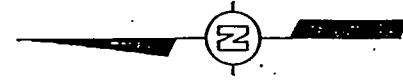


Figure 7



NORTH - SOUTH
 CROSS-SECTION A - A'
 TPH IMPACTED SOIL
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS



LEGEND

- MW-22 MONITORING WELL LOCATION
- PCE BDL 21'
- PCE CONCENTRATION IN SOIL AND DEPTH
- BDL = BELOW DETECTION LIMIT
- J = ESTIMATED VALUE

NOTE: SOIL RESULTS ARE IN $\mu\text{g}/\text{kg}$

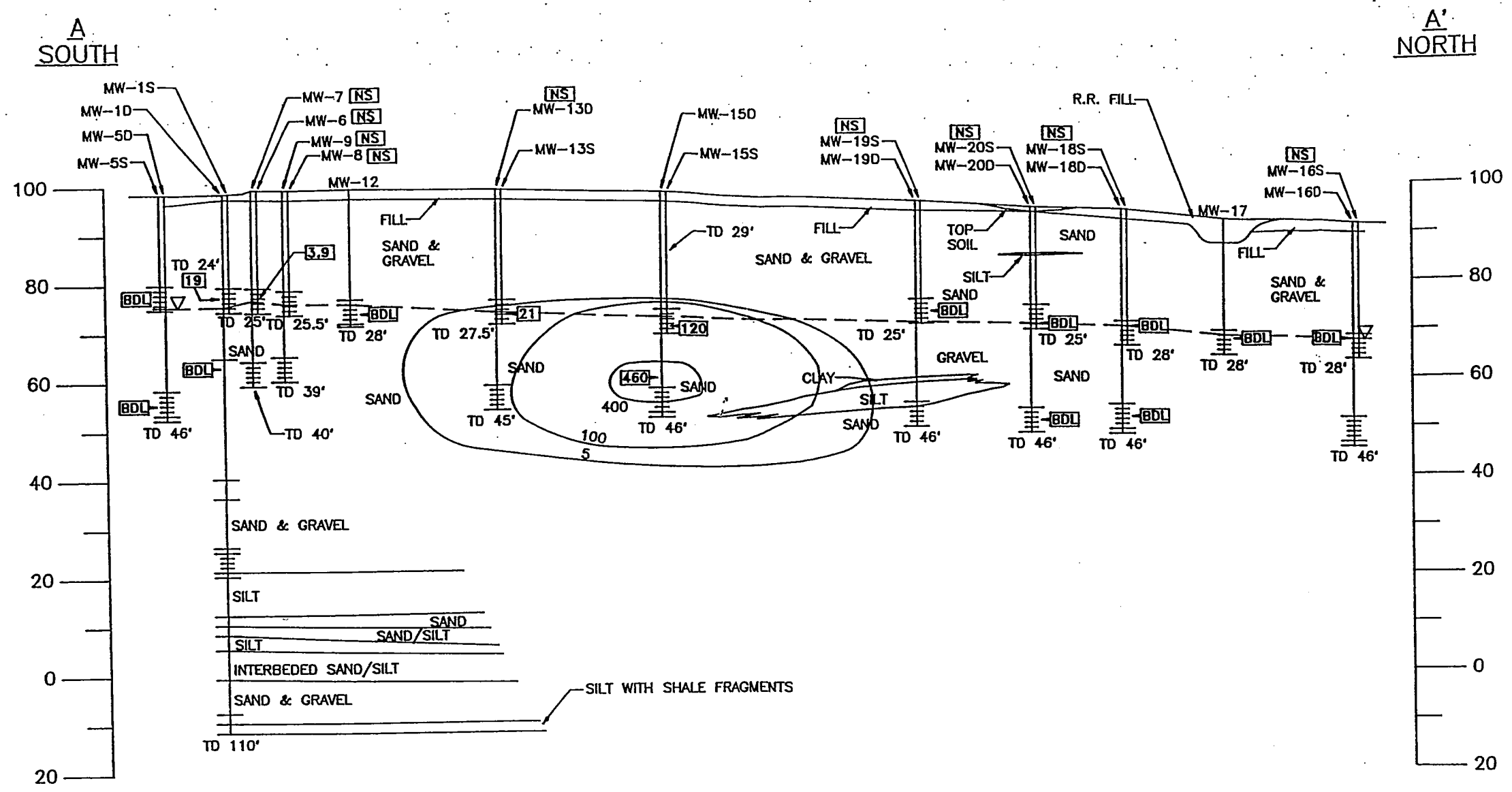


SOURCE: SURVEY MAP BY L. STRACHMAN, SCALE 1in = 80ft., DATED 3-13-85.

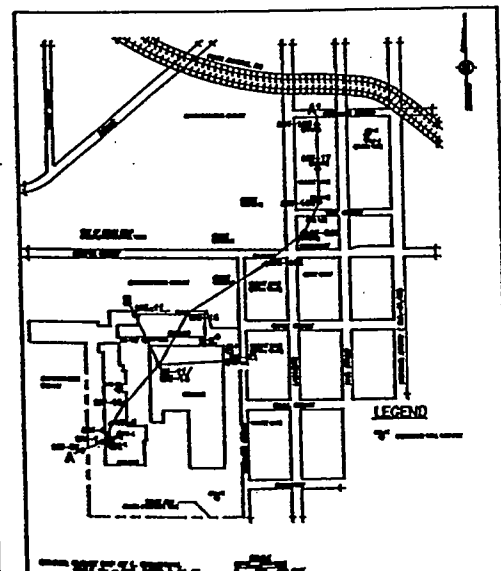
Figure 8 APT

DISTRIBUTION OF PCE IN SOIL ALLIED PRODUCTS SOUTH BEND, INDIANA

PREPARED FOR ALLIED PRODUCTS CHICAGO, ILLINOIS



KEY MAP



LEGEND

- SCREENED INTERVAL
- PCE CONCENTRATION IN SOIL ($\mu\text{g/L}$)
- BDL = BELOW DETECTION LIMIT
- NS = NOT SAMPLED

NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).

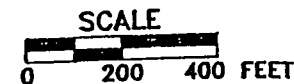
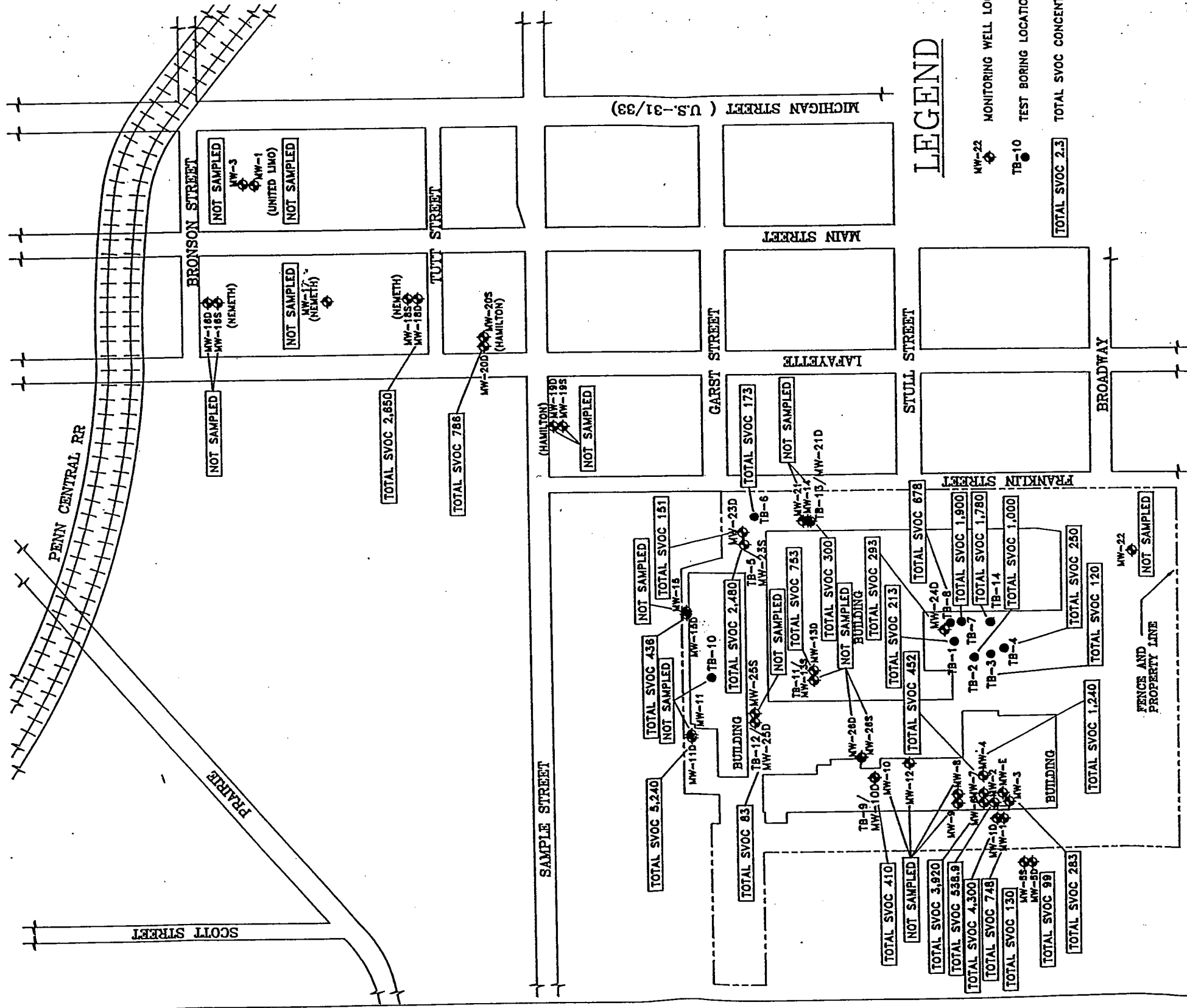
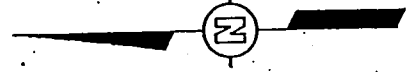


Figure 9



NORTH - SOUTH
 CROSS-SECTION A - A'
 PCE IMPACTED SOIL
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS



NOTE: SOIL RESULTS ARE IN $\mu\text{g}/\text{kg}$



SOURCE: SURVEY MAP BY L. STRACHMAN, SCALE 1in = 80ft., DATED 3-13-86.

Figure 10

TOTAL SVOC DISTRIBUTION IN SOIL ALLIED PRODUCTS SOUTH BEND, INDIANA

PREPARED FOR ALLIED PRODUCTS CHICAGO, ILLINOIS

APT

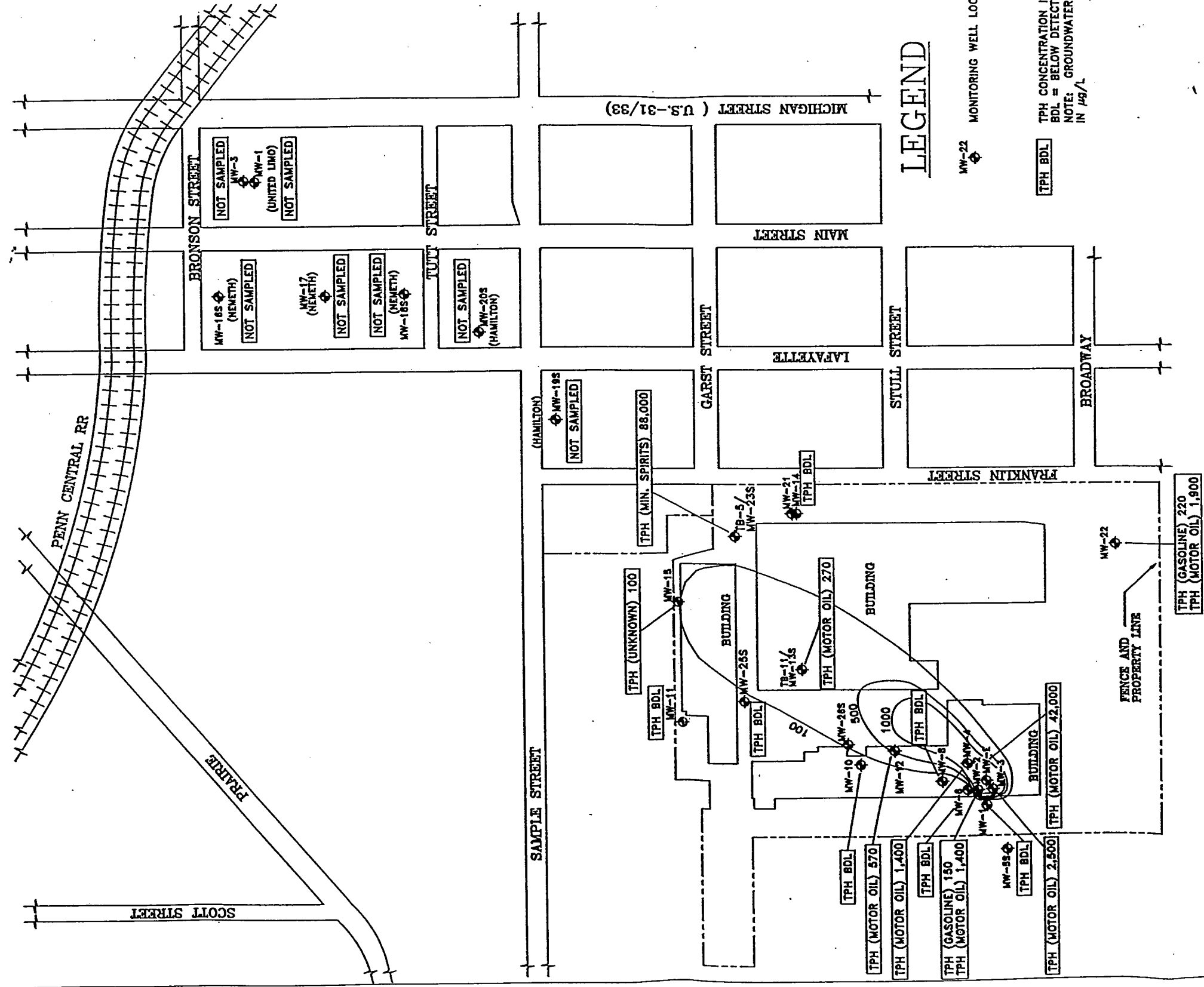


Figure 11

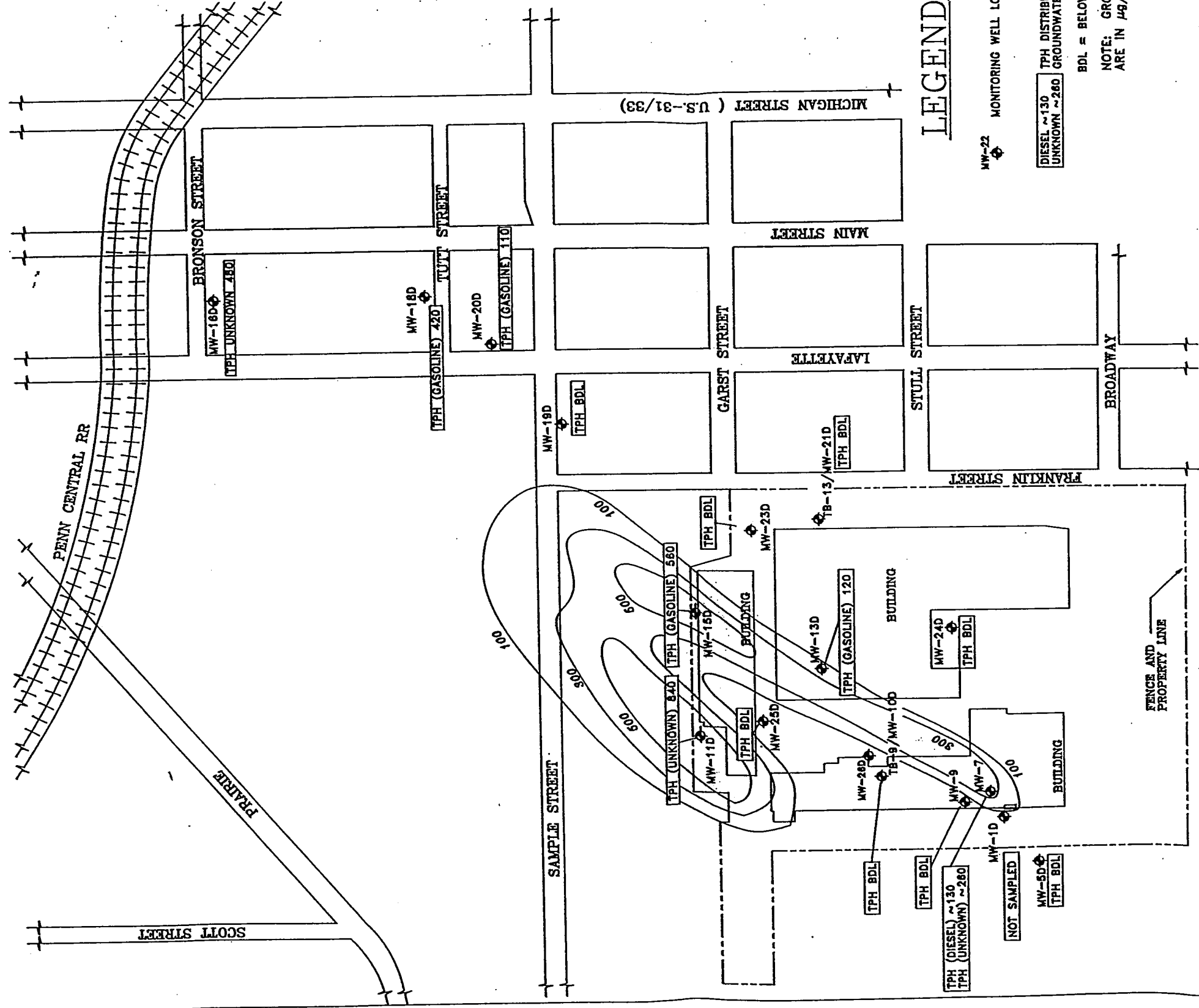
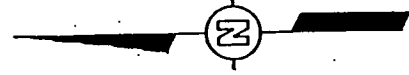
APT

TPH DISTRIBUTION IN
 GROUNDWATER - SHALLOW
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY L. STRACHMAN,
 SCALE 1in = 80ft., DATED 3-13-86.



