ENVIRONMENTAL SITE ASSESSMENTS

WATER STREET REDEVELOPMENT AREA

VOLUME 2

Prepared for:

Community and Economic
Development Department
One South Huron Street
Ypsilanti, Michigan 48197

City of Ypsilanti
Pride. Diversity. Heritage.

Prepared by:

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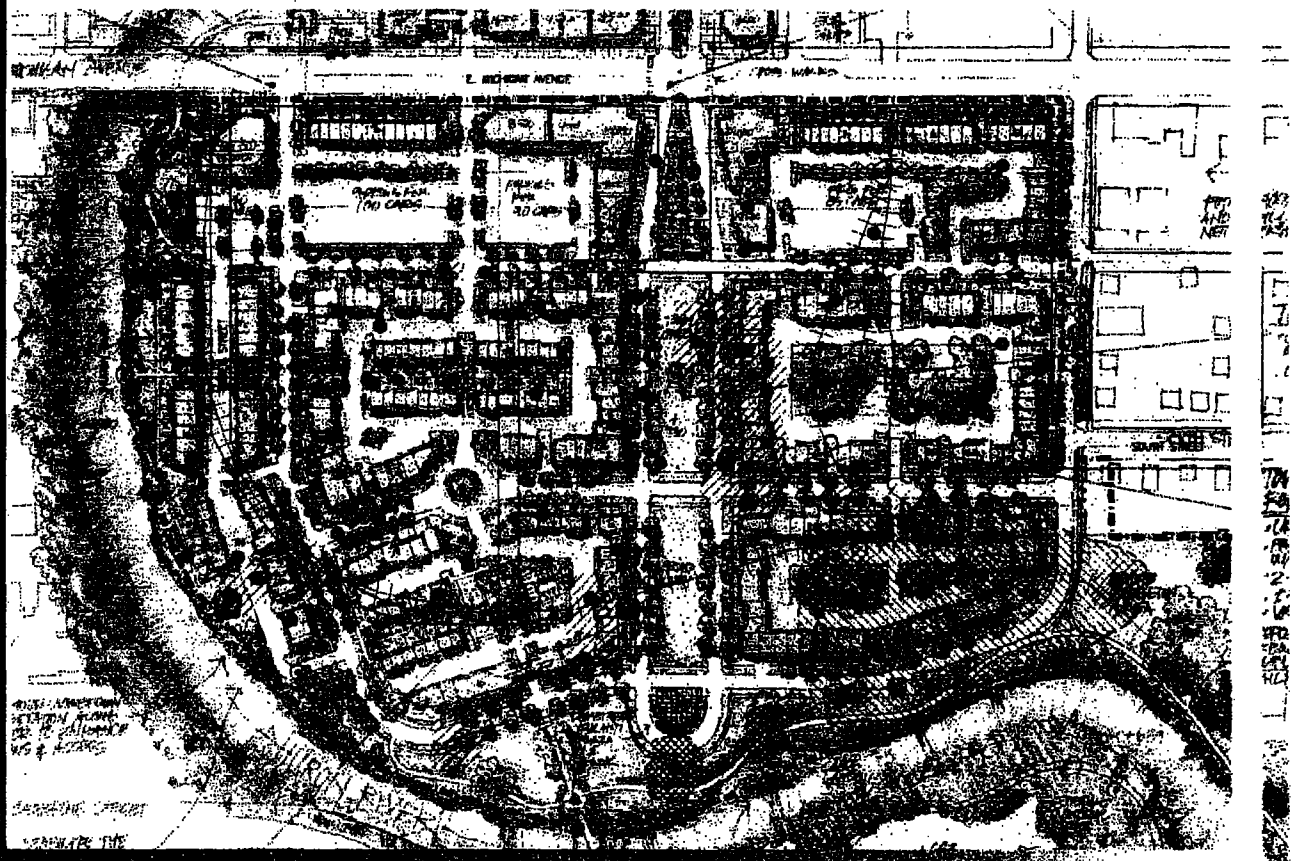

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Parcel #13 & #19	23 WATER STREET AND 20 E. MICHIGAN AVE.
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The EDR Area Study Report

Study Area
Water Street Area
Ypsilanti, Michigan

February 25, 1999

Inquiry number 341436.1s

Environmental Data Resources, Inc.
an edr company

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

The address of the subject property for which the search was intended is:

WATER STREET AREA
YPSILANTI, MI 48197

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following Databases:

NPL:..... National Priority List
Delisted NPL:..... NPL Deletions
RCRIS-TSD:..... Resource Conservation and Recovery Information System
CERCLIS:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS:..... Corrective Action Report
SWF/LF:..... Solid Waste Facilities Database
AST:..... Aboveground Tanks
RAATS:..... RCRA Administrative Action Tracking System
HMIRS:..... Hazardous Materials Information Reporting System
PADS:..... PCB Activity Database System
ERNS:..... Emergency Response Notification System
NPL Lien:..... NPL Liens
TSCA:..... Toxic Substances Control Act
MLTS:..... Material Licensing Tracking System
ROD:..... ROD
CONSENT:..... Superfund (CERCLA) Consent Decrees

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

EXECUTIVE SUMMARY

Search Results:

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.

SHWS: The State Hazardous Waste Sites 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. The data come from the Department of Environmental Quality's' Contaminated Sites List on Diskette With Address.

A review of the SHWS list, as provided by EDR, has revealed that there are 3 SHWS sites within the searched area.

Site	Address	Map ID	Page
MOTOR WHEEL CORP	***717 NORRIS ST***	***1***	***2***
14 E MICHIGAN AVE (MIDTOWN AUT	14 E MICHIGAN AVE	16	18
FACTORY ST PUMP STA YPSILANTI	128 FACTORY ST	28	28

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 CERC-NFRAP list, as provided by EDR, and dated 11/10/1998 has revealed that there are 2 CERC-NFRAP sites within the searched area.

Site	Address	Map ID	Page
MOTOR WHEEL CORP	***717 NORRIS ST***	***1***	***2***
MARSH PLATING CORP	***103 N GROVE***	***5***	***4***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 11/01/1998 has revealed that there are 23 LUST sites within the searched area.

Site	Address	Map ID	Page
CORNER STORE	405 N PROSPECT RD	3	3
RAYMOND VIERS	***202 N WASHINGTON ST***	***4***	***3***
J.J. CAR WASH	***102 N HURON ST***	***6***	***6***
INDESCO MIDWEST, INC.	***10 EMERICK ST***	***10***	***8***
MINIT LUBE 1263	***602 E MICHIGAN AVE***	***11***	***9***

EXECUTIVE SUMMARY

Site	Address	Map ID	Page
YPSILANTI CO	*1 S PROSPECT ST*	*14*	*10*
CITGO STATION	*501 E MICHIGAN AVE*	*14*	*11*
FORMER RIVER FLAME RESTAURANT	301 E MICHIGAN AVE	15	14
RICHARD A. FISCHER JR.	*15 E MICHIGAN AVE*	*16*	*14*
SUBURBAN MOTORS (AKA JNJ CAR W	*6 E MICHIGAN AVE*	*16*	*16*
NR FOOD & GAS INC	173 E MICHIGAN AVE	17	18
VACANT BLDG CITY OF YPSILANTI	*216 E MICHIGAN AVE*	*17*	*18*
MR. TONY PAPPAS	*112 E MICHIGAN AVE*	*18*	*19*
BEYER HOSPITAL	*135 S PROSPECT ST*	*21*	*22*
CLARK STORE #482	215 ECORSE RD	22	23
UNITED UNIT # 6167	*204 ECORSE RD*	*22*	*23*
VARSITY LINEN SVC	*75 CATHERINE*	*23*	*25*
YCUA WATER PLANT & SHOP	*30 CATHERINE ST*	*25*	*26*
ALI FAWAS	445 S HURON ST	26	27
CLARK OIL CO	*413 S PROSPECT*	*27*	*27*
FACTORY STREET PUMP STATION	111 FACTORY ST	29	28
HURON SERVICE CENTER	*505 S HURON ST*	*31*	*29*
YPSILANTI COMMONS PARCEL	510 S HURON ST	32	30

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 Quality's Michigan UST database.

A review of the UST list, as provided by EDR, and dated 02/01/1998 has revealed that there are 25 UST sites within the searched area.

Site	Address	Map ID	Page
RAYMOND VIERS	*202 N WASHINGTON ST*	*4*	*3*
MARSH PLATING CORP	*103 N GROVE*	*5*	*4*
N & R VENTURES-PARTNERSHIP	102 N HURON ST	6	5
J.J. CAR WASH	*102 N HURON ST*	*6*	*6*
AATA TRANSIT SITE	220 PEARL ST	7	7
INDESCO MIDWEST, INC.	*10 EMERICK ST*	*10*	*8*
MINIT LUBE 1263	*602 E MICHIGAN AVE*	*11*	*9*
DOWTOWN MOBIL CAR WASH	300 W. MICHIGAN AVE AT	13	10
YPSILANTI CO	*1 S PROSPECT ST*	*14*	*10*
CITGO STATION	*501 E MICHIGAN AVE*	*14*	*11*
AL WALTERS HEATING & A/C, INC.	4 WATER ST	16	14
RICHARD A. FISCHER JR.	*15 E MICHIGAN AVE*	*16*	*14*
SUBURBAN MOTORS (AKA JNJ CAR W	*6 E MICHIGAN AVE*	*16*	*16*
VACANT BLDG CITY OF YPSILANTI	*216 E MICHIGAN AVE*	*17*	*18*
MR. TONY PAPPAS	*112 E MICHIGAN AVE*	*18*	*19*
RIDA TOTAL	173 E MICHIGAN AVE	18	20
SERBAY MOTOR SALES	34 E MICHIGAN AVE	19	21
BEYER HOSPITAL	*135 S PROSPECT ST*	*21*	*22*
UNITED UNIT # 6167	*204 ECORSE RD*	*22*	*23*
VARSITY LINEN SVC	*75 CATHERINE*	*23*	*25*
MALAN ENT	317 WASHINGTON	24	25
YCUA WATER PLANT & SHOP	*30 CATHERINE ST*	*25*	*26*
CLARK OIL CO	*413 S PROSPECT*	*27*	*27*
WASTEWATER PUMPING STATION	111 FACTORY ST	29	28
HURON SERVICE CENTER	*505 S HURON ST*	*31*	*29*

EXECUTIVE SUMMARY

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 10/01/1998 has revealed that there are 12 RCRIS-SQG sites within the searched area.

Site	Address	Map ID	Page
MOTOR WHEEL CORP	*717 NORRIS ST*	*1*	*2*
RECOVERY SPECIALIST INC	*201 N PARK*	*8*	*7*
JACKSON CLEANERS	*24 N HURON ST*	*9*	*8*
GESTETNER CORP	*52 N HURON ST*	*9*	*8*
MINIT LUBE 1263	*602 E MICHIGAN AVE*	*11*	*9*
PRINT & COPY	*13 N WASHINGTON*	*12*	*9*
STEWART DISTRIBUTORS INC	*10 E MICHIGAN AVE*	*16*	*15*
CHAPMAN MOTORS INC	*15 E MICHIGAN AVE*	*16*	*15*
BEYER MEMORIAL HOSPITAL	*135 S PROSPECT*	*21*	*22*
VARSITY LINEN SVC	*75 CATHERINE*	*23*	*25*
YPSI COMM UTIL AUTH WATER TREA	20 CATHERINE ST	25	27
YPSI COMM UTIL AUTH FACTORY ST	111 FACTORY ST	30	29

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 10/01/1998 has revealed that there are 2 RCRIS-LQG sites within the searched area.

Site	Address	Map ID	Page
MARSH PLATING CORP	*103 N GROVE*	*5*	*4*
MICH BELL TEL CO	*1 S PROSPECT ST*	*14*	*11*

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 09/30/1997 has revealed that there are 13 FINDS sites within the searched area.

Site	Address	Map ID	Page
MOTOR WHEEL CORP	*717 NORRIS ST*	*1*	*2*
MARSH PLATING CORP	*103 N GROVE*	*5*	*4*
RECOVERY SPECIALIST INC	*201 N PARK*	*8*	*7*
JACKSON CLEANERS	*24 N HURON ST*	*9*	*8*
GESTETNER CORP	*52 N HURON ST*	*9*	*8*
MINIT LUBE 1263	*602 E MICHIGAN AVE*	*11*	*9*

EXECUTIVE SUMMARY

Site	Address	Map ID	Page
PRINT & COPY	*13 N WASHINGTON*	*12*	*9*
MICH BELL TEL CO	*1 S PROSPECT ST*	*14*	*11*
STEWART DISTRIBUTORS INC	*10 E MICHIGAN AVE*	*16*	*15*
CHAPMAN MOTORS INC	*15 E MICHIGAN AVE*	*16*	*15*
THERMOFIL INC RIVER STREET PLT	103 S RIVER ST	20	22
BEYER MEMORIAL HOSPITAL	*135 S PROSPECT*	*21*	*22*
VARSITY LINEN SVC	*75 CATHERINE*	*23*	*25*

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/1995 has revealed that there are 2 TRIS sites within the searched area.

Site	Address	Map ID	Page
MOTOR WHEEL CORP	*717 NORRIS ST*	*1*	*2*
MARSH PLATING CORP	*103 N GROVE*	*5*	*4*

(Coal Gas) 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 is 1 Coal Gas site within the searched area.

Site	Address	Map ID	Page
YPSILANTI GAS CO.	606-626 N. HURON	2	2

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

Database	Total Plotted
NPL	0
Delisted NPL	0
RCRIS-TSD	0
State Haz. Waste	3
CERCLIS	0
CERC-NFRAP	2
CORRACTS	0
State Landfill	0
LUST	23
UST	25
AST	0
RAATS	0
RCRIS Sm. Quan. Gen.	12
RCRIS Lg. Quan. Gen.	2
HMIRS	0
PADS	0
ERNS	0
FINDS	13
TRIS	2
NPL Liens	0
TSCA	0
MLTS	0
ROD	0
CONSENT	0
Coal Gas	1

* Sites may be listed in more than one database

1 **MOTOR WHEEL CORP**
717 NORRIS ST
YPSILANTI, MI 48197

CERC-NFRAP 1000340721
RCRIS-SQG MID006536221
SHWS
FINDS
TRIS

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not reported
Ownership Status:	Other	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	19800801
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19830601
Assessment:	HRS PACKAGE	Completed:	19840801
Assessment:	SITE INSPECTION	Completed:	19840801
Assessment:	NPL RP SEARCH	Completed:	Not reported

RCRIS:

Owner: HAYES WHEEL INTERNATIONAL
(313) 942-8068

Contact: ELROY MC
(313) 483-7474

Record Date: 10/03/1996

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
- Facility has an active water discharge permit (under PCS)

SHWS:

Facility ID:	810028
Facility Status:	No Actions Taken
Source:	Forging stamping
Pollutant(s):	Heavy mfg
SAM Score:	24
SAM Score Date:	10/10/91
Township:	03S
Range:	07E
Section:	04
Quarter:	D
Quarter/Quarter:	B
Change:	Rescored from 07 to 24
Change Date:	10/10/91
County Code:	81

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2 **YPSILANTI GAS CO.**
606-626 N. HURON
YPSILANTI, MI 48197

Coal Gas G000001427
N/A

COAL GAS SITE DESCRIPTION:
1888, Site of Ypsilanti Gas Co. is on the east side of North Huron, north of W. Forrest Ave.
1927, site called City of Ypsilanti Gas Plant. 1951, Consol idated Gas Co. on site.

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Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
3	**CORNER STORE** **405 N PROSPECT RD** **YPSILANTI, MI**	LUST	S103382744 N/A

LUST:
Facility ID: 0-015728
Status: CLOSED

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
4	**RAYMOND VIERS** **202 N WASHINGTON ST** **YPSILANTI, MI 48197**	LUST UST	U002303281 N/A

LUST:
Facility ID: 0-011419
Status: CLOSED

UST:

Facility ID:	0-011419	Tank ID:	1
Owner:	RAYMOND VIERS 202 NORTH WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	4,000
Tank Age:	46	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Manual Gauging	Pipe Rel Detect:	Not reported
Contact:	RAYMOND VIERS	Contact Phone:	(313) 487-5420

Facility ID:	0-011419	Tank ID:	2
Owner:	RAYMOND VIERS 202 NORTH WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	6,000
Tank Age:	23	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	RAYMOND VIERS	Contact Phone:	(313) 487-5420

Facility ID:	0-011419	Tank ID:	3
Owner:	RAYMOND VIERS 202 NORTH WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	4,000
Tank Age:	46	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	RAYMOND VIERS	Contact Phone:	(313) 487-5420

Facility ID:	0-011419	Tank ID:	4
Owner:	RAYMOND VIERS 202 NORTH WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	6,000
Tank Age:	23	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	RAYMOND VIERS	Contact Phone:	(313) 487-5420

RAYMOND VIERS (Continued) — **U002303281**

Facility ID:	0-011419	Tank ID:	5
Owner:	RAYMOND VIERS 202 NORTH WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	4,000
Tank Age:	46	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	RAYMOND VIERS	Contact Phone:	(313) 487-5420

Facility ID:	0-011419	Tank ID:	6
Owner:	RAYMOND VIERS 202 NORTH WASHINGTON YPSILANTI, MI 48197		
Product:	Used Oil	Capacity:	550
Tank Age:	46	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	RAYMOND VIERS	Contact Phone:	(313) 487-5420

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5 **MARSH PLATING CORP**
103 N GROVE
YPSILANTI, MI 48197

CERC-NFRAP 1000381226
FINDS MID005371661
RCRIS-LQG
TRIS
UST

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not reported
Ownership Status:	Other	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	19850331
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19850724
Assessment:	SITE INSPECTION	Completed:	19860930

RCRIS:

Owner:	LAUNIUS TIMOTHY (313) 483-5767
Contact:	CHUCK BULLOCK (312) 555-1212
Record Date:	10/20/1997
Classification:	Large Quantity Generator

BIENNIAL REPORTS:
Last Biennial Reporting Year: 1995

Waste	Quantity (Lbs)
F006	640400.00

MARSH PLATING CORP (Continued) 1000381226

Used Oil Recyc: No

Violation Status: Violations exist

There are 2 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	07/10/1986

FINDS:

Other Pertinent Environmental Activity Identified at Site:

- Facility is monitored or permitted for air emissions under the Clean Air Act (under AFS/AIRS)

UST:

Facility ID:	0-005858	Tank ID:	1
Owner:	MARSH PLATING CORP 103 N GROVE STREET YPSILANTI, MI 48198		
Product:	Diesel	Capacity:	12,000
Tank Age:	14	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR DAN MAKI	Contact Phone:	(810) 483-5767

Facility ID:	0-005858	Tank ID:	2
Owner:	MARSH PLATING CORP 103 N GROVE STREET YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	2,000
Tank Age:	32	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR DAN MAKI	Contact Phone:	(810) 483-5767

Facility ID:	0-005858	Tank ID:	3
Owner:	MARSH PLATING CORP 103 N GROVE STREET YPSILANTI, MI 48198		
Product:	Used Oil	Capacity:	2,500
Tank Age:	19	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR DAN MAKI	Contact Phone:	(810) 483-5767

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6 **N & R VENTURES-PARTNERSHIP** UST U000266130
102 N HURON ST N/A
YPSILANTI, MI 48197

N & R VENTURES-PARTNERSHIP (Continued) **U000266130**

UST:

Facility ID:	0-018684	Tank ID:	1
Owner:	N & R VENTURES-PARTNERSHIP P.O. BOX 3783 ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	4,000
Tank Age:	33	Tank Material:	Unknown
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	JIMMY MASSEY	Contact Phone:	(313) 482-5455

Facility ID:	0-018684	Tank ID:	2
Owner:	N & R VENTURES-PARTNERSHIP P.O. BOX 3783 ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	4,000
Tank Age:	33	Tank Material:	Unknown
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	JIMMY MASSEY	Contact Phone:	(313) 482-5455

Facility ID:	0-018684	Tank ID:	3
Owner:	N & R VENTURES-PARTNERSHIP P.O. BOX 3783 ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	4,000
Tank Age:	33	Tank Material:	Unknown
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	JIMMY MASSEY	Contact Phone:	(313) 482-5455

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6 **J.J. CAR WASH** **LUST** **U000266129**
102 N HURON ST **UST** **N/A**
YPSILANTI, MI 48197

LUST:

Facility ID:	0-032839
Status:	CLOSED

UST:

Facility ID:	0-032839	Tank ID:	1
Owner:	N&F VENTURES 4202 SUNSET COURT ANN ARBOR, MI 48103		
Product:	Not reported	Capacity:	4,000
Tank Age:	28	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	N&F VENTURES	Contact Phone:	(313) 747-7301

J.J. CAR WASH (Continued) — **U000266129**

Facility ID:	0-032839	Tank ID:	2
Owner:	N&F VENTURES 4202 SUNSET COURT ANN ARBOR, MI 48103		
Product:	Not reported	Capacity:	4,000
Tank Age:	28	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	N&F VENTURES	Contact Phone:	(313) 747-7301

Facility ID:	0-032839	Tank ID:	3
Owner:	N&F VENTURES 4202 SUNSET COURT ANN ARBOR, MI 48103		
Product:	Not reported	Capacity:	4,000
Tank Age:	28	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	N&F VENTURES	Contact Phone:	(313) 747-7301

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7 **AATA TRANSIT SITE**
220 PEARL ST
YPSILANTI, MI 48197
UST — **U000715277** / **N/A**

UST:

Facility ID:	0-035634	Tank ID:	1
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNKNOWN	Capacity:	550
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MICHAEL AGER	Contact Phone:	(313) 483-9646

---

8 **RECOVERY SPECIALIST INC**
201 N PARK
YPSILANTI, MI 48198
RCRIS-SQG — **1000827769**
FINDS — **MID985627231**

RCRIS:

Owner:	SMALL QUANTITY SPECIALISTS INC (313) 483-9600
Contact:	LAWRENCE THOMPSON (313) 483-9600
Record Date:	09/14/1992
Classification:	Hazardous Waste Transporter

RECOVERY SPECIALIST INC (Continued) — **1000827769**

Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
- Facility is a PCB generator, storer, transporter or permitted disposer (under PADS)

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9 **JACKSON CLEANERS**
24 N HURON ST
YPSILANTI, MI 48197
RCRIS-SQG **1000272725**
FINDS **MID017461435**

RCRIS:
Owner: JACKSON CLEANERS
(312) 555-1212
Contact: OLIVIA DICKERMAN
(313) 482-0587
Record Date: 10/03/1986
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

---

9 **GESTETNER CORP**
52 N HURON ST
YPSILANTI, MI 48197
RCRIS-SQG **1000403891**
FINDS **MID981784317**

RCRIS:
Owner: DUPUIS LAWRENCE
(312) 555-1212
Contact: GLEN SILVENIS
(313) 481-1893
Record Date: 09/23/1986
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

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10 **INDESCO MIDWEST, INC.**
10 EMERICK ST
YPSILANTI, MI 48198
LUST **U000266113**
UST **N/A**

LUST:
Facility ID: 0-002571
Status: OPEN

INDESCO MIDWEST, INC. (Continued) — **U000266113**

UST:

Facility ID:	0-002571	Tank ID:	1
Owner:	ROBERT G MILLS 3124 MILLS CT ANN ARBOR, MI 48104		
Product:	Not reported	Capacity:	1,000
Tank Age:	26	Tank Material:	Unknown
Tank Status:	Temp	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	ROBERT MILLS	Contact Phone:	(313) 482-3814

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11 **MINIT LUBE 1263**
602 E MICHIGAN AVE
YPSILANTI, MI 48198

RCRIS-SQG **1000465173**
FINDS **MID985598028**
LUST
UST

RCRIS:

Owner:	QUAKER STATE MINIT LUBE INC
Contact:	JEFF PAYNE (313) 483-5685
Record Date:	10/18/1990
Classification:	Small Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

LUST:

Facility ID:	0-019962
Status:	CLOSED

UST:

Facility ID:	0-019962	Tank ID:	1
Owner:	QUAKER STATE MINIT LUBE INC 1385 WEST 2700 SOUTH SALT LAKE CITY, UT 84119		
Product:	Used Oil	Capacity:	1,000
Tank Age:	13	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EMILY ARENDS	Contact Phone:	(801) 975-4617

---

12 **PRINT & COPY**
13 N WASHINGTON
YPSILANTI, MI 48197

RCRIS-SQG **1000979949**
FINDS **MI0000996629**

PRINT & COPY (Continued) **1000979949**

RCRIS:
Owner: KEVIN PACKARD
(313) 483-2200
Contact: KEVIN PACKARD
(313) 483-2200
Record Date: 12/29/1994
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

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13 **DOWTOWN MOBIL CAR WASH** **UST** **U000266323**
300 W. MICHIGAN AVE AT ADAMS **N/A**
YPSILANTI, MI 48197

UST:

Facility ID:	0-018031	Tank ID:	1
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Gasoline	Capacity:	10,000
Tank Age:	14	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Fiberglass
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	WILLIAM E. TAYLOR III	Contact Phone:	(313) 482-532

Facility ID:	0-018031	Tank ID:	2
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Gasoline	Capacity:	10,000
Tank Age:	14	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Fiberglass
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	WILLIAM E. TAYLOR III	Contact Phone:	(313) 482-532

Facility ID:	0-018031	Tank ID:	3
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Gasoline	Capacity:	8,000
Tank Age:	16	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Fiberglass
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	WILLIAM E. TAYLOR III	Contact Phone:	(313) 482-532

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14 **YPSILANTI CO** **LUST** **U000266112**
1 S PROSPECT ST **UST** **N/A**
YPSILANTI, MI 48197

LUST:
Facility ID: 0-011797
Status: CLOSED

YPSILANTI CO (Continued) — **U000266112**

UST:

Facility ID:	0-011797	Tank ID:	1
Owner:	AMERITECH ENVIRONMENT HEALTH & SAFETY DETROIT, MI 48202		
Product:	Diesel	Capacity:	8,000
Tank Age:	29	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	BESS BLAKE	Contact Phone:	(313) 223-5627

Facility ID:	0-011797	Tank ID:	2
Owner:	AMERITECH ENVIRONMENT HEALTH & SAFETY DETROIT, MI 48202		
Product:	Kerosene	Capacity:	2,500
Tank Age:	3	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Fiberglass
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Auto. Gauging	Pipe Rel Detect:	Double Walled
Contact:	BESS BLAKE	Contact Phone:	(313) 223-5627

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14 **MICH BELL TEL CO** — **FINDS** **1000237596**
1 S PROSPECT ST — **RCRIS-LQG** **MID981957418**
YPSILANTI, MI 48197

RCRIS:

Owner:	AMERITECH CORP NOT GIVEN
Contact:	NANCY BERGWALL (313) 424-0232
Record Date:	05/12/1987
Classification:	Large Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

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14 **CITGO STATION** — **LUST** **U000266433**
501 E MICHIGAN AVE — **UST** **N/A**
YPSILANTI, MI 48198

LUST:

Facility ID:	0-009883
Status:	CLOSED

CITGO STATION (Continued) **U000266433**

UST:

Facility ID:	0-009883	Tank ID:	1
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	10,000
Tank Age:	32	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	10
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	20,000
Tank Age:	1	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Double Walled
Piping Type:	Pressure		
Tank Rel Detect:	Manual Gauging	Pipe Rel Detect:	Double Walled
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	11
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	12,000
Tank Age:	1	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Double Walled
Piping Type:	Pressure		
Tank Rel Detect:	Manual Gauging	Pipe Rel Detect:	Double Walled
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	2
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	10,000
Tank Age:	32	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	3
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	10,000
Tank Age:	32	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

CITGO STATION (Continued) **U000266433**

Facility ID:	0-009883	Tank ID:	4
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	10,000
Tank Age:	32	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	5
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	6,000
Tank Age:	11	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Fiberglass
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	6
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	10,000
Tank Age:	11	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Fiberglass
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	7
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	8,000
Tank Age:	11	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Fiberglass
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

Facility ID:	0-009883	Tank ID:	8
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	UNKOWN	Capacity:	500
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

CITGO STATION (Continued) — U000266433

Facility ID:	0-009883	Tank ID:	9
Owner:	GALLUP PROPERTIES L.L.P 2151 S STATE ST ANN ARBOR, MI 48106		
Product:	UNK	Capacity:	5,500
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES GALLUP	Contact Phone:	(313) 769-7160

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15 **FORMER RIVER FLAME RESTAURANT** — LUST — S102851963
301 E MICHIGAN AVE — N/A
YPSILANTI, MI

LUST:

Facility ID:	5-002126
Status:	OPEN

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16 **AL WALTERS HEATING & A/C, INC.** — UST — U000266390
4 WATER ST — N/A
YPSILANTI, MI 48198

UST:

Facility ID:	0-034523	Tank ID:	1
Owner:	MARJORIE WALTERS 5715 CARPENTER RD. YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	500
Tank Age:	37	Tank Material:	Bare Steel
Tank Status:	Temp	Piping Material:	Bare Steel
Piping Type:	Gravity Fed		
Tank Rel Detect:	Inventory Control	Pipe Rel Detect:	Not reported
Contact:	EDWARD R. WALTERS	Contact Phone:	(313) 482-8301

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16 **RICHARD A. FISCHER JR.** — LUST, UST — U000267158
15 E MICHIGAN AVE — N/A
YPSILANTI, MI 48197

LUST:

Facility ID:	0-001928
Status:	CLOSED

UST:

Facility ID:	0-001928	Tank ID:	1
Owner:	RICHARD A. FISCHER JR. 15 E. MICHIGAN YPSILANTI, MI		
Product:	Gasoline	Capacity:	1,000
Tank Age:	21	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(734) 483-0322

RICHARD A. FISCHER JR. (Continued) **U000267158**

Facility ID:	0-001928	Tank ID:	12
Owner:	RICHARD A. FISCHER JR. 15 E. MICHIGAN YPSILANTI, MI		
Product:	Used Oil	Capacity:	250
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Gravity Fed		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(734) 483-0322

Facility ID:	0-001928	Tank ID:	2
Owner:	RICHARD A. FISCHER JR. 15 E. MICHIGAN YPSILANTI, MI		
Product:	Used Oil	Capacity:	550
Tank Age:	23	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(734) 483-0322

Facility ID:	0-001928	Tank ID:	3
Owner:	RICHARD A. FISCHER JR. 15 E. MICHIGAN YPSILANTI, MI		
Product:	Used Oil	Capacity:	1,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(734) 483-0322

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16 **STEWART DISTRIBUTORS INC**
10 E MICHIGAN AVE
YPSILANTI, MI 48197

RCRIS-SQG 1000435261
FINDS MID017462920

RCRIS:

Owner:	KENYON GORDON (312) 555-1212
Contact:	GORDON KENYON (313) 482-4664
Record Date:	09/15/1989
Classification:	Small Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

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16 **CHAPMAN MOTORS INC**
15 E MICHIGAN AVE
YPSILANTI, MI 48197

RCRIS-SQG 1000348437
FINDS MID017460189

CHAPMAN MOTORS INC (Continued) **1000348437**

RCRIS:
Owner: MELTON GEORGE AND CHAPMAN RALPH P
(312) 555-1212
Contact: WILLIAM SPURR
(313) 483-0322
Record Date: 11/20/1986
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: Violations exist

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

Evaluation	Area of Violation	Date of Compliance
Other Evaluation	Generator-All Requirements	09/30/1993

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16 **SUBURBAN MOTORS (AKA JNJ CAR WAS** **LUST** **U001147603**
6 E MICHIGAN AVE **UST** **N/A**
YPSILANTI, MI 48197

LUST:
Facility ID: 0-036127
Status: OPEN

UST:
Facility ID: 0-036127 | Tank ID: 2
Owner: CHARLES A GALLUP
PO BOX 1325
ANN ARBOR, MI 48106
Product: Gasoline | Capacity: 6,000
Tank Age: Unk | Tank Material: Bare Steel
Tank Status: Remv | Piping Material: Bare Steel
Piping Type: Pressure
Tank Rel Detect: Not reported | Pipe Rel Detect: Not reported
Contact: LARRY HULL | Contact Phone: (313) 483-0322

Facility ID: 0-036127 | Tank ID: 3
Owner: CHARLES A GALLUP
PO BOX 1325
ANN ARBOR, MI 48106
Product: Gasoline | Capacity: 6,000
Tank Age: Unk | Tank Material: Bare Steel
Tank Status: Remv | Piping Material: Bare Steel
Piping Type: Pressure
Tank Rel Detect: Not reported | Pipe Rel Detect: Not reported
Contact: LARRY HULL | Contact Phone: (313) 483-0322

SUBURBAN MOTORS (AKA JNJ CAR WAS (Continued) **U001147603**

Facility ID:	0-036127	Tank ID:	4
Owner:	CHARLES A GALLUP PO BOX 1325 ANN ARBOR, MI 48106		
Product:	UNKNOWN	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(313) 483-0322

Facility ID:	0-036127	Tank ID:	5
Owner:	CHARLES A GALLUP PO BOX 1325 ANN ARBOR, MI 48106		
Product:	Kerosene	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(313) 483-0322

Facility ID:	0-036127	Tank ID:	6
Owner:	CHARLES A GALLUP PO BOX 1325 ANN ARBOR, MI 48106		
Product:	Diesel	Capacity:	1,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(313) 483-0322

Facility ID:	0-036127	Tank ID:	7
Owner:	CHARLES A GALLUP PO BOX 1325 ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(313) 483-0322

Facility ID:	0-036127	Tank ID:	8
Owner:	CHARLES A GALLUP PO BOX 1325 ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(313) 483-0322

SUBURBAN MOTORS (AKA JNJ CAR WAS (Continued) — **U001147603**

Facility ID:	0-036127	Tank ID:	9
Owner:	CHARLES A GALLUP PO BOX 1325 ANN ARBOR, MI 48106		
Product:	Gasoline	Capacity:	1,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Refnv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LARRY HULL	Contact Phone:	(313) 483-0322

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16 **14 E MICHIGAN AVE (MIDTOWN AUTO)** — **SHWS** — **S103086318**
14 E MICHIGAN AVE — **N/A**
YPSILANTI, MI 48198

SHWS:

Facility ID:	810162
Facility Status:	No Actions Taken
Source:	Auto Repair Services & Garage
Pollutant(s):	Paint Waste, Oil, Solvents
SAM Score:	20
SAM Score Date:	9/3/90 0
Township:	03S
Range:	07E
Section:	09
Quarter:	A
Quarter/Quarter:	C
Change:	New Addition to List
Change Date:	09/14/90
County Code:	81

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17 **NR FOOD & GAS INC** — **LUST** — **S102852067**
173 E MICHIGAN AVE — **N/A**
YPSILANTI, MI

LUST:

Facility ID:	0-017158
Status:	CLOSED

---

17 **VACANT BLDG CITY OF YPSILANTI** — **LUST** — **U000714984**
216 E MICHIGAN AVE — **UST** — **N/A**
YPSILANTI, MI 48198

LUST:

Facility ID:	0-035285
Status:	CLOSED

VACANT BLDG CITY OF YPSILANTI (Continued) **U000714984**

UST:

Facility ID:	0-035285	Tank ID:	1
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	8,000
Tank Age:	27	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	CHARLES WHITE JR	Contact Phone:	(313) 483-1421

---

18 **MR. TONY PAPPAS** **LUST** **U000266152**
112 E MICHIGAN AVE **UST** **N/A**
YPSILANTI, MI 48197

LUST:

Facility ID:	0-033633
Status:	CLOSED

UST:

Facility ID:	0-033633	Tank ID:	1
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Gasoline	Capacity:	2,000
Tank Age:	28	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR. TONY PAPPAS	Contact Phone:	(800) 877-6888

Facility ID:	0-033633	Tank ID:	2
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Gasoline	Capacity:	2,000
Tank Age:	28	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR. TONY PAPPAS	Contact Phone:	(800) 877-6888

Facility ID:	0-033633	Tank ID:	3
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Used Oil	Capacity:	550
Tank Age:	27	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR. TONY PAPPAS	Contact Phone:	(800) 877-6888

MR. TONY PAPPAS (Continued) — **U000266152**

Facility ID:	0-033633	Tank ID:	4
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Used Oil	Capacity:	550
Tank Age:	27	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR. TONY PAPPAS	Contact Phone:	(800) 877-6888

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18 RIDA TOTAL — **UST** — **U003330654**
173 E MICHIGAN AVE — **N/A**
YPSILANTI, MI 48198

UST:

Facility ID:	0-017158	Tank ID:	1
Owner:	RIDA TOTAL 173 E MICHIGAN YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	6,000
Tank Age:	36	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MALIK REDA	Contact Phone:	(313) 581-6870

Facility ID:	0-017158	Tank ID:	2
Owner:	RIDA TOTAL 173 E MICHIGAN YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	6,000
Tank Age:	36	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MALIK REDA	Contact Phone:	(313) 581-6870

Facility ID:	0-017158	Tank ID:	3
Owner:	RIDA TOTAL 173 E MICHIGAN YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	8,000
Tank Age:	36	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MALIK REDA	Contact Phone:	(313) 581-6870

RIDA TOTAL (Continued) — **U003330654**

Facility ID:	0-017158	Tank ID:	4
Owner:	RIDA TOTAL 173 E MICHIGAN YPSILANTI, MI 48198		
Product:	Used Oil	Capacity:	500
Tank Age:	36	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Gravity Fed		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MALIK REDA	Contact Phone:	(313) 581-6870

Facility ID:	0-017158	Tank ID:	5
Owner:	RIDA TOTAL 173 E MICHIGAN YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	12,000
Tank Age:	0	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Double Walled
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Manual Gauging	Pipe Rel Detect:	Double Walled
Contact:	MALIK REDA	Contact Phone:	(313) 581-6870

Facility ID:	0-017158	Tank ID:	6
Owner:	RIDA TOTAL 173 E MICHIGAN YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	10,000
Tank Age:	0	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Double Walled
Piping Type:	Pressure		
Tank Rel Detect:	Manual Gauging	Pipe Rel Detect:	Double Walled
Contact:	MALIK REDA	Contact Phone:	(313) 581-6870

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19 SERBAY MOTOR SALES — **UST** — **U000266354**
34 E MICHIGAN AVE — **N/A**
YPSILANTI, MI 48198

UST:

Facility ID:	0-008063	Tank ID:	1
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Gasoline	Capacity:	1,000
Tank Age:	21	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MICHAEL SERBAY	Contact Phone:	(313) 482-8850

SERBAY MOTOR SALES (Continued) — **U000266354**

Facility ID:	0-008063	Tank ID:	2
Owner:	OWNER ADDRESS UNKNOWN NEW ADDRESS Not reported		
Product:	Used Oil	Capacity:	1,000
Tank Age:	31	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MICHAEL SERBAY	Contact Phone:	(313) 482-8850

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20 THERMOFIL INC RIVER STREET PLT — FINDS — 1000527614
103 S RIVER ST — MID981001605
YPSILANTI, MI 48197

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21 BEYER MEMORIAL HOSPITAL — RCRIS-SQG, FINDS — 1000210859
135 S PROSPECT — MID038776746
YPSILANTI, MI 48198

RCRIS:
Owner: UNITED CARE
(312) 555-1212

Contact: GERALD TILSON
(313) 484-2378

Record Date: 01/19/1989

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
- Facility is monitored or permitted for air emissions under the Clean Air Act (under AFS/AIRS)

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21 BEYER HOSPITAL — LUST, UST — U002303265, N/A
135 S PROSPECT ST
YPSILANTI, MI 48198

LUST:
Facility ID: 0-015582
Status: OPEN

UST:

Facility ID:	0-015582	Tank ID:	1
Owner:	OAKWOOD HEALTHCARE SYSTEM 18101 OAKWOOD BLVD DEARBORN, MI 48123		
Product:	Diesel	Capacity:	15,000
Tank Age:	29	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	Double Walled
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	GERALD R TILSON	Contact Phone:	(313) 484-2200

BEYER HOSPITAL (Continued) — **U002303265**

Facility ID:	0-015582	Tank ID:	2
Owner:	OAKWOOD HEALTHCARE SYSTEM 18101 OAKWOOD BLVD DEARBORN, MI 48123		
Product:	Diesel	Capacity:	2,500
Tank Age:	29	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	GERALD R TILSON	Contact Phone:	(313) 484-2200

Facility ID:	0-015582	Tank ID:	3
Owner:	OAKWOOD HEALTHCARE SYSTEM 18101 OAKWOOD BLVD DEARBORN, MI 48123		
Product:	Diesel	Capacity:	2,500
Tank Age:	Unk	Tank Material:	Fiberglass
Tank Status:	Curr	Piping Material:	Double Walled
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Inventory Control	Pipe Rel Detect:	Double Walled
Contact:	GERALD R TILSON	Contact Phone:	(313) 484-2200

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22 CLARK STORE #482 — LUST — S103382643
215 ECORSE RD — N/A
YPSILANTI, MI

LUST:

Facility ID:	0-002651
Status:	OPEN

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22 UNITED UNIT #6167 — LUST, UST — U003082187
204 ECORSE RD — N/A
YPSILANTI, MI 48197

LUST:

Facility ID:	0-011843
Status:	CLOSED

UST:

Facility ID:	0-011843	Tank ID:	1
Owner:	EMRO MARKETING CO PO BOX 1500 SPRINGFIELD, OH 45501		
Product:	Gasoline	Capacity:	6,000
Tank Age:	35	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	D.L. WRIGHT	Contact Phone:	(317) 243-7500

UNITED UNIT # 6167 (Continued) — **U003082187**

Facility ID:	0-011843	Tank ID:	2
Owner:	EMRO MARKETING CO PO BOX 1500 SPRINGFIELD, OH 45501		
Product:	Gasoline	Capacity:	8,000
Tank Age:	15	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	D.L. WRIGHT	Contact Phone:	(317) 243-7500

Facility ID:	0-011843	Tank ID:	3
Owner:	EMRO MARKETING CO PO BOX 1500 SPRINGFIELD, OH 45501		
Product:	Gasoline	Capacity:	8,000
Tank Age:	15	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	D.L. WRIGHT	Contact Phone:	(317) 243-7500

Facility ID:	0-011843	Tank ID:	4
Owner:	EMRO MARKETING CO PO BOX 1500 SPRINGFIELD, OH 45501		
Product:	Gasoline	Capacity:	6,000
Tank Age:	35	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	D.L. WRIGHT	Contact Phone:	(317) 243-7500

Facility ID:	0-011843	Tank ID:	5
Owner:	EMRO MARKETING CO PO BOX 1500 SPRINGFIELD, OH 45501		
Product:	Diesel	Capacity:	6,000
Tank Age:	35	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	D.L. WRIGHT	Contact Phone:	(317) 243-7500

Facility ID:	0-011843	Tank ID:	6
Owner:	EMRO MARKETING CO PO BOX 1500 SPRINGFIELD, OH 45501		
Product:	Kerosene	Capacity:	1,000
Tank Age:	22	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Pressure		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	D.L. WRIGHT	Contact Phone:	(317) 243-7500

23 **VARSITY LINEN SVC**
75 CATHERINE
YPSILANTI, MI 48197

RCRIS-SQG **1000691441**
FINDS **MID985642099**
LUST
UST

RCRIS:
Owner: GENERAL LINEN SUPPLY
(313) 483-6200

Contact: LANCE WILLIAMS
(313) 483-6200

Record Date: 05/08/1992

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

LUST:
Facility ID: 0-034824
Status: OPEN

UST:

Facility ID:	0-034824	Tank ID:	1
Owner:	GENERAL LINEN SUPPLY CO 1016 E PALMER DETROIT, MI 48211		
Product:	Gasoline	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LANCE WILLIAMS	Contact Phone:	(313) 483-6200

Facility ID:	0-034824	Tank ID:	2
Owner:	GENERAL LINEN SUPPLY CO 1016 E PALMER DETROIT, MI 48211		
Product:	Heating Oil	Capacity:	15,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LANCE WILLIAMS	Contact Phone:	(313) 483-6200

Facility ID:	0-034824	Tank ID:	3
Owner:	GENERAL LINEN SUPPLY CO 1016 E PALMER DETROIT, MI 48211		
Product:	Used Oil	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LANCE WILLIAMS	Contact Phone:	(313) 483-6200

24 **MALAN ENT**
317 WASHINGTON
YPSILANTI, MI 48197

UST **U000266337**
N/A

MALAN ENT (Continued) **U000266337**

UST:

Facility ID:	0-018503	Tank ID:	1
Owner:	MALAN ENT 317 N WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	6,000
Tank Age:	26	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	Fiberglass
Piping Type:	Pressure		
Tank Rel Detect:	Inventory Control	Pipe Rel Detect:	Leak Detector
Contact:	STEVE MALAN	Contact Phone:	(313) 480-9117

Facility ID:	0-018503	Tank ID:	2
Owner:	MALAN ENT 317 N WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	6,000
Tank Age:	26	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	Fiberglass
Piping Type:	Pressure		
Tank Rel Detect:	Inventory Control	Pipe Rel Detect:	Leak Detector
Contact:	STEVE MALAN	Contact Phone:	(313) 480-9117

Facility ID:	0-018503	Tank ID:	3
Owner:	MALAN ENT 317 N WASHINGTON YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	10,000
Tank Age:	26	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	Galvanized Steel
Piping Type:	Pressure		
Tank Rel Detect:	Inventory Control	Pipe Rel Detect:	Leak Detector
Contact:	STEVE MALAN	Contact Phone:	(313) 480-9117

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25 YCUA WATER PLANT & SHOP **LUST U002303302**
30 CATHERINE ST **UST N/A**
YPSILANTI, MI 48197

LUST:

Facility ID:	0-010200
Status:	CLOSED

UST:

Facility ID:	0-010200	Tank ID:	1
Owner:	YPSILANTI COMM UTILITIES AUTH 2777 STATE ST YPSILANTI, MI 48198		
Product:	Diesel	Capacity:	500
Tank Age:	40	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR LARRY R THOMAS	Contact Phone:	(313) 484-4600

YCUA WATER PLANT & SHOP (Continued) — U002303302

Facility ID:	0-010200	Tank ID:	2
Owner:	YPSILANTI COMM UTILITIES AUTH 2777 STATE ST YPSILANTI, MI 48198		
Product:	Diesel	Capacity:	250
Tank Age:	41	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR LARRY R THOMAS	Contact Phone:	(313) 484-4600

Facility ID:	0-010200	Tank ID:	3
Owner:	YPSILANTI COMM UTILITIES AUTH 2777 STATE ST YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	250
Tank Age:	51	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	MR LARRY R THOMAS	Contact Phone:	(313) 484-4600

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25 YPSI COMM UTIL AUTH WATER TREATMNT PLANT — RCRIS-SQG — 1001196711 / MIR000023853
20 CATHERINE ST
YPSILANTI, MI 48197

RCRIS:
Owner: YPSI COMM UTIL AUTH/CITY OF YPSILANTI
(313) 484-4600

Contact: ROLLAND SIZEMORE
(313) 484-4600

Record Date: 05/13/1997

Classification: Not reported

Used Oil Recyc: No

Violation Status: No violations found

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26 ALI FAWAS — LUST — S103382646 / N/A
445 S HURON ST
YPSILANTI, MI

LUST:
Facility ID: 0-016419
Status: OPEN

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27 CLARK OIL CO — LUST, UST — U000715082 / N/A
413 S PROSPECT
YPSILANTI, MI 48198

LUST:
Facility ID: 0-035392
Status: CLOSED

CLARK OIL CO (Continued) — **U000715082**

UST:

Facility ID:	0-035392	Tank ID:	1
Owner:	OSCAR HAAB 2200 GLENCOE HILLS DR ANN ARBOR, MI 48108		
Product:	Gasoline	Capacity:	10,000
Tank Age:	Unk	Tank Material:	Unknown
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	DOUG TAYLOR	Contact Phone:	(616) 275-7317

Facility ID:	0-035392	Tank ID:	2
Owner:	OSCAR HAAB 2200 GLENCOE HILLS DR ANN ARBOR, MI 48108		
Product:	Gasoline	Capacity:	10,000
Tank Age:	Unk	Tank Material:	Unknown
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	DOUG TAYLOR	Contact Phone:	(616) 275-7317

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28 **FACTORY ST PUMP STA YPSILANTI** — **SHWS** — **S103095422**
128 FACTORY ST — **N/A**
YPSILANTI, MI 48197

SHWS:

Facility ID:	810013
Facility Status:	Eval/Interim Resp-PRP/Oth
Source:	Unknown
Pollutant(s):	Chromium
SAM Score:	38
SAM Score Date:	5/29/91
Township:	03S
Range:	07E
Section:	09
Quarter:	D
Quarter/Quarter:	D
Change:	Rescored from 07 to 38
Change Date:	05/29/91
County Code:	81

---

29 **FACTORY STREET PUMP STATION** — **LUST** — **S103028850**
111 FACTORY ST — **N/A**
YPSILANTI, MI

LUST:

Facility ID:	0-002302
Status:	CLOSED

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29 **WASTEWATER PUMPING STATION** — **UST** — **U003330476**
111 FACTORY ST — **N/A**
YPSILANTI, MI 48198

WASTEWATER PUMPING STATION (Continued) — **U003330476**

UST:

Facility ID:	0-002302	Tank ID:	1
Owner:	YPSILANTI COMM UTILITIES AUTH 2777 STATE ST YPSILANTI, MI 48198		
Product:	Diesel	Capacity:	8,000
Tank Age:	16	Tank Material:	Bare Steel
Tank Status:	Curr	Piping Material:	BLACK IRON
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	VAN FADELY	Contact Phone:	(313) 484-4600

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30 **YPSI COMM UTIL AUTH FACTORY ST PUMP STA** — **RCRIS-SQG** — **1001214542**, **MIR000028480**
111 FACTORY ST
YPSILANTI, MI 48198

RCRIS:

Owner:	YPSI COMMUNITY UTILITIES AUTHORITY (313) 484-4600
Contact:	ROLLAND SIZEMORE (313) 484-4600
Record Date:	11/12/1997
Classification:	Conditionally Exempt Small Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

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31 **HURON SERVICE CENTER** — **LUST** — **U000266437**
505 S HURON ST — **UST** — **N/A**
YPSILANTI, MI 48197

LUST:

Facility ID:	0-012860
Status:	CLOSED

UST:

Facility ID:	0-012860	Tank ID:	1
Owner:	ROSEMARIE A. KAAS 505 SO. HURON ST. YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	8,000
Tank Age:	25	Tank Material:	Fiberglass
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	ROSEMARIE A. KAAS	Contact Phone:	(313) 484-0605

HURON SERVICE CENTER (Continued) — **U000266437**

Facility ID:	0-012860	Tank ID:	2
Owner:	ROSEMARIE A. KAAS 505 SO. HURON ST. YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	8,000
Tank Age:	25	Tank Material:	Fiberglass
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	ROSEMARIE A. KAAS	Contact Phone:	(313) 484-0605

Facility ID:	0-012860	Tank ID:	3
Owner:	ROSEMARIE A. KAAS 505 SO. HURON ST. YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	8,000
Tank Age:	25	Tank Material:	Fiberglass
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	ROSEMARIE A. KAAS	Contact Phone:	(313) 484-0605

Facility ID:	0-012860	Tank ID:	4
Owner:	ROSEMARIE A. KAAS 505 SO. HURON ST. YPSILANTI, MI 48197		
Product:	Used Oil	Capacity:	1,000
Tank Age:	25	Tank Material:	Unknown
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	ROSEMARIE A. KAAS	Contact Phone:	(313) 484-0605

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32 **YPSILANTI COMMONS PARCEL** — **LUST** — **S102725661**
510 S HURON ST — **N/A**
YPSILANTI, MI

LUST:

Facility ID:	0-035225
Status:	OPEN

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
PITTSFIELD	U003211624	HAMMOUND GAS	5507 W MICHIGAN AVE 5511 W MICHIG	48197	UST	0-019686
YPSILANTI	U003211842	CLOSED GASOLINE STATION	AIRPORT DR/SOUTH OF HANGER #1	48198	LUST, UST	0-039115
YPSILANTI	S103086302	I-94 AND HURON STREET DUMP	1-94 AND WHITAKER STREET EXIT	48197	SHWS	810050
YPSILANTI	1001228840	MIDOT BRIDGE US-12 BUS RTE OVER CONTRAIL	US-12 BUS RTE OVER CONRAIL	48197	RCRIS-LQG	
YPSILANTI	S103086292	SILVERTONE PLATING COMPANY	7 EMERICK ST	48198	SHWS	810034
YPSILANTI	U003211724	YPSILANTI COMMONS PARCEL	510 S HURON HARRIETT & HAMILTON (	48197	UST	0-035225
YPSILANTI	1001220095	KALITTA MOTORSPORTS	2757 N I-94 SERVICE DR	48198	RCRIS-SQG	
YPSILANTI	S103086295	THOMAS SOLVENTS RAWSONVILLE	MCKEAN RD	48197	SHWS	810040
YPSILANTI	S103382647	EASTERN MICHIGAN UNIVERSITY	300 W. MICHIGAN AVE AT ADAMS		LUST	0-018031
YPSILANTI	S103086294	TEXTILE RD DUMPSITE	TEXTILE RD	48197	SHWS	810038
YPSILANTI	S103086300	WILLOW RUN CREEK AREA	TYLER RD / I-96 AREA	48197	SHWS	810048
YPSILANTI	U000266580	NORTHEND HANGER	TYLER RD	48198	UST	0-015187
YPSILANTI	S103086310	WILLOW RUN SLUDGE LAGOON	TYLER RD / I 96 AREA	48197	SHWS	810073
YPSILANTI	1000118369	GMC HYDRA-MATIC DIV YPSILANTI	WILLOW RUN	48197	CORRACTS, CERC-NFRAP, PADS, FINDS, RCRIS-LQG, TRIS, RCRIS-TSD	
YPSILANTI TWP	1001202428	MIDOT BRIDGE US-12 UNDER FORD RD	US-12 UNDER FORD RD	48197	RCRIS-LQG	

Site	Database(s)	EDR ID Number EPA ID Number
HAMMOUND GAS **5507 W MICHIGAN AVE 5511 W MICHIG** **PITTSFIELD, MI 48197**	**UST**	**U003211624** **N/A**

UST:

Facility ID:	0-019686	Tank ID:	1
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	6,000
Tank Age:	39	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Facility ID:	0-019686	Tank ID:	2
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	4,000
Tank Age:	39	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Facility ID:	0-019686	Tank ID:	3
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	4,000
Tank Age:	31	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Facility ID:	0-019686	Tank ID:	4
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Diesel	Capacity:	6,000
Tank Age:	39	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Site	Database(s)	EDR ID Number / EPA ID Number

HAMMOUND GAS (Continued) — U003211624

Facility ID:	0-019686	Tank ID:	5
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Diesel	Capacity:	6,000
Tank Age:	39	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Facility ID:	0-019686	Tank ID:	6
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Diesel	Capacity:	10,000
Tank Age:	31	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Facility ID:	0-019686	Tank ID:	7
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	Kerosene	Capacity:	500
Tank Age:	39	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

Facility ID:	0-019686	Tank ID:	94-1
Owner:	LLOYD COCHRAN 5507 W MICHIGAN AVE YPSILANTI, MI 48197		
Product:	UNK	Capacity:	Unknown
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	LLOYD COCHRAN	Contact Phone:	(313) 434-0684

CLOSED GASOLINE STATION — LUST U003211842
AIRPORT DR/SOUTH OF HANGER #1 — UST N/A
YPSILANTI, MI 48198

LUST:

Facility ID:	0-039115
Status:	CLOSED

Site	Database(s)	EDR ID Number EPA ID Number

CLOSED GASOLINE STATION (Continued) U003211842

UST:

Facility ID:	0-039115	Tank ID:	1
Owner:	WAYNE COUNTY DEPT/PUBLIC SERVICE 801 WILLOW RUN AIRPORT YPSILANTI, MI 48198		
Product:	Gasoline	Capacity:	2,600
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Bare Steel
Piping Type:	Suction -- Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	ATHERINE MORSE (	Contact Phone:	313) 942-3796

I-94 AND HURON STREET DUMP SHWS S103086302
1-94 AND WHITAKER STREET EXIT N/A
YPSILANTI, MI 48197

SHWS:

Facility ID:	810050
Facility Status:	No Actions Taken
Source:	Landfill
Pollutant(s):	Domestic Comm, Heavy mfg
SAM Score:	33
SAM Score Date:	8/23/94
Township:	03S
Range:	07E
Section:	16
Quarter:	B
Quarter/Quarter:	A
Change:	Change Name
Change Date:	09/15/97
County Code:	81

MIDOT BRIDGE US-12 BUS RTE OVER CONTRAIL RCRIS-LQG 1001228840
US-12 BUS RTE OVER CONRAIL MIR000035287
YPSILANTI, MI 48197

RCRIS:

Owner:	MIDOT (517) 241-0085
Contact:	GARY BEASLEY (517) 241-0085
Record Date:	09/22/1998
Classification:	Large Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

Site	Database(s)	EDR ID Number EPA ID Number
SILVERTONE PLATING COMPANY **7 EMERICK ST** **YPSILANTI, MI 48198**	**SHWS**	**S103086292** **N/A**

SHWS:

Facility ID:	810034
Facility Status:	Eval/Interim Resp-PRP/Oth
Source:	Plating & Polishing
Pollutant(s):	Cadmium Chromium, Lead Nickel Copper, Zinc Cyanide
SAM Score:	31
SAM Score Date:	9/17/90
Township:	03S
Range:	07E
Section:	10
Quarter:	C
Quarter/Quarter:	B
Change:	Rescored from 0637 to 31
Change Date:	10/05/90
County Code:	81

YPSILANTI COMMONS PARCEL **510 S HURON HARRIETT & HAMILTON (** **YPSILANTI, MI 48197**	**UST**	**U003211724** **N/A**

UST:

Facility ID:	0-035225	Tank ID:	1
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	1,800
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	10
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNK	Capacity:	2,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Temp	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	2
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	1,800
Tank Age:	39	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Site	Database(s)	EDR ID Number / EPA ID Number
YPSILANTI COMMONS PARCEL (Continued)		U003211724

Facility ID:	0-035225	Tank ID:	3
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	Diesel	Capacity:	500
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	4
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNK	Capacity:	Unknown
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	5
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNK	Capacity:	Unknown
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	6
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	Gasoline	Capacity:	Unknown
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Remv	Piping Material:	Galvanized Steel
Piping Type:	Suction -- No Valve		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	7
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNK	Capacity:	1,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Temp	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Site	Database(s)	EDR ID Number EPA ID Number

YPSILANTI COMMONS PARCEL (Continued) — U003211724

Facility ID:	0-035225	Tank ID:	8
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNK	Capacity:	1,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Temp	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

Facility ID:	0-035225	Tank ID:	9
Owner:	CITY OF YPSILANTI ONE S HURON ST YPSILANTI, MI 48197		
Product:	UNK	Capacity:	1,000
Tank Age:	Unk	Tank Material:	Bare Steel
Tank Status:	Temp	Piping Material:	Unknown
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	EDWARD B KORYZNO JR	Contact Phone:	(313) 483-1810

KALITTA MOTORSPORTS
2757 N I-94 SERVICE DR
YPSILANTI, MI 48198

RCRIS-SQG — **1001220095**, **MIR000030593**

RCRIS:

Owner:	CONRAD KALITTA (734) 879-2021
Contact:	CHRISTY FERGERSON (734) 487-5280
Record Date:	02/18/1998
Classification:	Small Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

THOMAS SOLVENTS RAWSONVILLE
MCKEAN RD
YPSILANTI, MI 48197

SHWS — **S103086295**, **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
THOMAS SOLVENTS RAWSONVILLE (Continued)		S103086295

SHWS:

Facility ID:	810040
Facility Status:	Eval/Interim Resp - Funds
Source:	Industrial Organic Chemicals
Pollutant(s):	BTEX TCE PCE, 1,1,1 TCA
SAM Score:	40
SAM Score Date:	8/13/90
Township:	03S
Range:	07E
Section:	25
Quarter:	D
Quarter/Quarter:	B
Change:	Rescored from 0837 to 40
Change Date:	08/21/90
County Code:	81

EASTERN MICHIGAN UNIVERSITY **300 W. MICHIGAN AVE AT ADAMS** **YPSILANTI, MI**	**LUST**	**S103382647** **N/A**

LUST:

Facility ID:	0-018031
Status:	OPEN

TEXTILE RD DUMPSITE **TEXTILE RD** **YPSILANTI, MI 48197**	**SHWS**	**S103086294** **N/A**

SHWS:

Facility ID:	810038
Facility Status:	Eval/Interim Resp-PRP/Oth
Source:	Refuse Systems
Pollutant(s):	PCBs
SAM Score:	36
SAM Score Date:	9/18/90
Township:	03S
Range:	07E
Section:	25
Quarter:	B
Quarter/Quarter:	B
Change:	Rescored from 0645 to 36
Change Date:	09/19/90
County Code:	81

WILLOW RUN CREEK AREA **TYLER RD / I-96 AREA** **YPSILANTI, MI 48197**	**SHWS**	**S103086300** **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
WILLOW RUN CREEK AREA (Continued)		S103086300

SHWS:

Facility ID:	810048
Facility Status:	Final Cleanup - PRP/Other
Source:	Nonclassifiable Establishments
Pollutant(s):	Chromium Cadmium, Lead PCBs Mercury, Copper
SAM Score:	39
SAM Score Date:	9/10/90
Township:	03S
Range:	07E
Section:	12
Quarter:	Not reported
Quarter/Quarter:	Not reported
Change:	Rescored from 0731 to 39
Change Date:	09/13/90
County Code:	81

NORTHEND HANGER — UST — U000266580
TYLER RD — N/A
YPSILANTI, MI 48198

UST:

Facility ID:	0-015187	Tank ID:	1
Owner:	WAYNE COUNTY 29900 GODDARD RD DETROIT, MI 48242		
Product:	Gasoline	Capacity:	2,000
Tank Age:	31	Tank Material:	Bare Steel
Tank Status:	Temp	Piping Material:	Galvanized Steel
Piping Type:	Not reported		
Tank Rel Detect:	Not reported	Pipe Rel Detect:	Not reported
Contact:	R.W. GILGEN	Contact Phone:	(313) 942-6511

WILLOW RUN SLUDGE LAGOON — SHWS — S103086310
TYLER RD / I-96 AREA — N/A
YPSILANTI, MI 48197

SHWS:

Facility ID:	810073
Facility Status:	Final Cleanup - PRP/Other
Source:	Aircraft
Pollutant(s):	Chromium Cadmium, Nickel Lead PCBs
SAM Score:	30
SAM Score Date:	9/20/90
Township:	03S
Range:	07E
Section:	13
Quarter:	A
Quarter/Quarter:	C
Change:	Rescored from 0610 to 30
Change Date:	09/22/90
County Code:	81

Site	Database(s)	EDR ID Number / EPA ID Number
GMC HYDRA-MATIC DIV YPSILANTI **WILLOW RUN** **YPSILANTI, MI 48197**	**CORRACTS** **CERC-NFRAP** **PADS** **FINDS** **RCRIS-LQG** **TRIS** **RCRIS-TSD**	**1000118369** **MID980587893**

RCRIS:

Owner: GMC HYDRA-MATIC DIV YPSILANTI
(313) 481-5350

Contact: HARRY HOPKINSON
(313) 485-5676

Record Date: 07/31/1995

Classification: Large Quantity Generator, TSDF

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1995

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	3559.42	F001	458.72
F002	440.01	F003	10736.37
F005	10736.37		

Used Oil Recyc: No

TSDF Activities: Not reported

Violation Status: Violations exist

There are 7 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
A Significant Non-Complier (SNC)	Generator-All Requirements	
	Generator-All Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
	Generator-All Requirements	
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	05/05/1989
	Generator-Land Ban Requirements	05/05/1989
	TSD-Land Ban Requirements	05/05/1989
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	05/10/1989
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	05/10/1989

NY MANIFEST

Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

CORRACTS Data:

Prioritization: Low

Status: RCRA Facility Assessment Completed

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported

Ownership Status: Unknown

Federal Facility: Not reported

NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	Completed:
DISCOVERY	19920129
PRELIMINARY ASSESSMENT	19921019

Site	Database(s)	EDR ID Number EPA ID Number
GMC HYDRA-MATIC DIV YPSILANTI (Continued)		1000118369

FINDS:
Other Pertinent Environmental Activity Identified at Site:
- Facility has an active water discharge permit (under PCS)
- Facility is monitored or permitted for air emissions under the Clean Air Act (under AFS/AIRS)
- Facility is a PCB generator, storer, transporter or permitted disposer (under PADS)

MIDOT BRIDGE US-12 UNDER FORD RD **US-12 UNDER FORD RD** **YPSILANTI TWP, MI 48197**	**RCRIS-LQG**	**1001202428** **MIR000026625**

RCRIS:

Owner: MICH DEPT OF TRANSPORTATION
(517) 241-0085

Contact: GARY BEASLEY
(517) 241-0085

Record Date: 08/11/1997

Classification: Large Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

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 PENSKY-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.
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.

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 RECORDS:

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: 11/10/98
Date Made Active at EDR: 01/29/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/29/98
Elapsed ASTM days: 31
Date of Last EDR Contact: 12/02/98

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: 12/31/98
Date Made Active at EDR: 01/18/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 01/13/99
Elapsed ASTM days: 5
Date of Last EDR Contact: 01/04/99

NPL: National Priority List
Source: EPA
Telephone: 703-603-8852
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: 10/08/98
Date Made Active at EDR: 01/08/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/29/98
Elapsed ASTM days: 10
Date of Last EDR Contact: 02/08/99

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: 10/01/98
Date Made Active at EDR: 01/29/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/28/98
Elapsed ASTM days: 32
Date of Last EDR Contact: 01/25/99

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/01/98
Date Made Active at EDR: 01/29/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/28/98
Elapsed ASTM days: 32
Date of Last EDR Contact: 12/22/98

FEDERAL NON-ASTM 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: 12/31/95
Database Release Frequency: Biennially
Date of Last EDR Contact: 12/21/98
Date of Next Scheduled EDR Contact: 03/22/99

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: Varies
Database Release Frequency: Varies
Date of Last EDR Contact: Varies
Date of Next Scheduled EDR Contact: N/A

FINDS: Facility Index System
Source: EPA/NTIS
Telephone: 703-908-2493
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: 09/30/97
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/23/98
Date of Next Scheduled EDR Contact: 03/29/99

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: 12/31/97
Database Release Frequency: Annually
Date of Last EDR Contact: 01/25/99
Date of Next Scheduled EDR Contact: 04/26/99

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: 12/08/98
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/98
Date of Next Scheduled EDR Contact: 03/01/99

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: 11/23/98
Date of Next Scheduled EDR Contact: 02/22/99

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: 09/22/97
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/03/98
Date of Next Scheduled EDR Contact: 02/15/99

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.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 12/15/98
Date of Next Scheduled EDR Contact: 03/15/99

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: 03/31/95
Database Release Frequency: Annually
Date of Last EDR Contact: 02/16/99
Date of Next Scheduled EDR Contact: 04/19/99

TRIS: Toxic Chemical Release Inventory System
Source: EPA/NTIS
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: 12/31/95
Database Release Frequency: Annually
Date of Last EDR Contact: 12/28/98
Date of Next Scheduled EDR Contact: 03/29/99

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: 12/31/94
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 01/25/99
Date of Next Scheduled EDR Contact: 04/26/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF MICHIGAN ASTM RECORDS:

LUST: Leaking Underground Storage Tank Sites
Source: Department of Environmental Quality
Telephone: 517-335-3075
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: 11/01/98
Date Made Active at EDR: 01/15/99
Database Release Frequency: Annually
Date of Data Arrival at EDR: 12/14/98
Elapsed ASTM days: 32
Date of Last EDR Contact: 11/09/98

SHWS: Contaminated Sites
Source: Department of Environmental Quality
Telephone: 517-373-9540
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: 04/22/98
Date Made Active at EDR: 09/01/98
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/03/98
Elapsed ASTM days: 29
Date of Last EDR Contact: 12/02/98

LF: Solid Waste Facilities Database
Source: Department of Environmental Quality
Telephone: 517-335-4035
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: 02/01/98
Date Made Active at EDR: 06/10/98
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 05/07/98
Elapsed ASTM days: 34
Date of Last EDR Contact: 12/18/98

UST: Underground Storage Tank Facility List
Source: Department of Environmental Quality
Telephone: 517-373-8168
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: 02/01/98
Date Made Active at EDR: 10/08/98
Database Release Frequency: Annually
Date of Data Arrival at EDR: 10/02/98
Elapsed ASTM days: 6
Date of Last EDR Contact: 12/08/98

STATE OF MICHIGAN NON-ASTM RECORDS:

AST: Aboveground Tanks
Source: Department of Environmental Quality
Telephone: 517-373-8168
Registered Aboveground Storage Tanks.

Date of Government Version: 02/01/98
Database Release Frequency: Annually
Date of Last EDR Contact: 01/07/99
Date of Next Scheduled EDR Contact: 04/26/99

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.

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.

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DELISTED NPL: NPL Deletions
Source: EPA
Telephone: 703-603-8769
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: 10/08/98
Date Made Active at EDR: 01/08/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/29/98
Elapsed ASTM days: 10
Date of Last EDR Contact: 02/08/99

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: 11/10/98
Date Made Active at EDR: 01/29/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/29/98
Elapsed ASTM days: 31
Date of Last EDR Contact: 12/02/98

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 (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

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.

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.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1996 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 March 1997 from the U.S. Fish and Wildlife Service.

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

Michigan Public and Private Water Wells
Source: Michigan Department of Natural Resources
Locations of verified municipal and private water well sites compiled from Michigan Department of Public Health, Water Well and Pump Records. Available in the following MI counties: Calhoun, Eaton, Genesee, Ingham, Jackson, Kalamazoo, Kent, Midland, Muskegon, Oakland, Ottawaw, Saginaw, St. Clair, Washtenaw.

Michigan Oil and Gas Wells
Source: Michigan Department of Natural Resources
Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

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

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Parcel #1

ENVIRONMENTAL SITE ASSESSMENT
WALTERS PROPERTY
Parcel #1
2 & 4 WATER STREET
YPSILANTI, MICHIGAN

PREPARED BY:

ECT

Environmental Consulting & Technology, Inc.

1249 WASHINGTON BLVD.
SUITE 3500
DETROIT, MICHIGAN 48226

JULY 2000
PROJECT NO: 99-0051

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1.0 EXECUTIVE SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the facility and property located at 2 and 4 Water Street in the City of Ypsilanti, Washtenaw County, Michigan. The property is located on the southwest corner of Water Street and E. Michigan Avenue and consists of one irregular shaped parcel of land, approximately .23 acres in size. The property is occupied by a single story concrete block building.

The subject property was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination, which may have been present. No unusual odors or stressed vegetation were observed during the site reconnaissance. No stained soils or other evidence of spills or chemical mishandling was observed.

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. Two ASTs and one UST were found to be present on the property. The visual inspection of this property indicated the presence of hydraulic lifts inside of the building. Because the liquid in these lifts has not been tested, it is assumed that the liquid may contain some PCB's. No evidence was discovered during the assessment of the site that would indicate that any imported materials or land filling had occurred on the site. Suspect transite-like asbestos containing shingles were observed on the rear of the building.

A review of the regulatory history of the site and area and other historical records was conducted in order to assure that no potentially environmentally impairing activities or conditions had occurred in the past or might be currently occurring with regard to the site. The records review did not reveal the presence of recognized environmental conditions in the area of the subject property or on the adjoining properties that could potentially impair the environmental condition of the subject property. Federal, State, and local environmental records were reviewed and a commercial database search was commissioned. These

included the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Resource Conservation and Recovery Information System (RCRIS), Emergency Response Notification System (ERNS), Hazardous Materials Incident Report System (HMIRS), Toxic Release Inventory System (TRIS), and Toxic Substances Control Act (TSCA) databases. They also included the State Hazardous Waste Sites (SHWS), registered underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, and landfill sites. The result of this review has indicated the presence of CERCLIS-NFRAP, SHWS, RCRIS, UST, LUST, and TRIS sites located within the one-mile radius of the subject property. However, a review of the available information for the sites has indicated that it is unlikely that releases from any of these sites have impacted the Subject Property.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice. Because the prior use of the Subject Property include auto repair services and a machine shop, it is possible that releases of used oils and/or chemicals and other automotive fluids may have been released onto the Subject Property. Therefore, a sub-surface investigation was conducted on the Subject Property to determine if the Subject Property has been impacted by its former uses.

The subsurface investigation included four Geoprobe borings with soil sampling and laboratory analysis. The results reveal the presence of several trace metals at concentrations exceeding State of Michigan residential cleanup criteria. It is possible that these trace metals levels are representative of local or regional background concentrations. In any case, because of the slightly alkaline pH of the soils, the potential for migration of these metals is reduced. A further assessment of the trace metals concentrations at this property is warranted, with the objectives of a broader evaluation of the local background levels and the potential for leaching of the metals from the soil.

2.0 PURPOSE AND SCOPE

Environmental Consulting & Technology, Inc. (ECT) was retained by the Community and Economic Development Department of the City of Ypsilanti under the Brownfield Redevelopment Pilot Project to conduct a Phase I Environmental Site Assessment of the facility and property, commonly known as the Walters property, located at 2 and 4 Water Street in the City of Ypsilanti, Michigan. The objective of this assessment was to evaluate the present environmental condition of the property for potential environmental impairment or contamination that, if present, may result in unacceptable financial and ownership risks and liability. Mr. Dirk Mammen, ECT Senior Scientist, conducted the site reconnaissance in May 2000. This assessment was conducted from March 1999 through June 2000 and was based upon information collected through the following activities:

- Visual assessment of the property and structures.
- Evaluation of potential environmental impacts from proximate properties.
- Evaluation of past usage through the review of historical maps/photographs, government regulatory agency data, historical records, and discussions with persons familiar with the site and local area.
- Review of available environmental incident reports contained in records and databases from the appropriate regulatory agencies.
- Review of known sites of contamination from the state and federal agency sources, including the CERCLIS, NPL, Landfill lists, LUST sites, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, and other available sources.
- A review of registered USTs and Aboveground Storage Tanks (ASTs) in the proximate area.

- A visual survey of construction materials to determine whether suspect asbestos containing materials (ACMs) are present.

- A survey of the electrical equipment which may have PCB containing oils.

- A preliminary subsurface investigation consisting of Geoprobe borings and soil sampling and analysis.