LEGEND

- MW-22 MONITORING WELL LOCATION
- TPH DISTRIBUTION IN GROUNDWATER
- BDL = BELOW DETECTABLE LIMITS
- NOTE: GROUNDWATER RESULTS ARE IN µg/L

APT

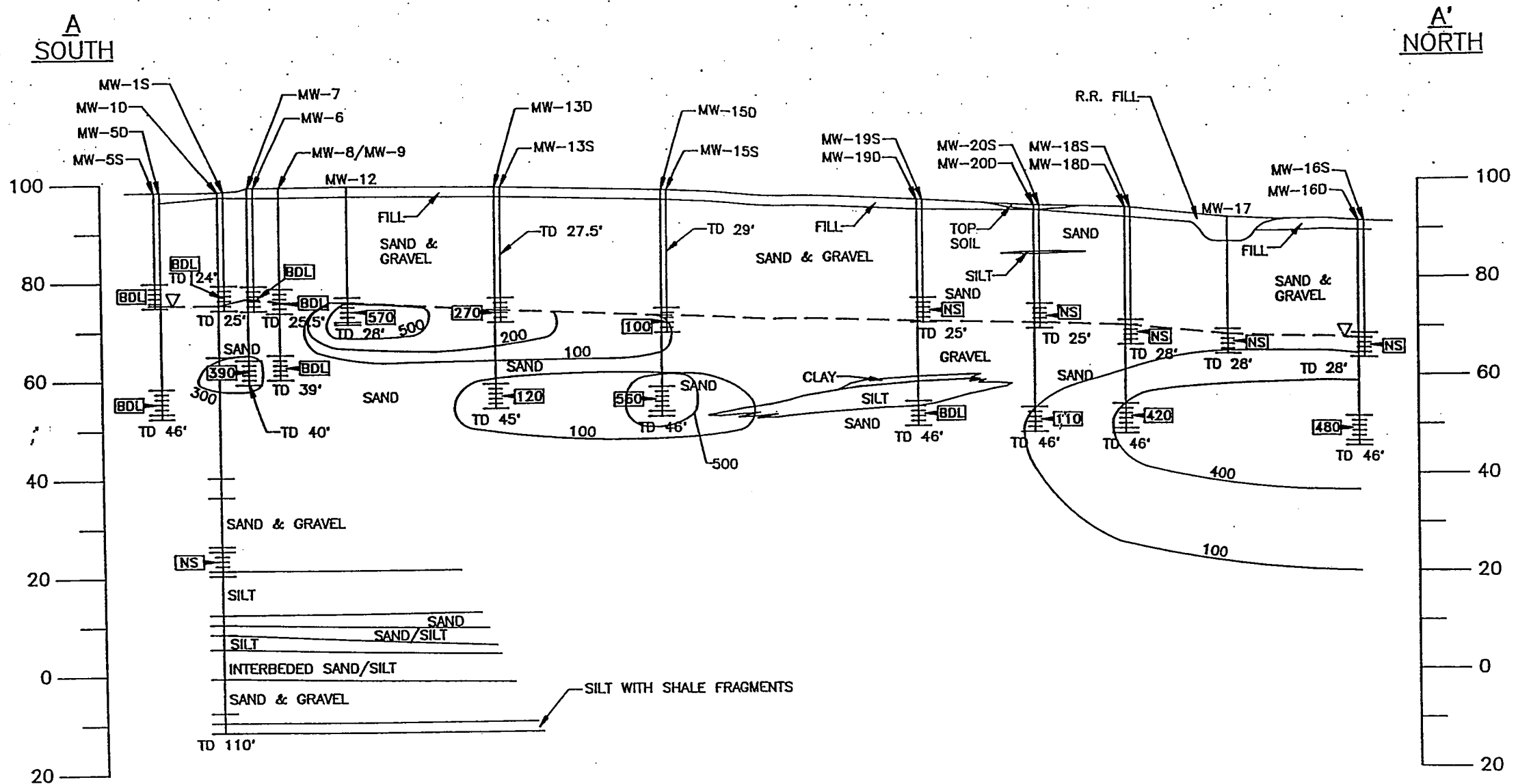
Figure 12

TPH DISTRIBUTION IN
GROUNDWATER - DEEP
ALLIED PRODUCTS
SOUTH BEND, INDIANA

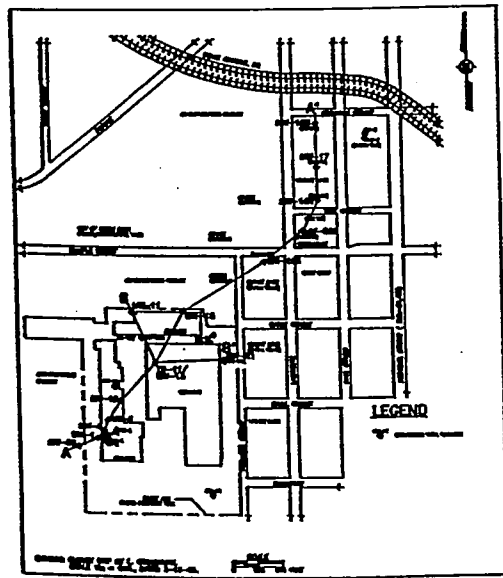
PREPARED FOR
ALLIED PRODUCTS
CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY L. STRACHMAN,
SCALE 1in = 80ft., DATED 3-13-86.



KEY MAP



LEGEND

- SCREENED INTERVAL
- TPH CONCENTRATION IN GROUNDWATER ($\mu\text{g/L}$)
- BDL = BELOW DETECTION LIMIT
- NS = NOT SAMPLED

NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).

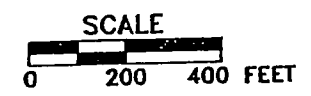
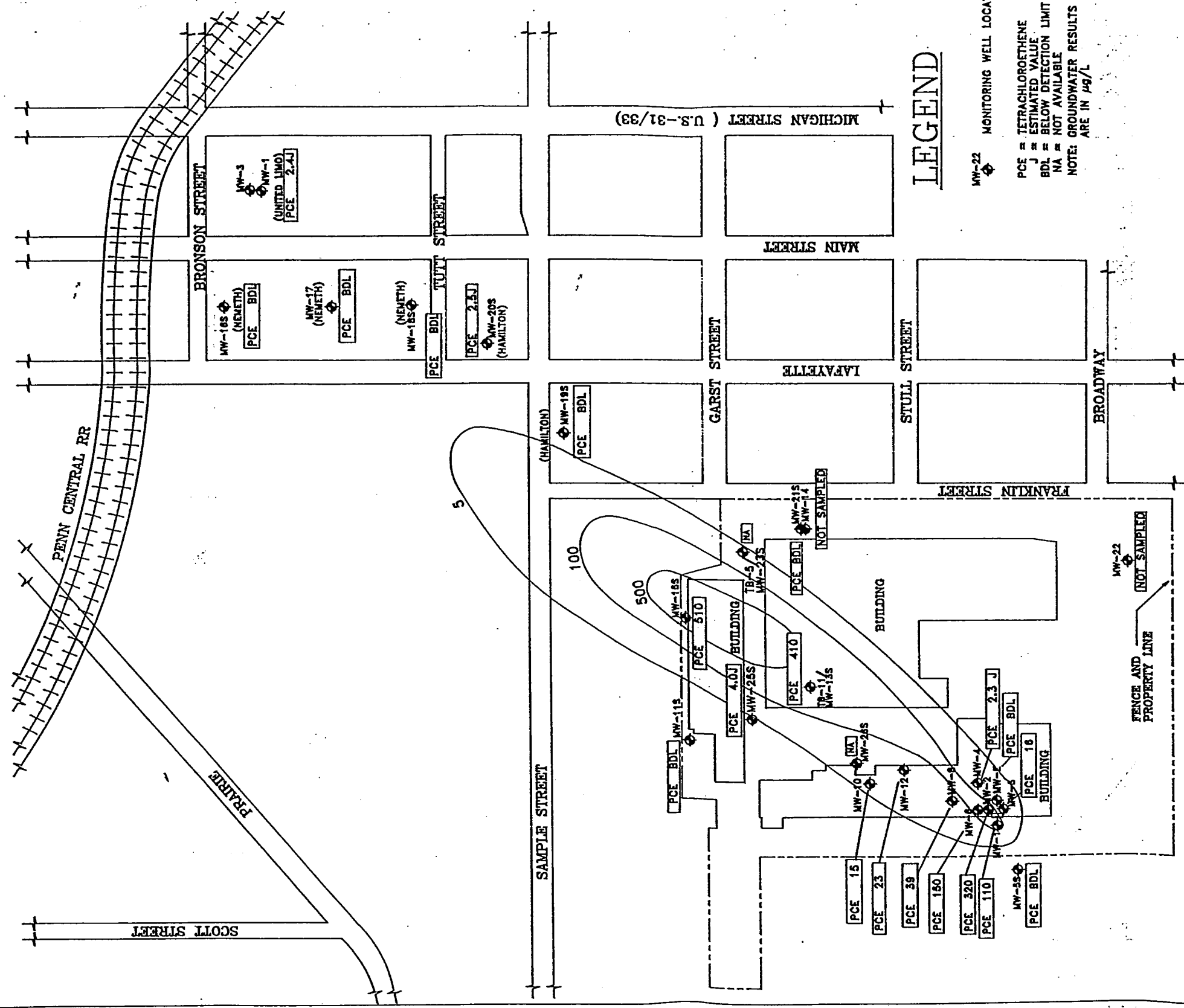
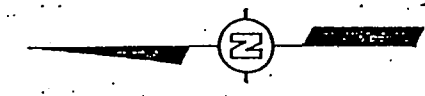


Figure 13
APT
 NORTH - SOUTH
 CROSS-SECTION A - A'
 TPH IMPACTED GROUNDWATER
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA
 PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS

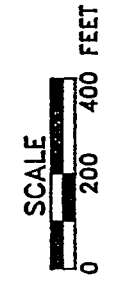


APT

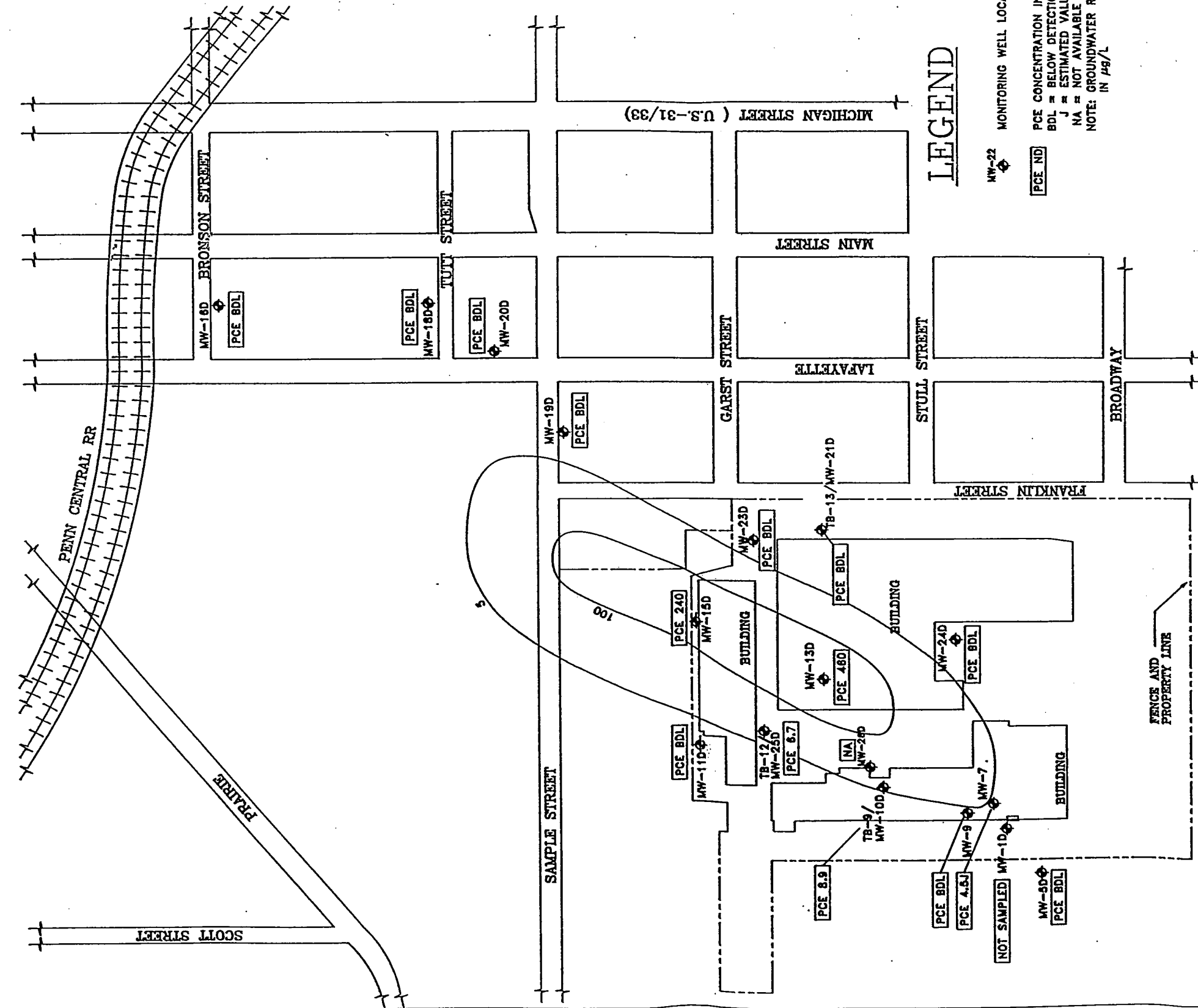
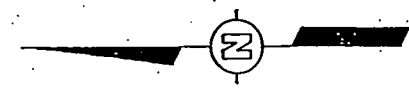
Figure 14

PCE DISTRIBUTION IN
GROUNDWATER - DEEP
ALLIED PRODUCTS
SOUTH BEND, INDIANA

PREPARED FOR
ALLIED PRODUCTS
CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY L. STRACHMAN,
SCALE 1in = 80ft., DATED 3-13-86.



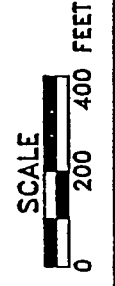
LEGEND

- MW-22 MONITORING WELL LOCATION
- [PCE ND] PCE CONCENTRATION IN GROUNDWATER
- [PCE BDL] BDL = BELOW DETECTION LIMIT
- J = ESTIMATED VALUE
- NA = NOT AVAILABLE
- NOTE: GROUNDWATER RESULTS ARE IN $\mu\text{g/L}$

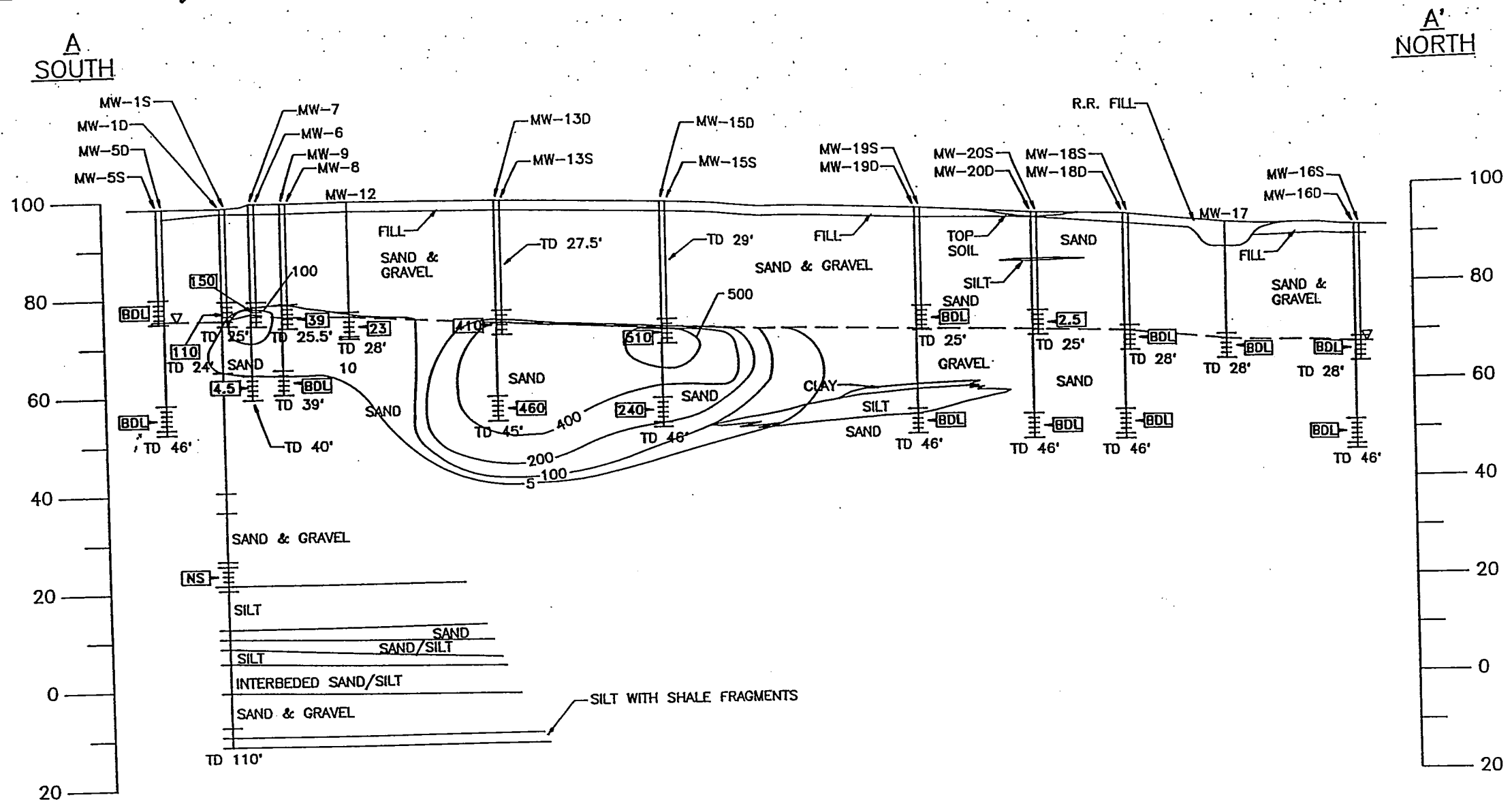
Figure 15

APT
 PCE DISTRIBUTION IN
 GROUNDWATER - DEEP
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA

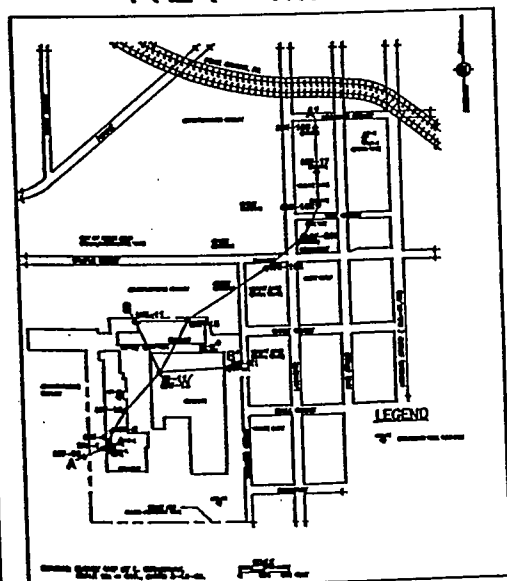
PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY L. STRACHMAN,
 SCALE 1in = 80ft., DATED 3-13-85.



KEY MAP



LEGEND

- SCREENED INTERVAL
- PCE CONCENTRATION IN GROUNDWATER ($\mu\text{g/L}$)
- BDL = BELOW DETECTION LIMIT
- NS = NOT SAMPLED

NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).

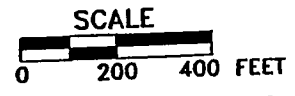
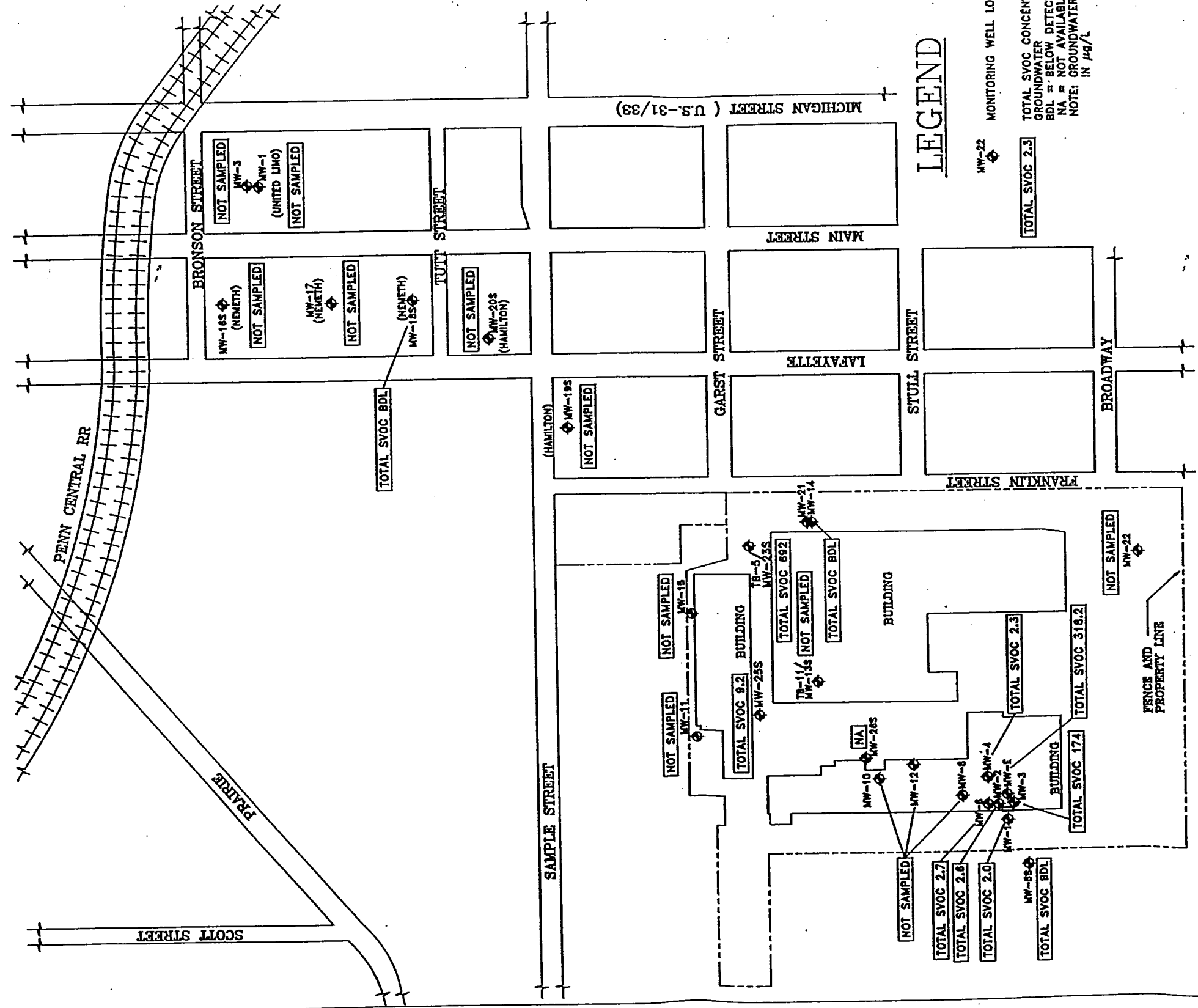
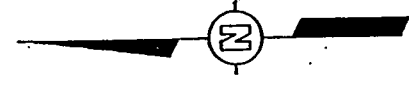


Figure 16



NORTH - SOUTH
 CROSS-SECTION A - A'
 PCE IMPACTED GROUNDWATER
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS

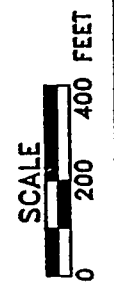


APT

Figure 17

TOTAL SVOC IN GROUNDWATER - SHALLOW ALLIED PRODUCTS SOUTH BEND, INDIANA

PREPARED FOR ALLIED PRODUCTS CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY L. STRACHMAN, SCALE 1 in = 80ft., DATED 3-13-86.