3.0 PHYSICAL SITE ASSESSMENT

3.1 SITE LOCATION

The subject property, commonly known as the Walters property, is located at 2 and 4 Water Street in the City of Ypsilanti, Washtenaw County, Michigan (Figure 1). The subject property, as indicated on the Ypsilanti East Quadrangle U.S.G.S. 7.5 minute topographic map, is located in Section 9, Township 3 South, Range 7 East, City of Ypsilanti, County of Washtenaw, State of Michigan. The property is located in Ypsilanti's Water Street Redevelopment Area, shown in Figure 2.

3.2 GENERAL SITE DESCRIPTION

The property consists of one rectangular shaped parcel of approximately .23 acres. A single story concrete block building, approximately 4,000 square feet with a tar papered pitched roof is located on the property. The property is occupied by a heating and cooling business. Two aboveground storage tanks are located outside of the building and one underground storage tank has reportedly been removed from the eastern side of the property.

Geologic information was obtained from available U.S. Geological Survey reports, U.S.G.S. topographic maps, and other available local geological informational papers. The elevation of the Waters Street area ranges from approximately 700-750 feet above mean sea level (ft-msl) as indicated on the U.S.G.S. Ypsilanti East Quadrangle topographic map. The property has a slight westerly topographic dip, although it is generally flat lying.

3.3 SOLID AND HAZARDOUS WASTES

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. Items that typically represent the potential for environmental contamination include chemical spills and leaks, ground discoloration and disturbances, unusual odors, and the improper storage of solid, liquid, or gaseous products and wastes. No unusual odors or stressed vegetation were observed during the site reconnaissance. No visual indication of historical hazardous

material storage or disposal resulting in possible adverse site impairment was discovered during the site reconnaissance on the subject property or adjacent properties. Minor staining was observed in the area surrounding the two aboveground tanks. No evidence was encountered that hazardous material dumping had occurred.

3.4 STORAGE TANKS

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. No evidence of the presence or former presence of USTs located on the subject property or on adjacent properties was observed. Two AST's are located outside of the building and are utilized for storing heating oil. Minor staining was observed on the ground in the area surrounding the tanks. A 500-gallon gasoline UST was located on the eastern side of the property. This tank has reportedly been removed and given closure. A review of historical UST locations in the area is included in Section 5.0.

3.5 POLYCHLORINATED BIPHENYLS

PCBs have been used in some electrical equipment, transformers, capacitors, fluorescent light ballasts, and hydraulic systems. The visual inspection of this property indicates the presence of several hydraulic lifts with suspect PCB containing liquids. It is recommended that if the lifts be removed from the ground and the liquid be tested in order to determine if the fluid contains PCB's.

3.6 ASBESTOS CONTAINING MATERIALS (ACMs)

A visual survey of building materials was conducted to determine whether suspect ACMs were present on the subject site. Asbestos was used primarily in the 1950s through 1970s in a wide variety of construction and insulative materials. Asbestos can become an environmental or health risk when the asbestos fiber is released and inhaled or ingested. Suspect ACM was observed on the rear of the building in the form of hard transite-like shingles. Until these shingles are tested and found to be not ACM, they should not be cut, sawed, sanded or abraded in any manner so as not to make them friable.

3.7 FILL MATERIALS

No evidence was discovered to indicate that any imported materials or land filling has occurred on the site.

4.0 CURRENT LAND USE

The subject property is currently occupied by a heating and cooling business. The subject property consists of single story concrete block building of approximately 4,000 square feet.

The surrounding properties along Water Street and East Michigan Avenue are principally involved with various retail, packaging/distribution, commercial or office operations. No heavy manufacturing or large quantity chemical use operations were observed within the area or on the subject property.

5.0 SITE HISTORY AND RECORDS REVIEW

A site history was compiled by researching the records maintained at applicable federal, state, county and local regulatory agencies, including a commission of an environmental database. The database searched was based on a radius search of the site and area. The regulatory file review was performed in order to confirm that information which was presented on the database and to search for any sites that may have been missed by the data search. In addition, those sites that were in close enough proximity to the site or which were of concern were investigated in greater detail. These included the United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, landfill databases, UST and LUST information, and state and local Fire Marshal records.

5.1 AERIAL PHOTOGRAPHY

Available aerial photography of the site and surrounding area was reviewed. Aerial photographs were reviewed for the years 1940, 1963, 1969 and 1978. Unidentified structures are visible on all of the aerial photographs. Copies of the aerial photographs are included in Appendix B.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps are historical map records primarily used by insurance companies to assess fire risks for a particular property and can offer valuable information regarding the presence of USTs, ASTs, and types of businesses and operations that have occupied a particular property. A search for available Sanborn Fire Insurance maps was performed for the years 1899, 1909, 1916, 1927, 1950, and 1964. The 1899 and 1909 Sanborn indicates that the subject property was utilized as a Flour Mill with several buildings located on the property. The 1916 Sanborn shows the property as vacant land. A brick shed occupied the property in 1927 and a LumberYard occupied the property on the 1950 and 1964 maps. The Sanborns indicated minimal historic environmental concern for the subject property. Copies of the Sanborn maps are included in Appendix C.

5.3 STREET INDEX DIRECTORIES

Polk Street Index Directories were reviewed at the Ann Arbor Public Library in Ann Arbor, Michigan. These directories are used to provide historical information pertaining to the name addressed to a particular property. Polk Street Index Directories were available for the area back into the 1920's. The directories indicated that the subject property was utilized as an auto sales and repair facility from 1926 to 1935. Two warehouses occupied the property from 1940 to 1945. The Huron Crankshaft Grinding Company occupied the property in 1951 and the Black and White Cab Company utilized the property from 1955 to 1960. From 1970 to 1980, Walters Heating and Cooling and Ypsilanti Automatic Transmission service occupied the property. In 1980, Walters Heating and Cooling acquired all of the property and is currently utilizing the property.

5.4 REGULATORY FILE REVIEW

The purpose of the regulatory file review is to obtain and review records that will help identify potential environmental concerns in connection with the property or adjoining properties. The primary source of this information is the EDR report (see Appendix D) which presents the findings of a computerized environmental records search for the subject property, adjoining properties, and nearby properties (Inquiry Number 341436 - February 25, 1999). The information contained within the EDR report was obtained from the following environmental databases: United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, SHWS, landfill databases, UST and LUST information, and state and local Fire Marshal records.

The CERCLIS and NPL databases are prepared under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) by the USEPA. The NPL sites are those sites most in need of remediation and clean up as promulgated by the EPA. CERCLIS sites are those sites under investigation for possible placement on the NPL list. Of the sites listed for the State of Michigan, and those specifically indicated within the

area, no NPL or CERCLIS sites were found to be located within a one mile radius of the subject property.

CERCLIS – NFRAP sites are those CERCLIS sites that have been granted a "No Further Remedial Action Plan" status and do not require any additional investigation. Two CERCLIS-NFRAP sites have been identified within the search radius of the Subject Property. Because these sites are not located on the Subject Property or the adjoining properties and because they do not require any further remedial action, they are not deemed to be a significant environmental risk to the Subject Property.

As indicated in the EDR report, three State Hazardous Waste Sites have been identified within a one mile radius of the subject property. None of these sites are located on the subject property or adjacent properties and there is no evidence to suggest that the subject property has been adversely environmentally impacted from these sites. There are no Landfill sites identified within a one-mile radius of the Subject Property.

The State of Michigan UST and LUST databases were reviewed. The review indicated that approximately 50 registered UST and LUST sites exist within a one-mile radius from the Subject Property. None of the adjoining properties are identified as UST or LUST sites; however, the Subject Property is identified as a registered UST site with a 500 gallon steel gasoline UST. Although the tank was in the ground at the time of the site visit, ECT has been informed that the tank was removed and has reportedly been given closure status.

A search of the ERNS and HMIRS records was conducted. The subject property was not found on any of these databases. Two sites were identified on the TRIS database; however, these sites are not located on the Subject Property or any of the adjoining properties. Therefore, these two TRIS sites are not deemed to be a significant environmental risk to the Subject Property.

The HWDMS/RCRIS, and TSCA databases were reviewed. This information indicates the names and addresses of those facilities that generate, store, or dispose of hazardous materials and wastes. This information also indicates the facilities that release reportable quantities of toxic chemicals into the air, water, or land. These facilities are regulated and reviewed by the appropriate federal agencies and must conform with the regulatory acceptable limits and guidelines. Based on the nature of the surrounding area, fourteen RCRIS generators were identified within the search distance; however, none of the sites are located on the Subject or adjoining properties. There is no indication that the Subject Property has been impacted by releases from these sites.

5.5 OTHER HISTORICAL INFORMATION

A site title history and search was not completed for the Subject Property.

6.0 PHASE II SITE INVESTIGATION

6.1 SCOPE OF INVESTIGATION

The investigation at 2 and 4 Water Street consisted of advancing four GeoProbe borings, to a depth of 10, 12, 14, and 16 feet below surface grade (bsg). Two soil samples were collected from each boring, one from the surface 0-1 ft, designated sample 'A', the second, designated 'B', from the capillary fringe or other feature, as discussed below. Due to an error in sample handling, samples from borings 1-2 and 1-4 were analyzed for trace metals only.

6.2 INVESTIGATION METHODS

All investigation activities are described in the Quality Assurance Project Plan, the Work Plan/Sampling and Analysis Plan, and the associated Standard Operating Procedures. The following sections will provide a brief overview of the methods employed in the investigation.

All soil and groundwater samples collected for laboratory analysis will be placed into the appropriate containers in the order of the selected analysis, as follows:

1. Volatile Organic Compounds
2. Semi-Volatile Organic Compounds
3. Polychlorinated Biphenyls & Pesticides
4. Cyanide
5. Metals

All soil samples were collected in the appropriate precleaned (to EPA specifications) containers and stored following United States Environmental Protection Agency (USEPA) Publication SW-846 Method 5035/ASTM D4547-91, final version of March 26, 1998, *Testing Methods for Evaluating Solid Waste*. All soil sample containers were labeled in accordance with the QAPP.

Temporary Monitoring Well Installation

No temporary monitoring wells were installed on this parcel.

Soil Sampling

Soil samples were collected for laboratory analysis based on one or more of the following criteria:

1. Known and/or suspected depth of release (e.g. surface stain, deep machine pit, etc.)
2. Visual identification of soil staining
3. Concentrated petroleum based odors
4. Highest PID level reading
5. Sand to clay interface

Soil samples collected for parameters other than VOCs were homogenized in a stainless-steel bowl with a stainless-steel spoon prior to placement in appropriate sample containers. Following use of the stainless-steel bowl and spoon, this equipment will be decontaminated in accordance with ECT SOP-4.

When sampling with a Geoprobe®, the drilling contractor will follow the American Society for Testing and Materials publication ASTM D-4700. Using hydraulic drive core/direct-push (Geoprobe®) sampling techniques, continuous soil samples were collected from the soil borings at four-foot and/or two-foot intervals, according to ASTM. A clean, plastic sampling sleeve was used for each sample interval. The stainless steel coring sleeve was decontaminated between each boring.

Upon completion of boring, the borehole was backfilled with any remaining cuttings. At a minimum, the upper two feet of the borehole was backfilled with bentonite pellets. Surface material, such as pavement, asphalt, soil, etc., were utilized to restore the site to its original condition.

Soil samples collected for volatile organic compound (VOCs) analysis were containerized following guidelines established by the USEPA in "*Soil Sample Collection and Methanol Preservation for Volatile Analysis*" and adopted by the Michigan Department of Environmental Quality, Environmental Response Division (MDEQ, ERD) in "*Procedure: Methanol Preservation of Soil VOC Samples, Environmental Response Division,*" Draft, June 3, 1999.

All weight measurements in this procedure were recorded in an ECT field log book or field form during sample collection. The field sampler will also document the use of the MDEQ guidance in their field logbook and/or on the appropriate field forms whenever collecting samples with methanol preservation on this project.

If no other unpreserved soil samples from the same sample location are being sent to the selected laboratory for analysis (i.e., BNAs, PCBs, Metals, etc.), then approximately 50 grams of soil will also be placed in a clean glass jar without preservative, properly labeled and sent along with the corresponding methanol preserved sample for analysis of percent solids. The properly labeled sample jars will be placed in a bubble wrap bag and secured in an ice-cooled container for shipment to the laboratory for analyses.

Groundwater Sampling

No groundwater samples were collected from this parcel.

Investigation Results

The boring locations are shown on Figure 3 and the logs of the borings are included in Appendix E.

Soils encountered in the borings were typically a mixture of sands with traces of clay and gravel. Apparent fill material was observed in boring 1-1 (5-10 ft), 1-3 (9 ft), and 1-4 (0-1 ft). The material consisted of crushed brick and rock, with a trace of shell-like material. A

possible petroleum-like odor was detected in boring 1-3 (13 ft). Saturated soils indicative of groundwater were not observed in any of the borings.

The laboratory analytical results for the ten soil samples are summarized in Table 1. For volatile organic compounds (page 1 of 4), elevated analytical detection limits reduce the utility of the data.

Several semivolatile organic compounds (page 2 of 4), namely polynuclear aromatic hydrocarbons (PAHs), were detected in trace concentrations in samples 1-1A, 1-3A, and 1-3B. PAH concentrations were in each case well below the State of Michigan residential cleanup criteria. However, due to laboratory conditions, reflected by the flags in the data tables, some of the concentrations are reported as estimates.

No pesticides or PCBs (page 3 of 4) were detected in any of the samples.

The analytical results for trace metals and cyanide (page 4 of 4) reveal that several elements (arsenic, barium, cadmium, cobalt, copper, lead, manganese, mercury, nickel, selenium, and zinc) exceed the State of Michigan default background levels. In the case of cobalt, mercury, and selenium, the concentrations exceed the criteria for protection of the groundwater-surface water interface (GSI). Soil samples 1-3A, 1-3A, and 1-4A contained arsenic at concentrations above the Residential Direct Contact criterion.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I/PhaseII Environmental Site Assessment of the property, commonly known as the Walters Property, located at 2 and 4 Waters Street in the City of Ypsilanti, Washtenaw County, Michigan.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice. Evidence has come to light that would indicate that potential recognized environmental conditions exist with regard to the subject property. Although no evidence was discovered indicating the current existence of subsurface impairment and no current operations are deemed to pose any significant risk to the Subject Property, historical records indicate that the property was utilized as an auto repair facility and a machine shop.

Based on the long history of commercial use of the subject property and of the nearby properties, ECT performed a subsurface investigation in order to determine if the Subject Property has been impacted from releases from these former uses. The subsurface investigation included four Geoprobe borings with soil sampling and laboratory analysis. The results reveal the presence of several trace metals at concentrations exceeding State of Michigan residential cleanup criteria. It is possible that these trace metals levels are representative of local or regional background concentrations. In any case, because of the slightly alkaline pH of the soils, the potential for migration of these metals is reduced. A further assessment of the trace metals concentrations at this property is warranted, with the objectives of a broader evaluation of the local background levels and the potential for leaching of the metals from the soil.

8.0 QUALIFICATIONS

This assessment was performed by ECT with standard professional practice using the degree of skill and care exercised for similar projects. The conclusions given by ECT are based on an audit effort to obtain and review reasonably available information on the site and adjacent sites. We have relied upon information provided to us by others and on the accuracy and completeness of the available information. No warranty or conclusions other than those expressly contained within this report are implied or intended. ECT can offer no assurances and assumes no responsibility for the site conditions or activities which were outside the scope of work requested.

Table 1. Analytical Summary Table

Parcel #1

Page 1 of 4: Volatile Organic Compounds

Sample Number :	EDEX1		EDEX2		EDEW6	
Sampling Location :	1-1A		1-1B		1-3B	
Matrix :	Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	12:45		13:00		12:15	
%Moisture :	6		18		8	
pH :	8.6		8.6		8.4	
Dilution Factor :	10		1.0		10	
	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	21000	UJ	25000	UJ	34000	U
Chloromethane	21000	UJ	25000	UJ	34000	U
Vinyl Chloride	21000	UJ	25000	UJ	34000	U
Bromomethane	21000	UJ	25000	UJ	34000	U
Chloroethane	21000	UJ	25000	UJ	34000	U
Trichlorofluoromethane	21000	UJ	25000	UJ	34000	U
1,1-Dichloroethene	21000	UJ	25000	UJ	34000	U
1,1,2-Trichloro-1,2,2-trifluoroethane	21000	UJ	25000	UJ	34000	U
Acetone	300000	J	340000	J	360000	J
Carbon Disulfide	21000	UJ	25000	UJ	34000	U
Methyl Acetate	21000	UJ	25000	UJ	34000	U
Methylene Chloride	11000	J	12000	J	42000	
trans-1,2-Dichloroethene	21000	UJ	25000	UJ	34000	U
tert-Butyl Methyl Ether	21000	UJ	25000	UJ	34000	U
1,1-Dichloroethane	21000	UJ	25000	UJ	34000	U
cis-1,2-Dichloroethene	21000	UJ	25000	UJ	34000	U
2-Butanone	21000	UJ	25000	UJ	34000	U
Chloroform	21000	UJ	25000	UJ	34000	U
1,1,1-Trichloroethane	21000	UJ	25000	UJ	34000	U
Cyclohexane	21000	UJ	25000	UJ	34000	U
Carbon Tetrachloride	21000	UJ	25000	UJ	34000	U
Benzene	21000	UJ	25000	UJ	34000	U
1,2-Dichloroethane	21000	UJ	25000	UJ	34000	U
Trichloroethene	21000	UJ	25000	UJ	34000	U
Methylcyclohexane	21000	UJ	25000	UJ	34000	U
1,2-Dichloropropane	21000	UJ	25000	UJ	34000	U
Bromodichloromethane	21000	UJ	25000	UJ	34000	U
cis-1,3-Dichloropropene	21000	UJ	25000	UJ	34000	U
4-Methyl-2-pentanone	21000	UJ	25000	UJ	34000	UJ
Toluene	21000	UJ	25000	UJ	34000	U
trans-1,3-Dichloropropene	21000	UJ	25000	UJ	34000	U
1,1,2-Trichloroethane	21000	UJ	25000	UJ	34000	U
Tetrachloroethene	21000	UJ	25000	UJ	34000	U
2-Hexanone	21000	UJ	25000	UJ	34000	UJ
Dibromochloromethane	21000	UJ	25000	UJ	34000	U
1,2-Dibromoethane	21000	UJ	25000	UJ	34000	U
Chlorobenzene	21000	UJ	25000	UJ	34000	U
Ethylbenzene	48000	J	55000	J	63000	
Xylenes (total)	150000	J	160000	J	190000	
Styrene	21000	UJ	25000	UJ	34000	U
Bromoform	21000	UJ	25000	UJ	34000	U
Isopropylbenzene	21000	UJ	25000	UJ	34000	U
1,1,2,2-Tetrachloroethane	21000	UJ	25000	UJ	34000	U
1,3-Dichlorobenzene	21000	UJ	25000	UJ	34000	U
1,4-Dichlorobenzene	21000	UJ	25000	UJ	34000	U
1,2-Dichlorobenzene	21000	UJ	25000	UJ	34000	U
1,2-Dibromo-3-chloropropane	21000	UJ	25000	UJ	34000	UJ
1,2,4-Trichlorobenzene	21000	UJ	25000	UJ	34000	UJ

Table 1. Analytical Summary Table

Parcel #1

Page 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDEX1		EDEX2		EDEX0		EDEW6	
Sampling Location :	1-1A		1-1B		1-3A		1-3B	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	12:45		13:00		11:40		12:15	
%Moisture :	6		18		8		8	
pH :	8.6		8.6		8.6		8.4	
Dilution Factor :	10		1.0		10		10	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	310	UJ	390	UJ	320	UJ	320	UJ
Phenol	310	U	390	U	320	U	320	U
bis-(2-Chloroethyl) ether	310	U	390	U	320	U	320	U
2-Chlorophenol	310	U	390	U	320	U	320	U
2-Methylphenol	310	U	390	U	320	U	320	U
2,2'-oxybis(1-Chloropropane)	310	U	390	U	320	U	320	U
Acetophenone	310	U	390	U	320	U	320	U
4-Methylphenol	310	U	390	U	320	U	320	U
N-Nitroso-di-n-propylamine	310	U	390	U	320	U	320	U
Hexachloroethane	310	U	390	U	320	U	320	U
Nitrobenzene	310	U	390	U	320	U	320	U
Isophorone	310	U	390	U	320	U	320	U
2-Nitrophenol	310	U	390	U	320	U	320	U
2,4-Dimethylphenol	310	U	390	U	320	U	320	U
bis-(2-Chloroethoxy) methane	310	U	390	U	320	U	320	U
2,4-Dichlorophenol	310	U	390	U	320	U	320	U
Naphthalene	310	U	390	U	30	J	21	J
4-Chloroaniline	310	U	390	U	320	U	320	U
Hexachlorobutadiene	310	U	390	U	320	U	320	U
Caprolactam	310	R	390	R	320	R	320	R
4-Chloro-3-methylphenol	310	U	390	U	320	U	320	U
2-Methylnaphthalene	310	U	390	U	36	J	20	J
Hexachlorocyclopentadiene	310	U	390	U	320	U	320	U
2,4,6-Trichlorophenol	310	U	390	U	320	U	320	U
2,4,5-Trichlorophenol	790	U	970	U	800	U	790	U
1-1'-Biphenyl	310	U	390	U	320	U	320	U
2-Chloronaphthalene	310	U	390	U	320	U	320	U
2-Nitroaniline	790	U	970	U	800	U	790	U
Dimethylphthalene	310	U	390	U	320	U	320	U
2,6-Dinitrotoluene	310	U	390	U	320	U	320	U
Acenaphthylene	120	J	390	U	21	J	80	J
3-Nitroaniline	790	U	970	U	800	U	790	U
Acenaphthene	23	J	390	U	320	U	320	U
2-4-Dinitrophenol	790	UJ	970	UJ	800	UJ	790	U
4-Nitrophenol	790	U	970	U	800	U	790	U
Dibenzofuran	310	U	390	U	320	U	320	U
2,4-Dinitrotoluene	310	U	390	U	320	U	320	U
Diethylphthalate	310	U	390	U	320	U	320	U
Fluorene	25	J	390	U	320	U	27	J
4-Chlorophenyl-phenyl ether	310	U	390	U	320	U	320	U
4-Nitroaniline	790	U	970	U	800	U	790	U
4,6-Dinitro-2-methylphenol	790	U	970	U	800	U	790	U
N-Nitrosodiphenylamine	310	U	390	U	320	U	320	U
4-Bromophenyl-phenylether	310	U	390	U	320	U	320	U
Hexachlorobenzene	310	U	390	U	320	U	320	U
Atrazine	310	U	390	U	320	U	320	U
Pentachlorophenol	790	U	970	U	800	U	790	U
Phenanthrene	530		390	U	200	J	160	J
Anthracene	190	J	390	U	38	J	63	J
Carbazole	35	J	390	U	20	J	320	U
Di-n-butylphthalate	21	J	390	U	16	J	19	J
Fluoranthene	1200		390	U	420		220	J
Pyrene	1400		390	U	500		240	J
Butylbenzylphthlate	310	U	390	U	320	U	320	U
3,3'-Dichorobenzidine	310	U	390	UJ	320	U	320	U
Benzo(a)anthracene	650		390	U	220	J	110	J
Chrysene	640		390	U	260	J	110	J
bis(2-Ethylhexyl)phthalate	1200	J	390	U	320	U	320	U
Di-n-octylphthalate	310	U	390	U	320	U	320	U
Benzo(b)fluoranthene	540		390	U	220	J	120	J
Benzo(k)fluoranthene	630		390	U	230	J	65	J
Benzo(a)pyrene	580		390	U	230	J	96	J
Indeno(1,2,3-cd)pyrene	460		390	U	170	J	77	J
Dibenzo(a,h)anthracene	210	J	390	U	62	J	37	J
Benzo(g,h,i)perylene	530		390	U	190	J	110	J

Table 1. Analytical Summary Table

Parcel #1

Page 3 of 4: Pesticides and PCBs

Sample Number :	EDEX1		EDEX2		EDEX0		EDEW6	
Sampling Location :	1-1A		1-1B		1-3A		1-3B	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	12:45		13:00		11:40		12:15	
%Moisture :	6		18		8		8	
pH :	8.6		8.6		8.6		8.4	
Dilution Factor :	10		1.0		10		10	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	18	U	2.0	U	18	U	16.0	U
beta-BHC	18	U	2.0	U	18	U	16.0	U
delta-BHC	18	U	2.0	U	18	U	16.0	U
gamma-BHC (Lindane)	18	U	2.0	U	18	U	16.0	U
Heptachlor	18	U	2.0	U	18	U	16.0	U
Aldrin	18	U	2.0	U	18	U	16.0	U
Heptachlor epoxide	18	U	2.0	U	18	U	16.0	U
Endosulfan I	18	U	2.0	U	18	U	16.0	U
Dieldrin	35	U	3.9	U	35	U	31	U
4-4'-DDE	35	U	3.9	U	35	U	5.9	J
Endrin	35	U	3.9	U	35	U	31	U
Endosulfan II	35	U	3.9	U	35	U	31	U
4-4'-DDD	35	U	3.9	U	9.0	J	31	U
Endosulfan sulfate	35	U	3.9	U	35	U	31	U
4-4'-DDT	35	U	3.9	UJ	35	U	31	U
Methoxychlor	180	U	20	UJ	180	U	160	U
Endrin ketone	35	U	3.9	U	35	U	31	U
Endrin aldehyde	35	U	3.9	U	35	U	31	U
alpha-Chlordane	18	U	2.0	U	18	U	16.0	U
gamma-Chlordane	18	U	2.0	U	18	U	16.0	U
Toxaphene	1800	U	200	U	1800	U	1600	U
Aroclor-1016	350	U	39	U	350	U	310	U
Aroclor-1221	710	U	80	U	700	U	630	U
Aroclor-1232	350	U	39	U	350	U	310	U
Aroclor-1242	350	U	39	U	350	U	310	U
Aroclor-1248	350	U	39	U	350	U	310	U
Aroclor-1254	350	U	39	U	350	U	310	U
Aroclor-1260	350	U	39	U	350	U	310	U

Table 1. Analytical Summary Table

Parcel #1

Page 4 of 4: Metals and Cyanide

Sample Number :	MECLM8		MECLM9		MECLN0		MECLN1		MECLN2		MECLN3		MECLN4		MECLN5	
Sampling Location :	1-1-A		1-1-B		1-2-A		1-2-B		1-3-A		1-3-B		1-4-A		1-4-B	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999	
Time Sampled :	13:45		14:00		14:15		14:30		14:45		15:00		15:30		15:45	
%Moisture :	94.4		96.9		94.1		92.9		89.7		87.9		88.7		80.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	3850		2360		5150		2030		4280		5540		6200		3790	
Antimony	0.44	UJ	0.52	J	0.57	J	0.45	UJ	0.72	J	0.47	UJ	1.6	J	0.52	UJ
Arsenic	6.8		6.0		6.8		7.4		12.0		10.5		11.8		5.0	
Barium	57.3		29.1		42.6		74.7		88.5		42.2		61.2		69.0	
Beryllium	0.25		0.14	J	0.30		0.13	J	0.26		0.32		0.31		0.22	
Cadmium	0.19	J	0.060	U	0.13	J	5.1		0.20	J	0.32	J	0.85		0.070	U
Calcium	96400	J	96600	J	84400	J	145000	J	63800	J	72100	J	36400	J	75400	J
Chromium (total)	8.0	J	6.4	J	11.5	J	7.2	J	11.8	J	11.0	J	21.5	J	7.5	J
Cobalt	4.4		3.1		4.5		2.3		9.2		7.0		6.7		3.0	
Copper	12.6	J	7.7	J	33.1	J	11.3	J	81.6	J	16.6	J	53.9	J	5.8	J
Iron	11400		8960		11800		8190		41600		15100		68500		10600	
Lead	35.0		6.9		89.6		25.3		73.5		6.5		118		4.1	
Magnesium	21400		16800		13000		23200		9120		21200		8860		9680	
Manganese	393		338		386		360		537		300		913		339	
Mercury	0.050	U	0.050	U	0.64		0.080		0.16		0.060	U	0.40		0.060	U
Nickel	10.6		7.2		12.5		6.7		17.1		21.0		15.1		7.4	
Potassium	777	J	478	J	912	J	425	J	1010	J	1660	J	877	J	493	J
Selenium	0.38	U	0.37	U	0.41	J	0.38	U	0.39	U	0.53	J	0.40	U	0.44	U
Silver	0.13	J	0.080	U	0.26	J	0.090	U	0.26	J	0.090	U	0.71		0.10	J
Sodium	331	J	67.6	J	97.9	J	134	J	217	J	290	J	225	J	86.1	J
Thallium	0.44	U	0.43	U	0.45	U	0.45	U	0.46	U	0.47	U	0.47	U	0.52	U
Vanadium	14.7	J	9.2	J	16.6	J	8.5	J	19.6	J	16.0	J	30.5	J	12.6	J
Zinc	45.9		23.8		58.3		30.5		75.4		51.3		94.3		23.6	
Cyanide	0.17	J	0.10	J	0.11	J	0.11	J	0.20	J	0.16	J	0.42	J	0.10	J

CADRE Data Qualifier Sheet

Qualifiers

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Figures

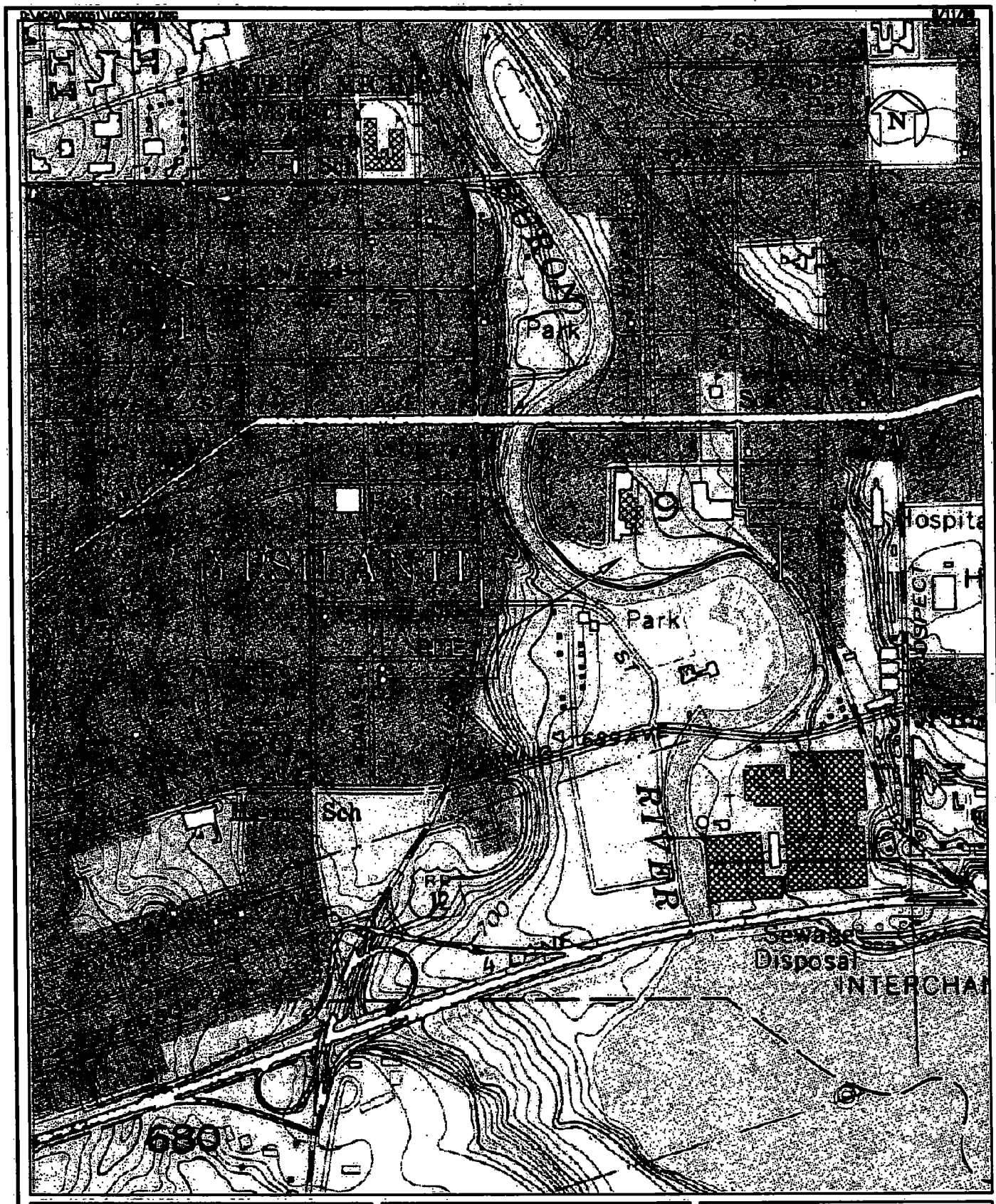

FIGURE 1
SITE LOCATION MAP

Source: ECT, 1999.

YPSILANTI BROWNFIELD PILOT PROJECT REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1940 Washington Boulevard, Suite 3600
Detroit, Michigan 48226
Phone: (313) 833-6300 Fax: (313) 833-1707

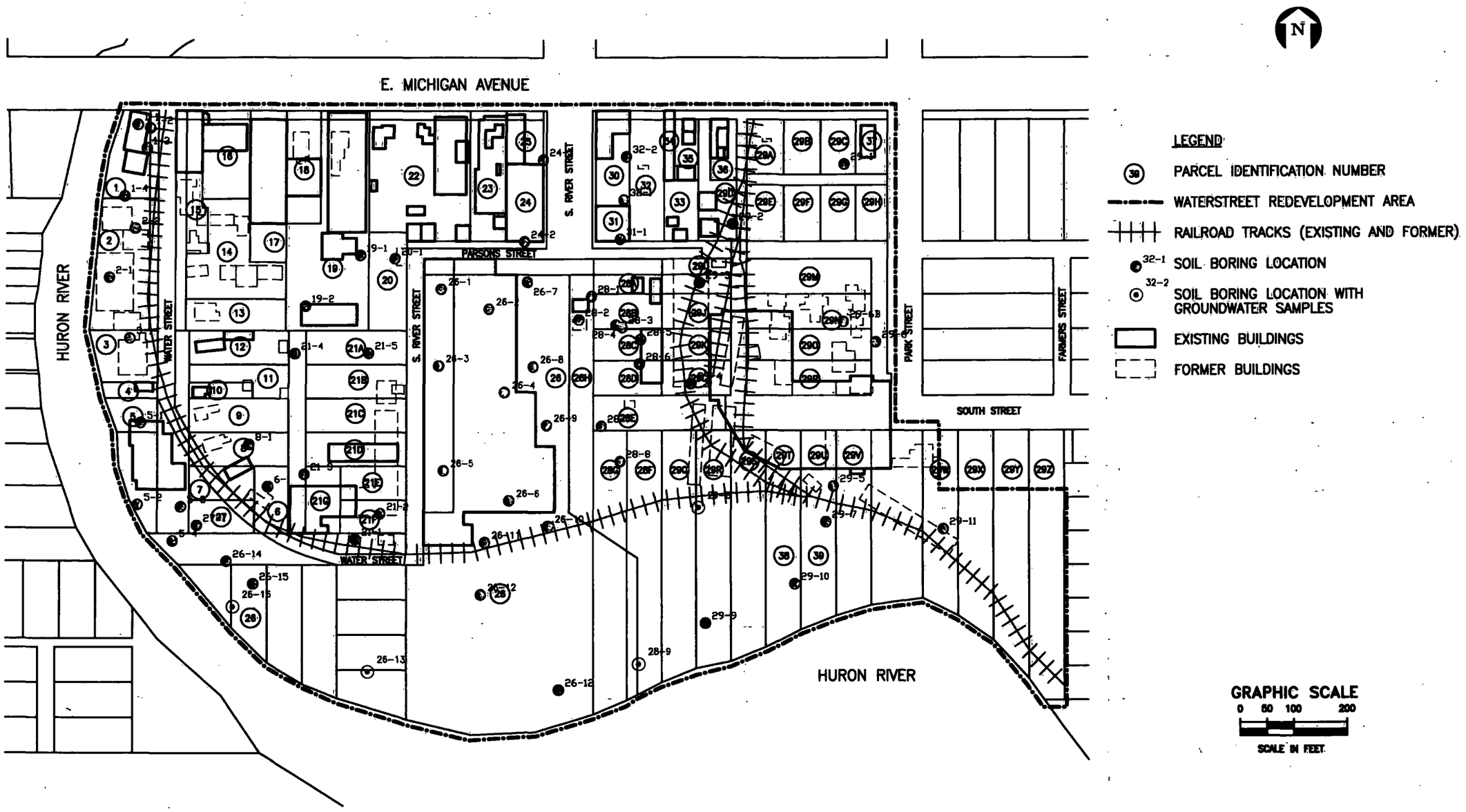

FIGURE 2.
WATER STREET REDEVELOPMENT AREA SITE MAP

Source: ECT, 2000.

YPSILANTI BROWNFIELD PILOT PROJECT
WATER STREET REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Boulevard
Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

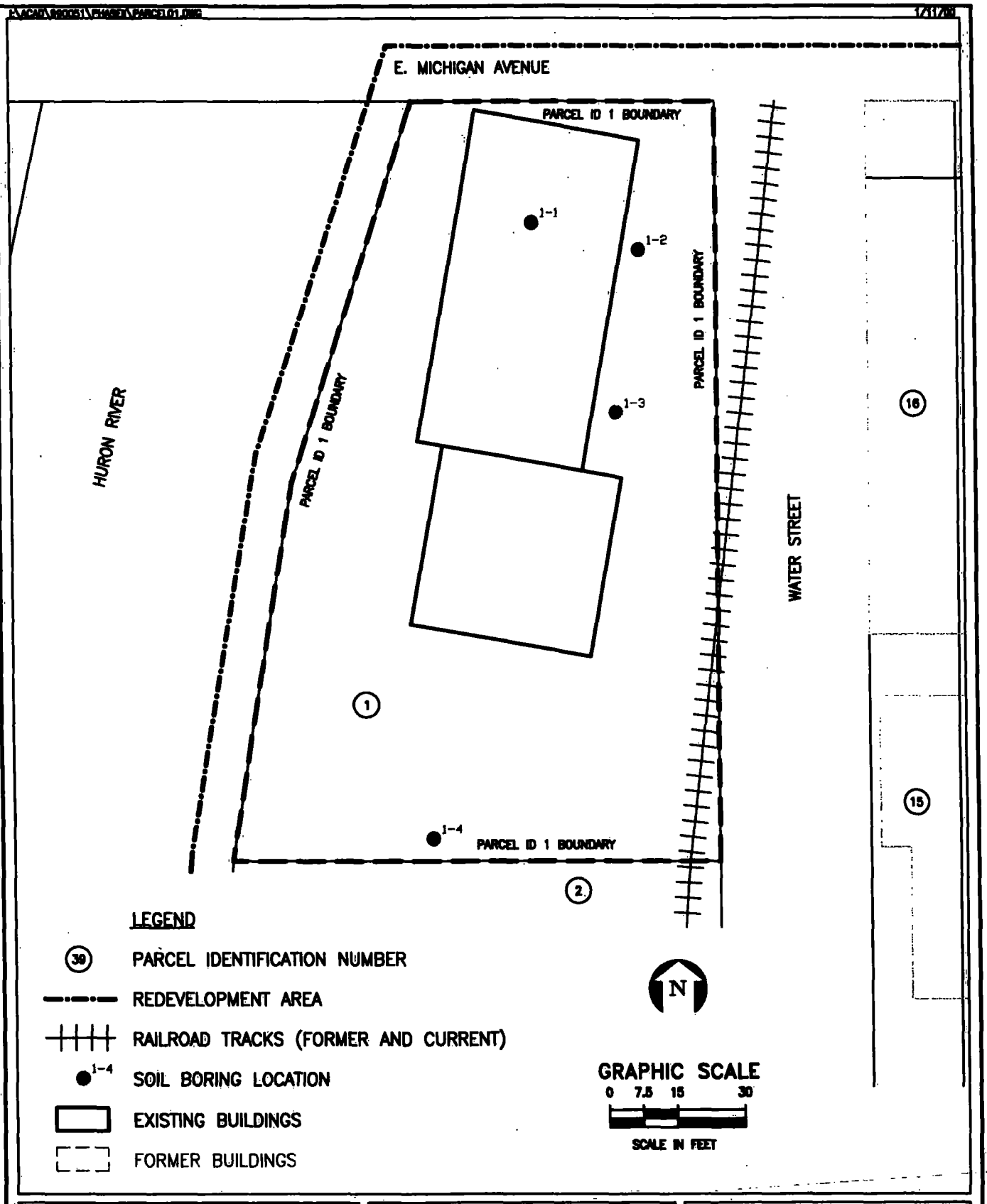

FIGURE 3.
PARCEL ID #1
SITE MAP
Source: ECT, 2000.

REDEVELOPMENT AREA
2 AND 4 WATER ST.
YPSILANTI, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

Appendix A

APPENDIX A

AERIAL PHOTOGRAPHS

D:\AERIAL.DWG 08/18/99

1940 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99

1963 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99

1969 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1849 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99

1978 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

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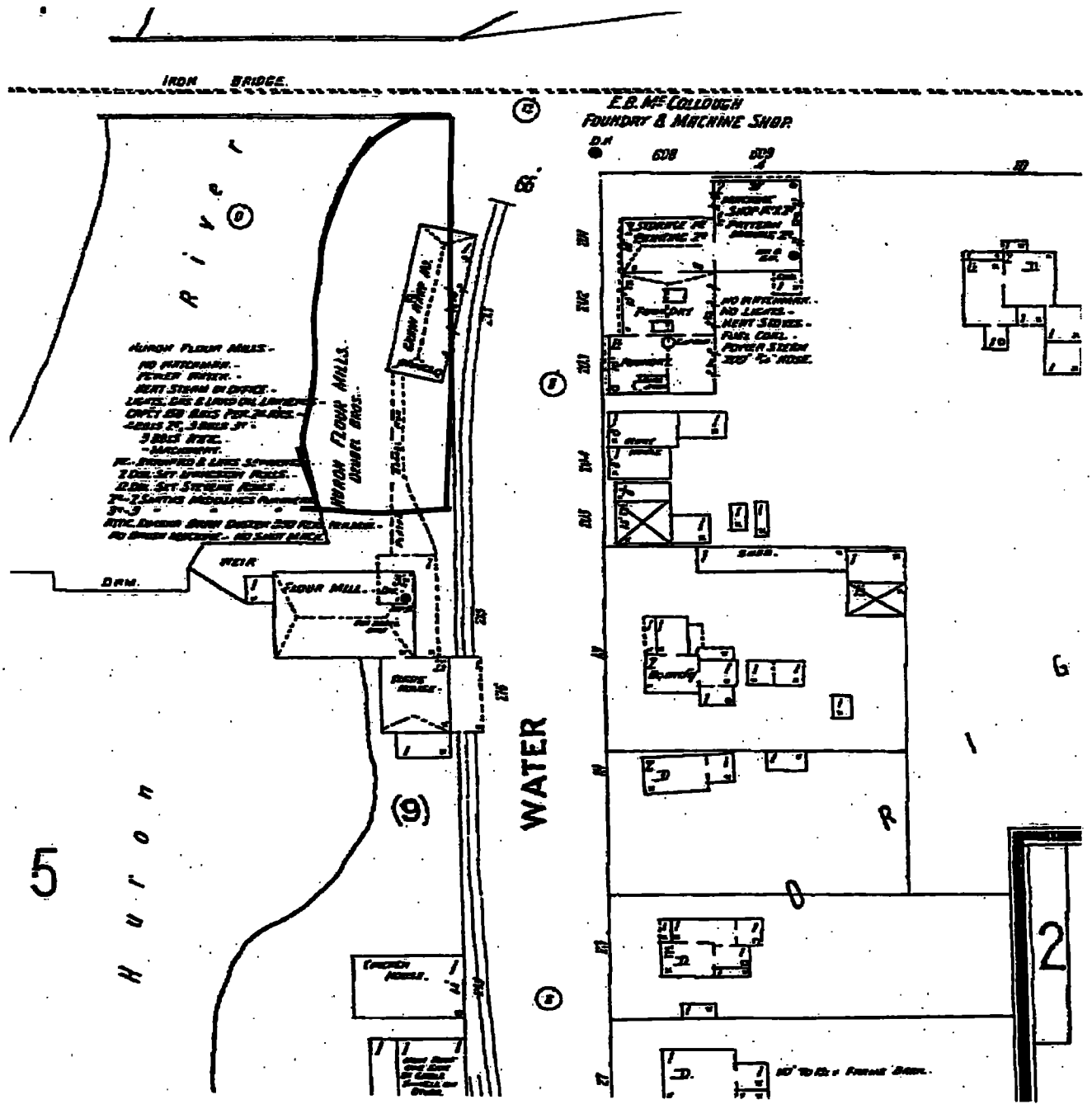
Suite 3500
Detroit, Michigan 48226

APPENDIX B

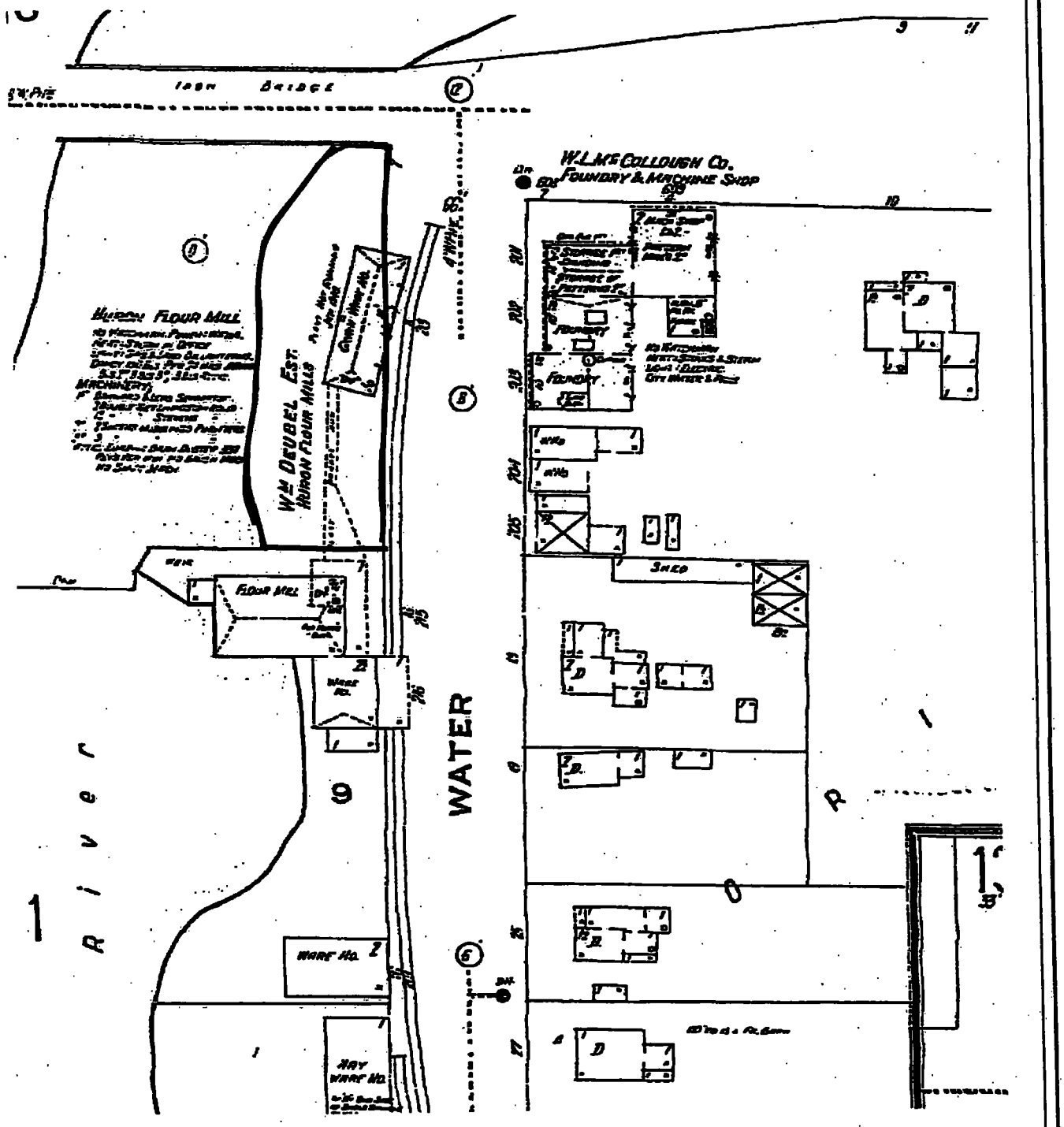
SANBORN FIRE INSURANCE MAPS



ADAPTED FROM SANBORN LIBRARY

N

SANBORN FIRE INSURANCE MAP, 1899	2-4 WATER STREET YPSILANTI WASHTENAW COUNTY	ECT Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226
Source: ECT, 1999		



ADAPTED FROM SANBORN LIBRARY

N

SANBORN FIRE INSURANCE MAP, 1909

Source: ECT, 1999

2-4 WATER STREET
YPSILANTI
WASHTENAW COUNTY

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Detroit, Michigan 48226

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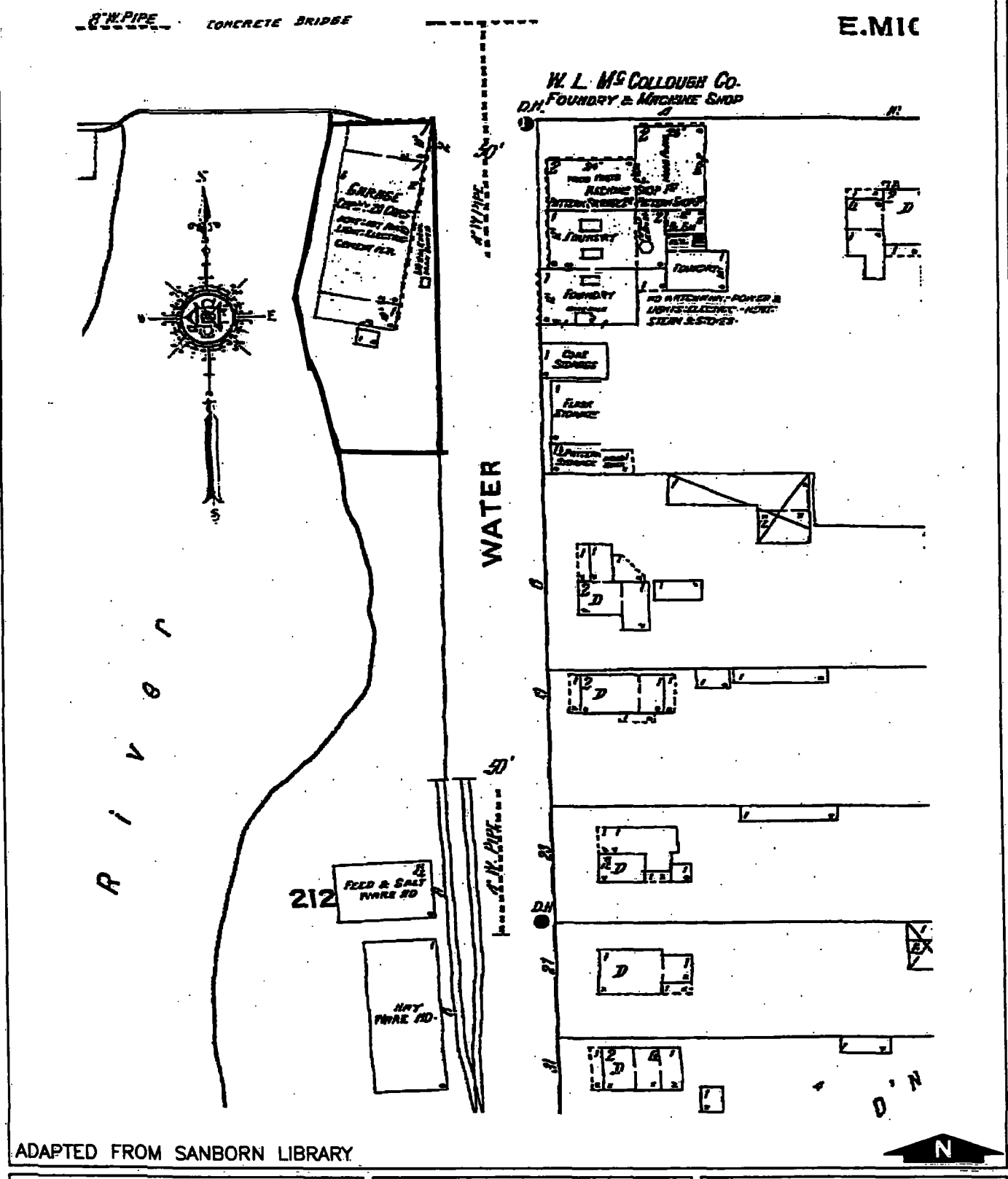
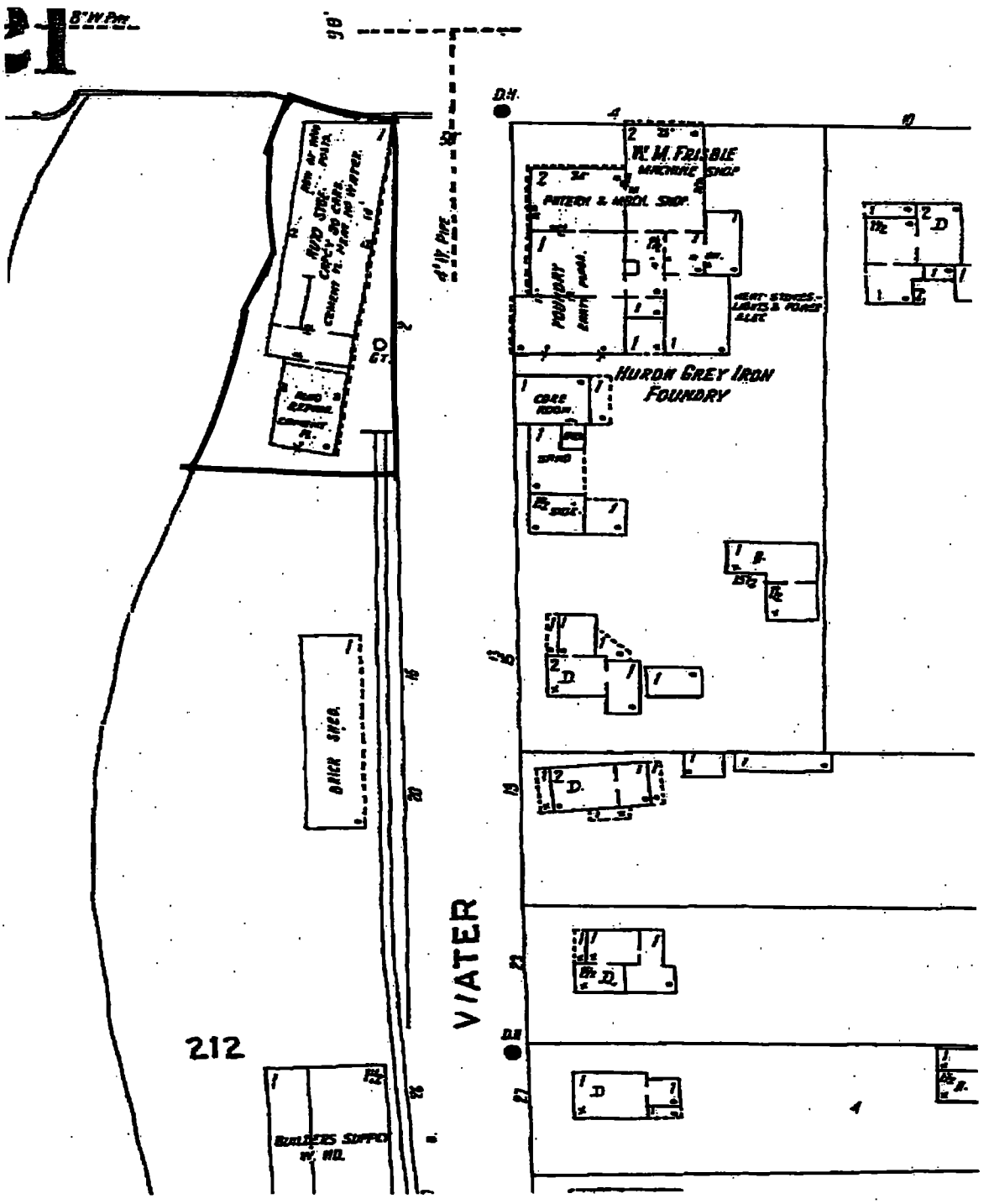


ADAPTED FROM SANBORN LIBRARY

SANBORN FIRE INSURANCE MAP, 1916 Source: ECT, 1999	**2-4 WATER STREET** **YPSILANTI** **WASHTENAW COUNTY**	**ECT** Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226

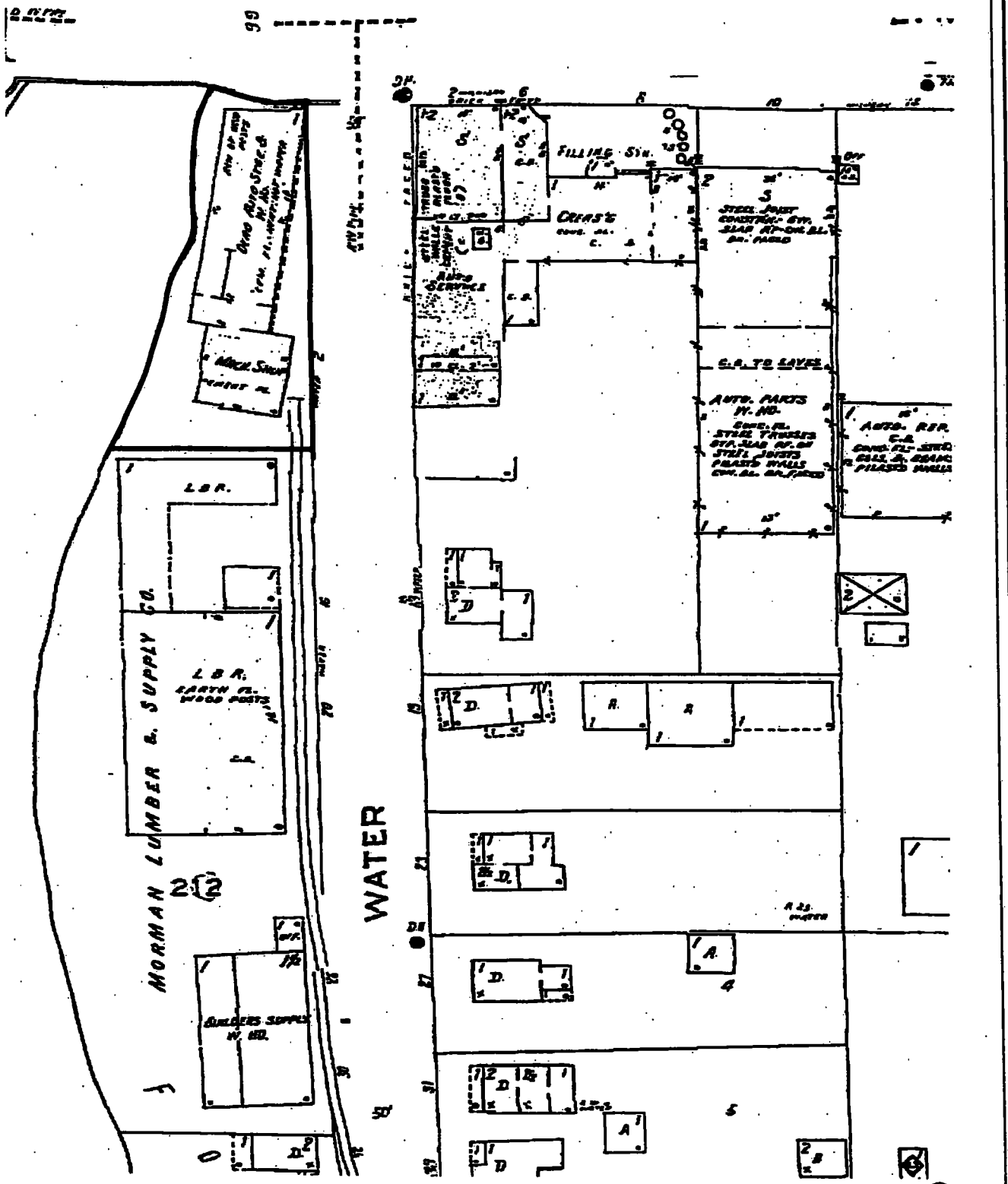


ADAPTED FROM SANBORN LIBRARY

N

SANBORN FIRE INSURANCE MAP, 1927 Source: ECT, 1999	**2-4 WATER STREET** **YPSILANTI** **WASHTENAW COUNTY**	**ECT** Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226

D:\SANBORN.DWG 07/19/99



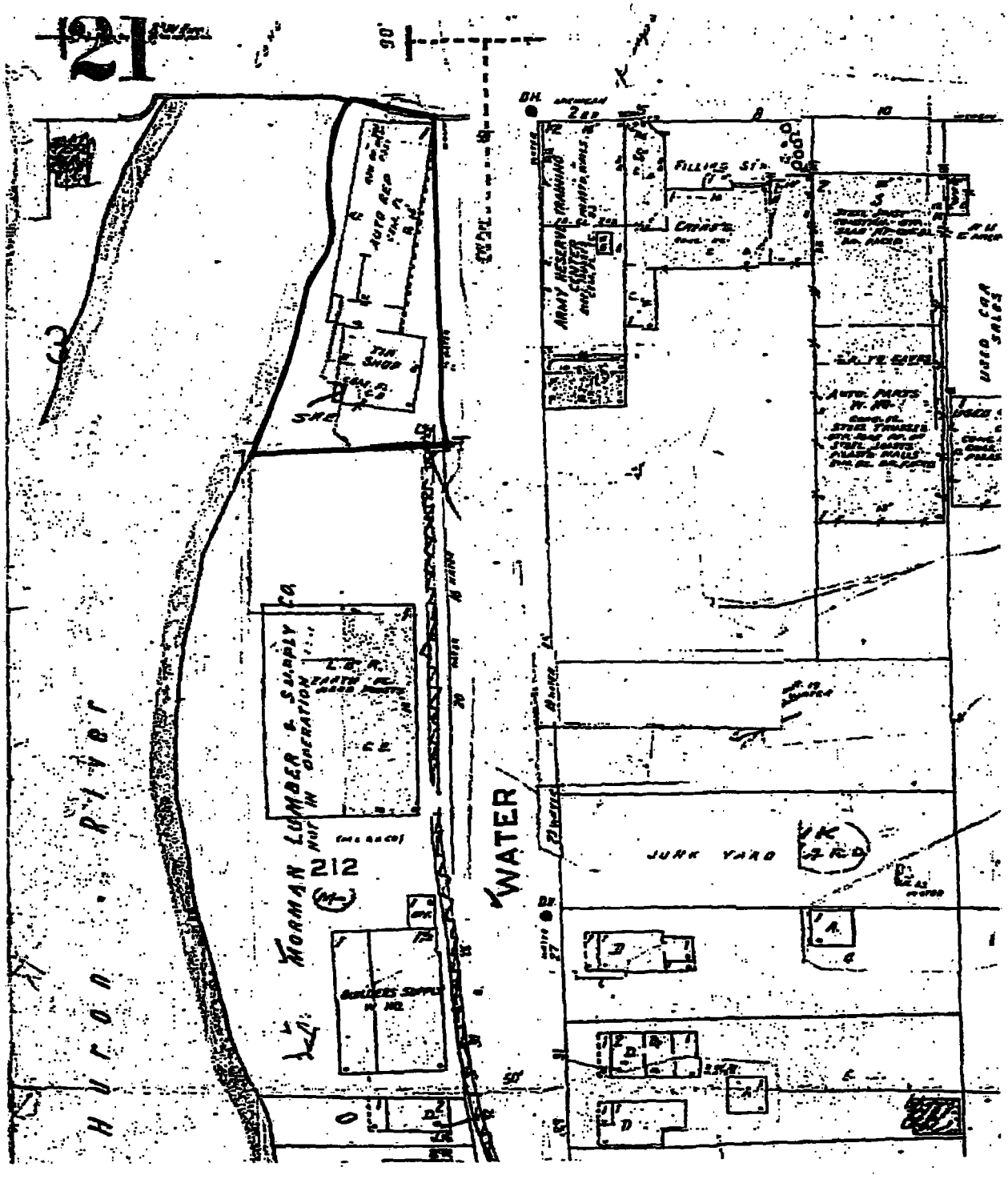
ADAPTED FROM SANBORN LIBRARY

SANBORN FIRE INSURANCE MAP, 1950

Source: ECT, 1999

2-4 WATER STREET
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1849 Washington Blvd.
Suite 3600
Detroit, Michigan 48226



ADAPTED FROM SANBORN LIBRARY

N

SANBORN FIRE INSURANCE MAP, 1964 Source: ECT, 1999	**2-4 WATER STREET** **YPSILANTI** **WASHTENAW COUNTY**	**ECT** Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226

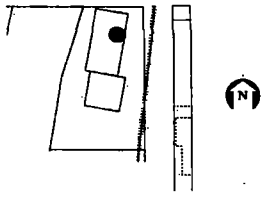
APPENDIX C

SOIL BORING LOGS

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	1-1	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	3"		Light to dark brown SAND, trace fine to medium gravel, dry	
				2				
				3				
				4				
				5	12"		Light to dark brown SAND with fine to medium gravel, trace brick and shell material, dry	
				6				
				7				
				8				
				9	24"		Light to dark brown SAND with fine to medium gravel, trace brick and shell material, damp	
	B			10			Refusal at 10'	
				11			End of boring 10'	
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

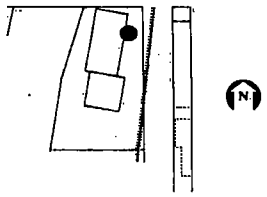
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	1-2	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		6" LOAM, trace fine to medium gravel and leaf litter, damp Light to dark brown SAND with fine to course gravel, trace clay, damp	
				2				
				3				
				4				
				5	30"		SAND with clay, trace fine to medium gravel, damp	
				6				
				7				
				8				
				9	12"		Light brown SAND with fine to medium gravel, damp	
				10				
				11				
				12				
				13	12"		Light brown SAND with fine to medium gravel, damp	
	B			14			Refusal at 14'	
				15			End of boring 14'	
				16				
				17				
				18				
				19				
				20				

LEGEND

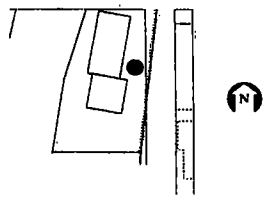
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	1-3	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		Dark brown SAND with clay, trace fine to medium gravel, damp	
				2				
				3				
				4				
				5	40"		Light brown SANDY CLAY, trace fine gravel, damp	
				6				
				7				
				8				
				9	0"		Small amount of crushed rock	
				10				
				11				
				12				
				13	35"		SAND with fine to medium gravel, damp CLAY with sand, trace fine gravel, moist, petroleum odor	
				14				
	B			15				
				16				
				17			End of boring 16'	
				18				
				19				
				20				

LEGEND

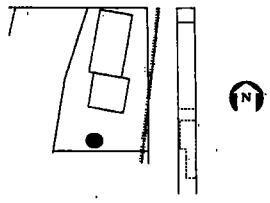
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	1-4	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	40"		Light to dark brown SAND, trace fine to medium gravel, trace brick material, damp	
				2				
				3				
				4				
				5	24"		Light brown SAND, trace fine to course gravel, damp	
				6				
				7				
				8				
				9	24"		Light to dark brown SAND with clay, trace fine to medium gravel, damp	
				10				
	B			11				
				12				
				13			End of boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

Parcel #2 & #3

ENVIRONMENTAL SITE ASSESSMENT
HAVRANEK PROPERTY
Parcels #2 and #3
14-22-28-30 WATER STREET
YPSILANTI, MICHIGAN

PREPARED BY:

ECT

Environmental Consulting & Technology, Inc.

1249 WASHINGTON BLVD.
SUITE 3500
DETROIT, MICHIGAN 48226

JUNE 2000
PROJECT NO: 99-0051

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APPENDIX B	SANBORN FIRE INSURANCE MAPS
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1.0 EXECUTIVE SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I/Phase II Environmental Site Assessment of the facility and property located at 14-22-28-30 Water Street in the City of Ypsilanti, Washtenaw County, Michigan. The property consists of two regularly shaped, contiguous parcels of land. The site is grass covered with no buildings or structures currently located on the subject property.

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. No unusual odors or stressed vegetation were observed during the site reconnaissance. No ground staining or other evidence of material spilling or mishandling was observed.

The subject property and neighboring sites were visually inspected for the presence of USTs and ASTs, with no evidence indicating the presence of any tanks. The visual inspection of this property did not indicate the presence of any PCB containing equipment on the site or in the immediate vicinity of the site. No evidence was discovered during the assessment of the site that would indicate that any unnatural fill materials or land filling had occurred on the site. No suspect asbestos containing materials (ACMs) were observed during the site reconnaissance.

A review of the regulatory history of the site and area and other historical records was conducted in order to assure that no potentially environmentally impairing activities or conditions had occurred in the past or might be currently occurring with regard to the site. The records review did not reveal the presence of recognized environmental conditions in the area of the subject property that could potentially impair the environmental condition of the subject property. Federal, State, and local environmental records were reviewed and a commercial database search was commissioned. These included the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS),

National Priorities List (NPL), Resource Conservation and Recovery Information System (RCRIS), Emergency Response Notification System (ERNS), Hazardous Materials Incident Report System (HMIRS), Toxic Release Inventory System (TRIS), and Toxic Substances Control Act (TSCA) databases. They also included the State Hazardous Waste Sites (SHWS), registered underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, and landfill sites. The result of this review has indicated the presence of UST, LUST, and SHWS sites located within the one mile radius of the subject property, however, a review of the available file information for the sites has indicated that no release has been discovered which would have migrated onto the subject property.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and no evidence has come to light which would indicate that potential recognized environmental conditions exist with regard to the subject property.

Based on the long history of commercial use of the subject property and nearby properties, ECT recommended a subsurface environmental evaluation be performed. It waas recommended that soil borings be advanced across the subject property and that the soils be evaluated for the presence of metals and petroleum based products. Should odors or soil staining be observed, various volatile organic and PCB analyses would be recommended.

Three GeoProbe soil borings were advanced on the parcels, with two soil samples collected from each, one from the surface and one from a depth of 8 to 12 feet below the surface. The results reveal the presence of several trace metals at concentrations exceeding State of Michigan residential cleanup criteria. It is possible that these trace metals levels are representative of local or regional background concentrations. In any case, because of the slightly alkaline pH of the soils, the potential for migration of these metals is reduced. A further assessment of the trace metals concentrations at this property is warranted, with the objectives of a broader evaluation of the local background levels and the potential for

leaching of the metals from the soil.

Surface soil samples were also found to contain petroleum-related organic compounds at levels that exceed the state residential cleanup criteria. Further investigation is warranted to determine the extent of these impacts.

2.0 PURPOSE AND SCOPE

Environmental Consulting & Technology, Inc. (ECT) was retained by the Community and Economic Development Department of the City of Ypsilanti under the Brownfield Redevelopment Pilot Project to conduct a Phase I/Phase II Environmental Site Assessment of the property located at 14-22-28-30 Water Street in the City of Ypsilanti, Michigan. The objective of this assessment was to evaluate the present environmental condition of the property for potential environmental impairment or contamination at the site based on available information that, if present, may result in unacceptable financial and ownership risks and liability. This assessment was conducted during the period of March 25, 1999 through July 2, 1999, with the physical site investigation conducted on June 9, 1999 by Mr. Dirk S. Mammen, Senior Scientist with ECT.

This environmental site assessment was based upon information collected through the following activities:

- Visual assessment of the property.
- Evaluation of potential environmental impacts from proximate properties.
- Evaluation of past site usage through the review of historical maps/photographs, governmental regulatory agency data, historical records, and discussions with persons familiar with the site and local area.
- Review of available environmental incident reports contained in records and databases from the appropriate regulatory agencies.
- Review of known sites of contamination from the state and federal agency sources, including the CERCLIS, NPL, Landfill lists, LUST sites, RCRIS, ERNS, HMIRS, TRIS,

and TSCA data files, and other available sources.

- A review of registered USTs and Aboveground Storage Tanks (ASTs) in the proximate area.

- A visual survey of construction materials to determine whether suspect asbestos containing materials (ACMs) are present.

- A survey of the electrical equipment which may have PCB containing oils.

- A preliminary subsurface investigation consisting of Geoprobe borings and soil sampling and analysis.

3.0 PHYSICAL SITE ASSESSMENT

3.1 SITE LOCATION

The subject property is located at 14-22-28-30 Water Street in the City of Ypsilanti, Washtenaw County, Michigan (Figure 1). The subject property, as indicated on the Ypsilanti East Quadrangle U.S.G.S. 7.5 minute topographic map, is located in Section 9, Township 3 South, Range 7 East, City of Ypsilanti, County of Washtenaw, State of Michigan. The property is located in Ypsilanti's Water Street Redevelopment Area, shown in Figure 2.

3.2 GENERAL SITE DESCRIPTION

The property consists of two regular shaped, contiguous parcels of property. The subject property is grass covered and there are no buildings or structures located on the site. The subject property is located on the west side of Water Street. Huron River is located west of the subject property.

Geologic information was obtained from available U.S. Geological Survey reports, U.S.G.S. topographic maps, and other available local geological informational papers. The site elevation is approximately 700-750 feet above mean sea level (ft-msl) as indicated on the U.S.G.S. Ypsilanti East Quadrangle topographic map. The property has a slight westerly topographic dip, although it is generally flat lying.

3.3 SOLID AND HAZARDOUS WASTES

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. Items which typically represent the potential for environmental contamination include chemical spills and leaks, dead or dying foliage, ground discoloration and disturbances, unusual odors, and the improper storage of solid, liquid, or gaseous products and wastes. No unusual odors or stressed vegetation were observed during the site reconnaissance. No visual indication of historical hazardous material storage or disposal resulting in possible adverse site

impairment was discovered during the site reconnaissance on the subject property or adjacent properties. No ground staining or other evidence of material spilling or mishandling was observed. No evidence was encountered that hazardous material dumping had occurred.

3.4 STORAGE TANKS

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. No evidence of the presence or former presence of USTs or ASTs located on the subject property or on adjacent properties was observed. No fill ports or vent pipes were observed on the subject property. A review of historical UST locations in the area is included in Section 5.0.