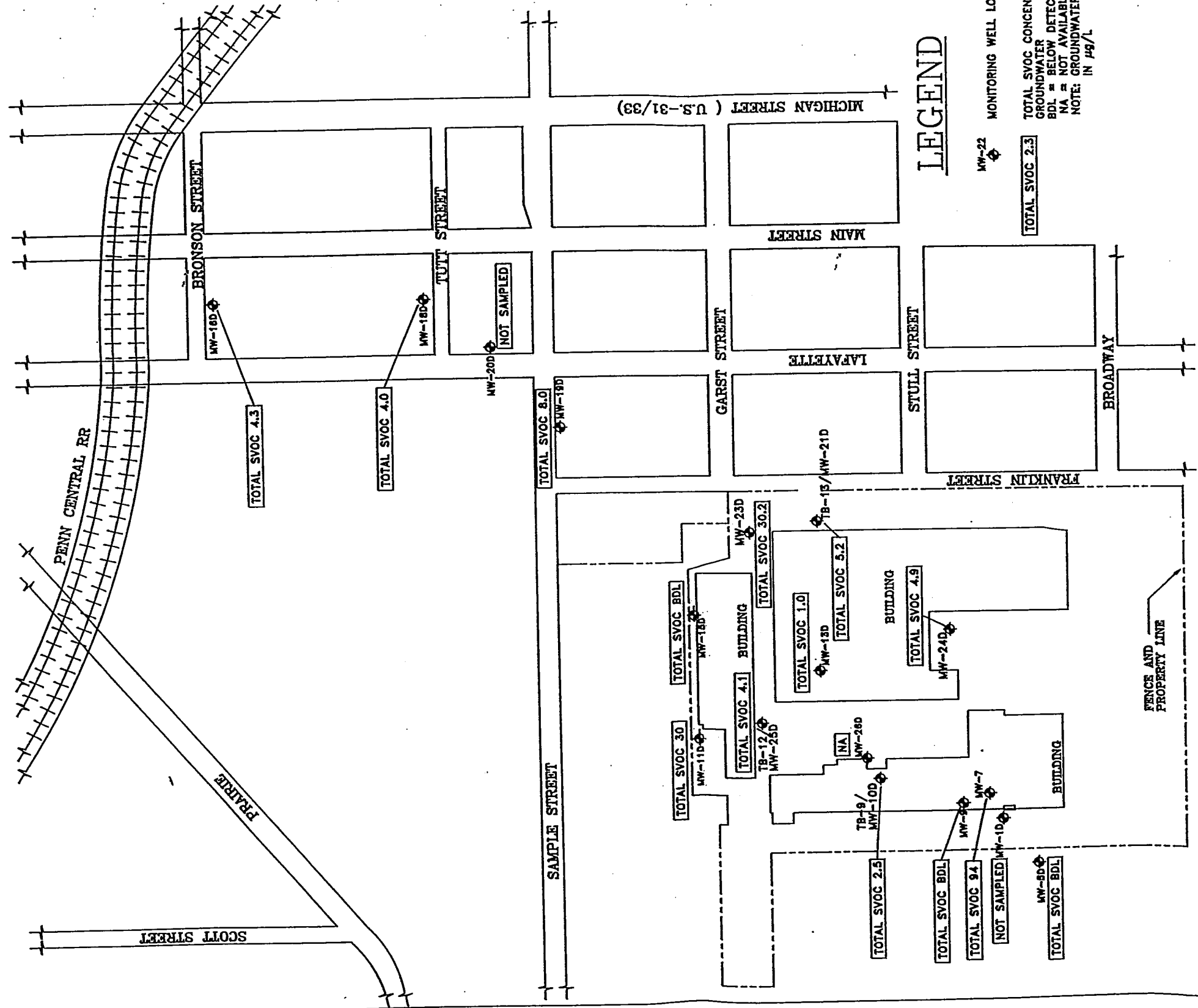
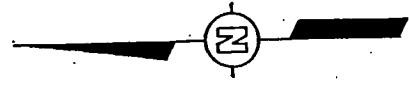


Figure 18

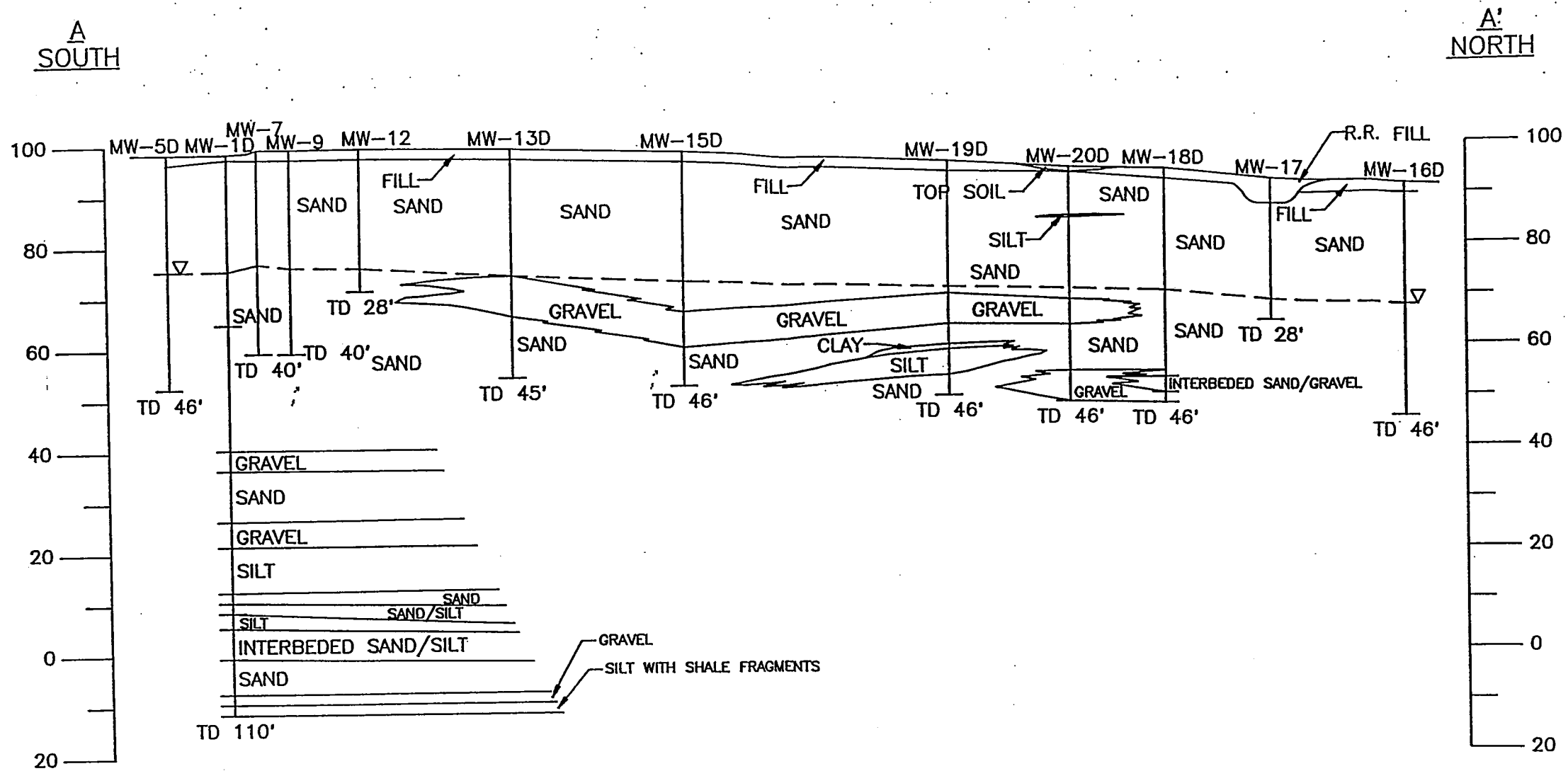
APT

TOTAL SVOC IN GROUNDWATER - DEEP ALLIED PRODUCTS SOUTH BEND, INDIANA

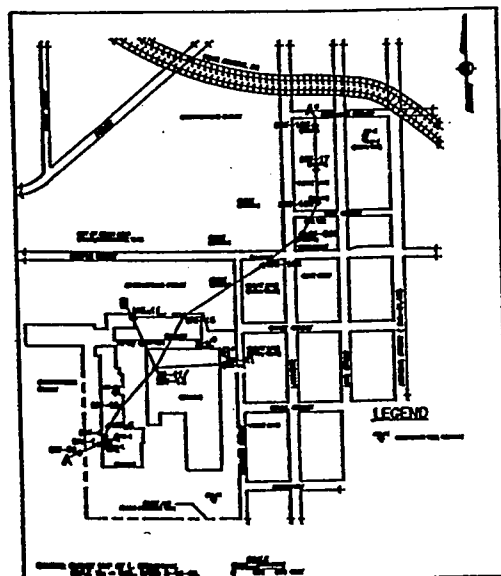
PREPARED FOR ALLIED PRODUCTS CHICAGO, ILLINOIS



SOURCE: SURVEY MAP BY L. STRACHMAN, DATED 3-13-85. SCALE 1in = 80ft.



KEY MAP



NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).

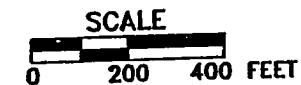
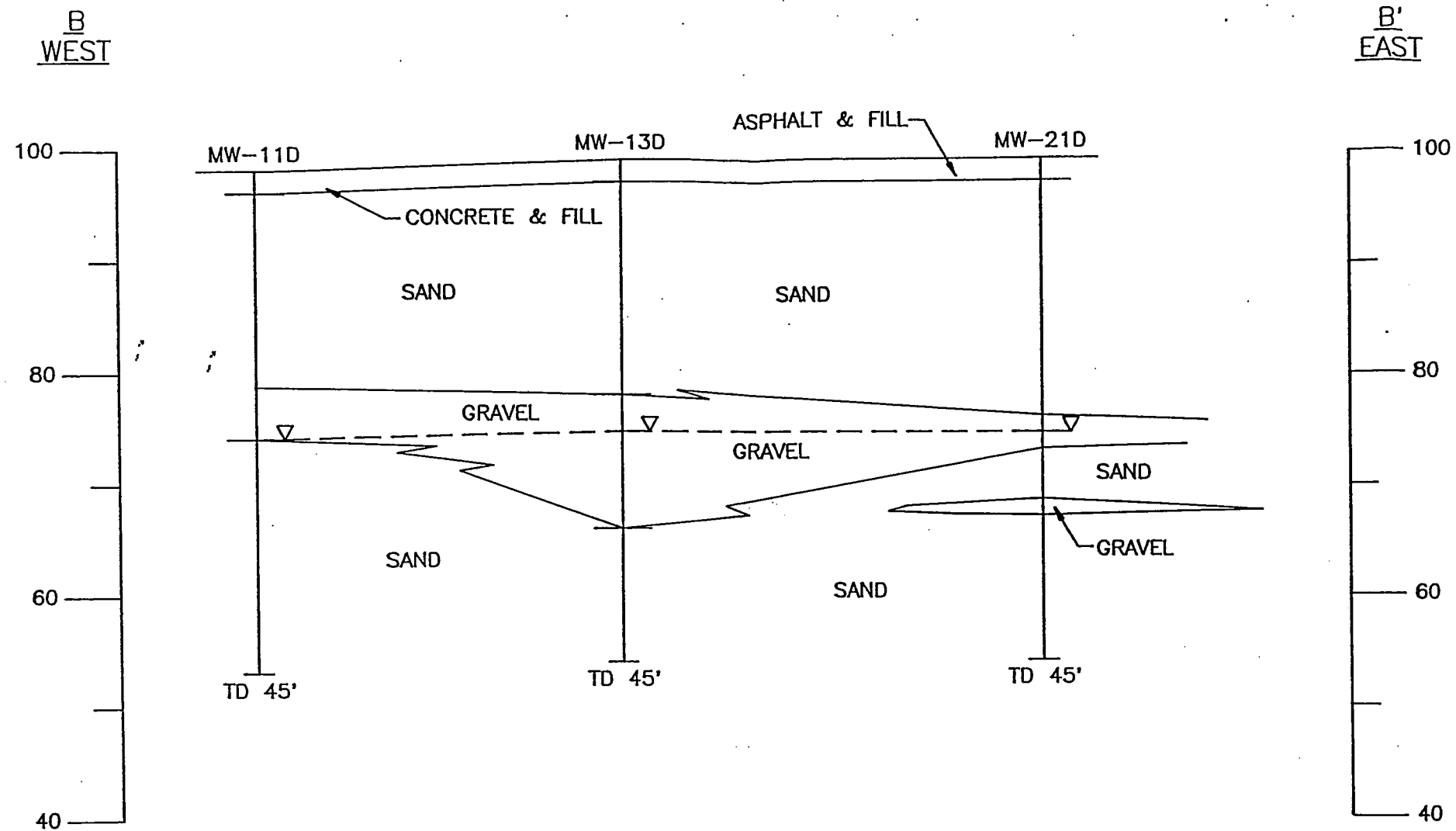


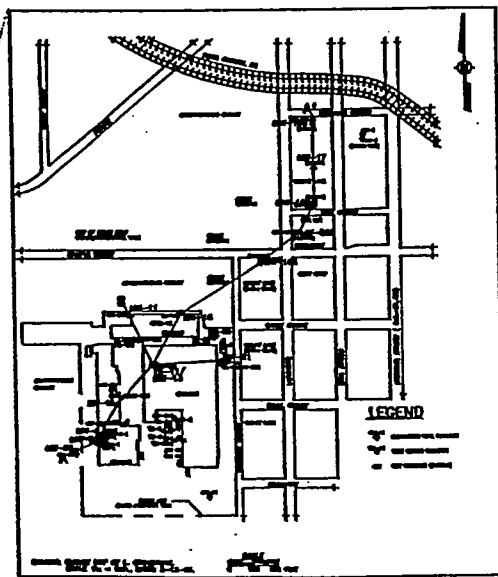
Figure 19
NORTH - SOUTH
STRATIGRAPHIC
CROSS-SECTION A - A'
ALLIED PRODUCTS
SOUTH BEND, INDIANA



PREPARED FOR
ALLIED PRODUCTS
CHICAGO, ILLINOIS



KEY MAP



NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).

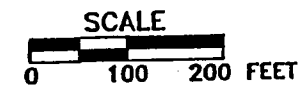


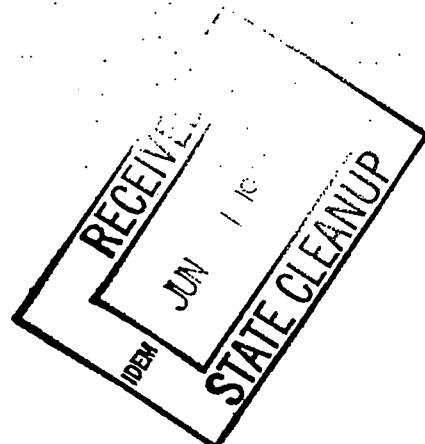
Figure 20



EAST - WEST
 STRATIGRAPHIC
 CROSS-SECTION B - B'
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS

TABLE 1
SOIL ANALYTICAL DATA SUMMARY - TPH
UST CLOSURE SAMPLING (March 9-10, 1994)
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA



LOCATION	TPH - diesel (mg/kg)
T2-SSE	ND (1,000)
T2-SSW	ND (50)
T2-SS	ND (100)
T2-WE	ND (10)
T2-BE	ND (1,000)
T2-BW	ND (100)
T4-SSE	ND (2,000)
T4-SSW	ND (10)
T4-EE	ND (1,000)
T4-WE	ND (10)
T4-BE	ND (4,000)
T4-BW	ND (1,000)
T3-NSW	ND (1,000)
T3-NSE	ND (2,000)
T3-EE	ND (5,000)
T3-WE	ND (10)
T3-BE	ND (1,000)
T3-BW	ND (10)
T4-NSW	ND (2,000)
T4-NSE	ND (5,000)
T1-SSW	ND (1,000)
T1-SSE	ND (1,000)
T1-NSW	ND (10)
T1-NSE	ND (100)
T1-EE	ND (100)
T1-WE	ND (100)
T1-BE	ND (1,000)
T1-BW	ND (2,000)

Notes: ND=Not Detected. Number in parentheses indicates nominal detection limit for analysis (mg/kg).

Sample I.D. consists of tank number (e.g., T1 = tank 1) and the location of the sample.

Location code examples are: BW=Bottom-West end; NSE=North Side-East end; EE=East End; etc.