3.5 POLYCHLORINATED BIPHENYLS

PCBs are toxic coolant or lubricant oils used in some electrical equipment, transformers, capacitors, fluorescent light ballasts, and hydraulic systems. The visual inspection of this property did not indicate the presence of any PCB containing transformers or equipment on the site or in the immediate vicinity of the site.

3.6 ASBESTOS CONTAINING MATERIALS (ACMs)

A visual survey of building materials was conducted to determine whether suspect ACMs were present on the subject site. Asbestos was used primarily in the 1950s through 1970s in a wide variety of construction and insulative materials. It has been found in roofing and flooring materials, ceiling tiles, and insulation materials. Asbestos can become an environmental or health risk when the asbestos fiber is released and inhaled or ingested. ACMs present environmental risks when exposed or disturbed. No suspect ACMs were observed during the site reconnaissance.

3.7 FILL MATERIALS

No evidence was discovered during the assessment of the site that would indicate that any

unnatural fill materials or land filling had occurred on the site.

4.0 CURRENT LAND USE

The subject property and surrounding properties along Water Street are principally involved with various retail, packaging/distribution, commercial or office operations. No heavy manufacturing or large quantity chemical use operations were observed within the area or on the subject property.

The subject property is currently undeveloped. There are no buildings or structures located on the subject property. Neighboring properties include industrial garages and residential homes along Water Street.

5.0 SITE HISTORY AND RECORDS REVIEW

A site history was compiled by researching the records maintained at applicable federal, state, county and local regulatory agencies, including a commission of an environmental database. The database searched was based on a radius search of the site and area. The regulatory file review was performed in order to confirm that information which was presented on the database and to search for any sites that may have been missed by the data search. In addition, those sites that were in close enough proximity to the site or which were of concern were investigated in greater detail. These included the United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, landfill databases, UST and LUST information, and state and local Fire Marshal records.

5.1 AERIAL PHOTOGRAPHY

Available aerial photography of the site and surrounding area was reviewed. Aerial photographs were reviewed for the years 1940, 1963 and 1969. The aerials indicated that there were two structures located on the subject property, their purposes not known. Copies of the aerial photographs are included in Appendix B.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps are historical map records primarily used by insurance companies to assess fire risks for a particular property and can offer valuable information regarding the presence of USTs, ASTs, and types of businesses and operations that have occupied a particular property. A search for available Sanborn Fire Insurance maps was performed for the years 1899, 1909, 1916, 1927, 1950 and 1964. The 1899 Sanborn indicated that a flour mill and chicken house were located on the property. The 1909 Sanborn indicated that the flour mill was still present but the chicken house had been converted into a warehouse. The 1916 Sanborn indicated that the flour mill was no longer

present. A hay warehouse and a feed and salt warehouse were located on the subject property. The 1927 Sanborns indicated that only one warehouse still remained; a brick shed was also located on the subject property. The 1950 and 1964 Sanborns indicated that a lumber supply company was located on the subject property. The lumber company was not in operation on the 1964 Sanborn. The Sanborns did not indicated historic environmental concern for the subject property, primarily for metals, solvents and petroleum products. Copies of the Sanborn maps for the subject property and area are included in Appendix C.

5.3 STREET INDEX DIRECTORIES

Polk Street Index Directories were reviewed at the Ann Arbor Public Library in Ann Arbor, Michigan. These directories are used to provide historical information pertaining to the name addressed to a particular property. Polk Street Index Directories were available for the area back into the mid 1920's. The directories indicated that for the subject property at 14-22 Water Street there were no listings back to 1926. The directories for the subject property at 28 Water Street indicated no listing until 1960 at which time the property was occupied by Moomans Lumber & Supply Company. However, from 1955 to 1926 there were no listings. The directories indicated for the subject property at 30 Water Street indicated no listings until 1975 at which time the Black & White Cab Dispatcher office was located. From 1970 to 1926 there were no listings.

5.4 REGULATORY FILE REVIEW

The purpose of the regulatory file review is to obtain and review records that will help identify potential environmental concerns in connection with the property or adjoining properties. The primary source of this information is the EDR report (see Appendix D) which presents the findings of a computerized environmental records search for the subject property, adjoining properties, and nearby properties (Inquiry Number 341436 - February 25, 1999). The EDR report documented available information historically found on the following databases: United States Environmental Protection Agency (USEPA) CERCLIS,

NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, SHWS, landfill databases, UST and LUST information, and state and local Fire Marshal records.

The CERCLIS and NPL databases are prepared under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) by the USEPA. The NPL sites are those sites most in need of remediation and clean-up as promulgated by the EPA and the CERCLIS sites are those under investigation for possible placement on the NPL list. Of the sites listed for the State of Michigan, and those specifically indicated within the radius area, no NPL or CERCLIS sites were found to be located within a one mile radius of the subject property.

As indicated in the EDR report, three State Hazardous Waste Sites and no landfill sites were identified to be located within a one mile radius of the subject property, none being located on the subject property or adjacent properties, with no evidence to suggest that the subject property may have been adversely environmentally impaired by these sites.

The State of Michigan UST and LUST databases were reviewed. The review indicated that numerous registered UST and LUST sites exist within the area, none being located on the subject property.

A search of the ERNS, SPILLS, TRIS, HMIRS, and Department of Transportation (DOT) records was conducted. The subject property was not found in any of the records.

The HWDMS/RCRIS, and TSCA databases were reviewed. This information indicates the names and addresses of those facilities which generate, store, or dispose of hazardous materials and wastes. This information also indicates the facilities which release toxic reportable quantities of chemicals into the air, water, or land. These facilities are regulated and reviewed by the appropriate federal agencies and must conform with the regulatory acceptable limits and guidelines. These databases only indicate the presence of these types

of facilities and do not reflect whether the sites may be contaminated or not in compliance. Based on the nature of the surrounding area, some nearby sites can be found on the database, however, no indication of the potential for direct environmental impairment to the subject property was discovered.

6.0 PHASE II SITE INVESTIGATION

6.1 SCOPE OF INVESTIGATION

The investigation at Parcels 2 and 3 consisted of advancing three Geoprobe borings to a depth of 12 feet below surface grade (bsg). Two soil samples were collected from each boring, one from the surface 0-1 ft, designated sample 'A', the second, designated 'B', from the capillary fringe or other feature, as discussed below.

6.2 INVESTIGATION METHODS

All investigation activities are described in the Quality Assurance Project Plan, the Work Plan/Sampling and Analysis Plan, and the associated Standard Operating Procedures. The following sections provide a brief overview of the methods employed in the investigation.

All soil and groundwater samples collected for laboratory analysis were placed into the appropriate containers in the order of the selected analysis, as follows:

1. Volatile Organic Compounds
2. Semi-Volatile Organic Compounds
3. Polychlorinated Biphenyls & Pesticides
4. Cyanide
5. Metals

All soil samples were collected in the appropriate precleaned (to EPA specifications) containers and stored following United States Environmental Protection Agency (USEPA) Publication SW-846 Method 5035/ASTM D4547-91, final version of March 26, 1998, *Testing Methods for Evaluating Solid Waste*. All soil sample containers were labeled in accordance with the QAPP

Temporary Monitoring Well Installation

No temporary monitoring wells were installed on these parcels.

Soil Sampling

Soil samples was collected for laboratory analysis based on one or more of the following criteria:

1. Known and/or suspected depth of release (e.g. surface stain, deep machine pit, etc.)
2. Visual identification of soil staining
3. Concentrated petroleum based odors
4. Highest PID level reading
5. Sand to clay interface

Soil samples collected for parameters other than VOCs were homogenized in a stainless-steel bowl with a stainless-steel spoon prior to placement in appropriate sample containers. Following use of the stainless-steel bowl and spoon, this equipment was decontaminated in accordance with ECT SOP-4.

When sampling with a Geoprobe®, the drilling contractor followed the American Society for Testing and Materials publication ASTM D-4700. Using hydraulic drive core/direct-push (Geoprobe®) sampling techniques, continuous soil samples were collected from the soil borings at four-foot intervals, according to ASTM. A clean, plastic sampling sleeve was used for each sample interval. The stainless steel coring sleeve was decontaminated between each boring.

Upon completion of boring, the borehole was backfilled with any remaining cuttings. At a minimum, the upper two feet of the borehole was backfilled with bentonite pellets. Surface materials, such as pavement, asphalt, soil, etc., were utilized to restore the site to its original condition.

Soil samples collected for volatile organic compound (VOCs) analysis were containerized following guidelines established by the USEPA in "*Soil Sample Collection and Methanol Preservation for Volatile Analysis*" and adopted by the Michigan Department of Environmental Quality, Environmental Response Division (MDEQ, ERD) in "*Procedure: Methanol Preservation of Soil VOC Samples, Environmental Response Division,*" Draft, June 3, 1999.

All weight measurements in this procedure were recorded in an ECT field log book or field form during sample collection. The field sampler also documented the use of the MDEQ guidance in their field logbook and/or on the appropriate field forms whenever collecting samples with methanol preservation on this project.

If no other unpreserved soil samples from the same sample location are being sent to the selected laboratory for analysis (i.e., BNAs, PCBs, Metals, etc.), then approximately 50 grams of soil will also be placed in a clean glass jar without preservative, properly labeled and sent along with the corresponding methanol preserved sample for analysis of percent solids. The properly labeled sample jars will be placed in a bubble wrap bag and secured in an ice-cooled container for shipment to the laboratory for analyses.

Groundwater Sampling

No groundwater samples were collected from these parcels.

Investigation Results

The boring locations are shown on Figure 3 and the logs of the borings are included in Appendix E.

Soils encountered in the borings were typically a mixture of sands with traces of clay and gravel. No apparent fill material was observed in either of the two borings, with the exception of a small amount of coal-like material in the surface interval of boring 2-2. Saturated soils indicative of groundwater were observed in each boring at a depth of about

11-12 feet.

The laboratory analytical results for the eight soil samples are summarized in Table 1. For volatile organic compounds (page 1 of 4), elevated analytical detection limits reduce the utility of the data.

Several semivolatile organic compounds (page 2 of 4), namely polynuclear aromatic hydrocarbons (PAHs) were detected in trace concentrations in the samples from boring 2-2A (0-1 ft), 2-2B (9-0 ft), and 3-1A (0-1 ft). In sample 2-2A, some of the PAHs are present at concentrations exceeding the State of Michigan cleanup criteria for residential direct contact, groundwater-surface water interface (GSI) protection, and volatile soil inhalation. However, due to laboratory conditions, reflected by the flags in the data tables, the concentrations are reported as estimates.

Trace levels pesticides or PCBs (page 3 of 4) were detected, but at levels far below the state criteria.

The analytical results for trace metals and cyanide (page 4 of 4) reveal that several elements (arsenic, lead, and mercury) exceed the State of Michigan default background levels, and in the case of mercury some concentrations exceed the criteria for protection of the GSI.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I/Phase II Environmental Site Assessment of the property located at 14-22-28-30 Water Street in the City of Ypsilanti, Washtenaw County, Michigan.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and no evidence has come to light which would indicate that potential recognized environmental conditions exist with regard to the subject property. Although no evidence was discovered indicating the current existence of subsurface impairment and no operations currently exist that may have adversely impaired the subject property, based on the long history of commercial use of the subject property and nearby properties and the detection of hydrocarbons in soil samples at levels exceeding residential criteria, ECT recommends additional subsurface environmental evaluation. The objectives of this additional investigation will be to delineate the extent of impacts in the vicinity of boring 2-2, and to evaluate local background metals concentrations, and the potential mobility of metals in soils on the property.

8.0 QUALIFICATIONS

This assessment was performed by ECT with standard professional practice using the degree of skill and care exercised for similar projects. The conclusions given by ECT are based on an audit effort to obtain and review reasonably available information on the site and adjacent sites. We have relied upon information provided to us by others and on the accuracy and completeness of the available information. No warranty or conclusions other than those expressly contained within this report are implied or intended. ECT can offer no assurances and assumes no responsibility for the site conditions or activities which were outside the scope of work requested.

Table 1. Analytical Summary Table
Parcel #2 and #3
Page 1 of 4: Volatile Organic Compounds

Sample Number :	EDEZ3		EDEZ4		EDEZ5		EDEZ6		EDEZ7	
Sampling Location :	2-1-A, 0-1 ft		2-1-B, 11-12 ft		2-2-A, 0-1 ft		2-2-B, 9-10 ft		3-1-A, 0-1 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999	
Time Sampled :	13:15		13:30		12:15		12:30		11:50	
%Moisture :	6		12		5		19		21	
pH :	9.0		9.0		8.7		8.9		8.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Chloromethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Vinyl Chloride	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Bromomethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Chloroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Trichlorofluoromethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,1-Dichloroethene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Acetone	350000	J	360000	J	360000	J	410000	J	390000	J
Carbon Disulfide	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Methyl Acetate	29000	UJ	3300	J	28000	UJ	33000	UJ	4000	J
Methylene Chloride	6400	J	6200	J	6000	J	4400	J	4300	J
trans-1,2-Dichloroethene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
tert-Butyl Methyl Ether	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,1-Dichloroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
cis-1,2-Dichloroethene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
2-Butanone	13000	J	14000	J	14000	J	15000	J	15000	J
Chloroform	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,1,1-Trichloroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Cyclohexane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Carbon Tetrachloride	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Benzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,2-Dichloroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Trichloroethene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Methylcyclohexane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,2-Dichloropropane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Bromodichloromethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
cis-1,3-Dichloropropene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
4-Methyl-2-pentanone	49000	J	54000	J	54000	J	59000	J	59000	J
Toluene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
trans-1,3-Dichloropropene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,1,2-Trichloroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Tetrachloroethene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
2-Hexanone	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Dibromochloromethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,2-Dibromoethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Chlorobenzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Ethylbenzene	40000	J	41000	J	41000	J	47000	J	47000	J
Xylenes (total)	150000	J	160000	J	160000	J	180000	J	180000	J
Styrene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Bromoform	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
Isopropylbenzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,1,2,2-Tetrachloroethane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,3-Dichlorobenzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,4-Dichlorobenzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,2-Dichlorobenzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,2-Dibromo-3-chloropropane	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ
1,2,4-Trichlorobenzene	29000	UJ	31000	UJ	28000	UJ	33000	UJ	34000	UJ

Table 1. Analytical Summary Table

Parcel #2 and #3

Page 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDEZ3		EDEZ4		EDEZ5		EDEZ6		EDEZ7		EDEZ8	
Sampling Location :	2-1-A, 0-1 ft		2-1-B, 11-12 ft		2-2-A, 0-1 ft		2-2-B, 9-10 ft		3-1-A, 0-1 ft		3-1-B, 9-10 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999	
Time Sampled :	13:15		13:30		12:15		12:30		11:50		12:00	
%Moisture :	6		12		5		19		21		15	
pH :	9.0		9.0		8.7		8.9		8.8		8.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Phenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
bis-(2-Chloroethyl) ether	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2-Chlorophenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2-Methylphenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2,2'-oxybis(1-Chloropropane)	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Acetophenone	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
4-Methylphenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
N-Nitroso-di-n-propylamine	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Hexachloroethane	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Nitrobenzene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Isophorone	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2-Nitrophenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2,4-Dimethylphenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
bis-(2-Chloroethoxy) methane	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2,4-Dichlorophenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Naphthalene	350	UJ	380	UJ	11000	R	90	J	420	UJ	390	UJ
4-Chloroaniline	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Hexachlorobutadiene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Caprolactam	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
4-Chloro-3-methylphenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2-Methylnaphthalene	350	UJ	380	UJ	11000	R	45	J	420	UJ	390	UJ
Hexachlorocyclopentadiene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2,4,6-Trichlorophenol	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2,4,5-Trichlorophenol	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
1-1'-Biphenyl	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2-Chloronaphthalene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2-Nitroaniline	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
Dimethylphthalene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
2,6-Dinitrotoluene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Acenaphthylene	350	UJ	380	UJ	11000	R	90	J	25	J	390	UJ
3-Nitroaniline	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
Acenaphthene	350	UJ	380	UJ	900	J	83	J	420	UJ	390	UJ
2,4-Dinitrophenol	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
4-Nitrophenol	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
Dibenzofuran	350	UJ	380	UJ	11000	R	80	J	420	UJ	390	UJ
2,4-Dinitrotoluene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Diethylphthalate	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Fluorene	350	UJ	380	UJ	1100	J	150	J	420	UJ	390	UJ
4-Chlorophenyl-phenyl ether	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
4-Nitroaniline	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
4,6-Dinitro-2-methylphenol	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
N-Nitrosodiphenylamine	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
4-Bromophenyl-phenylether	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Hexachlorobenzene	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Atrazine	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Pentachlorophenol	880	UJ	940	UJ	26000	R	1000	UJ	1100	UJ	980	UJ
Phenanthrene	350	UJ	380	UJ	24000	J	2200	J	110	J	390	UJ
Anthracene	350	UJ	380	UJ	6300	J	600	J	24	J	390	UJ
Carbazole	350	UJ	380	UJ	1100	J	200	J	420	UJ	390	UJ
Di-n-butylphthalate	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Fluoranthene	350	UJ	380	UJ	53000	J	4000	J	260	J	390	UJ
Pyrene	350	UJ	380	UJ	43000	J	2300	J	210	J	390	UJ
Butylbenzylphthlate	350	UJ	380	UJ	11000	R	410	UJ	26	J	390	UJ
3,3'-Dichorobenzidine	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Benzo(a)anthracene	350	UJ	380	UJ	24000	J	1400	J	130	J	390	UJ
Chrysene	350	UJ	380	UJ	24000	J	1500	J	160	J	390	UJ
bis(2-Ethylhexyl)phthalate	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Di-n-octylphthalate	350	UJ	380	UJ	11000	R	410	UJ	420	UJ	390	UJ
Benzo(b)fluoranthene	350	UJ	380	UJ	23000	J	1000	J	120	J	390	UJ
Benzo(k)fluoranthene	350	UJ	380	UJ	16000	J	1000	J	120	J	390	UJ
Benzo(a)pyrene	350	UJ	380	UJ	23000	J	1200	J	140	J	390	UJ
Indeno(1,2,3-cd)pyrene	350	UJ	380	UJ	16000	J	760	J	97	J	390	UJ
Dibenzo(a,h)anthracene	350	UJ	380	UJ	5300	J	280	J	31	J	390	UJ
Benzo(g,h,I)perylene	350	UJ	380	UJ	18000	J	800	J	110	J	390	UJ

Table 1. Analytical Summary Table

Parcel #2 and #3

Page 3 of 4: Pesticides and PCBs

Sample Number :	EDEZ3		EDEZ4		EDEZ5		EDEZ6		EDEZ7		EDEZ8	
Sampling Location :	2-1-A, 0-1 ft		2-1-B, 11-12 ft		2-2-A, 0-1 ft		2-2-B, 9-10 ft		3-1-A, 0-1 ft		3-1-B, 9-10 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999	
Time Sampled :	13:15		13:30		12:15		12:30		11:50		12:00	
%Moisture :	6		12		5		19		21		15	
pH :	9.0		9.0		8.7		8.9		8.8		8.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
beta-BHC	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
delta-BHC	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
gamma-BHC (Lindane)	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
Heptachlor	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
Aldrin	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
Heptachlor epoxide	1.8	UJ	1.9	UJ	18	J	2.1	UJ	2.2	UJ	2.0	UJ
Endosulfan I	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
Dieldrin	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	2.2	J	3.9	UJ
4-4'-DDE	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	4.2	UJ	3.9	UJ
Endrin	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	4.2	UJ	3.9	UJ
Endosulfan II	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	4.2	UJ	3.9	UJ
4-4'-DDD	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	4.2	UJ	3.9	UJ
Endosulfan sulfate	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	4.2	UJ	3.9	UJ
4-4'-DDT	3.5	UJ	3.8	UJ	12	J	1.7	J	4.2	UJ	3.9	UJ
Methoxychlor	18	UJ	19	UJ	18	UJ	21	UJ	22	UJ	20	UJ
Endrin ketone	3.5	UJ	3.8	UJ	55	J	4.1	UJ	4.2	UJ	3.9	UJ
Endrin aldehyde	3.5	UJ	3.8	UJ	3.5	UJ	4.1	UJ	4.2	UJ	3.9	UJ
alpha-Chlordane	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
gamma-Chlordane	1.8	UJ	1.9	UJ	1.8	UJ	2.1	UJ	2.2	UJ	2.0	UJ
Toxaphene	180	UJ	190	UJ	180	UJ	210	UJ	220	UJ	200	UJ
Aroclor-1016	35	UJ	38	UJ	35	UJ	41	UJ	42	UJ	39	UJ
Aroclor-1221	71	UJ	76	UJ	71	UJ	83	UJ	85	UJ	79	UJ
Aroclor-1232	35	UJ	38	UJ	35	UJ	41	UJ	42	UJ	39	UJ
Aroclor-1242	35	UJ	38	UJ	35	UJ	41	UJ	42	UJ	39	UJ
Aroclor-1248	35	UJ	38	UJ	35	UJ	41	UJ	42	UJ	39	UJ
Aroclor-1254	35	UJ	38	UJ	35	UJ	41	UJ	42	UJ	39	UJ
Aroclor-1260	35	UJ	38	UJ	35	UJ	41	UJ	42	UJ	39	UJ

Table 1. Analytical Summary Table

Parcel #2 and #3

Page 4 of 4: Metals and Cyanide

Sample Number :	MECLJ2		MECLJ3		MECLJ4		MECLJ5		MECLJ6		MECLJ7	
Sampling Location :	2-1-A, 0-1 ft		2-1-B, 11-12 ft		2-2-A, 0-1 ft		2-2-B, 9-10 ft		3-1-A, 0-1 ft		3-1-B, 9-10 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999	
Time Sampled :	13:15		13:30		12:15		12:30		11:50		12:00	
%Moisture :	7.1		17.5		5		12.3		5.9		16.8	
pH	9.0		9.0		8.7		8.9		8.8		8.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	2640	J	3380	J	5840	J	2180	J	4040	J	2370	J
Antimony	0.45	R	0.5	R	0.44	R	1.7	J	0.44	R	0.5	R
Arsenic	4.9	J	7.3	J	6.6	J	4.5	J	3.1	J	5.3	J
Barium	40.4		70		71.3		53.4		24.5		44.7	
Beryllium	0.13	J	0.14	J	0.38		0.13	J	0.19		0.12	J
Cadmium	0.07	U	0.07	U	0.06	U	0.07	U	0.06	U	0.07	U
Calcium	80400		80900		39100		59300		45600		71000	
Chromium (total)	8	J	5.8	J	10.2	J	6.5	J	7.3	J	5.3	J
Cobalt	3		3.2		4.6		3.5		3.8		2.8	
Copper	10.4	J	9.1	J	28.2	J	20	J	10.8	J	16.1	J
Iron	8460	J	10300	J	12500	J	70200	J	8540	J	8410	J
Lead	18.4	J	8.4	J	170	J	65.2	J	7.9	J	9.6	J
Magnesium	16800	J	8790	J	7890	J	7570	J	12700	J	11500	J
Manganese	357	J	434	J	370	J	352	J	213	J	377	J
Mercury	0.05	U	0.06	U	0.22		0.18		0.05	U	0.14	
Nickel	9		7.8		13		8.2		10.7		6.3	
Potassium	532		522		919		238		559		286	
Selenium	0.39	U	0.43	U	0.38	U	0.4	U	0.38	U	0.43	U
Silver	0.11		0.24		0.29		0.09	U	0.09		0.19	
Sodium	33.4	UJ	161	J	32.7	U	56.2	U	32.6	UJ	36.9	UJ
Thallium	0.45	U	0.5	U	0.44	U	2.3		0.74		0.5	U
Vanadium	7.9		8.7		15		6.2		10.5		8.4	
Zinc	29.1	J	24.4	J	83.7	J	203	J	28.8	J	23	J
Cyanide	0.05	R	1.2	J	0.48	J	0.22	J	0.05	R	0.15	J

CADRE Data Qualifier Sheet

Qualifiers

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Figures

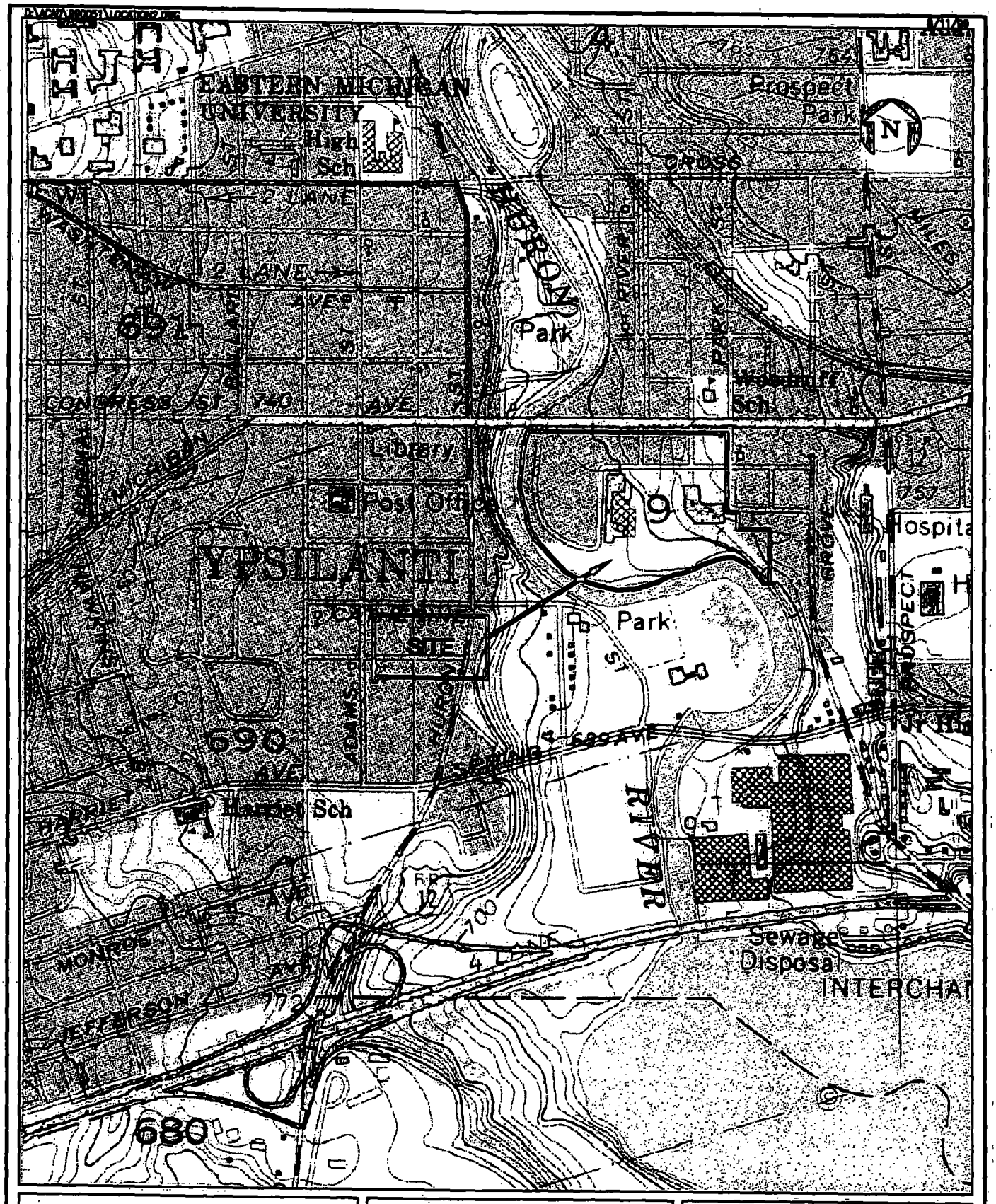


FIGURE 1
SITE LOCATION MAP

Source: ECT, 1998.

YPSILANTI BROWNFIELD PILOT PROJECT REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
The Beck Tower
1849 Washington Boulevard, Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

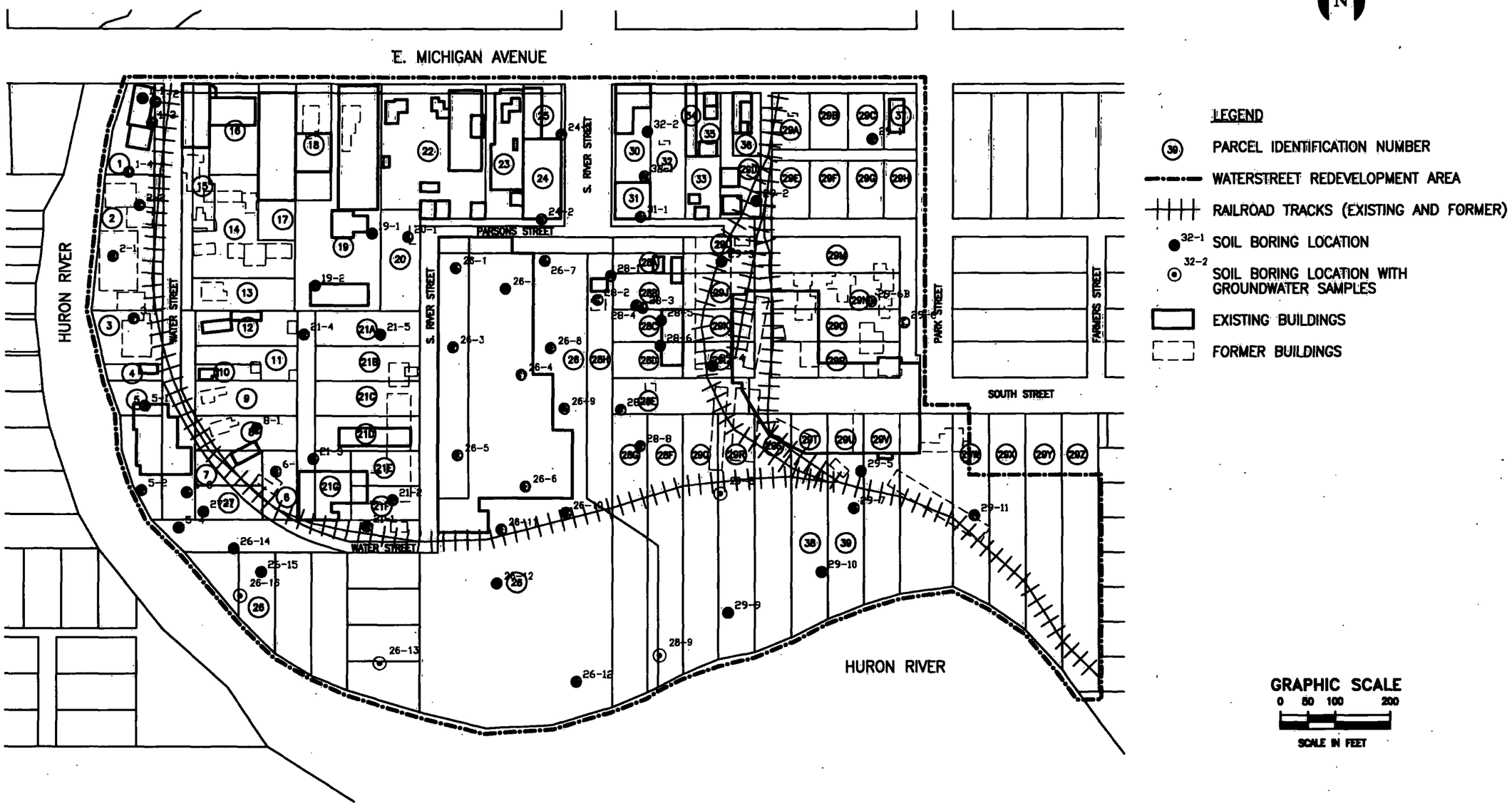


FIGURE 2
WATER STREET REDEVELOPMENT AREA SITE MAP

Source: ECT, 2000.

YPSILANTI BROWNFIELD PILOT PROJECT
WATER STREET REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Boulevard
Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

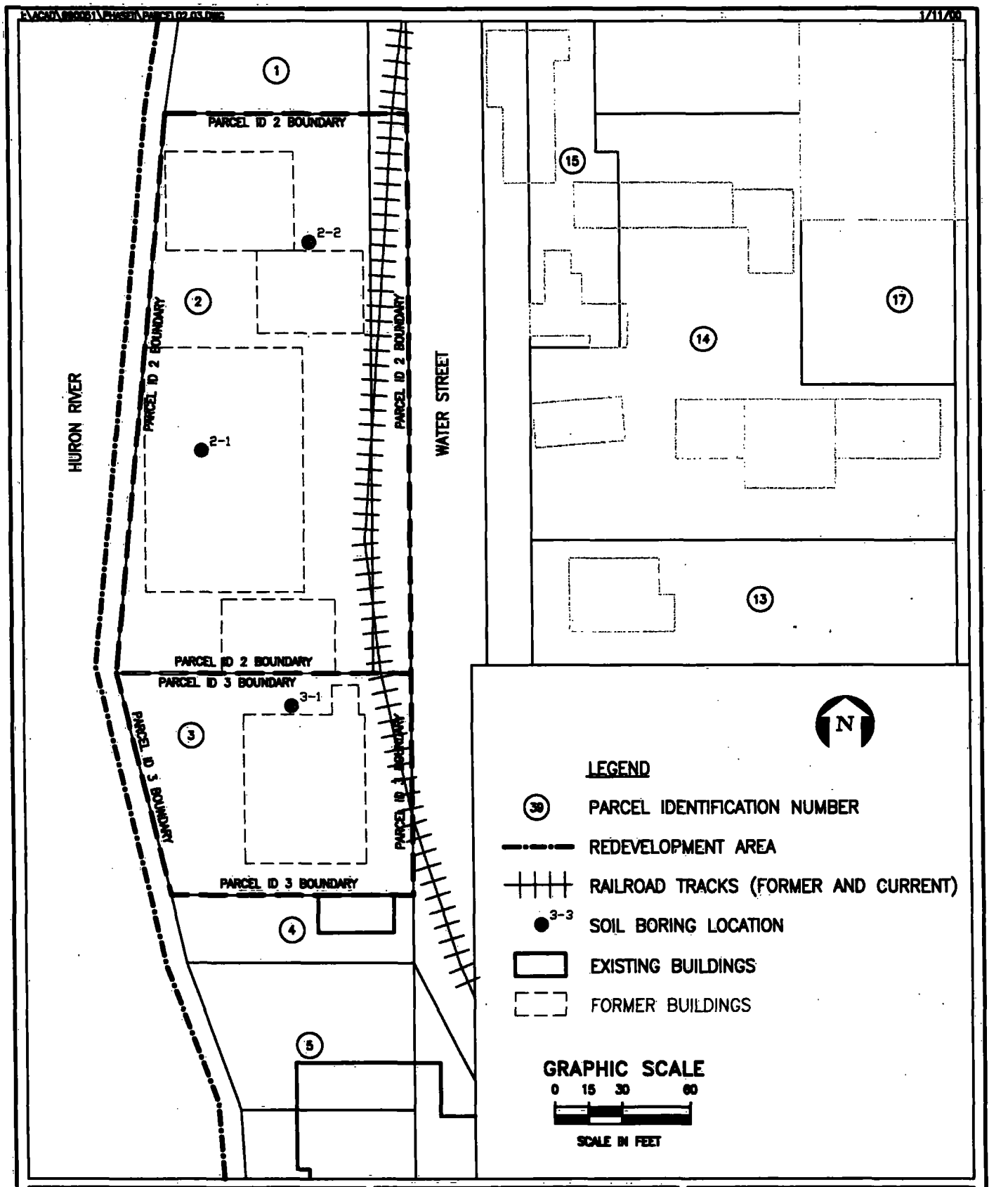


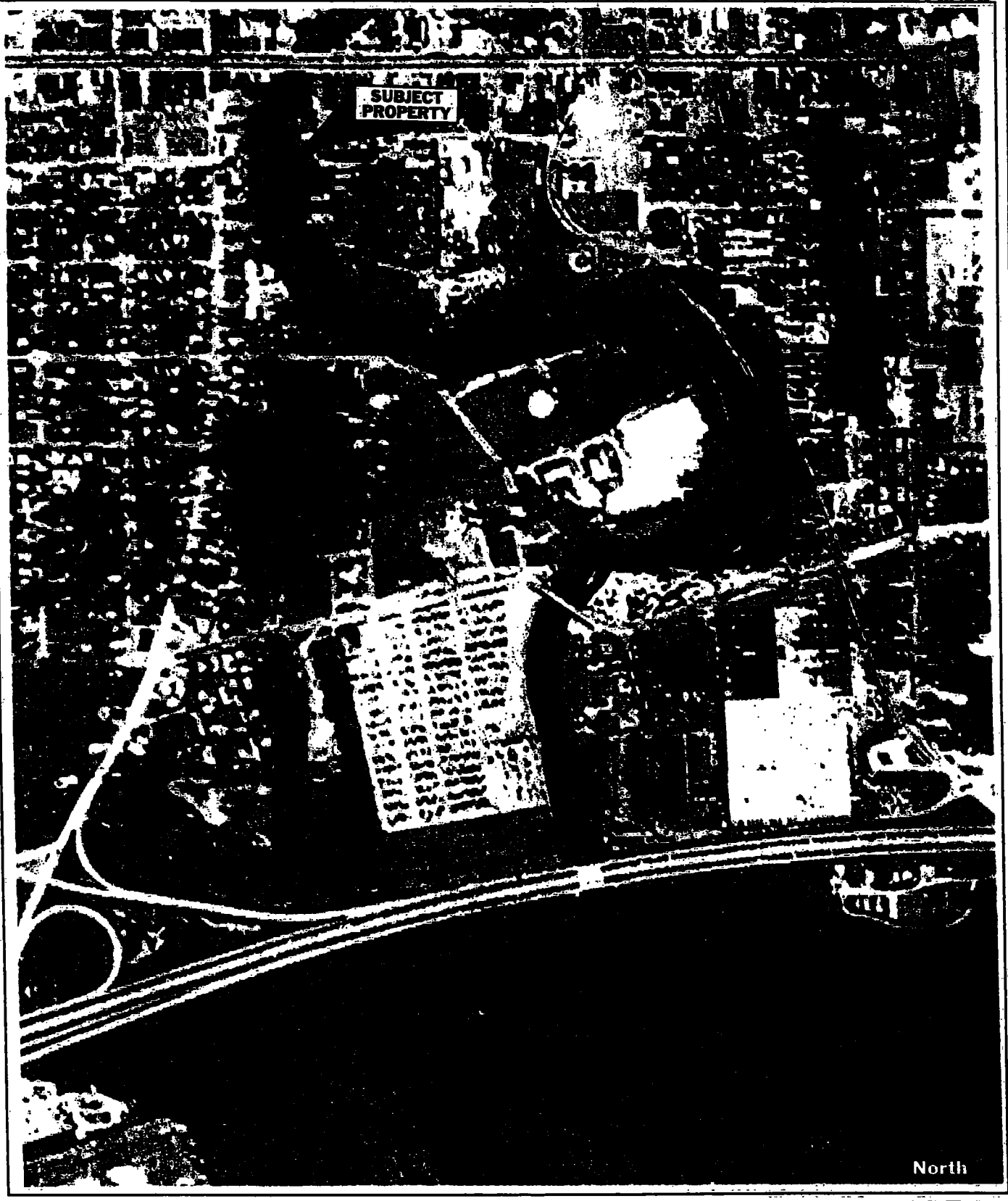
FIGURE 3.
PARCEL ID #2 AND #3
SITE MAP
Source: ECT, 2000.

REDEVELOPMENT AREA
14-22-28-30 WATER
YPSILANTI, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 3000
Detroit, Michigan 48226
Phone: (313) 963-6000 Fax: (313) 963-707

APPENDIX A

AERIAL PHOTOGRAPHS



1978 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

1969 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

1963 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3900
Detroit, Michigan 48226

1940 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

1978 AERIAL PHOTOGRAPH

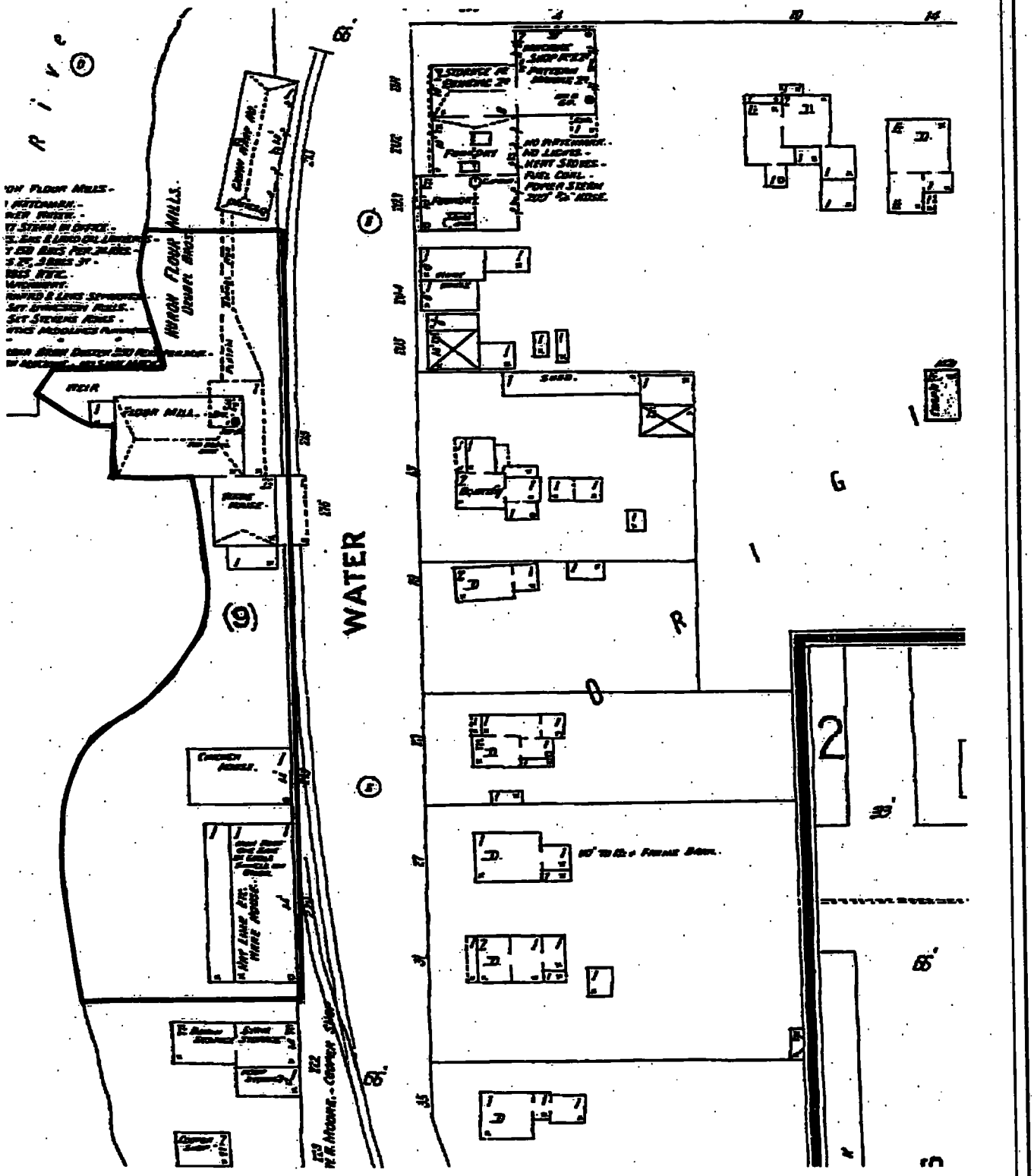
Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3300
Detroit, Michigan 48226

APPENDIX B

SANBORN FIRE INSURANCE MAPS

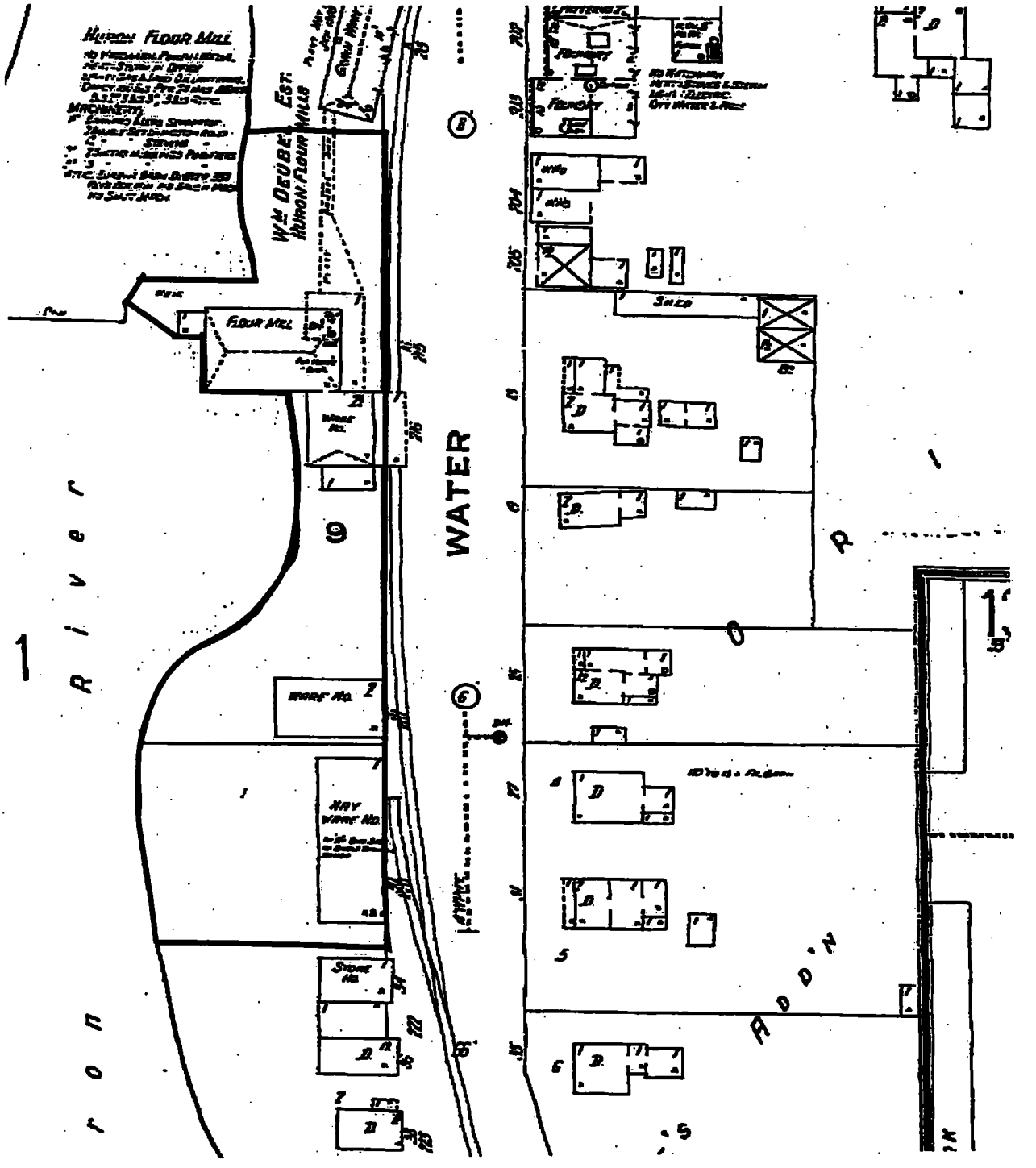


SANBORN FIRE INSURANCE MAP, 1899

Source: ECT, 1999

14-22-28-30 WATER ST.
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1940 Washington Blvd.
Suite 3500
Detroit, Michigan 48226



ADAPTED FROM SANBORN LIBRARY

North

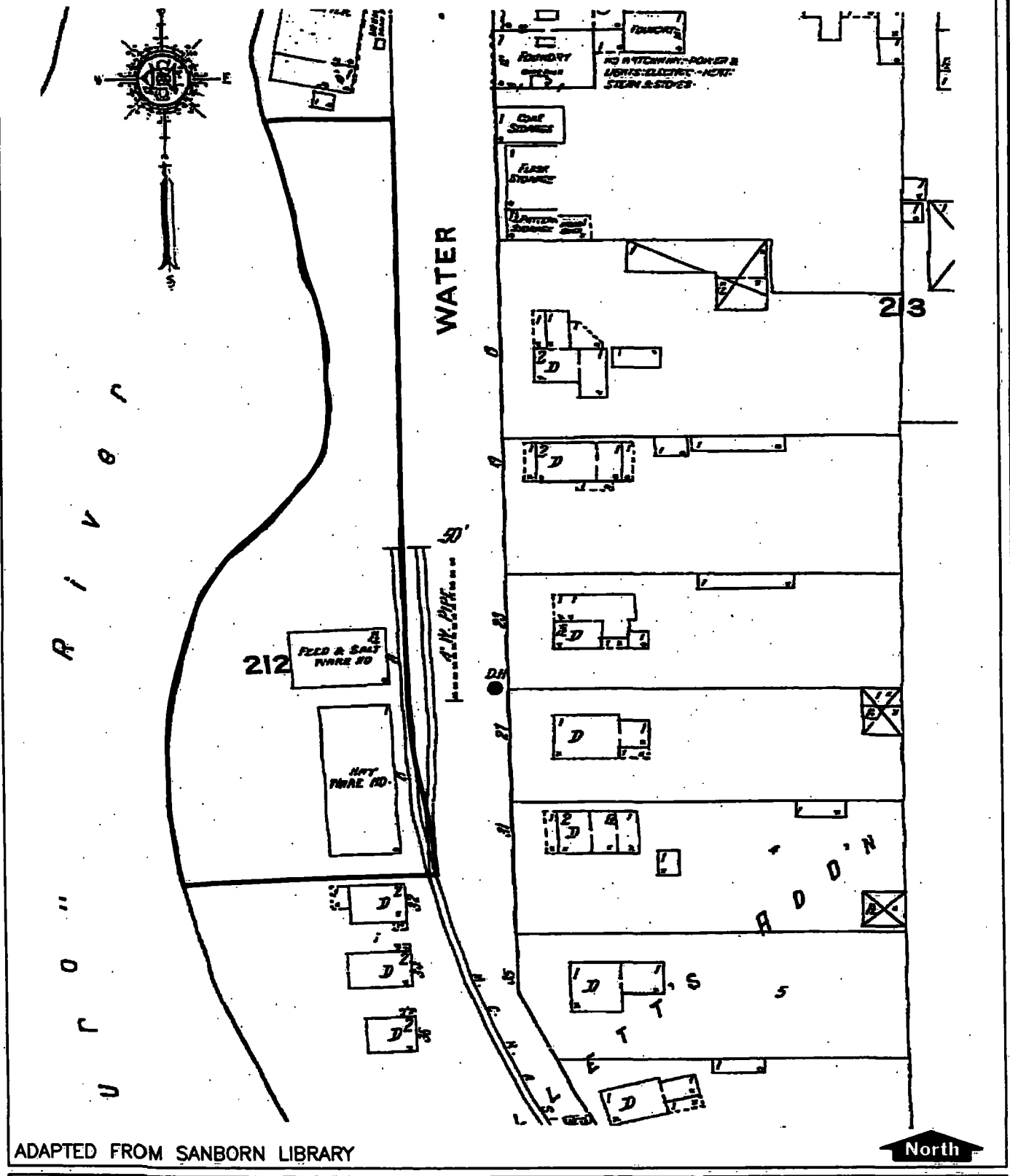
SANBORN FIRE INSURANCE MAP, 1909

Source: ECT, 1999

14-22-28-30 WATER ST.
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3800
Detroit, Michigan 48226

D:\SANBORN.DWG 07/19/99



ADAPTED FROM SANBORN LIBRARY

North

SANBORN FIRE INSURANCE MAP, 1916 Source: ECT, 1999	14-22-28-30 WATER ST. YPSILANTI WASHTENAW COUNTY	ECT Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226

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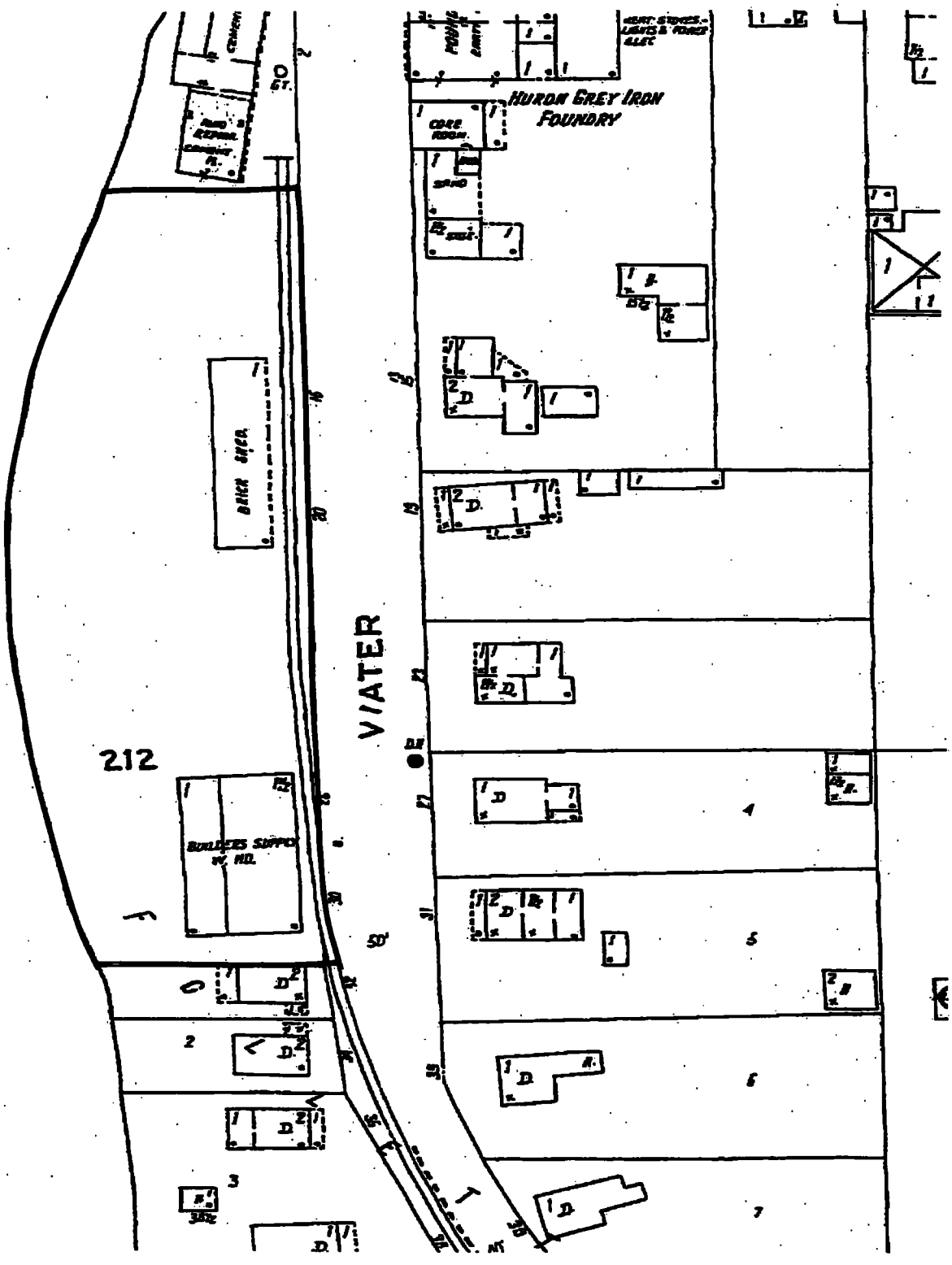


ADAPTED FROM SANBORN LIBRARY

North

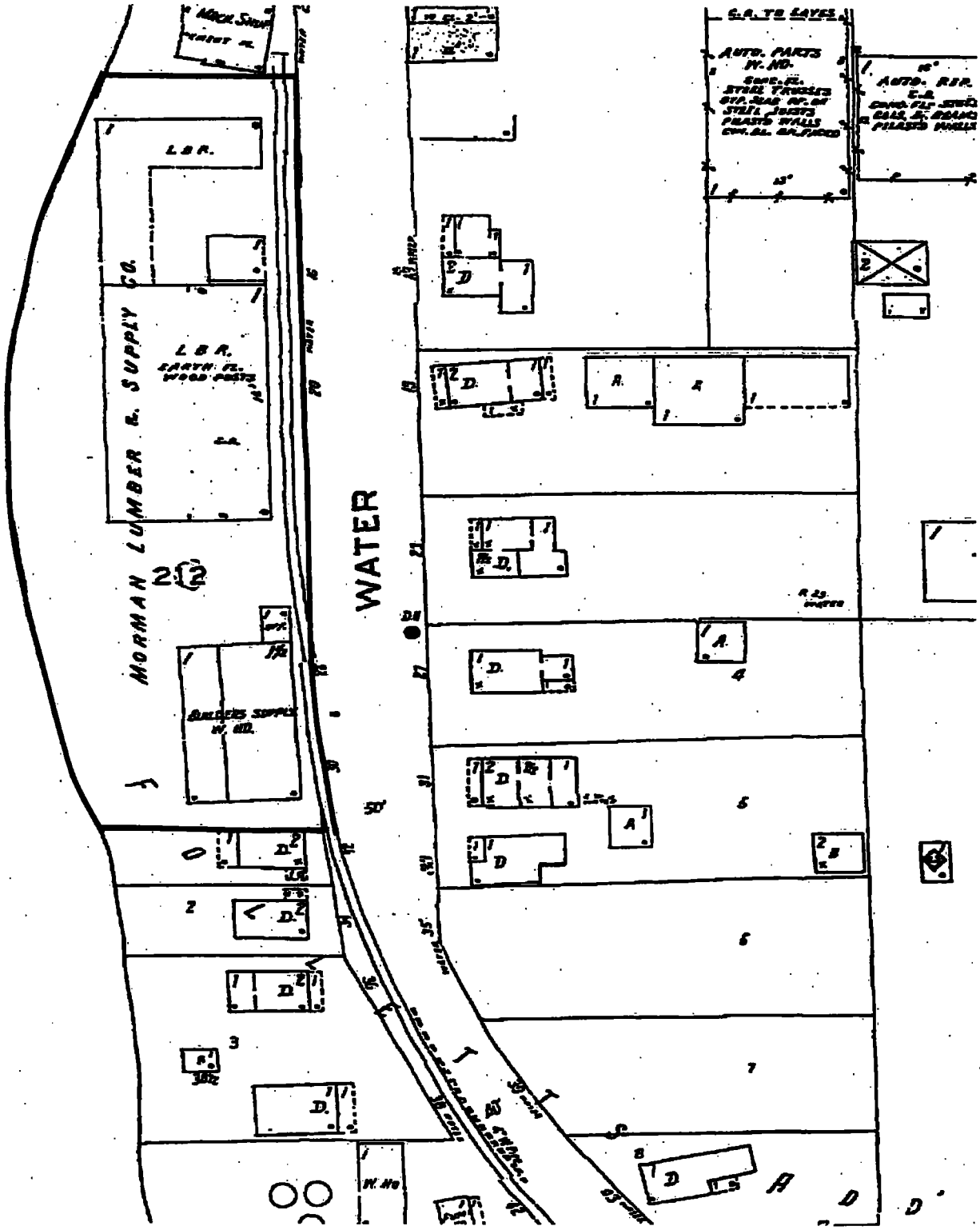
SANBORN FIRE INSURANCE MAP, 1927

Source: ECT, 1999

14-22-28-30 WATER ST.
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

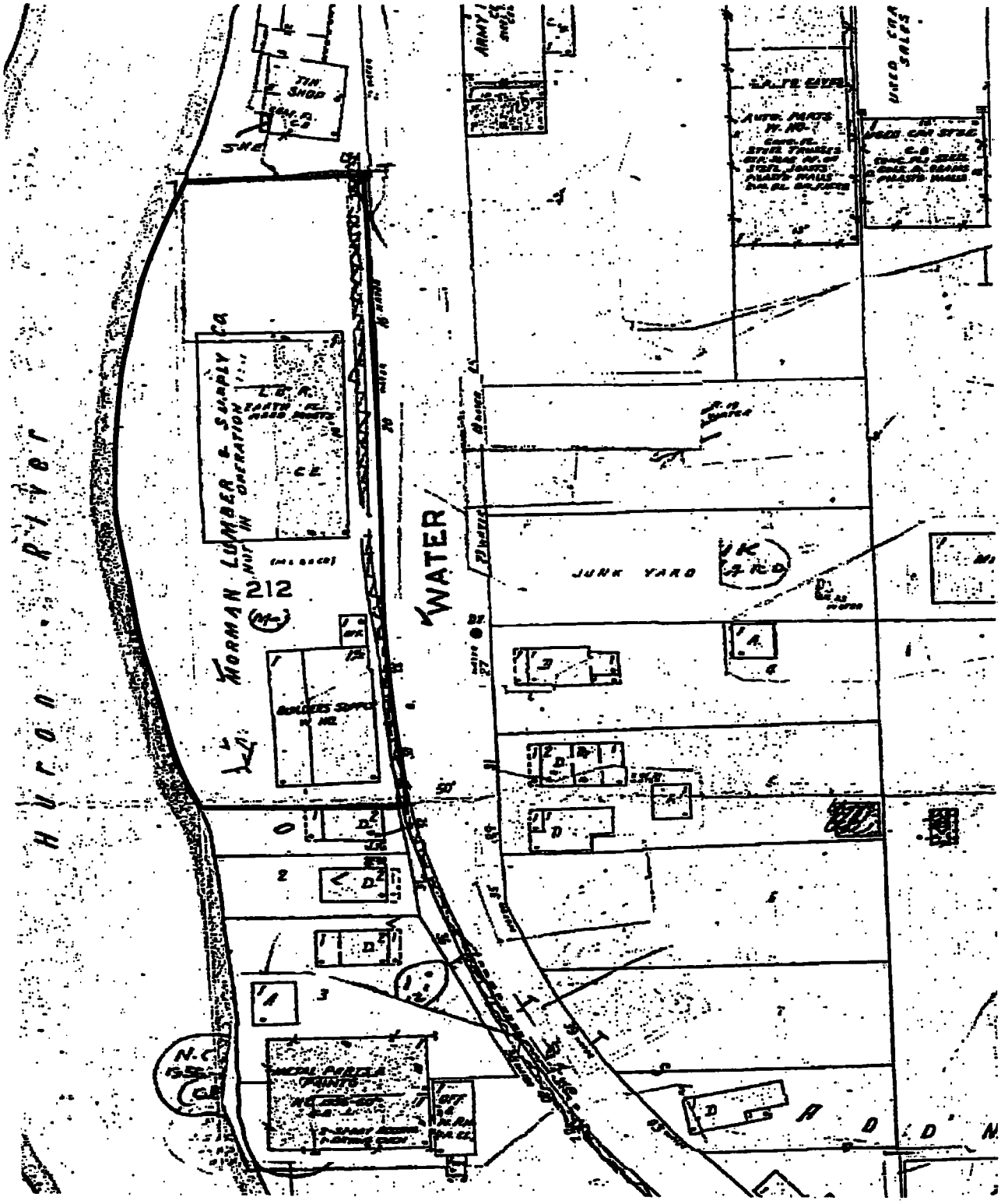
D:\SANBORN.DWG 07/19/99



ADAPTED FROM SANBORN LIBRARY

North

SANBORN FIRE INSURANCE MAP, 1950 Source: ECT, 1999	**14-22-28-30 WATER ST. YPSILANTI WASHTENAW COUNTY**	**ECT** Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226



ADAPTED FROM SANBORN LIBRARY

North

SANBORN FIRE INSURANCE MAP, 1964

Source: ECT, 1999

14-22-28-30 WATER ST.
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

Appendix C

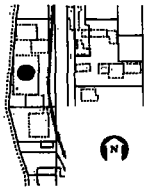
APPENDIX C

SOIL BORING LOGS

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	2-1	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Mostly Sunny, 65-75°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		3" of LOAM at surface, damp Light to dark brown SAND with fine to medium gravel, trace clay, dry to damp	
				2				
				3				
				4				
				5	30"		Dark brown SAND with fine to medium gravel, trace clay, damp to moist	
				6				
				7				
				8				
				9	20"		Light brown SANDY CLAY, moist to wet, trace fine to medium gravel	
				10				
				11				
	B			12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

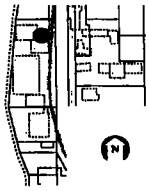
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	2-2	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Sunny, 70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	35"		2" LOAM, damp Light to dark brown SAND with fine to medium gravel, trace coal-like material, damp	
				2				
				3				
				4				
				5	35"		Dark brown SAND, trace clay, damp CLAY with sand, trace fine gravel, damp	
				6				
				7				
				8				
	B			9	24"		Light to dark brown SAND with fine to medium gravel, trace clay, moist to wet	
				10				
				11				
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

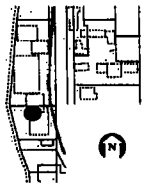
SAND · CASING · BENTONITE · WATER LEVEL

BACKFILL · SCREEN · CEMENT · bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	3-1	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Sunny, 70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	24"		2" LOAM, damp Light to dark sand some clay, trace fine to medium gravel, damp	
				2				
				3				
				4				
				5	24"		Light to dark brown SAND with clay, trace fine to medium gravel, moist	
				6			6" CLAY with sand, trace fine gravel, wet	
				7				
				8				
	B			9	20"		Light brown SAND with fine to medium gravel, trace clay, moist to wet	
				10				
				11				
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

Parcel #5 & #27

ENVIRONMENTAL SITE ASSESSMENT
HIGH SCOPE PROPERTY
Parcels #5 and #27
34-40 WATER STREET
YPSILANTI, MICHIGAN

PREPARED BY:

ECT

Environmental Consulting & Technology, Inc.

1249 WASHINGTON BLVD.
SUITE 3500
DETROIT, MICHIGAN 48226

JUNE 2000
PROJECT NO: 99-0051-0100

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APPENDIX B	SANBORN FIRE INSURANCE MAPS
APPENDIX C	ENVIRONMENTAL DATABASE
APPENDIX D	BORING LOGS

1.0 EXECUTIVE SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the facility and property located at 34-40 Water Street in the City of Ypsilanti, Washtenaw County, Michigan. The property consists of one irregular shaped, contiguous parcel of land. One building is located on the subject property which is 9,036 ft^2 in area.

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. No unusual odors or stressed vegetation were observed during the site reconnaissance. No ground staining or other evidence of material spilling or mishandling was observed.

The subject property and neighboring sites were visually inspected for the presence of USTs and ASTs, with no evidence indicating the presence of any tanks. The visual inspection of this property did not indicate the presence of any PCB containing equipment on the site or in the immediate vicinity of the site. However, there were two pole mounted transformers in front of the building. These transformers are unlabeled as to potential PCB content, thus they should be considered suspect PCB-containing transformers. No evidence of any leaks or deterioration of the transformers was observed. In the event of any future release or transformer maintenance or disposal, the oil coolants should be analyzed for possible PCB content and handled accordingly. No evidence was discovered during the assessment of the site that would indicate that any unnatural fill materials or land filling had occurred on the site. No suspect asbestos containing materials (ACMs) were observed during the site reconnaissance.

A review of the regulatory history of the site and area and other historical records was conducted in order to assure that no potentially environmentally impairing activities or conditions had occurred in the past or might be currently occurring with regard to the site.

The records review did not reveal the presence of recognized environmental conditions in the area of the subject property that could potentially impair the environmental condition of the subject property. Federal, State, and local environmental records were reviewed and a commercial database search was commissioned. These included the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Resource Conservation and Recovery Information System (RCRIS), Emergency Response Notification System (ERNS), Hazardous Materials Incident Report System (HMIRS), Toxic Release Inventory System (TRIS), and Toxic Substances Control Act (TSCA) databases. They also included the State Hazardous Waste Sites (SHWS), registered underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, and landfill sites. The result of this review has indicated the presence of UST, LUST, and SHWS sites located within the one mile radius of the subject property, however, a review of the available file information for the sites has indicated that no release has been discovered which would have migrated onto the subject property.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and evidence has come to light which would indicate that potential recognized environmental conditions exist with regard to the subject property. Although no evidence was discovered indicating the current existence of subsurface impairment and no operations currently exist that may have adversely impaired the subject property, historical records indicate a history of a bulk gasoline station with tanks located on the subject property. Based on the long history of commercial use of the subject property and nearby properties, ECT recommended a subsurface environmental evaluation be performed. It is recommended that soil borings be advanced across the subject property and that the soils be evaluated for the presence of metals and petroleum based products. Should odors or soil staining be observed, various volatile organic and PCB analyses would be recommended. Also, the current owner of the property acquired 500 feet of railroad

easement in front of the existing building. The easement is now paved so that soils near the tracks, which still exist, could not be inspected.

Five GeoProbe soil borings were advanced on the parcel, with two soil samples collected from each, one from the surface and one from a depth of 8 to 12 feet below the surface. The results reveal the presence of several trace metals at concentrations exceeding State of Michigan residential cleanup criteria. It is possible that these trace metals levels are representative of local or regional background concentrations. In any case, because of the slightly alkaline pH of the soils, the potential for migration of these metals is reduced. A further assessment of the trace metals concentrations at this property is warranted, with the objectives of a broader evaluation of the local background levels and the potential for leaching of the metals from the soil.

Surface soil samples were also found to contain petroleum-related organic compounds at levels that exceed the state residential cleanup criteria. Further investigation is warranted to determine the extent of these impacts.

2.0 PURPOSE AND SCOPE

Environmental Consulting & Technology, Inc. (ECT) was retained by the Community and Economic Development Department of the City of Ypsilanti under the Brownfield Redevelopment Pilot Project to conduct a Phase I/Phase II Environmental Site Assessment of the facility and property, commonly known as the High Scope property, located at 34-40 Water Street in the City of Ypsilanti, Michigan. The objective of this assessment was to evaluate the present environmental condition of the property for potential environmental impairment or contamination at the site based on available information that, if present, may result in unacceptable financial and ownership risks and liability. This assessment was conducted during the period of March 25, 1999 through July 2, 1999, with the physical site investigation conducted on June 9, 1999 by Mr. Joseph O'Brien, Senior Scientist with ECT. This environmental site assessment was based upon information collected through the following activities:

- Visual assessment of the property and structures.

- Evaluation of potential environmental impacts from proximate properties.

- Evaluation of past site usage through the review of historical maps/photographs, governmental regulatory agency data, historical records, and discussions with persons familiar with the site and local area.

- Review of available environmental incident reports contained in records and databases from the appropriate regulatory agencies.

- Review of known sites of contamination from the state and federal agency sources,

including the CERCLIS, NPL, Landfill lists, LUST sites, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, and other available sources.

- A review of registered USTs and Aboveground Storage Tanks (ASTs) in the proximate area.

- A visual survey of construction materials to determine whether suspect asbestos containing materials (ACMs) are present.

- A survey of the electrical equipment which may have PCB containing oils.

- A preliminary subsurface investigation consisting of Geoprobe borings and soil sampling and analysis.

3.0 PHYSICAL SITE ASSESSMENT

3.1 SITE LOCATION

The subject property, commonly known as the High Scope property, is located at 34-40 Water Street in the City of Ypsilanti, Washtenaw County, Michigan (Figure 1). The subject property, as indicated on the Ypsilanti East Quadrangle U.S.G.S. 7.5 minute topographic map, is located in Section 9, Township 3 South, Range 7 East, City of Ypsilanti, County of Washtenaw, State of Michigan. The property is located in Ypsilanti's Water Street Redevelopment Area, shown in Figure 2.

3.2 GENERAL SITE DESCRIPTION

The property consists of one irregular shaped, contiguous parcel of property. One building is located on the subject property. The building is constructed of cinder blocks and is resting on a slab on grade floor. The building consists of office and warehouse space. The warehouse is used to for the storage of materials that are printed off-site. There is a Dumpster located on the east side of the building with two semi-truck trailers behind it. The semi-truck trailers are kept on-site for storage purposes. The trailers contain office furniture, such as, desks, shelves and file cabinets. There are no chemicals stored inside the semi-truck trailers or inside the building.

The subject property is located on the west side of Water Street. Huron River is located west of the subject property. The building is located approximately in the center of the property that is 9,036 ft^2 in area. The rest of the subject property is either gravel parking area or covered with grass.

Geologic information was obtained from available U.S. Geological Survey reports, U.S.G.S. topographic maps, and other available local geological informational papers. The site elevation is approximately 700-750 feet above mean sea level (ft-msl) as indicated on the

U.S.G.S. Ypsilanti East Quadrangle topographic map. The property has a slight westerly topographic dip, although it is generally flat lying.

3.3 SOLID AND HAZARDOUS WASTES

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. Items which typically represent the potential for environmental contamination include chemical spills and leaks, dead or dying foliage, ground discoloration and disturbances, unusual odors, and the improper storage of solid, liquid, or gaseous products and wastes. No unusual odors or stressed vegetation were observed during the site reconnaissance. No visual indication of historical hazardous material storage or disposal resulting in possible adverse site impairment was discovered during the site reconnaissance on the subject property or adjacent properties. No ground staining or other evidence of material spilling or mishandling was observed. No evidence was encountered that hazardous material dumping had occurred.

3.4 STORAGE TANKS

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. No evidence of the presence or former presence of USTs or ASTs located on the subject property or on adjacent properties was observed. No fill ports or vent pipes were observed on the subject property. A review of historical UST locations in the area is included in Section 5.0.

3.5 POLYCHLORINATED BIPHENYLS

PCBs are toxic coolant or lubricant oils used in some electrical equipment, transformers, capacitors, fluorescent light ballasts, and hydraulic systems. The visual inspection of this property did not indicate the presence of any PCB containing transformers or equipment on the site or in the immediate vicinity of the site. However, there were two pole mounted transformers in front of the building. These transformers are unlabeled as to potential PCB

content, thus they should be considered suspect PCB-containing transformers. No evidence of any leaks or deterioration of the transformers was observed. In the event of any future release or transformer maintenance or disposal, the oil coolants should be analyzed for possible PCB content and handled accordingly.

3.6 ASBESTOS CONTAINING MATERIALS (ACMs)

A visual survey of building materials was conducted to determine whether suspect ACMs were present on the subject site. Asbestos was used primarily in the 1950s through 1970s in a wide variety of construction and insulative materials. It has been found in roofing and flooring materials, ceiling tiles, and insulation materials. Asbestos can become an environmental or health risk when the asbestos fiber is released and inhaled or ingested. ACMs present environmental risks when exposed or disturbed. No suspect ACMs were observed during the site reconnaissance.