TABLE 2 (CON'T)
SOIL ANALYTICAL DATA SUMMARY - VOCs
UST CLOSURE SAMPLING (March 9-10, 1994)
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	T1-SSW	T1-SSE	T1-NSW	T1-NSE	T1-EE
Acetone	ND (6,200)	ND (6,200)	ND (50)	ND (6,200)	ND (500)
2-Butanone	ND (6,200)	ND (6,200)	ND (50)	ND (6,200)	ND (500)
Carbon disulfide	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
1,2-Dichloroethene, Total	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
Ethylbenzene	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
2-Hexanone	ND (6,200)	ND (6,200)	ND (50)	ND (6,200)	ND (500)
Methylene chloride	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
1,1,2,2-Tetrachloroethane	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
Tetrachloroethene	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
Toluene	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
Trichloroethene	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)
Xylenes, Total	ND (620)	ND (620)	ND (5)	ND (620)	ND (50)

ANALYTE	T1-WE	T1-BE	T1-BW
Acetone	ND (50)	ND (6,200)	ND (6,200)
2-Butanone	ND (50)	ND (6,200)	ND (6,200)
Carbon disulfide	ND (5)	ND (620)	ND (620)
1,2-Dichloroethene, Total	ND (5)	ND (620)	ND (620)
Ethylbenzene	ND (5)	ND (620)	ND (620)
2-Hexanone	ND (50)	ND (6,200)	ND (6,200)
Methylene chloride	ND (5)	ND (620)	ND (620)
1,1,2,2-Tetrachloroethane	ND (5)	ND (620)	ND (620)
Tetrachloroethene	ND (5)	ND (620)	ND (620)
Toluene	ND (5)	ND (620)	ND (620)
Trichloroethene	ND (5)	ND (620)	ND (620)
Xylenes, Total	ND (5)	ND (620)	ND (620)

Note: All reported concentrations are µg/kg. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/kg).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 3 (CON'T)
SOIL ANALYTICAL DATA SUMMARY - SVOCs
UST CLOSURE SAMPLING (March 9-10, 1994)
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	T4-BE	T4-BW	T3-NSW	T3-NSE	T3-EE
Benzo (a) anthracene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Benzo (a) pyrene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Benzo (b) fluoranthene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Benzo (ghi) perylene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Benzo (k) fluoranthene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Bis(2-ethylhexyl) phthalate	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Carbazole	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Chrysene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Di-n-butyl phthalate	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Diethyl phthalate	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Di-n-octyl phthalate	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Fluoranthene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Indeno (1,2,3-cd) pyrene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
2-Methylnaphalene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Naphthalene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Phenathrene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)
Pyrene	ND (20,000)	ND (1,300)	ND (1,700)	ND (6,700)	ND (3,300)

ANALYTE	T3-WE	T3-BE	T3-BW	T4-NSW	T4-NSE
Benzo (a) anthracene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Benzo (a) pyrene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Benzo (b) fluoranthene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Benzo (ghi) perylene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Benzo (k) fluoranthene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Bis(2-ethylhexyl) phthalate	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Carbazole	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Chrysene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Di-n-butyl phthalate	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Diethyl phthalate	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Di-n-octyl phthalate	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Fluoranthene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
2-Methylnaphalene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Naphthalene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Phenathrene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)
Pyrene	ND (330)	ND (3,300)	ND (330)	ND (3,300)	ND (3,300)

Note: All reported concentrations are µg/kg. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/kg).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 3 (CON'T)
SOIL ANALYTICAL DATA SUMMARY - SVOCs
UST CLOSURE SAMPLING (March 9-10, 1994)
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	TI-SSW	TI-SSE	TI-NSW	TI-NSE	TI-EE
Benzo (a) anthracene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Benzo (a) pyrene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Benzo (b) fluoranthene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Benzo (ghi) perylene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Benzo (k) fluoranthene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Bis(2-ethylhexyl) phthalate	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Carbazole	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Chrysene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Di-n-butyl phthalate	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Diethyl phthalate	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Di-n-octyl phthalate	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Fluoranthene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Indeno (1,2,3-cd) pyrene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
2-Methylnaphalene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Naphthalene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Phenathrene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)
Pyrene	ND (1,300)	ND (1,300)	ND (330)	ND (1,300)	ND (1,300)

ANALYTE	TI-WE	TI-BE	TI-BW
Benzo (a) anthracene	ND (330)	ND (1,300)	ND (1,300)
Benzo (a) pyrene	ND (330)	ND (1,300)	ND (1,300)
Benzo (b) fluoranthene	ND (330)	ND (1,300)	ND (1,300)
Benzo (ghi) perylene	ND (330)	ND (1,300)	ND (1,300)
Benzo (k) fluoranthene	ND (330)	ND (1,300)	ND (1,300)
Bis(2-ethylhexyl) phthalate	ND (330)	ND (1,300)	ND (1,300)
Carbazole	ND (330)	ND (1,300)	ND (1,300)
Chrysene	ND (330)	ND (1,300)	ND (1,300)
Di-n-butyl phthalate	ND (330)	ND (1,300)	ND (1,300)
Diethyl phthalate	ND (330)	ND (1,300)	ND (1,300)
Di-n-octyl phthalate	ND (330)	ND (1,300)	ND (1,300)
Fluoranthene	ND (330)	ND (1,300)	ND (1,300)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (1,300)	ND (1,300)
2-Methylnaphalene	ND (330)	ND (1,300)	ND (1,300)
Naphthalene	ND (330)	ND (1,300)	ND (1,300)
Phenathrene	ND (330)	ND (1,300)	ND (1,300)
Pyrene	ND (330)	ND (1,300)	ND (1,300)

Note: All reported concentrations are $\mu\text{g}/\text{kg}$. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis ($\mu\text{g}/\text{kg}$).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 4 (CON'T)
FIELD SCREENING - PHOTOIONIZATION DETECTOR
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

DEPTH	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-23D
6"	—	—	ND	ND	—	—	—	ND	ND	ND	ND	ND
12"	—	—	ND	ND	—	—	—	ND	ND	ND	ND	ND
18"	—	—	ND	ND	—	—	—	ND	ND	ND	ND	ND
24"	—	—	ND	ND	—	—	—	ND	ND	ND	ND	ND
30"	ND	ND	ND	ND	ND	—	—	ND	ND	ND	ND	ND
36"	ND	ND	ND	ND	ND	—	—	ND	ND	ND	ND	ND
42"	ND	ND	ND	ND	ND	12	12	ND	ND	ND	ND	ND
48"	ND	ND	ND	ND	ND	12	12	ND	ND	ND	ND	ND
54"	ND	ND	ND	ND	ND	14	14	96	—	—	—	—
60"	ND	ND	ND	ND	ND	—	—	114	—	—	—	—
66"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
72"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
78"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
84"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
90"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
96"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
102"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
108"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
114"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
120"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
126"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
132"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
138"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
144"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
150"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
156"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
162"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
168"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
174"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
180"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
186"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
192"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
198"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
204"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
210"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
216"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
222"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
228"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
234"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
240"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
246"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
252"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
258"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
264"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
270"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
276"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
282"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
288"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
294"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
300"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
306"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
312"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
318"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
324"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
330"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
336"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
342"	ND	ND	ND	ND	ND	—	—	—	—	—	—	—
348"	ND	—	—	—	—	—	—	—	—	—	—	—
354"	ND	—	—	—	—	—	—	—	—	—	—	—
360"	ND	—	—	—	—	—	—	—	—	—	—	—
366"	ND	—	—	—	—	—	—	—	—	—	—	—
372"	ND	—	—	—	—	—	—	—	—	—	—	—
378"	ND	—	—	—	—	—	—	—	—	—	—	—
384"	ND	—	—	—	—	—	—	—	—	—	—	—
390"	ND	—	—	—	—	—	—	—	—	—	—	—
396"	ND	—	—	—	—	—	—	—	—	—	—	—
402"	ND	—	—	—	—	—	—	—	—	—	—	—
408"	ND	—	—	—	—	—	—	—	—	—	—	—
414"	ND	—	—	—	—	—	—	—	—	—	—	—
420"	ND	—	—	—	—	—	—	—	—	—	—	—
426"	ND	—	—	—	—	—	—	—	—	—	—	—
432"	ND	—	—	—	—	—	—	—	—	—	—	—
438"	ND	—	—	—	—	—	—	—	—	—	—	—
444"	ND	—	—	—	—	—	—	—	—	—	—	—
450"	ND	—	—	—	—	—	—	—	—	—	—	—
456"	ND	—	—	—	—	—	—	—	—	—	—	—
462"	ND	—	—	—	—	—	—	—	—	—	—	—
468"	ND	—	—	—	—	—	—	—	—	—	—	—
474"	ND	—	—	—	—	—	—	—	—	—	—	—
480"	ND	—	—	—	—	—	—	—	—	—	—	—
486"	ND	—	—	—	—	—	—	—	—	—	—	—
492"	ND	—	—	—	—	—	—	—	—	—	—	—
498"	ND	—	—	—	—	—	—	—	—	—	—	—
504"	ND	—	—	—	—	—	—	—	—	—	—	—
510"	ND	—	—	—	—	—	—	—	—	—	—	—
516"	ND	—	—	—	—	—	—	—	—	—	—	—
522"	ND	—	—	—	—	—	—	—	—	—	—	—
528"	ND	—	—	—	—	—	—	—	—	—	—	—
534"	—	—	—	—	—	—	—	—	—	—	—	—
540"	—	—	—	—	—	—	—	—	—	—	—	—
546"	—	—	—	—	—	—	—	—	—	—	—	—
552"	—	—	—	—	—	—	—	—	—	—	—	—

ND = Not Detected
 — = No Sample
 All PTO measurements are in parts per million (ppm).
 PTO measurements were not obtained from monitor well borings MW-14, MW-16, MW-18, MW-20, MW-21, MW-22, MW-23, and MW-25 as there were no measurements from the common well of each of these well cluster locations.

TABLE 5
SAMPLING AND ANALYSIS SUMMARY
SAMPLE CONTAINER REQUIREMENTS, HOLDING TIMES,
PRESERVATION, AND ANALYTICAL PROCEDURES
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

Sample Type	Number of Samples	Sample Analysis	Sample Container	Preservation	Analysis Method	Holding Times ¹	Detection Limit
Soil Grab Sample	47	Volatile Organic Compounds	4 oz. glass with Teflon lined cap	Cool to 4° C	SW-846 Method 8240	14 Days Analyze	40 CFR 264, Appendix IX
	73	Semi-Volatile Organic Compounds	4 oz. glass with Teflon lined cap	Cool to 4° C	SW-846 Method 8270	14 Days Extraction 40 Days Post-Extraction Analyze	40 CFR 264, Appendix IX
	71	Total Petroleum Hydrocarbons	4 oz. glass with Teflon lined cap	Cool to 4° C	SW-846 Methods 8015	14 Days Extraction 40 Days Post-Extraction Analyze	40 CFR 264, Appendix IX
Groundwater Samples	43	Volatile Organic Compounds	40 ml glass vials w/ Teflon lined cap	HCl to pH<2, Cool to 4° C	SW-846 Method 8240	14 Days Analyze	40 CFR 264, Appendix IX
	26	Semi-Volatile Organic Compounds	1-liter amber glass w/ Teflon lined cap	Cool to 4° C	SW-846 Method 8270	7 Days Extraction 40 Days Post-Extraction Analyze	40 CFR 264, Appendix IX
	34	Total Petroleum Hydrocarbons	1-liter amber glass w/ Teflon lined cap	Cool to 4° C	SW-846 Methods 8015	7 Days Extraction 40 Days Post-Extraction Analyze	40 CFR 264, Appendix IX

¹ Holding time begins at time of sample collection.

TABLE 6 (CON'T)
SAMPLING AND ANALYSIS SUMMARY
SAMPLE NUMBERS, LOCATIONS, ANALYSES
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

Sample Identification	Date	Soil			Aqueous		
		Method 8240 VOCs	Method 8270 SVOCs	Method 8015 TPH	Method 8240 VOCs	Method 8270 SVOCs	Method 8015 TPH
MW-16S	9-1-94	--	--	--	1	--	--
MW-16D	9-1-94	--	--	--	1	--	--
MW-16D	10-31-94	--	--	--	--	1	1
MW-17S	9-1-94	--	--	--	1	--	--
MW-18S	10-14-94	--	--	--	1	1	--
MW-18D	10-14-94	--	--	--	1	1	--
MW-18D	10-31-94	--	--	--	1	1	1
MW-19D	10-31-94	--	--	--	1	1	1
MW-19S	10-31-94	--	--	--	1	--	--
MW-20S	11-3-94	--	--	--	1	--	--
MW-20D	11-3-94	--	--	--	1	--	1
MW-21	11-21-94	--	--	--	1	--	--
MW-21S	3-23-95	--	--	--	--	--	1
MW-21D	2-23-95	--	--	--	1	1	1
MW-22	3-24-95	--	--	--	--	--	1
MW-22S	4-6-95	--	--	--	--	--	1
MW-22	4-19-95	--	--	--	--	--	1
MW-23S	4-6-95	--	--	--	--	--	1
MW-23S	4-11-95	--	--	--	1	1	--
MW-23D	2-23-95	--	--	--	1	1	1
MW-24D	2-23-95	--	--	--	1	1	1
MW-25S	2-23-95	--	--	--	1	1	1
MW-25D	2-23-95	--	--	--	1	1	1
M-3	4-4-94	--	--	--	1	--	--
WW-1	6-17-94	--	--	--	1	--	--
WW-2	6-17-94	--	--	--	1	--	--
WW-3	6-17-94	--	--	--	1	--	--
TOTALS		47	73	71	43	26	34

TABLE 6 (CON'T)
SAMPLING AND ANALYSIS SUMMARY
SAMPLE NUMBERS, LOCATIONS, ANALYSES
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

Sample Identification	Date	Soil			Aqueous		
		Method 8240 VOCs	Method 8270 SVOCs	Method 8015 TPH	Method 8240 VOCs	Method 8270 SVOCs	Method 8015 TPH
TB4-12	2-10-95	--	1	1	--	--	--
TB4-24	2-10-95	--	1	1	--	--	--
TB5-11	2-7-95	--	1	1	--	--	--
TB5-24	2-7-95	--	1	1	--	--	--
TB6-12	2-7-95	--	1	1	--	--	--
TB6-25	2-7-95	--	1	1	--	--	--
TB7-12	2-9-95	--	1	1	--	--	--
TB7-25	2-9-95	--	1	1	--	--	--
TB8-12	2-9-95	--	1	1	--	--	--
TB8-24.5	2-9-95	--	1	1	--	--	--
TB10-40	2-27-95	--	1	1	--	--	--
TB14-18	2-9-95	--	1	1	--	--	--
TB14-26	2-9-95	--	1	1	--	--	--
T2-SSE	3-10-94	1	1	1	--	--	--
T2-SSW	3-10-94	1	1	1	--	--	--
T2-EE	3-10-94	1	1	1	--	--	--
T2-WE	3-10-94	1	1	1	--	--	--
T2-BE	3-10-94	1	1	1	--	--	--
T2-BW	3-10-94	1	1	1	--	--	--
T4-SSE	3-9-94	1	1	1	--	--	--
T4-SSW	3-9-94	1	1	1	--	--	--
T4-EE	3-9-94	1	1	1	--	--	--
T4-WE	3-9-94	1	1	1	--	--	--
T4-BE	3-9-94	1	1	1	--	--	--
T4-BW	3-9-94	1	1	1	--	--	--
T3-NSW	3-9-94	1	1	1	--	--	--
T3-NSE	3-9-94	1	1	1	--	--	--
T3-EE	3-9-94	1	1	1	--	--	--
T3-WE	3-9-94	1	1	1	--	--	--
T3-BE	3-9-94	1	1	1	--	--	--
T3-BW	3-9-94	1	1	1	--	--	--
T3-SSW, T4-NSW	3-9-94	1	1	1	--	--	--
T3-SSE, T4-NSE	3-9-94	1	1	1	--	--	--
T1-SSW, T2-NSW	3-10-94	1	1	1	--	--	--
T1-SSE, T2-NSE	3-10-94	1	1	1	--	--	--
T1-NSW	3-10-94	1	1	1	--	--	--
T1-NSE	3-10-94	1	1	1	--	--	--
T1-EE	3-10-94	1	1	1	--	--	--
T1-WE	3-10-94	1	1	1	--	--	--
T1-BE	3-10-94	1	1	1	--	--	--
T1-BW	3-10-94	1	1	1	--	--	--

TABLE 7 (CON'T)
SOIL ANALYTICAL DATA SUMMARY - TPH
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	TB1-24.5	TB2-12	TB2-24	TB3-12	TB3-24
Date Sampled	2-10-95	2-10-95	2-10-95	2-10-95	2-10-95
TPH (gasoline)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
TPH (diesel)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
TPH (motor oil)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
TPH (unknown)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

ANALYTE	TB4-12	TB4-24	TB5-11	TB5-24	TB6-12
Date Sampled	2-10-95	2-10-95	2-7-95	2-7-95	2-7-95
TPH (gasoline)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)
TPH (diesel)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)
TPH (motor oil)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)
TPH (unknown)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)

ANALYTE	TB6-25	TB7-12	TB7-25	TB8-12	TB8-24.5
Date Sampled	2-7-95	2-9-95	2-9-95	2-9-95	2-9-95
TPH (gasoline)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
TPH (diesel)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
TPH (motor oil)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
TPH (unknown)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

ANALYTE	TB10-40	TB14-18	TB14-26
Date Sampled	2-27-95	2-9-95	2-9-95
TPH (gasoline)	ND (10)	ND (10)	ND (10)
TPH (diesel)	ND (10)	ND (10)	ND (10)
TPH (motor oil)	ND (10)	ND (10)	ND (10)
TPH (unknown)	ND (10)	ND (10)	ND (10)

Note: All reported concentrations are mg/kg. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (mg/kg)

TABLE 9 (CON'T)
SOIL ANALYTICAL DATA SUMMARY - SVOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW23D-25	MW23D-43	MW24D-24	MW24D-43.5	MW25D-26
Date Sampled	2-9-95	2-9-95	2-8-95	2-8-95	2-21-95
Benzo (a) anthracene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (a) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (b) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (ghi) perylene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (k) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Bis(2-ethylhexyl) phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Chrysene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-butyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-octyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
2-Methylnaphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Naphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Phenathrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)

ANALYTE	MW25D-42	TB1-12	TB1-24.5	TB2-12	TB2-24
Date Sampled	2-21-95	2-10-95	2-10-95	2-10-95	2-10-95
Benzo (a) anthracene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (a) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (b) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (ghi) perylene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (k) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Bis(2-ethylhexyl) phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Chrysene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-butyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-octyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
2-Methylnaphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Naphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Phenathrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)

Note: All reported concentrations are $\mu\text{g}/\text{kg}$. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis ($\mu\text{g}/\text{kg}$).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 9
SOIL ANALYTICAL DATA SUMMARY - SVOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW1-21	MW1D-38	MW2-21	MW3-21	MW4-21
Date Sampled	11-1-93	10-28-94	11-2-93	11-3-93	11-11-93
Benzo (a) anthracene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Benzo (a) pyrene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Benzo (b) fluoranthene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Benzo (ghi) perylene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Benzo (k) fluoranthene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Bis(2-ethylhexyl) phthalate	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Chrysene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Di-n-butyl phthalate	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Di-n-octyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Fluoranthene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
2-Methylnaphthalene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Naphthalene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Phenathrene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)
Pyrene	ND (330)	ND (660)	ND (330)	ND (330)	ND (330)

ANALYTE	MW5-23.5	MW5D-42	MW6-21.5	MW7-40	MW10D-26
Date Sampled	11-15-93	10-17-94	11-29-93	11-30-93	2-22-95
Benzo (a) anthracene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (a) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (b) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (ghi) perylene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (k) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Bis(2-ethylhexyl) phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Chrysene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-butyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-octyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
2-Methylnaphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Naphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Phenathrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)

Note: All reported concentrations are µg/kg. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/kg).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 9 (CON'T)
SOIL ANALYTICAL DATA SUMMARY - SVOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	TB8-12	TB8-24.5	TB10-40	TB14-18	TB14-26
Date Sampled	2-9-95	2-9-95	2-27-95	2-9-95	2-9-95
Benzo (a) anthracene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (a) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (b) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (ghi) perylene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Benzo (k) fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Bis(2-ethylhexyl) phthalate	J (330)	J (330)	ND (330)	J (330)	J (330)
Chrysene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Di-n-butyl phthalate	J (330)	J (330)	ND (330)	J (330)	J (330)
Di-n-octyl phthalate	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Fluoranthene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Indeno (1,2,3-cd) pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
2-Methylnaphalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Naphthalene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Phenathrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)
Pyrene	ND (330)	ND (330)	ND (330)	ND (330)	ND (330)

Note: All reported concentrations are µg/kg. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/kg).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 10 (CON'T)
GROUNDWATER ANALYTICAL DATA SUMMARY - TPH
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW16D-GW2	MW18D-GW2	MW19D-GW1	MW20D-GW1	MW-21S
Date Sampled	10-31-94	10-31-94	10-31-94	11-3-94	3-23-95
TPH (gasoline)	ND (25)	ND (25)	ND (25)	ND (27)	ND (100)
TPH (diesel)	ND (25)	ND (25)	ND (25)	ND (27)	ND (100)
TPH (motor oil)	ND (25)	ND (25)	ND (25)	ND (27)	ND (100)
TPH (unknown)	ND (25)	ND (25)	ND (25)	ND (27)	ND (100)

ANALYTE	MW21D-GW1	MW-22	MW-22S	MW-22	MW-23S
Date Sampled	2-23-95	3-24-95	4-6-95	4-19-95	4-6-95
TPH (gasoline)	ND (100)	ND (100)	ND (100)	ND (100)	ND (2,100)
TPH (diesel)	ND (100)	ND (100)	ND (100)	ND (100)	ND (2,100)
TPH (motor oil)	ND (100)	ND (100)	ND (100)	ND (100)	ND (2,100)
TPH (unknown)	ND (100)	ND (100)	ND (100)	ND (100)	ND (2,100)

ANALYTE	MW23D-GW1	MW24D-GW1	MW25-GW1	MW25D-GW1
Date Sampled	2-23-95	2-23-95	2-23-95	2-23-95
TPH (gasoline)	ND (100)	ND (100)	ND (100)	ND (100)
TPH (diesel)	ND (100)	ND (100)	ND (100)	ND (100)
TPH (motor oil)	ND (100)	ND (100)	ND (100)	ND (100)
TPH (unknown)	ND (100)	ND (100)	ND (100)	ND (100)

Note: All reported concentrations are $\mu\text{g/l}$. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis ($\mu\text{g/l}$).

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 11 (CON'T)
GROUNDWATER ANALYTICAL DATA SUMMARY - VOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW9-GW1	MW10-GW1	MW10D-GW1	MW11-GW1	MW11D-GW1
Date Sampled	1-31-94	1-31-94	2-23-95	1-31-94	2-23-95
Acetone	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
2-Butanone	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethene, Total	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2,-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2,-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methylene chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Xylenes, Total	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

ANALYTE	MW12-GW1	MW13-GW1	MW13D-GW1	MW14-GW1	MW15-GW1
Date Sampled	2-28-94	2-28-94	2-23-95	3-8-94	3-2-94
Acetone	ND (50)	ND (170)	ND (170)	ND (20)	ND (250)
2-Butanone	ND (50)	ND (170)	ND (170)	---	ND (250)
1,1-Dichloroethane	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)
1,2-Dichloroethene, Total	ND (5)	ND (17)	ND (17)	---	ND (25)
cis-1,2,-Dichloroethene	---	---	ND (17)	---	ND (25)
trans-1,2,-Dichloroethene	---	---	ND (17)	---	ND (25)
Ethylbenzene	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)
Methylene chloride	ND (5)	ND (17)	ND (17)	ND (10)	ND (25)
Tetrachloroethene	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)
Toluene	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)
1,1,1-Trichloroethane	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)
Trichloroethene	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)
Vinyl Chloride	ND (10)	ND (33)	ND (33)	ND (2)	ND (50)
Xylenes, Total	ND (5)	ND (17)	ND (17)	ND (1)	ND (25)

Note: All reported concentrations are µg/l. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/l).

"---" = Not tested for specific isomers. A total value for the constituent was determined instead.

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 11 (CON'T)
GROUNDWATER ANALYTICAL DATA SUMMARY - VOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW20S-GW1	MW20D-GW1	MW21-GW1	MW21D-GW1	MW23S
Date Sampled	11-3-94	11-3-94	11-21-94	2-23-95	4-11-95
Acetone	ND (50)	ND (50)	ND (50)	ND (50)	ND (2,500)
2-Butanone	ND (50)	ND (50)	ND (50)	ND (50)	ND (2,500)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (250)
1,2-Dichloroethane, Total	ND (5)	ND (5)	ND (5)	ND (5)	ND (250)
cis-1,2,-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (250)
trans-1,2,-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (250)
Ethylbenzene	J (5)	ND (5)	ND (5)	ND (5)	ND (250)
Methylene chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (250)
Tetrachloroethene	J (5)	ND (5)	ND (5)	ND (5)	ND (250)
Toluene	J (5)	ND (5)	ND (5)	J (5)	ND (250)
1,1,1-Trichloroethane	ND (5)	J (5)	J (5)	J (5)	ND (250)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (250)
Vinyl Chloride	ND (10)	ND (10)	ND (10)	ND (10)	ND (500)
Xylenes, Total	J (5)	ND (5)	ND (5)	J (5)	J (250)

ANALYTE	MW23D-GW1	MW24D-GW1	MW25S-GW1	MW25D-GW1	M3-GW2
Date Sampled	2-23-95	2-23-95	2-23-95	2-23-95	4-4-94
Acetone	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
2-Butanone	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane, Total	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2,-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2,-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	J (5)	ND (5)	ND (5)
Methylene chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	J (5)	J (5)	J (5)
Toluene	J (5)	J (5)	J (5)	J (5)	ND (5)
1,1,1-Trichloroethane	J (5)	J (5)	ND (5)	ND (5)	J (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Xylenes, Total	J (10)	J (5)	J (20)	J (20)	ND (5)

Note: All reported concentrations are µg/l. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/l).

"—" = Not tested for specific isomers. A total value for the constituent was determined instead.

J - Estimated value (detected), but below quantitation limit

B - Compound detected in method blank associated with this sample

TABLE 12
GROUNDWATER ANALYTICAL DATA SUMMARY - SVOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW-Exist	MW-1	MW-2	MW-3	MW-3
Date Sampled	11-5-93	11-4-93	11-4-93	11-4-93	12-1-93
2-Methylnaphthalene	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Benzo(b) fluoranthene	ND (40)	ND (10)	ND (10)	J (25)	J (10)
Bis(2-ethylhexyl)phthalate	J (40)	J (10)	J (10)	J (25)	J (10)
Carbazole	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Chrysene	J (40)	ND (10)	ND (10)	J (25)	J (10)
Di-n-butyl phthalate	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Di-n-octyl phthalate	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Diethylphthalate	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Fluoranthene	ND (40)	ND (10)	ND (10)	J (25)	J (10)
Naphthalene	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
4-Nitrophenol	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Pentachlorophenol	ND (200)	ND (50)	ND (50)	J (120)	ND (50)
Phenol	ND (40)	ND (10)	ND (10)	ND (25)	ND (10)
Pyrene	J (40)	ND (10)	ND (10)	J (25)	J (10)

ANALYTE	MW-4	MW-5	MW5D-GW1	MW-6	MW-7
Date Sampled	11-15-93	11-15-93	11-3-94	12-1-93	12-1-93
2-Methylnaphthalene	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Benzo(b) fluoranthene	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Bis(2-ethylhexyl)phthalate	J (10)	ND (10)	ND (10)	J (10)	J (20)
Carbazole	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Chrysene	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Di-n-butyl phthalate	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Di-n-octyl phthalate	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Diethylphthalate	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Fluoranthene	ND (10)	ND (10)	ND (10)	J (10)	ND (20)
Naphthalene	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
4-Nitrophenol	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Pentachlorophenol	ND (50)	ND (50)	ND (10)	ND (50)	ND (100)
Phenol	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)
Pyrene	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)

Note: All reported concentrations are µg/l. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/l).

"—" = Not tested for analyte.

J - Estimated value (detected), but below quantitation limit

TABLE 12 (CON'T)
GROUNDWATER ANALYTICAL DATA SUMMARY - SVOCs
ALLIED PRODUCTS CORPORATION
SOUTH BEND, INDIANA

ANALYTE	MW21D-GW1	MW23S-GW1	MW23D-GW1	MW24D-GW1	MW25-GW1
Date Sampled	2-23-95	4-11-95	2-23-95	2-23-95	2-23-95
2-Methylnaphthalene	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Benzo(b) fluoranthene	---	---	---	---	---
Bis(2-ethylhexyl)phthalate	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Carbazole	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Chrysene	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Di-n-butyl phthalate	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Diethylphthalate	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Fluoranthene	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Naphthalene	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	ND (10)	ND (250)	ND (50)	ND (50)	ND (50)
Phenol	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)
Pyrene	ND (10)	ND (50)	ND (10)	ND (10)	ND (10)

ANALYTE	MW25D-GW1
Date Sampled	2-23-95
2-Methylnaphthalene	ND (10)
Benzo(b) fluoranthene	---
Bis(2-ethylhexyl)phthalate	ND (10)
Carbazole	ND (10)
Chrysene	ND (10)
Di-n-butyl phthalate	ND (10)
Di-n-octyl phthalate	ND (10)
Diethylphthalate	ND (10)
Fluoranthene	ND (10)
Naphthalene	ND (10)
4-Nitrophenol	ND (10)
Pentachlorophenol	ND (10)
Phenol	ND (10)
Pyrene	ND (10)

Note: All reported concentrations are µg/l. ND = Not Detected. Number in parentheses indicates nominal detection limit for analysis (µg/l).

"---" = Not tested for analyte.

J - Estimated value (detected), but below quantitation limit

WC: BORDER-L DATE: 5-2-95

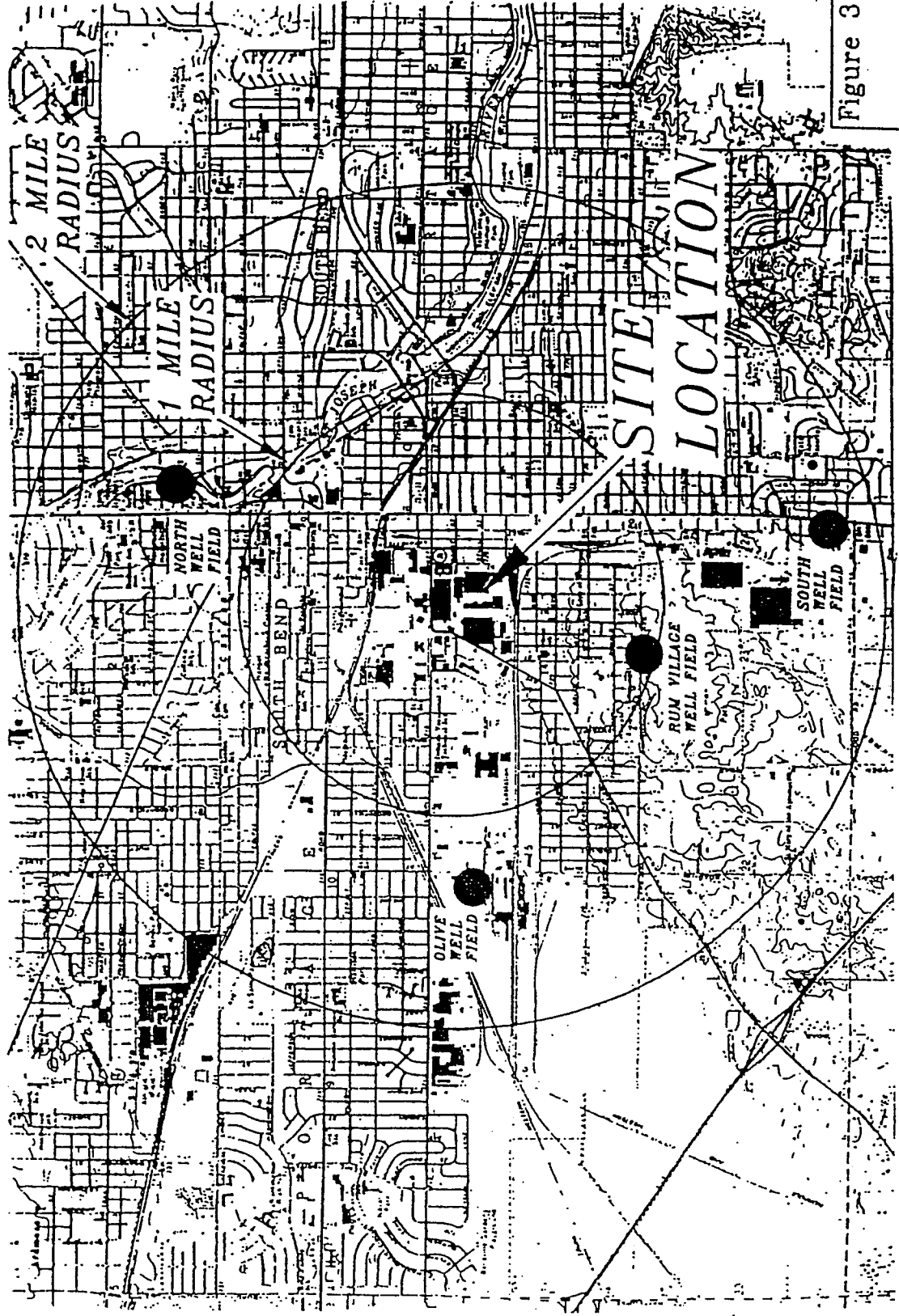
CHKD BY:

REV DATE:

CHKD BY:

REV DATE:

CHKD BY:



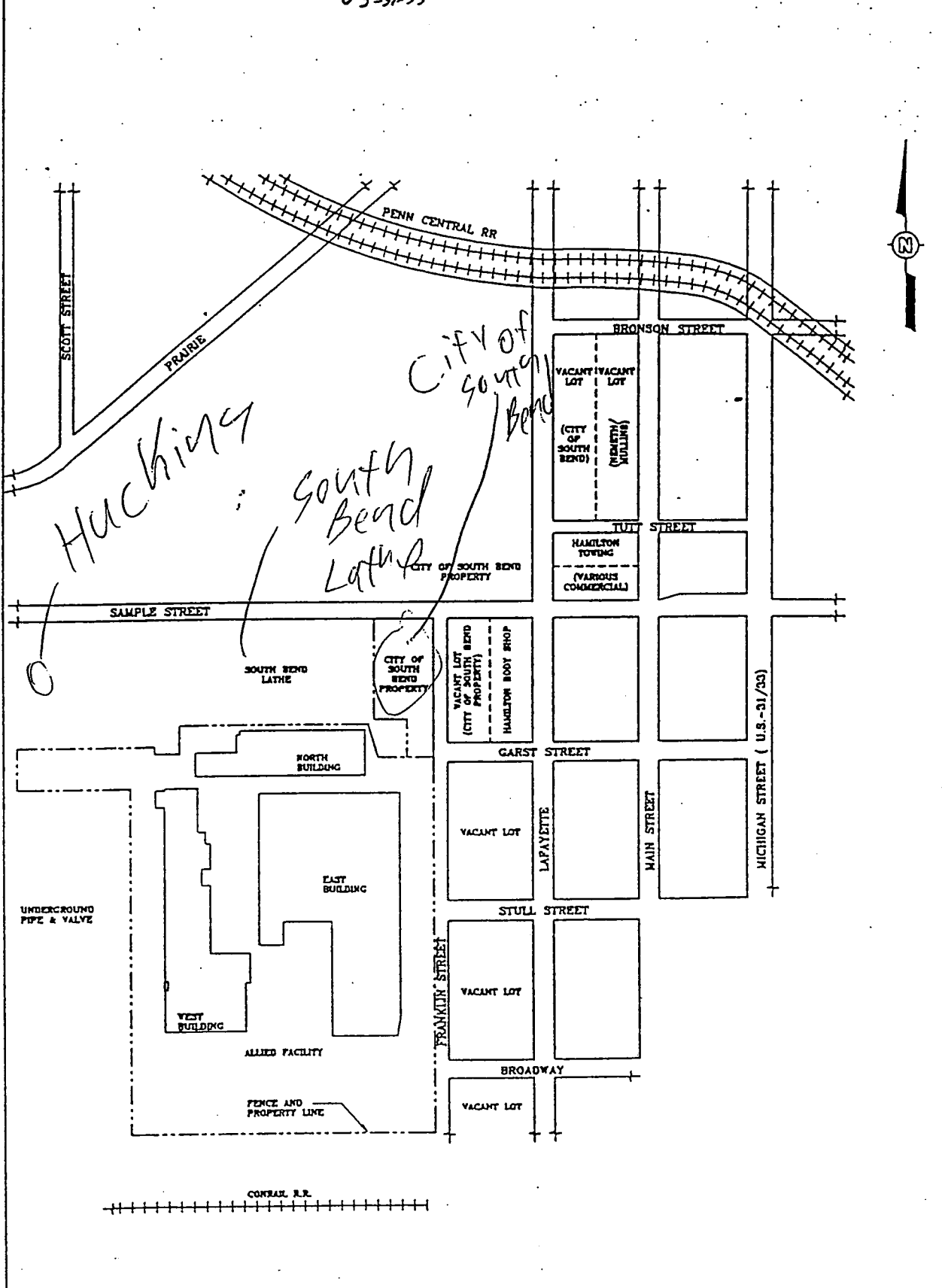
LEGEND

● MUNICIPAL WATER SUPPLY WELL LOCATION

Figure 3

APT

WATER SUPPLY WELLS
ALLIED PRODUCTS



SOURCE: SURVEY MAP BY L. STRACHMAN, SCALE 1 in = 80 ft., DATED 3-13-85

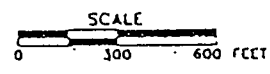
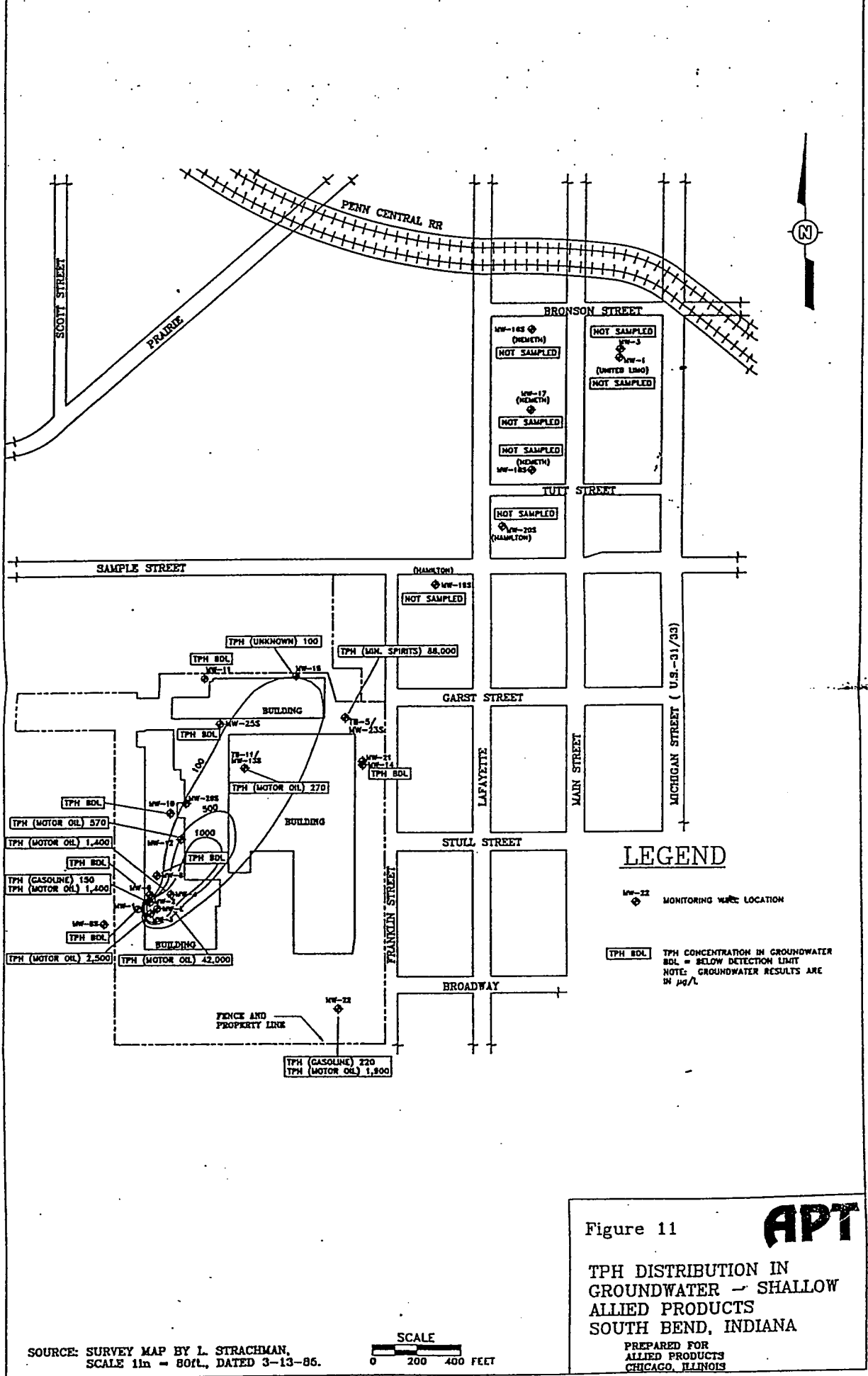


Figure 2
AP
 SITE MAP AND ENVIRONS
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA
 PREPARED FOR
 ALLIED PRODUCTS
 CHEMICAL DIVISION



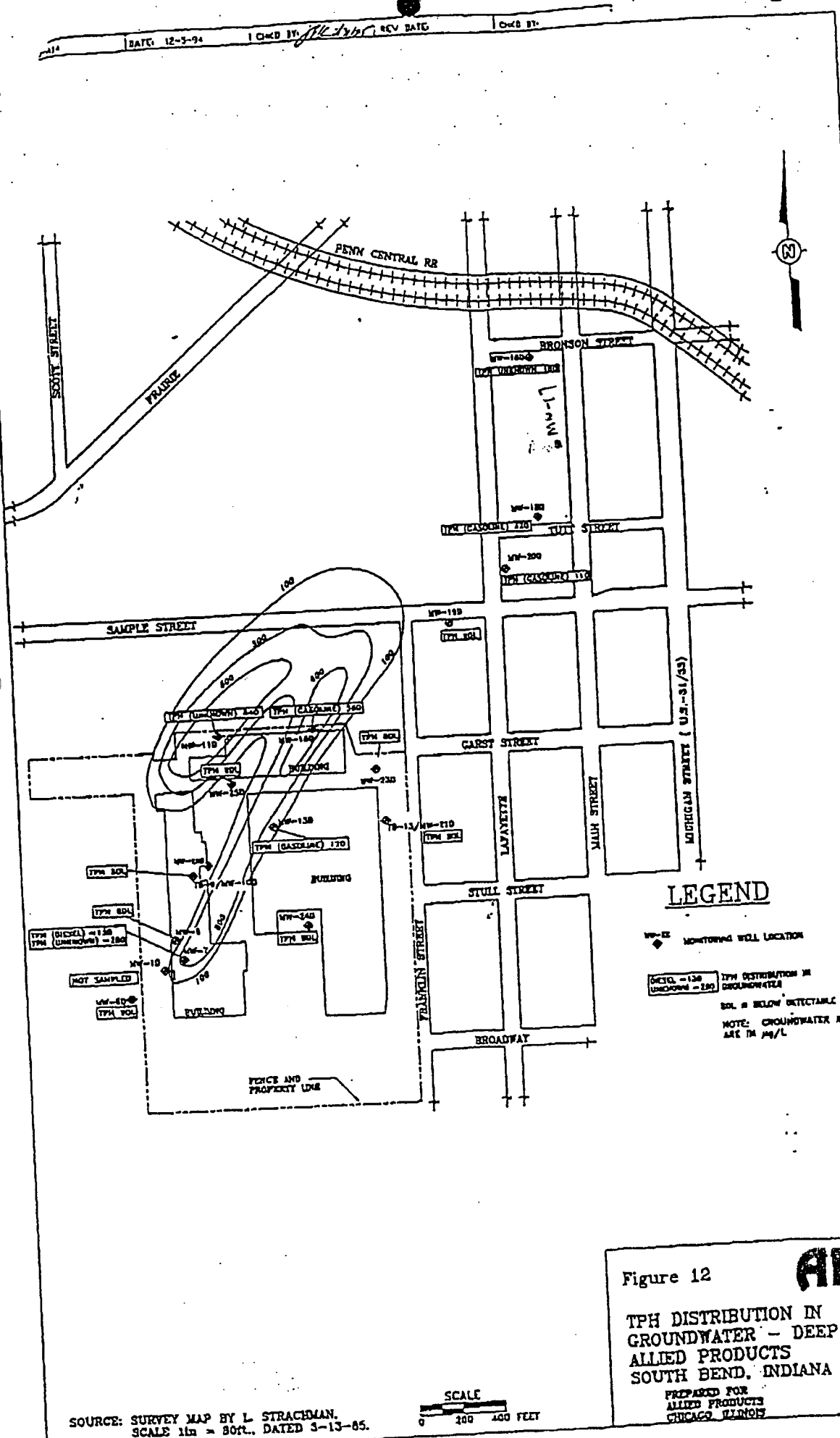
SOURCE: SURVEY MAP BY L. STRACHMAN,
SCALE 1in = 80ft., DATED 3-13-86.