3.7 FILL MATERIALS

No evidence was discovered during the assessment of the site that would indicate that any unnatural fill materials or land filling had occurred on the site.

4.0 CURRENT LAND USE

The subject property and surrounding properties along Water Street are principally involved with various retail, packaging/distribution, commercial or office operations. No heavy manufacturing or large quantity chemical use operations were observed within the area or on the subject property.

The subject property is occupied by the High Scope building and gravel parking areas. The building is separated into office and warehouse space. The warehouse is used for storage of materials that are printed off-site. Neighboring properties include industrial garages, vacant property, and residential homes along Water Street.

5.0 SITE HISTORY AND RECORDS REVIEW

A site history was compiled by researching the records maintained at applicable federal, state, county and local regulatory agencies, including a commission of an environmental database. The database searched was based on a radius search of the site and area. The regulatory file review was performed in order to confirm that information which was presented on the database and to search for any sites that may have been missed by the data search. In addition, those sites that were in close enough proximity to the site or which were of concern were investigated in greater detail. These included the United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, landfill databases, UST and LUST information, and state and local Fire Marshal records.

5.1 AERIAL PHOTOGRAPHY

Available aerial photography of the site and surrounding area was reviewed. Aerial photographs were reviewed for the years 1940, 1963, 1969 and 1978. The 1940 and 1963 aerials indicated that aboveground storage tanks were located on the southern portion of the subject property, the northern portion of the subject property was used for residential purposes. The 1969 and 1978 aerials indicated that the property appears as it does today. Copies of the aerial photographs are included in Appendix B.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps are historical map records primarily used by insurance companies to assess fire risks for a particular property and can offer valuable information regarding the presence of USTs, ASTs, and types of businesses and operations that have occupied a particular property. A search for available Sanborn Fire Insurance maps was performed for the years 1916, 1927, 1950 and 1964. The 1916 Sanborn indicated that subject property was vacant. The 1927 and 1950 Sanborns indicated that the subject site was used for residential purposes, in addition, a bulk gasoline station with several aboveground

storage tanks was also located on the subject property. The 1964 Sanborn indicated that a metal parts and paint operation was located on the subject property. The Sanborns indicated historic environmental concern for the subject property, primarily for metals, solvents and petroleum products. Copies of the Sanborn maps for the subject property and area are included in Appendix C.

5.3 STREET INDEX DIRECTORIES

Polk Street Index Directories were reviewed at the Ann Arbor Public Library in Ann Arbor, Michigan. These directories are used to provide historical information pertaining to the name addressed to a particular property. Polk Street Index Directories were available for the area back into the late 1980's. The directories indicated that the subject property was occupied by Amco, a boat repair shop, from the early 1990's to the mid 1970's. Prior to Amco, the property was occupied by Tempcor Industrial Services, an automotive finishing shop, from the mid 1970's to the mid 1960's. From the mid 1960's the subject property was divided into three parcels. The two parcels located at 34 and 36 Water Street were used for residential purposes from the mid 1960's to the early 1930's. The parcel located at 40 Water Street was occupied by Melco Corporation who was involved with plating operations from the mid 1960's to the mid 1950's. Prior to Melco Corporation, the subject property was occupied by Sinclair Refining Co., a tank yard was located at this site. Sinclair Refining Co. occupied the property from the mid 1950's to the early 1930's.

5.4 REGULATORY FILE REVIEW

The purpose of the regulatory file review is to obtain and review records that will help identify potential environmental concerns in connection with the property or adjoining properties. The primary source of this information is the EDR report (see Appendix D) which presents the findings of a computerized environmental records search for the subject property, adjoining properties, and nearby properties (Inquiry Number 341436 - February 25, 1999). The EDR report documented available information historically found on the following databases: United States Environmental Protection Agency (USEPA) CERCLIS,

NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, SHWS, landfill databases, UST and LUST information, and state and local Fire Marshal records.

The CERCLIS and NPL databases are prepared under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) by the USEPA. The NPL sites are those sites most in need of remediation and clean-up as promulgated by the EPA and the CERCLIS sites are those under investigation for possible placement on the NPL list. Of the sites listed for the State of Michigan, and those specifically indicated within the radius area, no NPL or CERCLIS sites were found to be located within a one mile radius of the subject property.

As indicated in the EDR report, three State Hazardous Waste Sites and no landfill sites were identified to be located within a one mile radius of the subject property, none being located on the subject property or adjacent properties, with no evidence to suggest that the subject property may have been adversely environmentally impaired by these sites.

The State of Michigan UST and LUST databases were reviewed. The review indicated that numerous registered UST and LUST sites exist within the area, none being located on the subject property.

A search of the ERNS, SPILLS, TRIS, HMIRS, and Department of Transportation (DOT) records was conducted. The subject property was not found in any of the records.

The HWDMS/RCRIS, and TSCA databases were reviewed. This information indicates the names and addresses of those facilities which generate, store, or dispose of hazardous materials and wastes. This information also indicates the facilities which release toxic reportable quantities of chemicals into the air, water, or land. These facilities are regulated and reviewed by the appropriate federal agencies and must conform with the regulatory acceptable limits and guidelines. These databases only indicate the presence of these types

of facilities and do not reflect whether the sites may be contaminated or not in compliance. Based on the nature of the surrounding area, some nearby sites can be found on the database, however, no indication of the potential for direct environmental impairment to the subject property was discovered.

5.5 OTHER HISTORICAL INFORMATION

A site title history was compiled using records available at the Washtenaw County Register of Deeds offices in Ann Arbor, Michigan. The subject property is comprised of three lots of land; 34, 36 and 40 Water Street. The property was historically held by residential and commercial.

The current owner of the subject property, which includes 34, 36 and 40 Water Street, is High Scope. More specifically, High Scope obtained the property on December 4, 1990 (L.2459, P.819) from Donald Moore. Donald Moore obtained the property on November 30, 1988 (L. 2279, P.524) from Alan Moore, also known as Amco Marine. Alan Moore obtained the property on August 21, 1974 (L. 1488, P.755) from Tempcor Industrial Services. Tempcor obtained lots 34 and 36 Water Street from residential parties. Tempcor obtained lot 40 on April 19, 1968 (L. 1241, P. 405) from Melco Corporation.

6.0 PHASE II SITE INVESTIGATION

6.1 SCOPE OF INVESTIGATION

The investigation at Parcels 5 and 27 consisted of advancing five Geoprobe borings, one to a depth of 7.5 feet below surface grade (bsg), four to a depth of 12 feet bsg. Two soil samples were collected from each boring, one from the surface 0-1 ft, designated sample 'A', the second, designated 'B', from the capillary fringe or other feature, as discussed below.

6.2 INVESTIGATION METHODS

All investigation activities are described in the Quality Assurance Project Plan, the Work Plan/Sampling and Analysis Plan, and the associated Standard Operating Procedures. The following sections provide a brief overview of the methods employed in the investigation.

All soil and groundwater samples collected for laboratory analysis were placed into the appropriate containers in the order of the selected analysis, as follows:

1. Volatile Organic Compounds
2. Semi-Volatile Organic Compounds
3. Polychlorinated Biphenyls & Pesticides
4. Cyanides
5. Metals

All soil samples were collected in the appropriate precleaned (to EPA specifications) containers and stored following United States Environmental Protection Agency (USEPA) Publication SW-846 Method 5035/ASTM D4547-91, final version of March 26, 1998, *Testing Methods for Evaluating Solid Waste*. All soil sample containers were labeled in accordance with the QAPP

Temporary Monitoring Well Installation

No temporary monitoring wells were installed on these parcels.

Soil Sampling

Soil samples was collected for laboratory analysis based on one or more of the following criteria:

1. Known and/or suspected depth of release (e.g. surface stain, deep machine pit, etc.)
2. Visual identification of soil staining
3. Concentrated petroleum based odors
4. Highest PID level reading
5. Sand to clay interface

Soil samples collected for parameters other than VOCs were homogenized in a stainless-steel bowl with a stainless-steel spoon prior to placement in appropriate sample containers. Following use of the stainless-steel bowl and spoon, this equipment was decontaminated in accordance with ECT SOP-4.

When sampling with a Geoprobe®, the drilling contractor followed the American Society for Testing and Materials publication ASTM D-4700. Using hydraulic drive core/direct-push (Geoprobe®) sampling techniques, continuous soil samples were collected from the soil borings at four-foot intervals, according to ASTM. A clean, plastic sampling sleeve was used for each sample interval. The stainless steel coring sleeve was decontaminated between each boring.

Upon completion of boring, the borehole was backfilled with any remaining cuttings. At a minimum, the upper two feet of the borehole was backfilled with bentonite pellets. Surface materials, such as pavement, asphalt, soil, etc., were utilized to restore the site to its original condition.

Soil samples collected for volatile organic compound (VOCs) analysis were containerized following guidelines established by the USEPA in "*Soil Sample Collection and Methanol Preservation for Volatile Analysis*" and adopted by the Michigan Department of Environmental Quality, Environmental Response Division (MDEQ, ERD) in "*Procedure: Methanol Preservation of Soil VOC Samples, Environmental Response Division,*" Draft, June 3, 1999.

All weight measurements in this procedure were recorded in an ECT field log book or field form during sample collection. The field sampler will also document the use of the MDEQ guidance in their field logbook and/or on the appropriate field forms whenever collecting samples with methanol preservation on this project.

If no other unpreserved soil samples from the same sample location are being sent to the selected laboratory for analysis (i.e., BNAs, PCBs, Metals, etc.), then approximately 50 grams of soil will also be placed in a clean glass jar without preservative, properly labeled and sent along with the corresponding methanol preserved sample for analysis of percent solids. The properly labeled sample jars will be placed in a bubble wrap bag and secured in an ice-cooled container for shipment to the laboratory for analyses.

Groundwater Sampling

No groundwater samples were collected from these parcels.

Investigation Results

The boring locations are shown on Figure 3 and the logs of the borings are included in Appendix E.

Soils encountered in the borings were typically a mixture of sands and gravels. Boring 5-1, located to the north of the High Scope building, contained apparent fill material consisting of brick and wood fragments. Saturated soils indicative of groundwater were observed in

each boring at depths of 8 to 10 feet. In two of the borings, 5-4 and 27-1, petroleum-like odors were observed at depths of 10 and 8 feet, respectively. In addition, a small amount of asphalt-like material was found in boring 5-4 at a depth of about 6 feet.

The laboratory analytical results for the eight soil samples are summarized in Table 1. For volatile organic compounds (page 1 of 4), elevated analytical detection limits reduce the utility of the data. Several semivolatile organic compounds (page 2 of 4), namely polynuclear aromatic hydrocarbons (PAHs) were detected in samples from boring 5-4 and 27-1 at levels that exceed the State of Michigan Residential Cleanup Criteria. However, due to laboratory conditions, reflected by the flags in the data tables, many of the concentrations are reported as estimates. No pesticides or PCBs (page 3 of 4) were detected at levels exceeding the state criteria. The analytical results for trace metals and cyanide reveal that several elements exceed the State of Michigan default background levels, and in several cases the concentrations exceed the criteria for protection of the groundwater-surface water interface (GSI). For example, all samples contained chromium and cobalt concentrations exceeding the GSI protection criteria. One surface soil sample (5-4A) contained lead at a concentration (718 mg/kg) above the Residential Direct Contact criterion.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the property, commonly known as High Scope, located at 34-40 Water Street in the City of Ypsilanti, Washtenaw County, Michigan.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and evidence has come to light which would indicate that potential recognized environmental conditions exist with regard to the subject property. Although no evidence was discovered indicating the current existence of subsurface impairment and no operations currently exist that may have adversely impaired the subject property, historical records indicate a history of a bulk gasoline station with tanks storing gasoline and kerosene located on the subject property. Based on the long history of commercial use of the subject property and nearby properties and the detection of hydrocarbons in soil samples at levels exceeding residential criteria, ECT recommends additional subsurface environmental evaluation. The objectives of this additional investigation will be to delineate the extent of impacts in the vicinity of borings 5-3, 5-4, and 27-1, and to evaluate local background metals concentrations, and the potential mobility of metals in soils on the property.

8.0 QUALIFICATIONS

This assessment was performed by ECT with standard professional practice using the degree of skill and care exercised for similar projects. The conclusions given by ECT are based on an audit effort to obtain and review reasonably available information on the site and adjacent sites. We have relied upon information provided to us by others and on the accuracy and completeness of the available information. No warranty or conclusions other than those expressly contained within this report are implied or intended. ECT can offer no assurances and assumes no responsibility for the site conditions or activities which were outside the scope of work requested.

Table 1. Analytical Summary Table
Parcel #5 and #27
Page 1 of 4: Volatile Organic Compounds

Sample Number :	EDER0		EDER1		EDEW5		EDEW7		EDEW8		EDEW9		EDEW3		EDEW4		EDEW1		EDEW2	
Sampling Location, Depth :	5-1A, 0-1 ft		5-1B, 6-7 ft		5-2A, 0-1 ft		5-2B, 5-6 ft		5-3A, 0-1 ft		5-3B, 8-9 ft		5-4A, 0-1 ft		5-4B, 9-10 ft		27-1A, 0-1 ft		27-1B, 10-11 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	15:45		16:00		10:40		11:00		11:10		11:15		10:10		10:20		10:00		10:05	
%Moisture :	6		10		7		15		10		19		6		5		3		23	
pH :	7.6		6.9																	
Dilution Factor :	10.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	21,000	UJ	23,000	UJ	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Chloromethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Vinyl Chloride	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Bromomethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Chloroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Trichlorofluoromethane	21,000	UJ	23,000	UJ	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,1-Dichloroethene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Acetone	330,000		370,000		220,000	J	400000	J	300000	J	360000	J	410,000	B	430,000	B	420,000	J	360,000	J
Carbon Disulfide	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Methyl Acetate	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	3,600	J	36,000	U	28,000	UJ	30,000	UJ
Methylene Chloride	97,000	J	180,000	J	38,000		14000	J	13000	J	15000	J	6,600	J	6,400	J	28,000	UJ	30,000	UJ
trans-1,2-Dichloroethene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
tert-Butyl Methyl Ether	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,1-Dichloroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
cis-1,2-Dichloroethene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
2-Butanone	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	16,000	J	16,000	J	14,000	J
Chloroform	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,1,1-Trichloroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Cyclohexane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Carbon Tetrachloride	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Benzene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,2-Dichloroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Trichloroethene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Methylcyclohexane	21,000	UJ	23,000	UJ	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,2-Dichloropropane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Bromodichloromethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
cis-1,3-Dichloropropene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
4-Methyl-2-pentanone	21,000	U	23,000	U	33,000	UJ	24000	UJ	23000	UJ	26000	UJ	61,000		61,000		57,000	J	30,000	UJ
Toluene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	3,800	J	36,000	U	28,000	UJ	30,000	UJ
trans-1,3-Dichloropropene	21,000	UJ	23,000	UJ	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,1,2-Trichloroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Tetrachloroethene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
2-Hexanone	21,000	UJ	23,000	UJ	33,000	UJ	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Dibromochloromethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,2-Dibromoethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Chlorobenzene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Ethylbenzene	45000		42,000		65,000		71000	J	56000	J	60000	J	46,000		47,000		41,000	J	37,000	J
Xylenes (total)	160,000		150,000		190,000		210000	J	160000	J	180000	J	180,000		190,000		150,000	J	140,000	J
Styrene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Bromoform	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
Isopropylbenzene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,1,2,2-Tetrachloroethane	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,3-Dichlorobenzene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,4-Dichlorobenzene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,2-Dichlorobenzene	21,000	U	23,000	U	33,000	U	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,2-Dibromo-3-chloropropane	21,000	UJ	23,000	UJ	33,000	UJ	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ
1,2,4-Trichlorobenzene	21,000	UJ	23,000	UJ	33,000	UJ	24000	UJ	23000	UJ	26000	UJ	34,000	U	36,000	U	28,000	UJ	30,000	UJ

Table 1. Analytical Summary Table
Parcel #5 and #27
Page 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDER0		EDER1		EDEW5		EDEW7		EDEW8		EDEW9		EDEW3		EDEW4		EDEW1		EDEW2	
Sampling Location, Depth :	5-1A, 0-1 ft		5-1B, 6-7 ft		5-2A, 0-1 ft		5-2B, 5-6 ft		5-3A, 0-1 ft		5-3B, 8-9 ft		5-4A, 0-1 ft		5-4B, 9-10 ft		27-1A, 0-1 ft		27-1B, 10-11 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	15:45		16:00		10:40		11:00		11:10		11:15		10:10		10:20		10:00		10:05	
%Moisture :	6		10		7		15		10		19		6		5		3		23	
pH :	7.6		6.9																	
Dilution Factor :	10.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330	UJ	350	UJ	340	UJ	380	UJ	340	UJ	400	UJ	400	UJ	420	UJ	11,000	UJ	370	UJ
Phenol	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	24	J	11,000	UJ	370	UJ
bis-(2-Chloroethyl) ether	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2-Chlorophenol	27	J	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2-Methylphenol	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2,2'-oxybis(1-Chloropropane)	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Acetophenone	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	44	J	540	J	370	UJ
4-Methylphenol	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
N-Nitroso-di-n-propylamine	27	J	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Hexachloroethane	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Nitrobenzene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Isophorone	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2-Nitrophenol	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2,4-Dimethylphenol	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
bis-(2-Chloroethoxy) methane	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2,4-Dichlorophenol	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Naphthalene	29	J	350	U	47	J	240	J	56	J	400	U	500	J	330	J	1,700	J	370	UJ
4-Chloroaniline	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Hexachlorobutadiene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Caprolactam	330	R	350	R	340	R	380	R	340	R	400	R	400	UJ	420	UJ	11,000	UJ	370	UJ
4-Chloro-3-methylphenol	26	J	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	1,200	J	370	UJ
2-Methylnaphthalene	20	J	350	U	21	J	100	J	23	J	400	U	430	J	290	J	11,000	UJ	370	UJ
Hexachlorocyclopentadiene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2,4,6-Trichlorophenol	330	U	870	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2,4,5-Trichlorophenol	830	U	350	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
1-1'-Biphenyl	330	U	350	U	340	U	27	J	340	U	400	U	85	J	71	J	11,000	UJ	370	UJ
2-Chloronaphthalene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2-Nitroaniline	830	U	870	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
Dimethylphthalene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
2,6-Dinitrotoluene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Acenaphthylene	110	J	350	U	120	J	350	J	87	J	400	U	940	J	760	J	4,500	J	370	UJ
3-Nitroaniline	830	U	870	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
Acenaphthene	35	J	350	U	25	J	35	J	340	U	400	U	79	J	62	J	6,200	J	370	UJ
2-4-Dinitrophenol	830	U	870	U	860	UJ	950	U	860	UJ	990	UJ	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
4-Nitrophenol	830	U	870	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
Dibenzofuran	330	U	350	U	26	J	100	J	340	U	400	U	340	J	330	J	8,900	J	370	UJ
2,4-Dinitrotoluene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Diethylphthalate	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Fluorene	34	J	350	U	60	J	170	J	340	U	400	U	590	J	560	J	18,000	J	370	UJ
4-Chlorophenyl-phenyl ether	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
4-Nitroaniline	830	U	870	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
4,6-Dinitro-2-methylphenol	830	U	870	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
N-Nitrosodiphenylamine	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
4-Bromophenyl-phenylether	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Hexachlorobenzene	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Atrazine	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Pentachlorophenol	830	U	870	U	860	U	950	U	860	U	990	U	1,000	UJ	1,100	UJ	26,000	UJ	920	UJ
Phenanthrene	200	J	21	J	530		1300		110	J	400	U	3,700	J	3,100	J	130,000	J	370	UJ
Anthracene	70	J	350	U	170	J	420		38	J	400	U	1,200	J	1,000	J	44,000	J	370	UJ
Carbazole	22	J	350	U	35	J	110	J	340	U	400	U	270	J	240	J	12,000	J	370	UJ
Di-n-butylphthalate	37	J	24	J	350		100	J	25	J	22	J	550	J	30	J	11,000	UJ	370	UJ
Fluoranthene	500		26	J	1100		2200		590		400	U	4,900	J	4,400	J	170,000	J	30	J
Pyrene	570		28	J	1300	J	2700		850		400	U	4,200	J	4,200	J	130,000	J	58	J
Butylbenzylphthlate	29	J	350	U	340	U	380	U	340	U	400	U	1,100	J	420	UJ	11,000	UJ	370	UJ
3,3'-Dichorobenzidine	330	UJ	350	UJ	340	U	380	U	340	U	400	UJ	400	UJ	420	UJ	11,000	UJ	370	UJ
Benzo(a)anthracene	350		350	U	620		1200		580		400	U	2,400	J	2,200	J	68,000	J	370	UJ
Chrysene	350		18	J	650		1100		590		400	U	2,500	J	2,000	J	64,000	J	31	J
bis(2-Ethylhexyl)phthalate	330	U	350	U	800	J	380	U	340	U	400	U	400	UJ	420	UJ	1,100	J	370	UJ
Di-n-octylphthalate	330	U	350	U	340	U	380	U	340	U	400	U	400	UJ	420	UJ	11,000	UJ	370	UJ
Benzo(b)fluoranthene	370		350	U	710		1900		910		400	U	1,700	J	1,400	J	47,000	J	20	J
Benzo(k)fluoranthene	350	J	350	UJ	560		380	U	820	J	400	U	1,700	J	1,600	J	50,000	J	21	J
Benzo(a)pyrene	370		350	U	670		1200		1000		400	U	2,400	J	2,200	J	59,000	J	23	J
Indeno(1,2,3-cd)pyrene	260	J	350	U	540		890		730		400	U	1,800	J	1,600	J	43,000	J	20	J
Dibenzo(a,h)anthracene	120	J	350	U	220	J	370	J	250	J	400	U	590	J	460	J	14,000	J	370	UJ
Benzo(g,h,i)perylene	290	J	350	U	600		1000		890		400	U	2,200	J	1,800	J	46,000	J	26	J

Table 1. Analytical Summary Table

Parcel #5 and #27

Page 3 of 4: Pesticides and PCBs

Sample Number :	EDER0		EDER1		EDEW5		EDEW7		EDEW8		EDEW9		EDEW3		EDEW4		EDEW1		EDEW2	
Sampling Location, Depth :	5-1A, 0-1 ft		5-1B, 6-7 ft		5-2A, 0-1 ft		5-2B, 5-6 ft		5-3A, 0-1 ft		5-3B, 8-9 ft		5-4A, 0-1 ft		5-4B, 9-10 ft		27-1A, 0-1 ft		27-1B, 10-11 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	15:45		16:00		10:40		11:00		11:10		11:15		10:10		10:20		10:00		10:05	
%Moisture :	6		10		7		15		10		19		6		5		3		23	
pH :	7.6		6.9		8.2		8.7		8.3		8.0		8.3		8.5		8.2		8.4	
Dilution Factor :	10.0		1.0		1.0		10.0		10		1.0		10		10		10		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	17	U	1.7	U	18	U	20	U	140	J	2.0	U	17	U	2.2	U	16	U	2.2	U
beta-BHC	17	U	1.7	U	18	U	20	U	17	U	2.0	U	17	U	2.2	U	18	J	2.2	U
delta-BHC	17	U	1.7	U	18	U	20	U	17	U	1.2	J	17	U	18	U	16	U	2.2	U
gamma-BHC (Lindane)	17	U	1.7	U	18	U	20	U	17	U	2.0	U	17	U	18	U	16	U	2.2	U
Heptachlor	17	U	1.7	U	18	U	20	U	17	U	2.0	U	17	U	18	U	16	U	2.2	U
Aldrin	17	U	1.7	U	18	U	20	U	17	U	2.0	U	17	U	18	U	16	U	2.2	U
Heptachlor epoxide	17	U	1.7	U	18	U	20	U	5.7	J	2.0	U	17	U	18	U	20	J	2.2	U
Endosulfan I	17	U	1.7	U	18	U	20	U	17	U	2.0	U	17	U	18	U	16	U	2.2	U
Dieldrin	51	J	3.4	U	18	U	38	U	34	U	3.9	U	33	U	35	U	15	J	4.2	U
4-4'-DDE	34	U	1.6	J	35	U	38	U	130		3.9	U	33	U	35	U	35	J	4.2	U
Endrin	34	U	3.4	U	35	U	38	U	34	U	3.9	U	33	U	35	U	20	J	4.2	U
Endosulfan II	34	U	3.4	U	35	U	38	U	130	J	3.9	U	33	U	35	U	19	J	4.2	U
4-4'-DDD	34	U	2.4	J	12	J	38	U	34	U	3.9	U	24	J	35	U	55	J	4.2	U
Endosulfan sulfate	34	U	3.4	U	35	U	38	U	25	J	3.9	U	33	J	35	U	210		4.2	U
4-4'-DDT	34	UJ	5.8	J	25	J	13	J	330	J	3.9	U	32	J	35	U	180	J	4.2	U
Methoxychlor	170	UJ	17	U	180	UJ	200	U	170	U	20	U	170	U	180	U	140	J	22	U
Endrin ketone	34	U	3.4	U	35	U	38	U	34	U	3.9	U	14	J	35	U	240	J	4.2	U
Endrin aldehyde	34	U	3.4	U	35	U	38	U	210	J	3.9	U	33	U	13	J	98		4.2	U
alpha-Chlordane	17	U	1.7	U	18	U	20	U	17	U	2.0	U	17	U	18	U	16	U	2.2	U
gamma-Chlordane	17	U	1.7	U	18	U	20	U	24	J	2.0	U	17	U	18	U	24	J	2.2	U
Toxaphene	1700	U	170	U	1800	U	2000	U	1700	U	200	U	1700	U	1800	U	1600	U	220	U
Aroclor-1016	340	U	34	U	350	U	380	U	340	U	39	U	330	U	350	U	320	U	42	U
Aroclor-1221	690	U	69	U	700	U	770	U	690	U	80	U	660	U	700	U	650	U	85	U
Aroclor-1232	340	U	34	U	350	U	380	U	340	U	39	U	330	U	350	U	320	U	42	U
Aroclor-1242	340	U	34	U	350	U	380	U	340	U	39	U	330	U	350	U	320	U	42	U
Aroclor-1248	340	U	34	U	350	U	380	U	340	U	39	U	330	U	350	U	320	U	42	U
Aroclor-1254	340	U	34	U	350	U	380	U	340	U	39	U	330	U	350	U	320	U	42	U
Aroclor-1260	340	U	34	U	350	U	380	U	340	U	39	U	330	U	350	U	320	U	42	U

Table 1. Analytical Summary Table

Parcel #5 and #27

Page 4 of 4: Metals and Cyanide

Sample Number :	MECLN6		MECLN7		MECLN8		MECLN9		MECLP0		MECLP1		MECLJ8		MECLJ9		MECLK6		MECLK7	
Sampling Location, Depth :	5-1A, 0-1 ft		5-1B, 6-7 ft		5-2A, 0-1 ft		5-2B, 5-6 ft		5-3A, 0-1 ft		5-3B, 8-9 ft		5-4A, 0-1 ft		5-4B, 9-10 ft		27-1A, 0-1 ft		27-1B, 10-11 ft	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		9/24/99		9/24/99		9/24/99		9/24/99	
Time Sampled :	12:30		12:45		11:40		11:45		12:00		12:10		11:10		11:30		10:30		10:50	
%Moisture :	7.5		14.3		5.8		5.6		16.1		11.5		7.6		26.1		4.3		4.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	4630		4150		4710		4540		15600		4440		4560	J	1860	J	3510	J	3010	J
Antimony	0.45	UJ	0.49	UJ	0.45	UJ	0.44	UJ	0.50	UJ	0.47	UJ	1.2	J	0.56	R	0.43	UJ	0.43	UJ
Arsenic	5.3		7.9		6.9		7.1		8.3		8.3		6.6	J	5	J	12.4		3.7	
Barium	38.5		98.7		36.5		31.3		72.4		76.9		59.4		91.1		58.6		80.5	
Beryllium	0.32		0.23		0.25		0.27		0.62		0.20		0.28		0.11	J	0.32		0.18	
Cadmium	0.17	J	0.18	J	0.21	J	0.27	J	0.070	U	0.070	U	4.7		0.08	UJ	0.73	J	0.25	J
Calcium	55800	J	69000	J	38200	J	93700	J	4710	J	89600	J	42000		122000		78200	J	109000	J
Chromium (total)	9.1	J	7.5	J	23.9	J	14.7	J	23.6	J	8.6	J	17.4	J	4.1	J	12.4		6.4	
Cobalt	3.7		3.9		4.9		4.2		11.7		4.6		4.5		2.1		5.3		4	
Copper	11.8	J	12.5	J	18.6	J	14.1	J	19.3	J	10.2	J	31.7	J	5.5	J	36	J	4.4	J
Iron	11600		13100		14700		9920		25300		13400		13800	J	7910	J	16200		11300	
Lead	61.9		8.2		16.6		33.0		12.6		3.7		718	J	5.6	J	133		2.9	
Magnesium	24100		12300		12400		21700		4550		14100		7400	J	8020	J	15400	J	16400	J
Manganese	293		782		311		397		342		587		269	J	443	J	406	J	600	J
Mercury	0.050	U	0.090		0.050	U	0.050	U	0.060	U	0.060	U	0.05	U	0.06	U	0.05	U	0.05	U
Nickel	10.3		9.7		18.4		13.0		27.2		9.8		18.9		5		16		6.7	
Potassium	753	J	715	J	1070	J	984	J	1780	J	452	J	523		182		960		1110	
Selenium	0.38	U	0.53	J	0.38	U	0.38	U	0.43	U	0.41	U	0.61	J	0.48	U	0.37	U	0.37	U
Silver	0.090	U	0.090	U	0.13	J	0.080	U	0.52	J	0.14	J	0.15		0.11	U	0.16	J	0.08	J
Sodium	55.2	J	167	J	32.9	UJ	113	J	298	J	71.5	J	32.9	U	202	J	413	J	502	J
Thallium	0.45	U	0.49	U	0.45	U	0.44	U	0.50	UJ	0.47	U	0.45	U	0.56	U	0.43	U	0.43	U
Vanadium	14.2	J	12.0	J	12.8	J	16.6	J	34.5	J	15.5	J	11.9		5.5		14.5		12.6	
Zinc	68.6		39.0		88.5		52.3		57.9		23.8		187	J	18	J	97.3		31	
Cyanide	0.18	J	0.29	J	0.090	J	0.20	J	0.16	J	0.060	R	0.26	J	0.09	J	1.2	J	0.32	J

CADRE Data Qualifier Sheet

Qualifiers

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

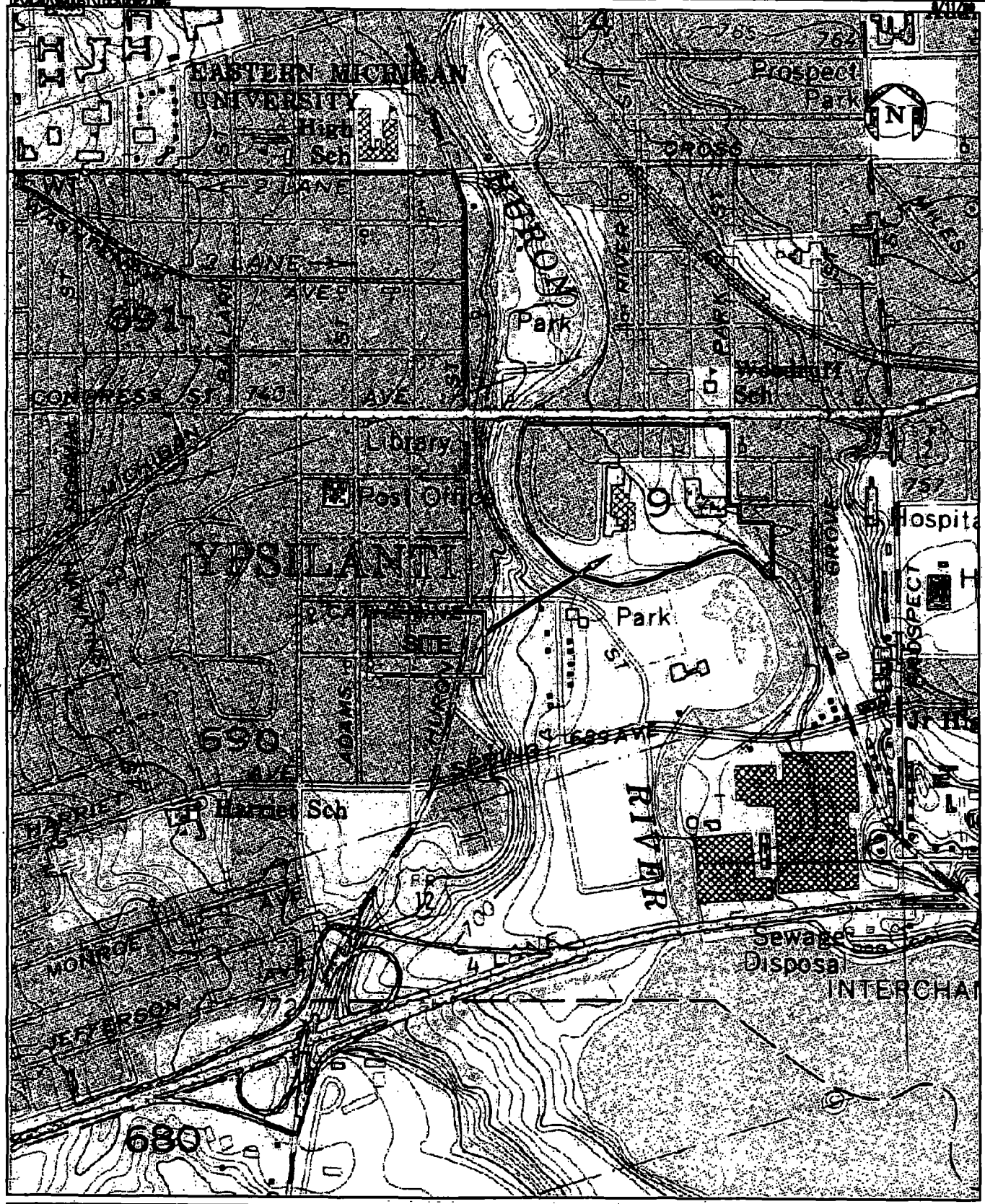

FIGURE 1
SITE LOCATION MAP

Source: ECT, 1999.

YPSILANTI BROWNFIELD PILOT PROJECT REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
The Beck Tower
1949 Washington Boulevard, Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

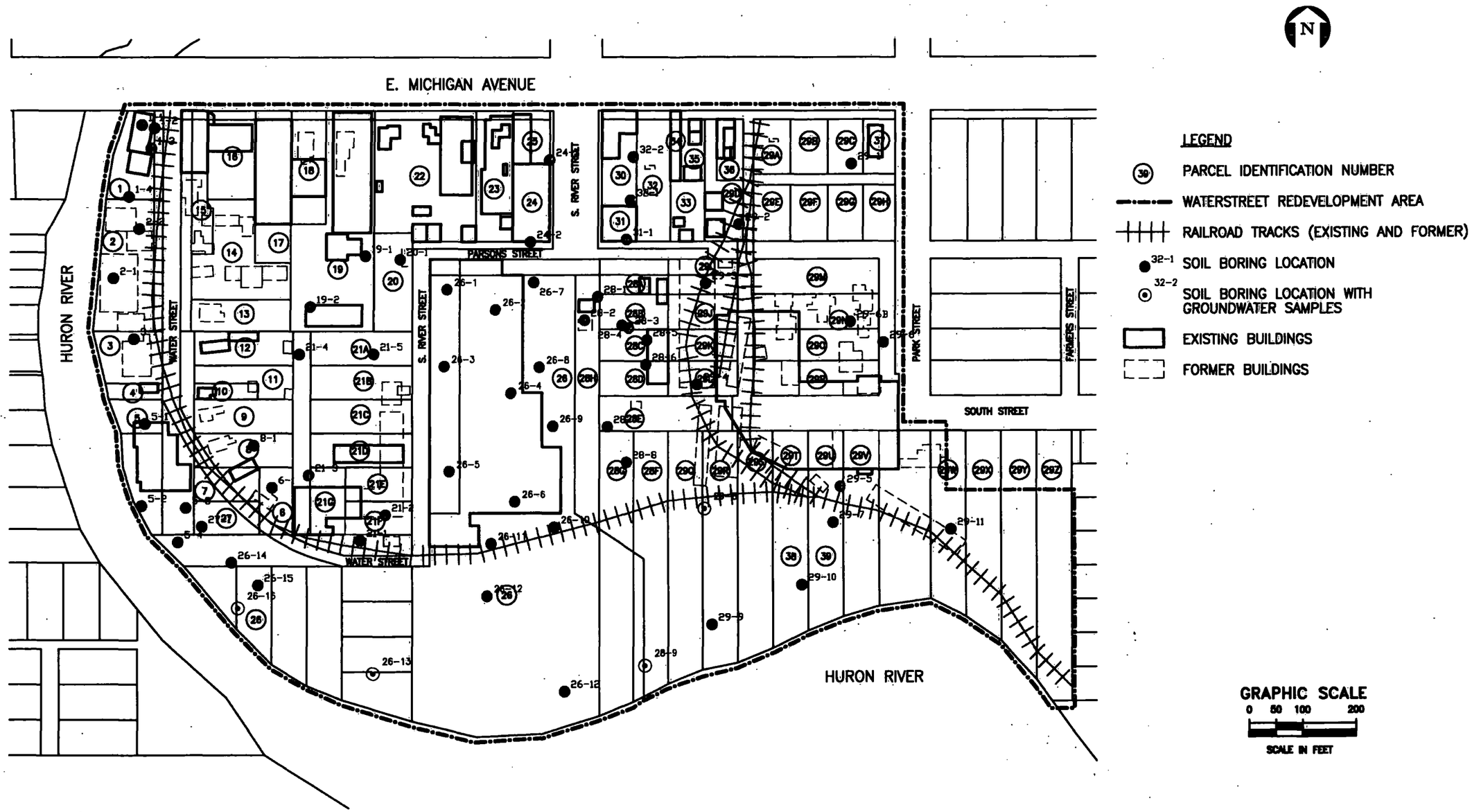

FIGURE 2.
WATER STREET REDEVELOPMENT AREA SITE MAP

Source: ECT, 2000.