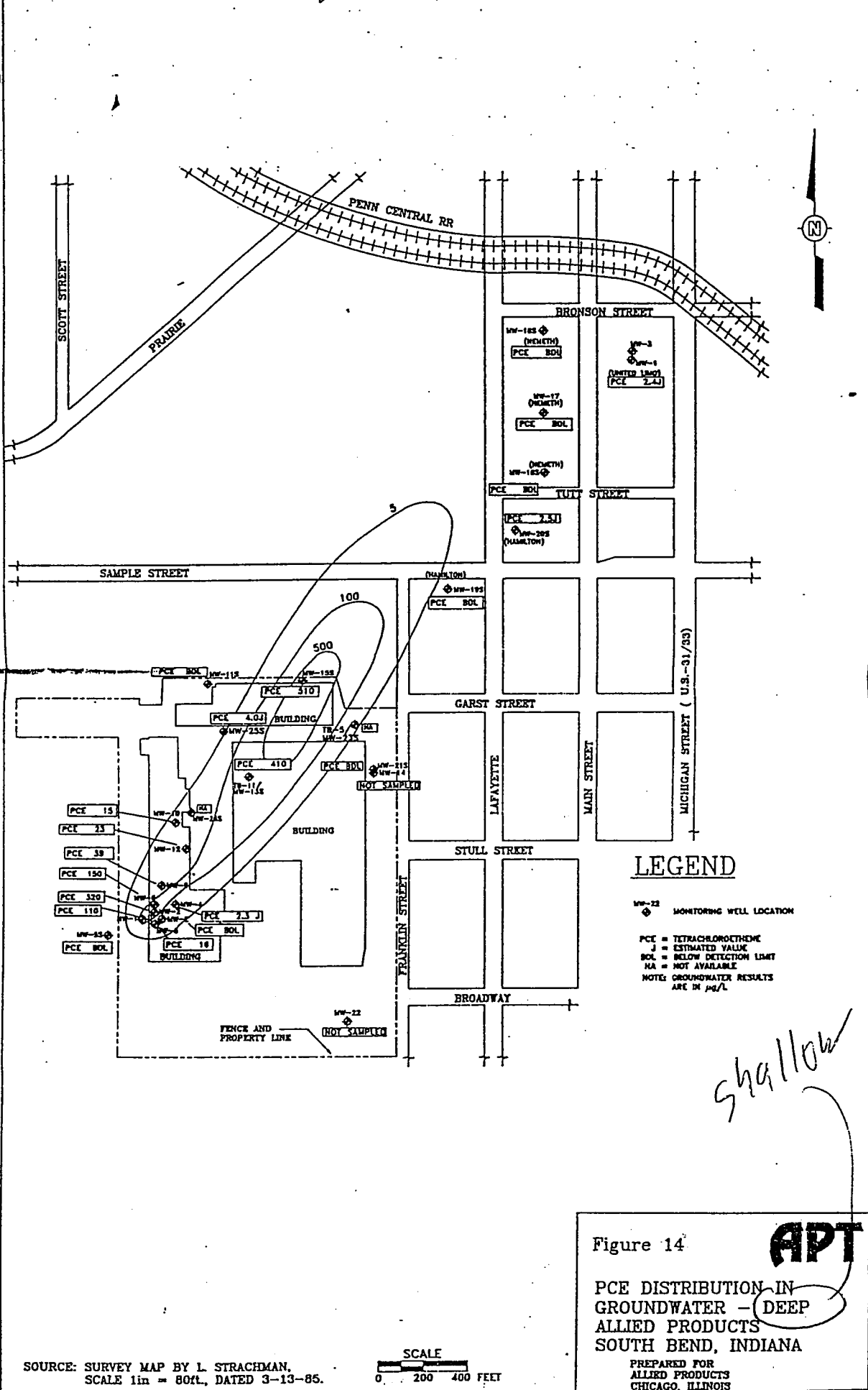
Figure 11

APT

TPH DISTRIBUTION IN
GROUNDWATER - SHALLOW
ALLIED PRODUCTS
SOUTH BEND, INDIANA

PREPARED FOR
ALLIED PRODUCTS
CHICAGO, ILLINOIS





LEGEND

- MW-22 MONITORING WELL LOCATION
- PCE = TETRACHLOROETHENE
- J = ESTIMATED VALUE
- BOL = BELOW DETECTION LIMIT
- NA = NOT AVAILABLE
- NOTE: GROUNDWATER RESULTS ARE IN µg/L

Shallow

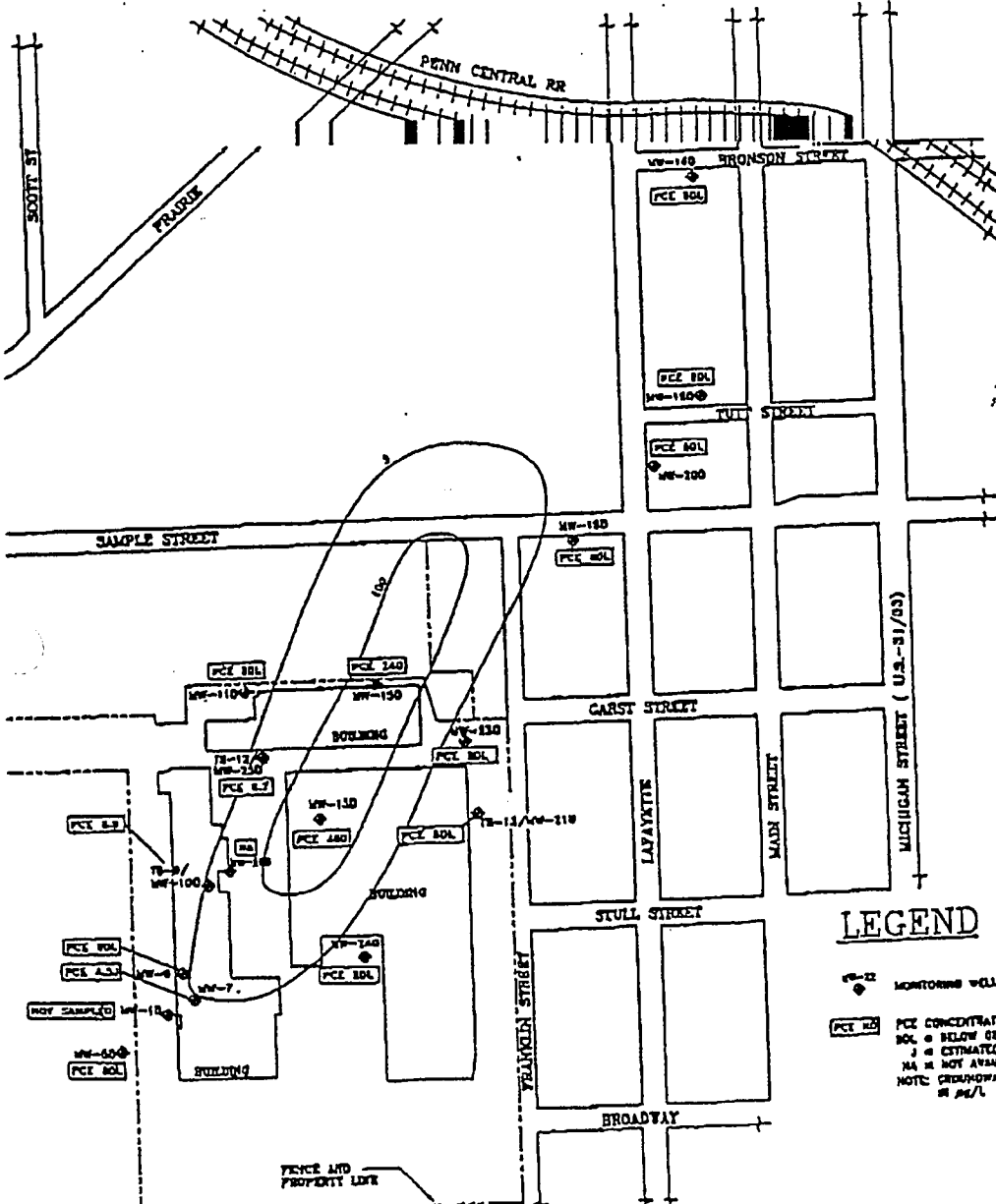
Figure 14

APT

PCE DISTRIBUTION IN GROUNDWATER - DEEP ALLIED PRODUCTS SOUTH BEND, INDIANA

PREPARED FOR ALLIED PRODUCTS CHICAGO, ILLINOIS

DATE 3-16-95 CHECKED BY JEC/ALB/REV DATE CHECK BY



LEGEND

- MONITORING WELL LOCATION
- PCE CONCENTRATION IN GROUNDWATER
 - BDL = BELOW DETECTION LIMIT
 - = ESTIMATED VALUE
 - NA = NOT AVAILABLE

NOTE: GROUNDWATER RESULTS ARE IN $\mu\text{g/L}$

Figure 15

APT

PCE DISTRIBUTION IN GROUNDWATER - DEEP
 ALLIED PRODUCTS -
 SOUTH BEND, INDIANA

PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS

SOURCE: SURVEY MAP BY L. STRACHMAN,
 SCALE 1 in = 80 ft., DATED 3-13-85.

SCALE
 0 200 400 FEET

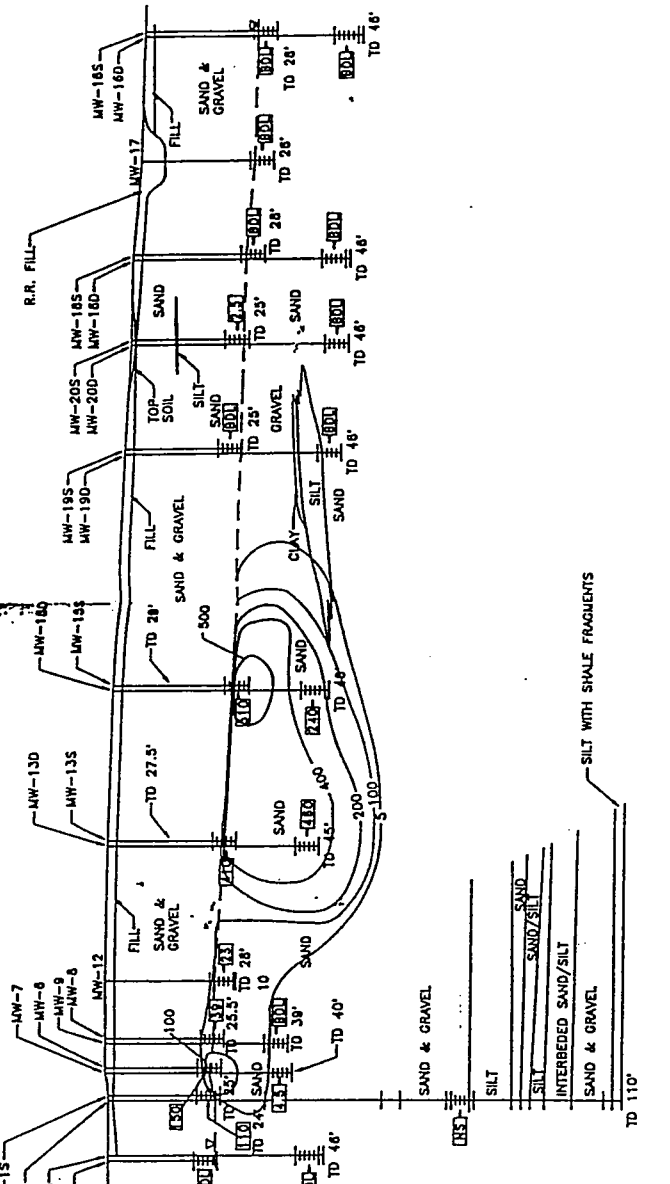
DWG. 8708-A03 DATE: 5-4-95 CHKD BY: JHE REV. DATE: CHKD BY:

A' NORTH

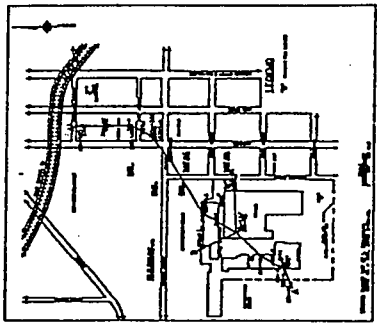
100
80
60
40
20
0
20

A' SOUTH

100
80
60
40
20
0
20



KEY MAP



LEGEND

- ▬ SCREENED INTERVAL
- ▬ PCE CONCENTRATION IN GROUNDWATER ($\mu\text{g}/\text{l}$)
- BDL = BELOW DETECTION LIMIT
- NS = NOT SAMPLED

NOTE: ELEVATIONS WERE MEASURED FROM TEMPORARY BENCH MARK (100.00).



Figure 16


APT
 NORTH - SOUTH CROSS-SECTION A - A'
 PCE IMPACTED GROUNDWATER
 ALLIED PRODUCTS
 SOUTH BEND, INDIANA
 PREPARED FOR
 ALLIED PRODUCTS
 CHICAGO, ILLINOIS

**ENVIRONMENTAL INVESTIGATION
SOUTH BEND LATHE
400 W. SAMPLE STREET
SOUTH BEND, INDIANA**


JULY 31, 1992

**PREPARED FOR
TURNMASTER CORPORATION**

**PREPARED BY
EIS ENVIRONMENTAL ENGINEERS, INC.
1701 NORTH IRONWOOD DRIVE
SOUTH BEND, INDIANA**



John R. Wingard, P.E.
Senior Engineer



H. Stephen Nye, P.E.
President

1.0 INTRODUCTION

EIS Environmental Engineers, Inc. (EIS) of South Bend, Indiana was retained by the Turnmaster Corporation of Carson, California to conduct an environmental investigation of the South Bend Lathe property located at 400 W. Sample Street in South Bend, Indiana. The site location is indicated on Figure 1.1.

1.1 Purpose

The purpose of the investigation was to determine if soil or groundwater contamination was present near five underground storage tanks (USTs) and an associated fuel oil piping track, to collect and analyze samples of possible asbestos-containing roofing materials, and to develop rough cost estimates of possible tank removal and asbestos abatement costs.

1.2 Scope

The scope of the investigation included conducting eight soil borings at selected locations adjacent to the USTs and fuel oil piping track. Soil and groundwater samples were collected from each borehole for laboratory analysis. Soil samples were screened for Volatile Organic Compounds (VOC) with a field Photoionization Detector (PID) analyzer, and selected samples were analyzed for Total Petroleum Hydrocarbons (TPH) by the EIS laboratory. Groundwater samples collected from two borings adjacent to a waste oil tank were analyzed for TPH and VOC. The remaining groundwater samples were analyzed for Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX). A total of 24 samples of possible asbestos-containing roofing materials were also collected for laboratory asbestos analysis.



Approximate Scale 1 in = 2000
 USGS 7.5 Minute Series
 SOUTH BEND EAST, SOUTH BEND WE



FIGURE 1.1
SITE LOCATION MAP
 SOUTH BEND LATHE
 400 W. SAMPLE STREET
 SOUTH BEND, INDIANA



0 40'

SCALE

SOUTH BEND LATHE BUILDING

250 GALLON
CLEAN OUT TANK

B-1
B-2

6,000 GALLON
WASTE OIL UST

B-4

20,000 GALLON
FUEL OIL USTS

PIPING TRACK

B-5

B-6

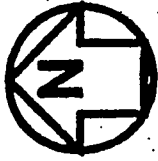
B-7

20,000 GALLON
FUEL OIL UST

FENCE

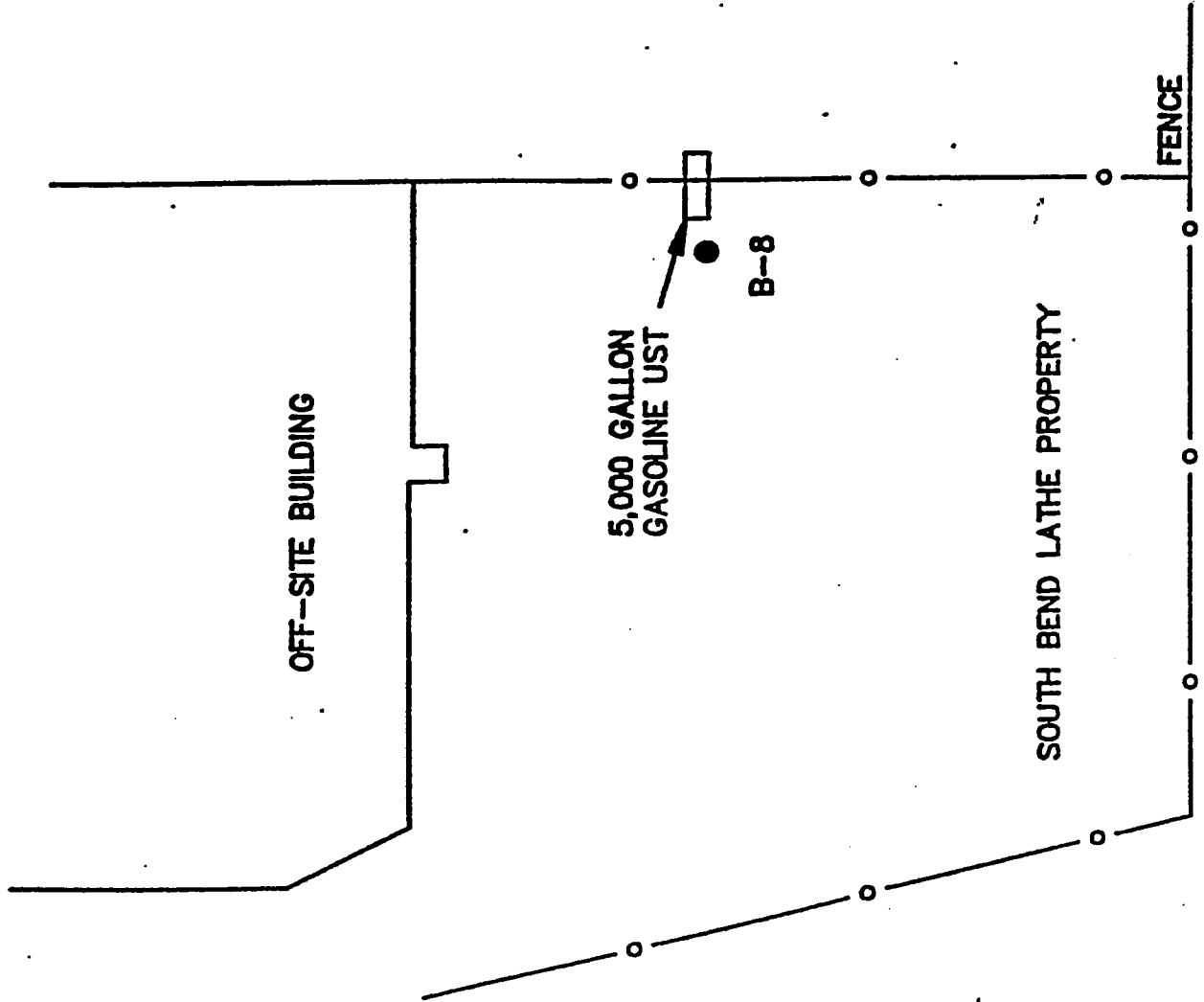
KEY
● SOIL BORING LOCATION

FIGURE 2.1
SOUTHWEST SITE PLAN
SOUTH BEND LATHE
400 W. SAMPLE ST.
SOUTH BEND, INDIANA



0 40'

SCALE



KEY
● SOIL BORING LOCATION

FIGURE 2.2
SOUTHEAST SITE PLAN
SOUTH BEND LATHE
400 W. SAMPLE ST.
SOUTH BEND, INDIANA

**TABLE 3.1
TPH AND BTEX
ANALYTICAL RESULTS
SOIL & GROUNDWATER SAMPLES**

<u>Sample</u>	<u>Units</u>	<u>TPH</u>	<u>Benzene</u>	<u>Ethyl- Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>
B-1(1.5-3.0)	ppm	4,530*	-	-	-	-
B-1(GW)	mg/l	15*	<0.001	<0.001	<0.001	<0.001
B-2(16.5-18)	ppm	10,400*	-	-	-	-
B-2(GW)	mg/l	124*	<0.001	<0.001	<0.001	0.013
B-3(19.5-21)	ppm	<10	-	-	-	-
B-3(GW)	mg/l	-	<0.001	<0.001	<0.001	<0.001
B-4(19.5-21)	ppm	<10	-	-	-	-
B-4(GW)	mg/l	-	<0.001	<0.001	<0.001	<0.001
B-5(1.5-3.0)	ppm	2,550	-	-	-	-
B-5(16.5-18)	ppm	112	-	-	-	-
B-5(GW)	mg/l	0.44	<0.001	<0.001	0.010	0.008
B-6(1.5-3.0)	ppm	<10	-	-	-	-
B-6(GW)	mg/l	-	<0.001	<0.001	<0.001	<0.001
B-7(10.5-12)	ppm	<10	-	-	-	-
B-7(GW)	mg/l	-	<0.001	<0.001	<0.001	<0.001
B-8(1.5-3.0)	ppm	<10	-	-	-	-
B-8(GW)	mg/l	0.59	<0.001	<0.001	<0.001	<0.001

* By IR Method (418.1).

**TABLE 3.2
NON-BTEX VOC DETECTED IN
GROUNDWATER SAMPLES**

<u>Parameter</u>	<u>Results</u>					<u>EPA ug</u>
	<u>B-1(GW) ug/l</u>	<u>B-2(GW) ug/l</u>	<u>B-3(GW) ug/l</u>	<u>B-4(GW) ug/l</u>	<u>B-5(GW) ug/l</u>	
1,1-Dichloroethane	29	—	2.0	1.7	1.5	—
c-1,2-Dichloroethene	—	—	4.6	3.6	3.5	70
1,1,1-Trichloroethane	—	—	3.1	2.4	1.4	200
Trichloroethene	—	—	15	10	11	5
p-Isopropyltoluene	—	24	—	—	—	—
Naphthalene	—	20	—	—	—	—
1,2,4-Trimethylbenzene	—	125	—	—	—	—
1,3,5-Trimethylbenzene	—	40	—	—	—	—
Xylenes	—	12.5	—	—	—	—

* Maximum Contaminant Level (MCL) specified in EPA National Primary Drinking Water Standards.

The groundwater samples from borings B-3, B-4, and B-5 were found to contain levels of Trichloroethene (TCE) which were two to three times the Maximum Contaminant Level (MCL) for this compound specified in the EPA Drinking Water Standards. All relatively high levels of TPH were detected in the groundwater samples from borings B-1 and B-2. In our opinion, the levels of contamination found in the groundwater samples suggest that additional investigation should be conducted and that corrective action may be required.

3.3 Asbestos Analytical Results

The analytical results are summarized in Table 3.3. The laboratory analytical reports are included in Appendix A.

The results of the survey of suspect asbestos-containing materials (ACM) are summarized in Table 3.4.

3.4 Rough Cost Estimate

The rough cost estimates based on contractor information for possible asbestos abatement costs and possible removal costs for the waste oil and gasoline USTs are provided in Tables 3.5 and 3.6.

TABLE 3.6
ROUGH COST ESTIMATES - TANK REMOVAL

- **Removal of 6,000-gallon waste oil tank and up to 200 C.Y. of non-hazardous petroleum hydrocarbon-contaminated soil, including compacted backfill, concrete repair, clearance sampling/analysis, landfilling of contaminated soil.**

\$20,000 to \$30,000

- **Removal of 5,000-gallon gasoline tank and up to 25 C.Y. of non-hazardous contaminated soil, including compacted backfill, concrete & fence repair, clearance sampling/analysis, soil disposal.**

\$9,000 to \$13,000

3-18-91

INITIAL PHASE II FINAL REPORT
LOT ONE STUDEBAKER CORRIDOR
SOUTH BEND, INDIANA
ATEC PROJECT NUMBERS 21-07458,
21-07460, AND 21-07461



MR. K.C. POCIUS
DEPARTMENT OF ECONOMIC DEVELOPMENT
COUNTY CITY BUILDING
SOUTH BEND, IN 46601



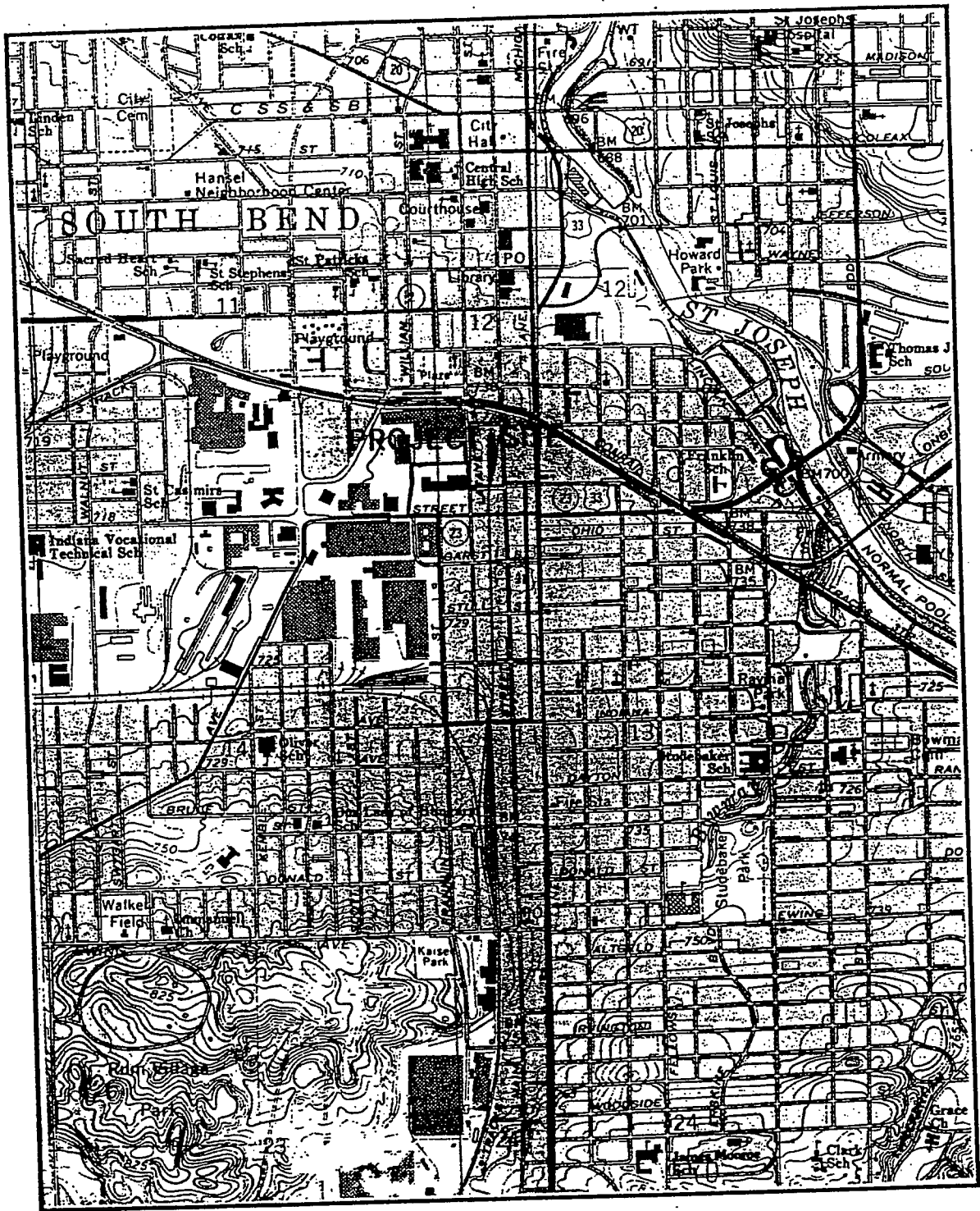
VICINITY MAP
 STUDEBAKER CORRIDOR PROJECT
 SOUTH BEND, IN

PROJECT NO.
 21-07458/61

SCALE
 1" = 2000'

FIGURE NO.
 1





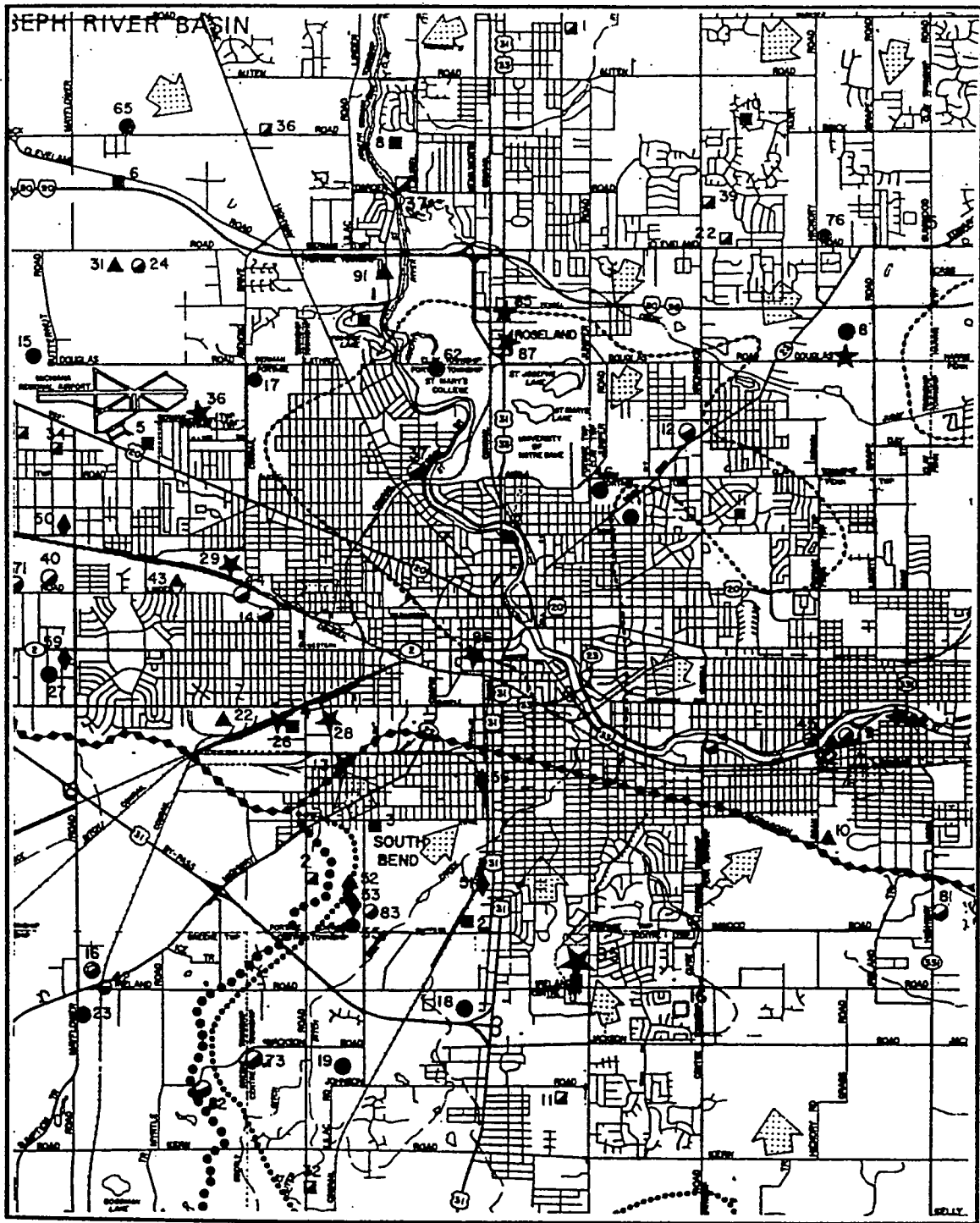
VICINITY MAP
 STUDEBAKER CORRIDOR
 SOUTH BEND, INDIANA

PROJECT NO.
 21-07262

SCALE
 1" = 2000'

FIGURE NO.
 1





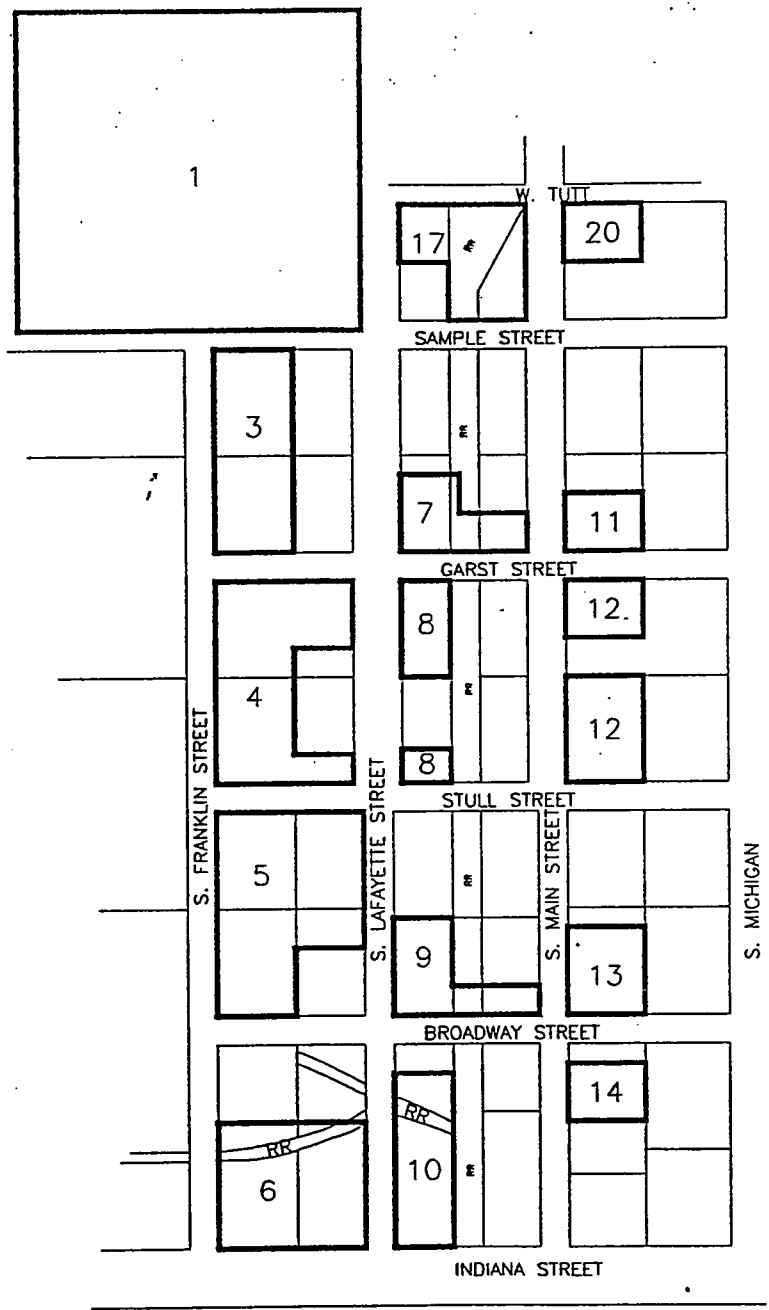
MICHIANA AREA COUNCIL OF
 GOVERNMENT MAP OF POTENTIAL
 GROUNDWATER CONTAMINATION SITES
 AUGUST 1989 SOUTH BEND

PROJECT NO.
 21-07262

SCALE
 NONE

FIGURE NO.
 1A





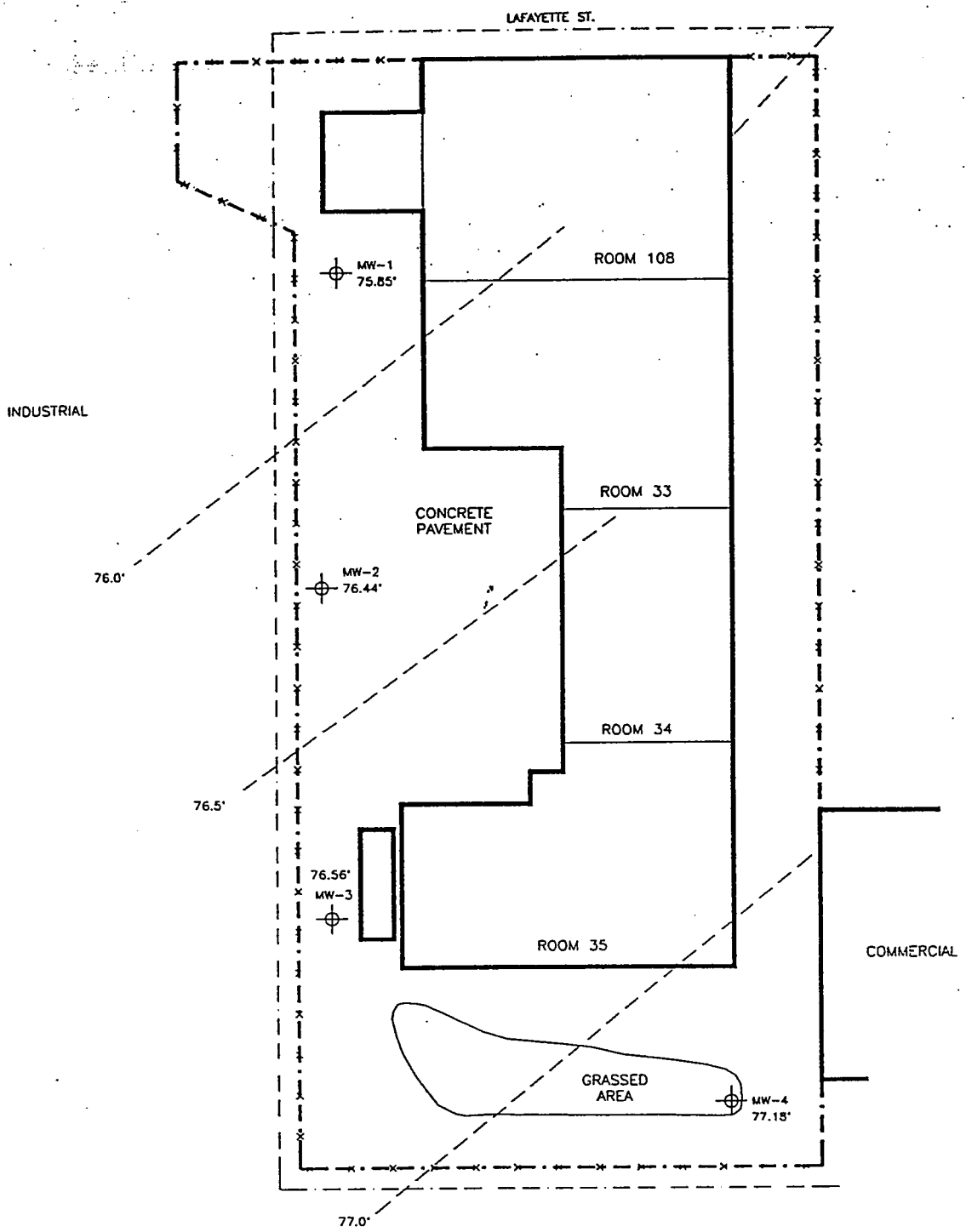
SITE PLAN
 STUDEBAKER CORRIDOR
 SOUTH BEND, INDIANA

PROJECT NO.
 21-07262

SCALE
 NONE

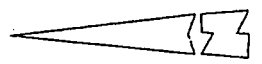
FIGURE NO.
 2





LEGEND

MONITORING WELL		FENCE	
GROUNDWATER ISOPLETH (FT)		OVERHEAD POWER	
		SITE BOUNDARY	



MONITORING WELL LOCATIONS
 STUDEBAKER CORRIDOR PROJECT
 LOT #1
 SOUTH BEND, IN

PROJECT NO.
 21-07458/61

SCALE
 1" = 100'

FIGURE NO.
 3



2.0 PHYSICAL SITE DESCRIPTION

2.1 The Studebaker Corridor

The study area encompasses portions of fifteen blocks of a mixed commercial, industrial and residential area of South Bend, Indiana as shown in Figure 2. A railroad Right-of-Way extends north and south through the study site. Each portion of the site has been addressed as a separate lot in an attempt to simplify the information presented in this report and to better address specific concerns with regard to the study site.

The topography of the site is generally flat. Drainage in the gravel and vegetated areas appears to be direct percolation with minor sheet flow to discharge points located along the bordering roadways. Drainage in the paved area is graded fall to discharge points located at the site and along the bordering roadways.

The DNR Quaternary Geologic Map of Indiana, 1989 indicate the soil in the area of the site is pre-Wisconsin-mixed drift. According to the DNR Bedrock Geologic Map of Indiana (1987) the bedrock at the site is Ellsworth Shale. However, the surface of the study is Urban land covered with vegetation, gravel and pavement. Urban land is obscured by public works and structures, making identification of on-site material soils impossible.

The USGS topographical map of the area (South Bend West Quad, Photorevised 1986, Figure 1), indicates surface water in the vicinity of the site is part of the St. Joseph's River watershed. Groundwater flow direction may be indicated by surface water flow direction, although this method is approximate at best. Groundwater flow direction may also be determined by interpretation of existing empirical data from nearby sites. This data may be collected from a variety of sources, including state and federal agencies.

Based upon a review of this information and ATEC's previous experience in the area, groundwater flow at the site is estimated to be toward the northeast. A "Michiana" Council of Government Map of Potential Groundwater Contamination Sites, 1989 (Figure 1A) indicates groundwater flow direction to the northeast. Actual groundwater flow direction at the site can only be determined by the installation of monitoring wells at the site, with associated calculations derived from water level measurements and survey data. Also, buried utilities, wells and other underground construction within an urban setting may allow routes of possible contamination inconsistent with the flow of groundwater.

2.2 Underground Storage Tanks (USTs)

In response to the national focus on groundwater contamination, The United States Congress has included USTs in the constantly expanding field of environmental protection. On

presence, number of, and contents of USTs possibly located at the site.

Records at IDEM UST Section indicate eight (8) USTs have been in place at the Allied Products facility located at 601 West Broadway located parallel to the study site on the west. Records indicate most of the tanks, some of which are 25 to 50 years old, are permanently out of use. Their contents are noted as petroleum, kerosene and fuel oil. IDEM records also indicate the presence of eight (8) USTs containing diesel fuel, gasoline and used oil located at the South Bend Municipal Services Garage, located at 701 West Sample, directly adjacent on the west to Lot One. A report in IDEM's Leaking UST file indicates a 1,000 gallon UST which had contained used oil was removed from the Garage in June of 1989. The report indicates some contaminated soil was noted in the tank pit. A copy of a letter regarding this matter is included in Appendix B of this report. Also, a report dated August 1, 1989 was discovered of a study to determine if groundwater contamination had occurred at Gates Chevy World, 401 South Lafayette Boulevard from leaking of the contents of a UST containing gasoline. The study indicates no groundwater contamination was discovered. Excerpts from the report are included in Appendix B.

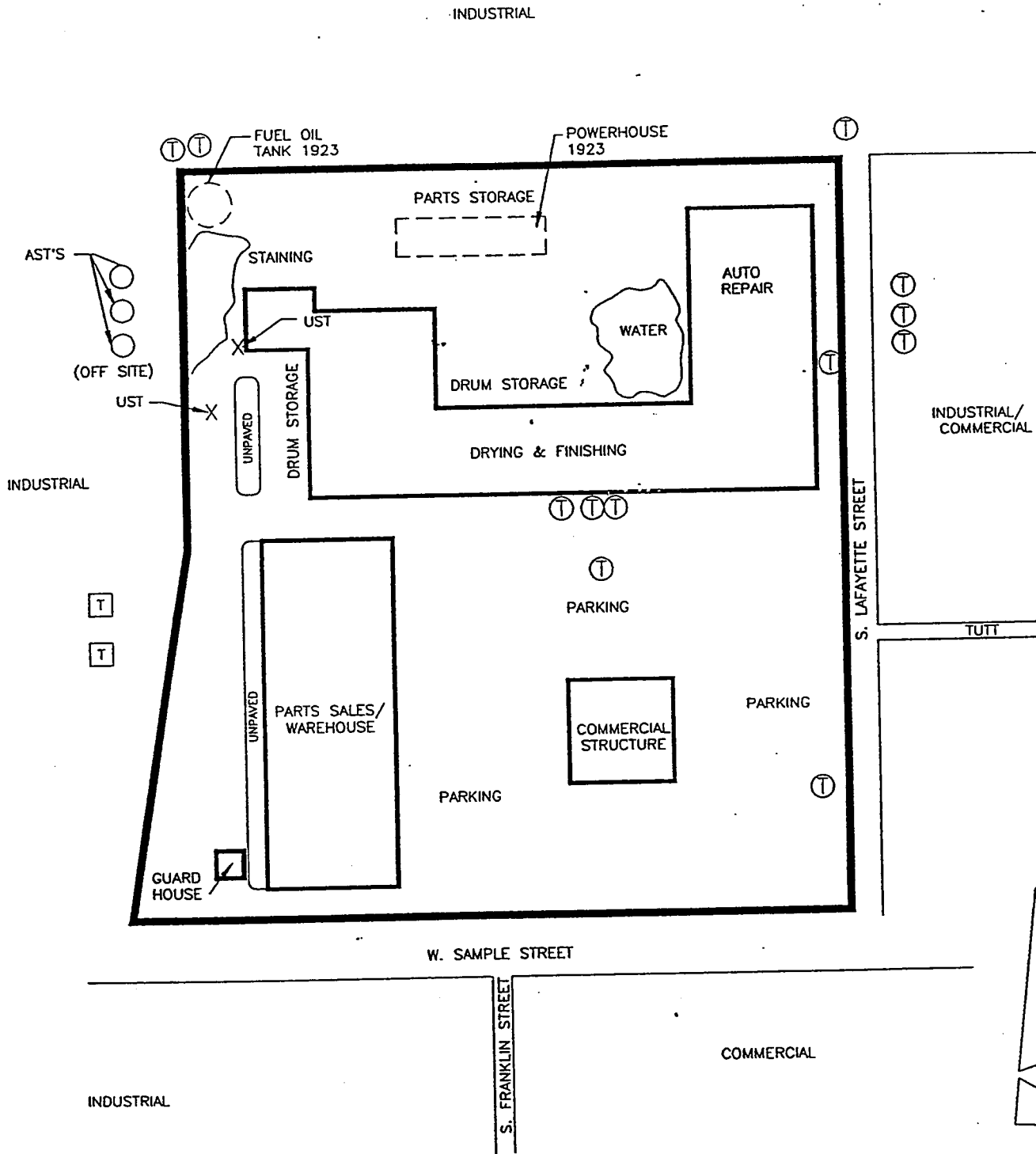
A review of information contained in the CERCLIS scoring package regarding the Studebaker facility (Lot One) was performed to determine the status of the investigation performed at that site. The score pack recommends further action to determine if the spills and drum storage activities have affected groundwater and soils at the site.

Several RCRA permitted facilities were noted in the area surrounding the study site. A review of records maintained at IDEM's Office of Solid and Hazardous Waste and IDEM's Emergency Response was conducted to determine the possibility of spills or actions regarding the RCRA permitted facilities. Records indicate a violation of recordkeeping by Allied Products with regard to PCB was discovered at IDEM/OSHWM. A copy of the violation is included in Appendix B.

According to the Michigan Area Council of Governments, several areas of potential groundwater contamination are located south and west of the study site. South Bend Auto Parts, Bush Auto Salvage, Steve and Jeans Junk Yard and AM General LTV are all located within a mile west and south of the study site.

2.5 Utilities

Water and sewer services are available through the City of South Bend. Electrical power is available through Indiana and Michigan Power Company (I&M). Natural gas is available through NIPSCO.



SITE PLAN
 STUDEBAKER CORRIDOR, LOT ONE
 SOUTH BEND, INDIANA

PROJECT NO.
 21-07262

SCALE
 NONE

FIGURE NO.
 2A



municipal service facility. Allied Products/Stamping Division, occupies the area south and southwest of the study site. A commercial restaurant occupies the area south, southeast of the facility.

SITE HISTORY AND RECORDS REVIEW - LOT ONE

Prior Ownership and Usage

Records located at the St. Joseph's County Engineers Office, South Bend Public Library, Indiana State Library, and the Studebaker Historical Museum were reviewed with regard to the historical use of the study site. An interview with SHM historian, Jean Denham, regarding the study site was also conducted. Information from the above sources indicate the site functioned as a wagon manufacturing facility in the late 1800's until it became the location for the manufacture of automobiles around the turn of the century. The site functioned as an automobile manufacturing facility until the late 1980's when the facility ceased operations.

Aerial Photography

Aerial photographs of the site dated 1963 and 1984 were consistent with information supplied by Ms. Denham and Mr. Tom Apple of the Studebaker Historical Museum. Due to the absence of historical aerial photography, Sanborn Fire Insurance maps dated 1893, and 1917 were reviewed and found to be consistent with records and interviews regarding the historical use of the study site. A review of this information indicates the

study site was developed by the Studebaker brothers from vacant land as a wagon manufacturing facility in the late 1800's. The facility was converted to a Studebaker automobile manufacturing facility in the early 1900's. Although the facility continued to function as a manufacturing facility it became the Avanti plant in the early 1970's. The Avanti operation continued until 1988. However operations were sporadic from 1986 to 1988. No manufacturing operations were noted during the site visit.

Regulatory Review

No records were discovered at IDEM Underground Storage Tank Section indicating the presence of underground storage tanks located at the site for which notification is required. However, as previously discussed, historical records and visual observations indicate the possible presence of USTS at the site.

The study site was not found listed in the Indiana registry of Hazardous Waste Handlers as a RCRA permitted facility. However, visual observations indicate operations involving hazardous materials have occurred at the study site.

The study site is listed in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) as previously noted.

the system was tuned against Bromofluorobenzene and calibrated with the appropriate standard.

3.2.1 Soil Analysis

Total heavy metals analysis of soils samples revealed three (3) metals (barium, chromium, and lead) detected at concentrations above quantitation limits. The quantitation limit is the minimum concentration in which the laboratory instrument can assign a value for each individual test performed. As shown below, Table 2 summarizes test results of soil samples collected from monitoring well (MW) locations and the depth from which each soil sample was collected.

Table 2 Total Heavy Metals (THMs) in Soils				
Sample Location	Barium	Chromium	Lead	Depth (ft)
MW-1	6.1	4.1	3.5	23.5 - 25.0
MW-2	4.4	4.7	2.2	23.5 - 25.0
MW-3	6.7	5.2	2.6	23.5 - 25.0
MW-4	3.7	5.8	2.9	21.0 - 22.5
Quantitation Limit	2.0	2.0	2.0	
Evaluation Criteria	117	13	30	

All test results are reported as parts per million (ppm).
PPM is equivalent to milligrams per kilogram (mg/kg) in soils and milligram per liter (mg/L) in water

Volatile Organic Compounds (VOCs) analysis of soils detected VOC constituents at sample locations MW-2 and MW-4. A summary of these test results is provided in Table 3.

The client should note that methylene chloride is reported as being detected in many samples. Methylene chloride as well as acetone and toluene are used as laboratory extraction solvents for various organic analyses. Although the extraction and preparation processes are all performed by trained personnel in separate rooms under a vented fumehood, some vapors escape and are released into the laboratory

The VOC analyses are summarized in Table 4 for groundwater samples. All VOCs detected are shown in Table 4 with the exception of methylene chloride. ATEC believes that this compound is introduced during laboratory analysis as explained in Section 3.2.1. Complete documentation of laboratory reports can be found in Appendix E.

Constituent	Sample Locations				Evaluation Criteria
	MW-1	MW-2	MW-3	MW-4	
Trans-1,2-Dichloroethene	ND	37	<5*	ND	100**
1,1,1-Trichloroethane (TCA)	ND	ND	10	ND	200
Trichloroethene (TCE)	ND	<5*	ND	ND	5
Tetrachloroethene (PCE)	ND	10	ND	<5*	5

* = Constituent detected but concentration present is less than quantitation limit
 ** = Represents proposed Maximum Contaminant Level (MCL)
 ND = Constituent not detected
 All results reported in parts per billion (ppb)
 This is equivalent to micrograms per liter (mg/L) in water

3.3 Evaluation Criteria

3.3.1 Soil

Total heavy metals occur naturally in soils and geologic formations. Acceptable background concentrations of total metals in soils are provided by the U.S. Geological Survey (USGS). The source used by ATEC for this project is the USGS professional paper 1270, by Shacklette and Boerngen. Acceptable concentrations are determined by using statistical methods on data from multiple sampling points. The acceptable background concentrations for various metals are calculated and provided in the USGS paper. The actual background concentrations are then calculated by adding the mean of the sample concentration to three (3) times the standard deviation of the sample concentrations. The calculated sample values and acceptable

ATEC Associates, Inc.



Consulting Geotechnical, Materials and Environmental Engineers

LOG OF BORING NO. MW-1

CLIENT Department of Economic Development
 PROJECT NAME Subsurface Investigation
 PROJECT LOCATION Studebaker Corridor / South Bend, Indiana
 BORING LOCATION Northeast corner of property
 FOREMAN R. West
 INSPECTOR C. Cashman

JOB NO. 21-07458
 START DATE 11/26/90
 BORING METHOD HSA
 ROCK CORE DIA. IN.
 SHELBY TUBE DIA IN.

SOIL/ROCK DESCRIPTION	STRATUM		SAMPLE NO.	SPT (*)	TFV		REMARKS
	DEPTH ft.	DEPTH ft.			REC %	ppm (**)	
Surface Elevation							
Brick and concrete (0.5')							
Dark brown slightly moist loose SILTY fine to coarse SAND (SM-SP)			1	6/3/3	50	ND	
		5	2	3/3/3	75	ND	
			3	4/3/3	100	ND	
	Brown below 8.5'						
		10	4	2/4/4	75	ND	
			5	2/4/4	75	ND	
	Trace Gravel below 13.5'						
		15	6	3/4/6	100	ND	
	Medium dense below 16.0'						
			7	4/7/10	75	ND	
		20	8	5/5/7	75	ND	
		9	3/5/8	100	ND		
0.25' black stain @ 25.0'							
Wet below 25.0'		25	10*	6/6/6	100	ND	
			11	4/6/10	75	ND	
		30					*Sample obtained for laboratory analysis
		35					
Bottom of test boring @ 32.75'							
		40					

WATER LEVEL OBSERVATIONS
 NOTED ON RODS 25.0 FT
 AT COMPLETION FT
 AFTER HRS. FT

BORING METHODS
 HSA-HOLLOW STEM AUGERS
 CFA-CONT.FLIGHT AUGERS
 HA-HAND AUGER

NOTES:(*)BLOWS/6 in., In Thru
 6 in. Increments
 REC %: Sample Recovery, %
 (**)TFV-Total Flame Ionizable Val
 ppm (parts per million)

ATEC Associates, Inc.



Consulting Geotechnical, Materials and Environmental Engineers

LOG OF BORING NO. MW-3

CLIENT Department of Economic Development JOB NO. 21-07458
 PROJECT NAME Subsurface Investigation START DATE 11/28/90
 PROJECT LOCATION Studebaker Corridor / South Bend, Indiana BORING METHOD HSA
 BORING LOCATION North of northwest corner of building ROCK CORE DIA. IN.
 FOREMAN R. West SHELBY TUBE DIA. IN.
 INSPECTOR C. Cashman

SOIL/ROCK DESCRIPTION	STRATUM		SAMPLE NO.	SPT (*)	TFV		REMARKS
	DEPTH ft.	DEPTH ft.			REC %	ppm (**)	
Surface Elevation							
0.1' Asphalt; 0.5' concrete (0.6')							
Sand and Gravel and concrete debris fill	3.5						
Brown moist loose SILTY fine to coarse SAND (SM-SP) with trace fine Gravel		5	1	10/7/3	100	ND	
			2	3/4/4	100	ND	
		10	3	3/4/4	100	ND	
			4	3/3/4	100	ND	
		15	5	3/5/5	75	ND	
Light brown below 13.5'			6	2/2/3	67	ND	
		20	7	4/4/3	67	ND	
			8	5/8/9	100	ND	
Medium dense below 21.0'			9*	5/7/7	100	ND	
		25					
Wet below 24.0'							
		30					
Bottom of test boring @ 32.0'							
		35					
			40				

*Sample obtained from laboratory analysis

WATER LEVEL OBSERVATIONS
 NOTED ON RODS 24.0 FT
 AT COMPLETION _____ FT
 AFTER _____ HRS. _____ FT

BORING METHODS
 HSA-HOLLOW STEM AUGERS
 CFA-CONT.FLIGHT AUGERS
 HA-HAND AUGER

NOTES:(*)BLOWS/6 in., In Ti
 6 in. Increments
 REC %: Sample Recovery, %
 (**)TFV-Total Flame Ionizable
 ppm (parts per million)

ATEC Associates, Inc.



Consulting Geotechnical, Materials and Environmental Engineers

LOG OF BORING NO. MW-4

CLIENT Department of Economic Development
 PROJECT NAME Subsurface Investigation
 PROJECT LOCATION Studebaker Corridor / South Bend, Indiana
 BORING LOCATION West of southwest corner of building
 FOREMAN R. West
 INSPECTOR C. Cashman

JOB NO. 21-07458
 START DATE 11/28/90
 BORING METHOD HSA
 ROCK CORE DIA. 1
 SHELBY TUBE DIA. 1

SOIL/ROCK DESCRIPTION	STRATUM		SAMPLE NO.	SPT (*)	REC %	TFV		REMARKS
	DEPTH ft.	DEPTH ft.				ppm	(**)	
Surface Elevation								
Black slightly moist loose Sand and Gravel fill	3.0		1	6/4/5	100	ND		
Brown slightly moist loose SILTY fine to course SAND (SM-SP) with trace Gravel		5	2	4/4/5	100	ND		
			3	3/5/3	100	ND		
Light brown medium dense below 11.0'		10	4	2/2/2	100	ND		
			5	5/7/7	67	ND		
		15	6	3/7/9	75	ND		
			7	3/5/6	100	ND		
Wet below 22.5'		20	8	3/5/7	100	ND		
			9*	3/5/8	100	1		
		25	10	3/3/7	50	ND		
Bottom of test boring @ 29.0'		30						*Sample obtained laboratory analysis
		35						
		40						

WATER LEVEL OBSERVATIONS
 NOTED ON RODS 22.5 FT
 AT COMPLETION _____ FT
 AFTER _____ HRS. _____ FT

BORING METHODS
 HSA-HOLLOW STEM AUGERS
 CFA-CONT. FLIGHT AUGERS
 HA-HAND AUGER

NOTES: (*) BLOWS/6 in., In 6 in. Increments
 REC %: Sample Recovery, %
 (**) TFV-Total Flame Ionizable ppm (parts per million)

INTERIM PHASE I ENVIRONMENTAL
SITE ASSESSMENT
STUDEBAKER CORRIDOR
SOUTH BEND, INDIANA
ATEC PROJECT NUMBER 21-07262



MR. K. C. POCIUS
DEPARTMENT OF ECONOMIC DEVELOPMENT
COUNTY CITY BUILDING
SOUTH BEND, IN 46601