YPSILANTI BROWNFIELD PILOT PROJECT
WATER STREET REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Boulevard
Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

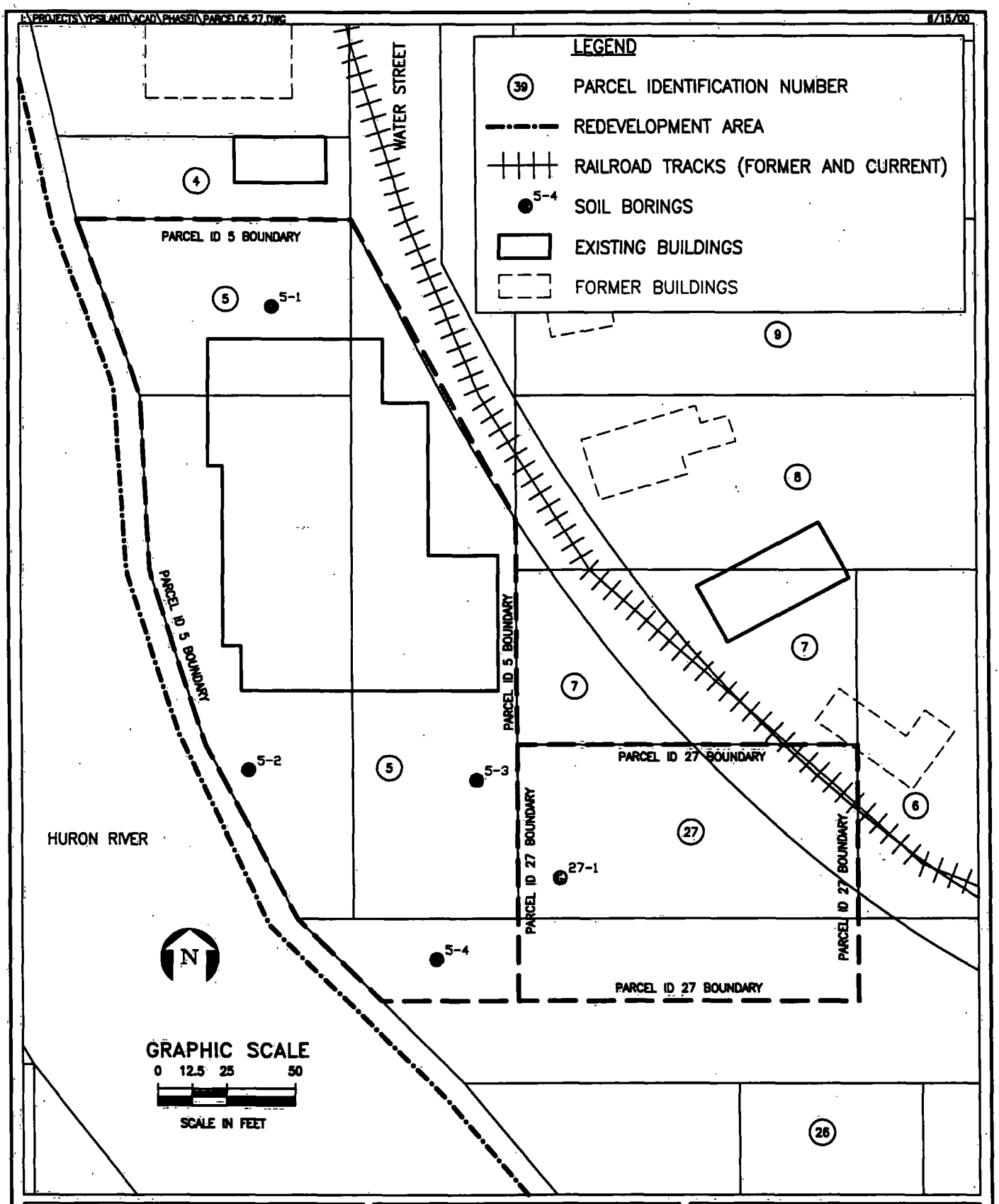

FIGURE 3.
PARCEL ID #5 AND #27
SITE MAP
Source: ECT, 2000.

REDEVELOPMENT AREA
24-36-40 WATER ST.
YPSILANTI, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

APPENDIX A

AERIAL PHOTOGRAPHS

1978 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

1969 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

D:\AERIAL.DWG 06/18/99

1963 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

1940 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

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1249 Washington Blvd.
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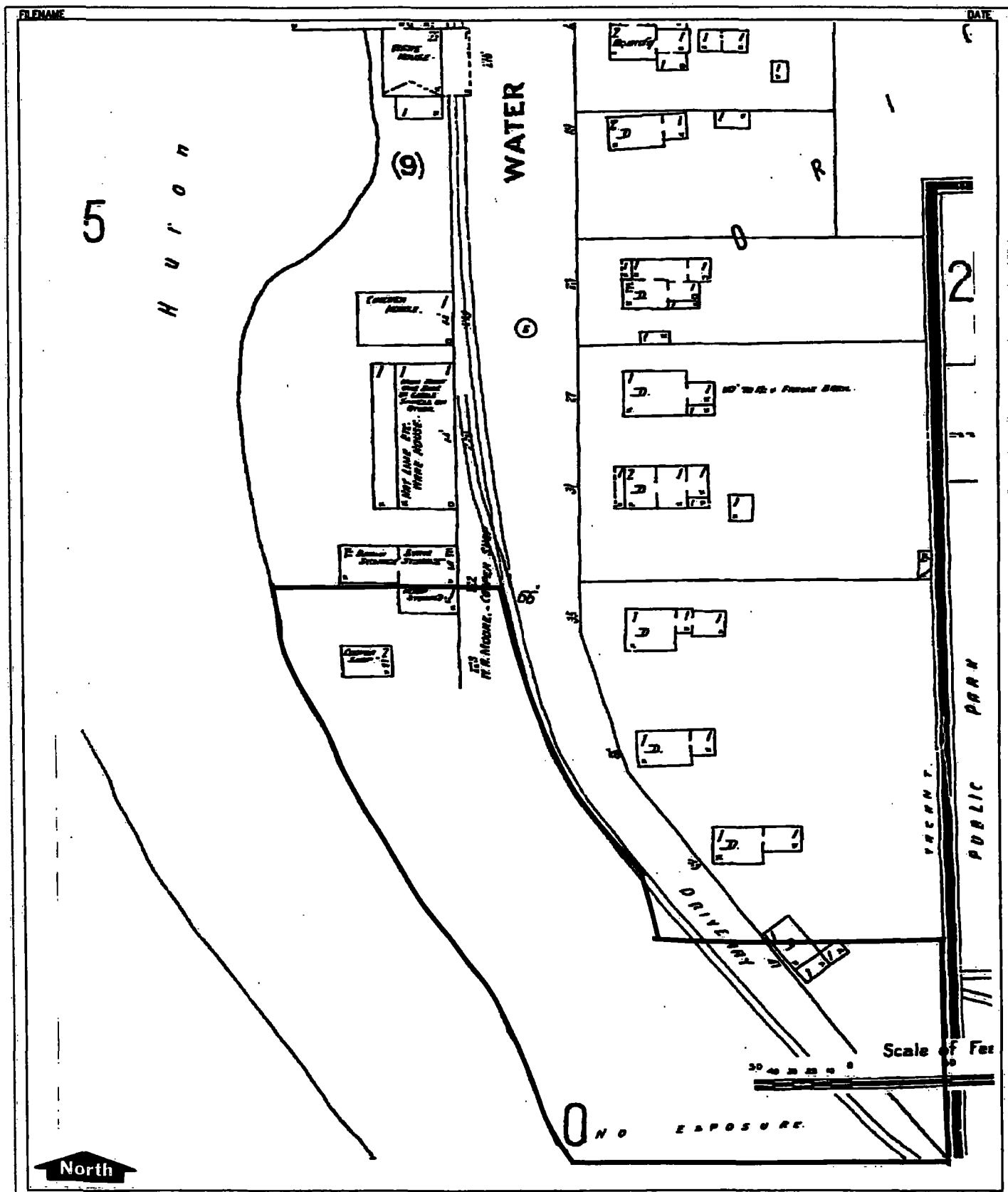
Detroit, Michigan 48226

APPENDIX B

SANBORN FIRE INSURANCE MAPS



Sanborn Fire Insurance Map, 1899

Source: ECT, 2000.

High Scope Property
Ypsilanti, MI
Washtenaw County

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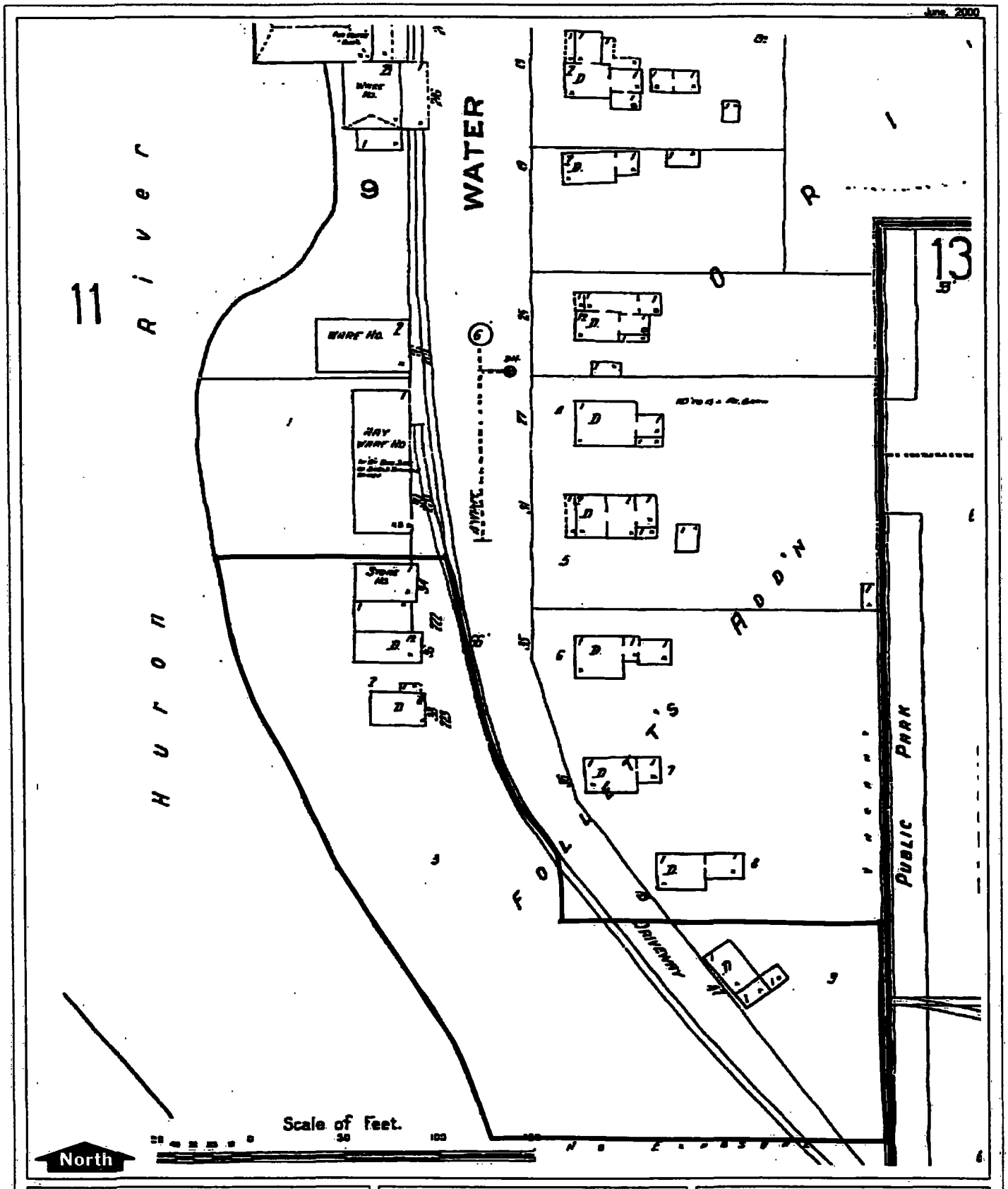
The Book Tower
1249 Washington Boulevard, Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707



Sanborn Fire Insurance Map, 1909

Source: ECT, 2000.

High Scope Property
Ypsilanti, MI
Washtenaw County

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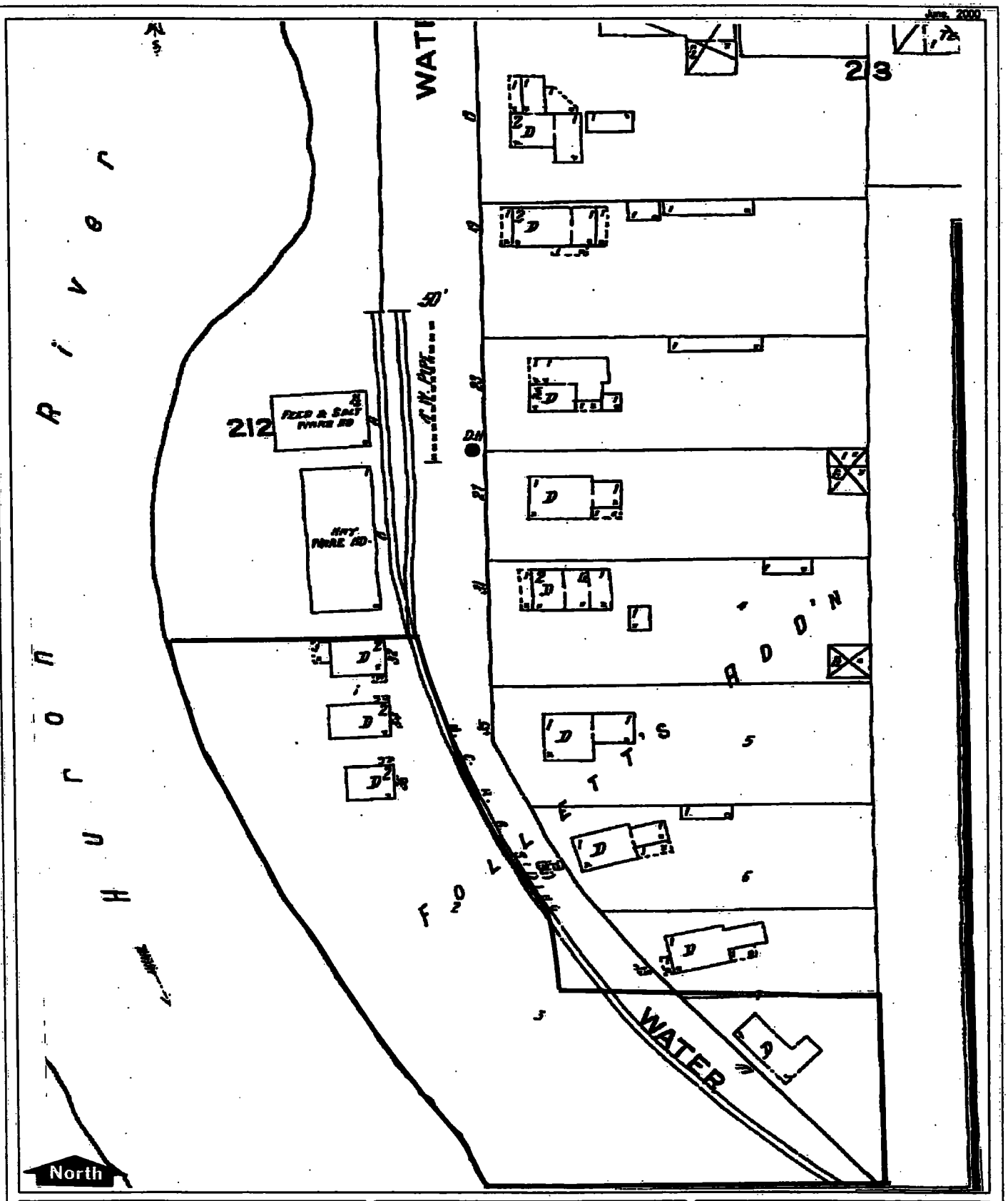

Sanborn Fire Insurance Map, 1916

Source: ECT, 2000.

High Scope Property
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Washtenaw County

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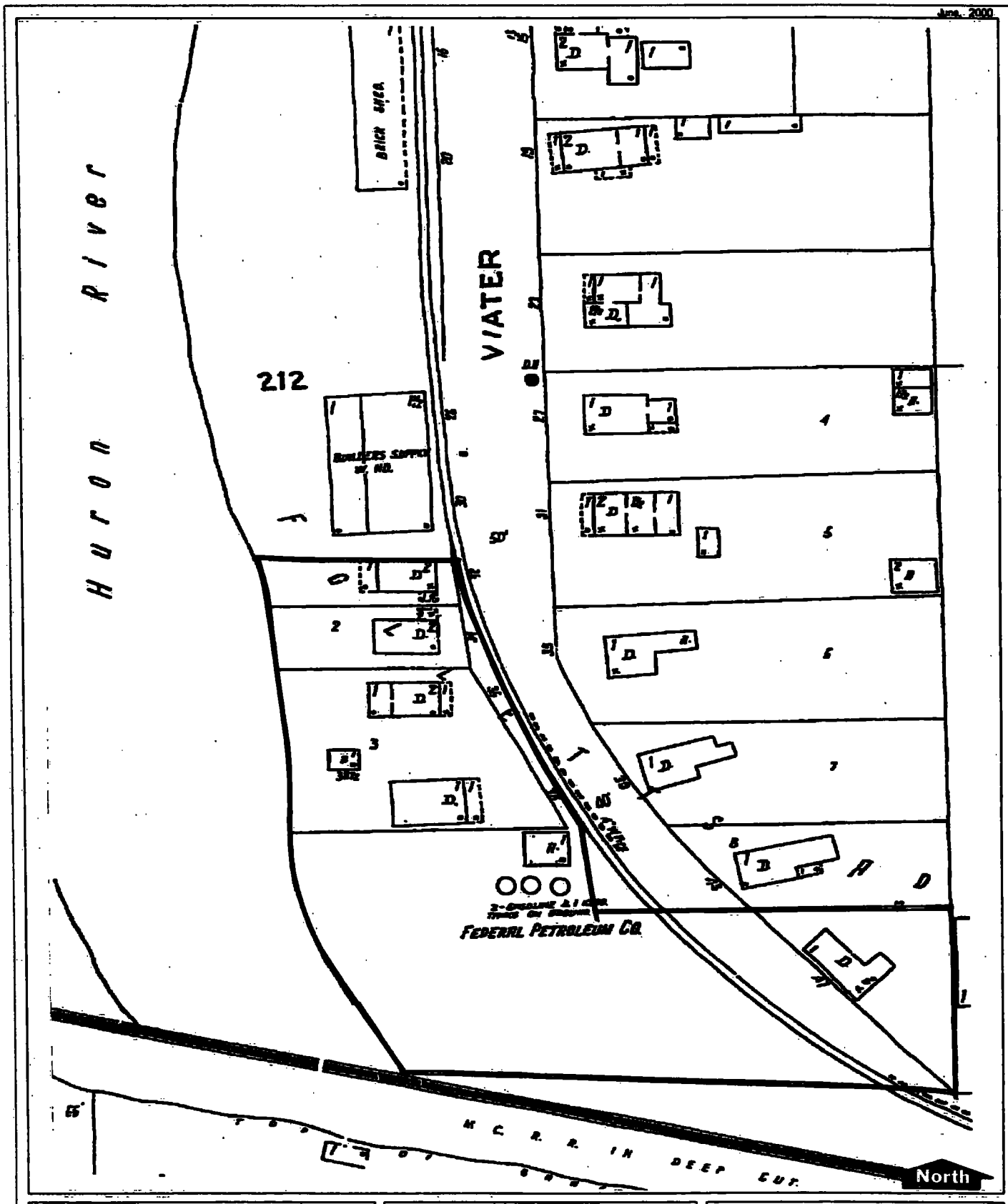

Sanborn Fire Insurance Map, 1927

Source: ECT, 2000.

High Scope Property
Ypsilanti, MI
Washtenaw County

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The Book Tower
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Detroit, Michigan 48226
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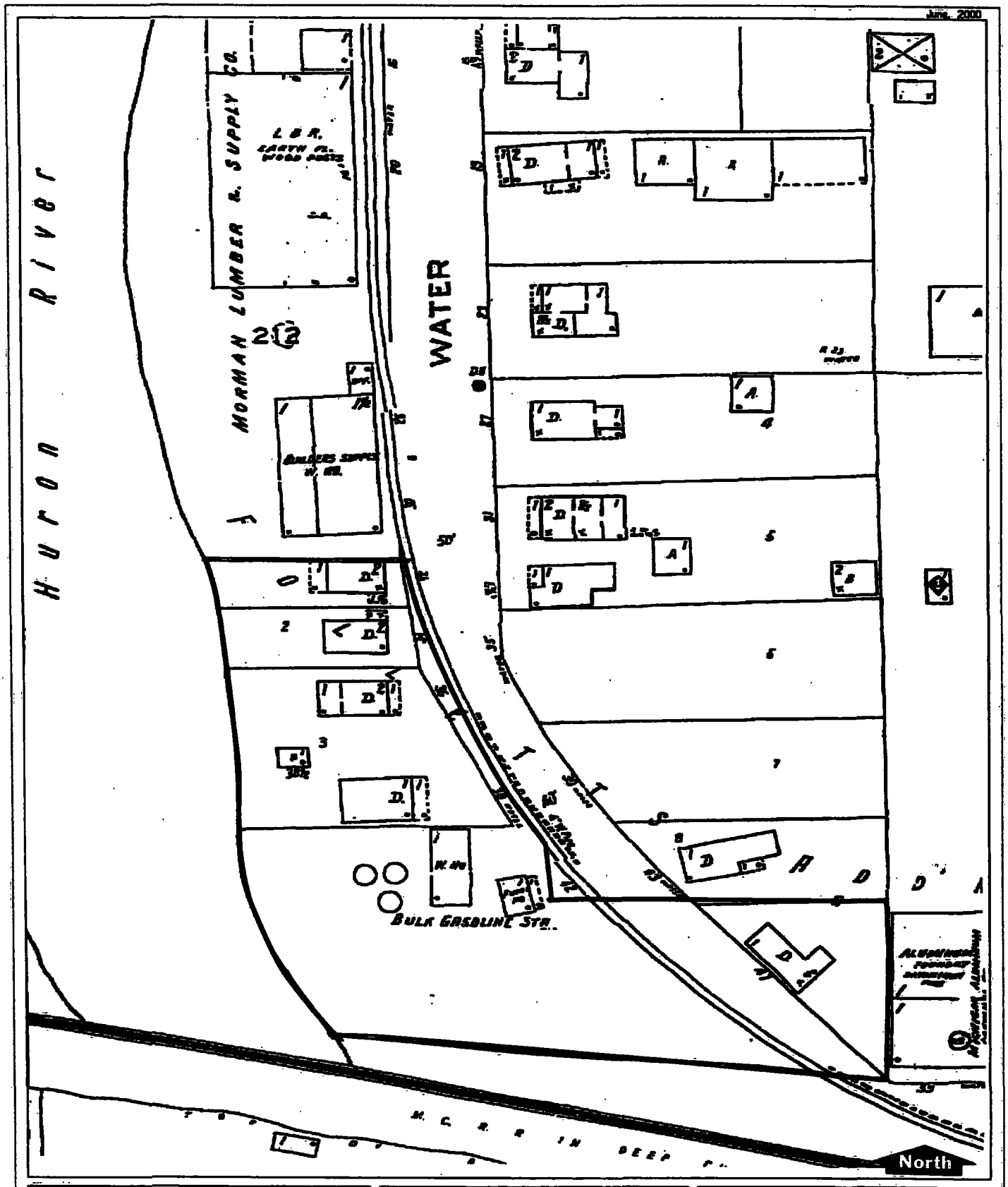

Sanborn Fire Insurance Map, 1950

Source: ECT, 2000.

High Scope Property
Ypsilanti, MI
Washtenaw County

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The Book Tower
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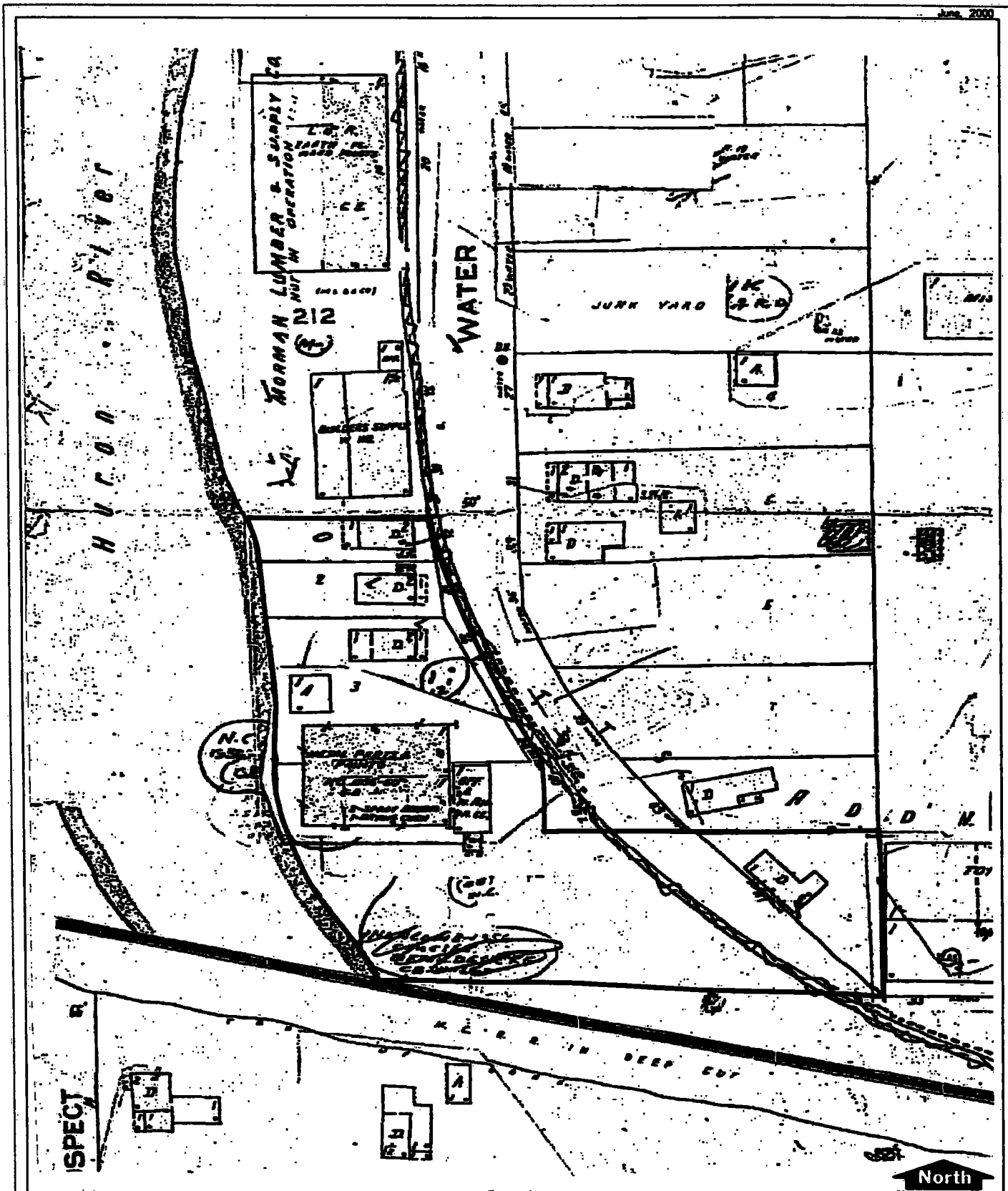
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

June, 2000



Sanborn Fire Insurance Map, 1964

Source: ECT, 2000.

High Scope Property
Ypsilanti, MI
Washtenaw County

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Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

Appendix C

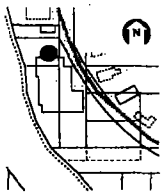
APPENDIX C

SOIL BORING LOGS

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



CASING ELEVATION N/A

Ypsilanti, Michigan

BORING NUMBER	5-1	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	40"		Light to dark brown SAND with fine to medium gravel, trace clay, damp	
				2				
				3				
				4				
				5	20"		Light to dark brown SAND, trace clay, brick, and wood material, damp	
				6				
	B			7				
				8				
				9	0"		Wet	
				10				
				11				
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

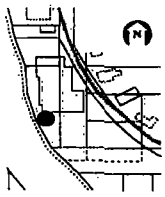
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	5-2	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		5" LOAM, damp	
							Light brown SAND, trace fine gravel, moist	
				2			Light brown SAND, trace fine gravel, dry	
				3				
				4				
				5	12"		Light brown SAND, with fine to medium gravel, dry	
	B			6				
				7				
				8			Refusal at 7.5'	
							End of boring 7.5'	
				9				
				10				
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

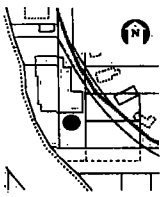
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	5-3	LOCATION	Ypsilanti, Michigan
DATE	10/1/99	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1			6" LOAM, moist CLAY with sand, trace glass material, moist	
				2	45"		Stiff CLAY, trace sand, damp	
				3			Light brown SAND, trace gravel, damp	
				4			2 refusals at depths ranging from 2' to 3'	
				5			Light to dark brown SAND, trace medium gravel, moist to wet	
				6	30"			
				7				
				8				
	B			9			Gray SAND with gravel, trace silt, wet	
				10	5"			
				11				
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

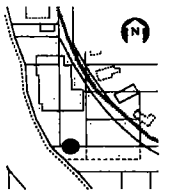
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	5-4	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Sunny, 70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	24"		Light to dark brown SAND, trace fine to course gravel, dry 2" asphalt material 6" Light brown SAND, dry	
				2				
				3				
				4				
				5	20"		Light brown SAND, dry Light brown SAND with fine to course gravel, trace asphalt material 2" CLAY with sand, moist	
				6				
				7				
				8				
	B			9	24"		6" Light to dark brown SAND, trace fine gravel, dry 1' SAND with clay, trace fine gravel, moist 6" Dark brown to gray CLAY with medium gravel, wet, petroleum odor	
				10				
				11				
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

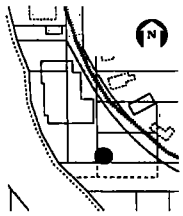
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



CASING ELEVATION N/A

Ypsilanti, Michigan

BORING NUMBER	27-1	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Sunny, 70°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	45"		Dark to light brown SAND with fine to medium gravel, dry to damp	
				2				
				3				
				4			SAND with clay, damp	
				5	24"		Light brown SAND with clay, trace fine to medium gravel, damp	
				6				
				7				
				8			Fine to medium GRAVEL with sand, wet, petroleum odor	
				9	12"		Fine to medium GRAVEL with some sand, wet, petroleum odor	
				10				
	B			11				
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

Parcel #6 & #8

ENVIRONMENTAL SITE ASSESSMENT
SMITH PROPERTY
Parcels #6, #7, #8 and #9
35, 45 AND 47 WATER STREET
YPSILANTI, MICHIGAN

PREPARED BY:

ECT

Environmental Consulting & Technology, Inc.

1249 WASHINGTON BLVD.
SUITE 3500
DETROIT, MICHIGAN 48226

JUNE 2000
PROJECT NO: 99-0051

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1.0 EXECUTIVE SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the property located at 23 Water Street and 20 East Michigan Avenue in the City of Ypsilanti, Washtenaw County, Michigan. The property consists of two rectangular shaped parcels of land approximately 1.43 acres in size. The larger parcel is located along East Michigan Avenue between Water Street and River Street. A smaller parcel located along Water Street provides vehicle access to the property. The property is occupied by an analytical laboratory.

The subject property was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination, which may have been present. However, a visual inspection of the interior of the building was not conducted; therefore, the observations made and stated within this report are pertaining to the exterior of the building and surrounding property only.

No unusual odors or stressed vegetation were observed during the site reconnaissance. No stained soils or other evidence of spills or chemical mishandling was observed.

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. No ASTs or UST were found to be present on the property. No suspect PCB containing equipment was observed on the property. No suspect ACM was observed on the property. No imported fill material was observed.

A review of the regulatory history of the site and area and other historical records was conducted in order to assure that no potentially environmentally impairing activities or conditions had occurred in the past or might be currently occurring with regard to the site. The records review revealed that the adjacent property to the east was formerly an auto sales and repair facility; however, a baseline environmental assessment has been conducted on the property. Therefore, this adjacent property is not deemed to be a significant environmental risk. The adjacent property to the west was also formerly an auto sales and repair facility.

This westerly site has had its UST's removed and has been given a commercial closure. Therefore, because no off-site contamination was determined to be above residential criteria, this site is not likely to pose a significant environmental risk to the Subject Property. The Subject Property was formerly utilized as a newspaper press and as an auto service facility.

Federal, State and local environmental records were reviewed and a commercial database search was commissioned. These included the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Resource Conservation and Recovery Information System (RCRIS), Emergency Response Notification System (ERNS), Hazardous Materials Incident Report System (HMIRS), Toxic Release Inventory System (TRIS), and Toxic Substances Control Act (TSCA) databases. They also included the State Hazardous Waste Sites (SHWS), registered underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, and landfill sites. The result of this review has indicated the presence of CERCLIS-NFRAP, SHWS, RCRIS, UST, LUST, and TRIS sites located within the one-mile radius of the subject property. However, a review of the available information for the sites has indicated that it is unlikely that releases from any of these sites have impacted the Subject Property.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice. Because the prior uses of the Subject Property have included an auto repair facility and a newspaper press and because it is unknown as to what chemicals may have been used and the handling practices of the these chemicals, a sub-surface investigation was conducted on the Subject Property to determine if the Subject Property has been impacted by its former occupants.

Three GeoProbe soil borings were advanced on the parcels, with two soil samples collected from each, one from the surface and one from a depth of 8 to 12 feet below the surface. The results reveal the presence of several trace metals at concentrations exceeding State of Michigan residential cleanup criteria. It is possible that these trace metals levels are

representative of local or regional background concentrations. In any case, because of the slightly alkaline pH of the soils, the potential for migration of these metals is reduced. A further assessment of the trace metals concentrations at this property is warranted, with the objectives of a broader evaluation of the local background levels and the potential for leaching of the metals from the soil.

2.0 PURPOSE AND SCOPE

Environmental Consulting & Technology, Inc. (ECT) was retained by the Community and Economic Development Department of the City of Ypsilanti under the Brownfield Redevelopment Pilot Project to conduct a Phase I Environmental Site Assessment of the facility and property, commonly known as the Canton Analytical Lab property, located at 20 East Michigan Avenue and 23 Water Street in the City of Ypsilanti, Michigan. The objective of this assessment was to evaluate the present environmental condition of the property for potential environmental impairment or contamination that, if present, may result in unacceptable financial and ownership risks and liability. This assessment was conducted from March 1999 through July 2000 with Mr. Dirk Mammen, Senior Scientist with ECT, conducting the site reconnaissance in May, 2000. This report was based upon information collected through the following activities:

- Visual assessment of the property and structures.

- Evaluation of potential environmental impacts from proximate properties.

- Evaluation of past usage through the review of historical maps/photographs, government regulatory agency data, historical records, and discussions with persons familiar with the site and local area.

- Review of available environmental incident reports contained in records and databases from the appropriate regulatory agencies.

- Review of known sites of contamination from the state and federal agency sources, including the CERCLIS, NPL, Landfill lists, LUST sites, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, and other available sources.

- A review of registered USTs and Aboveground Storage Tanks (ASTs) in the proximate

- A visual survey of construction materials to determine whether suspect asbestos containing materials (ACMs) are present.

- A survey of the electrical equipment which may have PCB containing oils.

- A preliminary subsurface investigation consisting of Geoprobe borings and soil sampling and analysis.

3.0 PHYSICAL SITE ASSESSMENT

3.1 SITE LOCATION

The subject property is located at 35, 41 and 47 Water Street in the City of Ypsilanti, Washtenaw County, Michigan (Figure 1). The subject property, as indicated on the Ypsilanti East Quadrangle USGS 7.5 minute topographic map, is located in Section 9, Township 3 South, Range 7 East, City of Ypsilanti, County of Washtenaw, State of Michigan. The property is located in Ypsilanti's Water Street Redevelopment Area, shown in Figure 2.

3.2 GENERAL SITE DESCRIPTION

The property consists of four parcels of property. One building is located on the subject property. The building consists of office and garage space. The garage is used for vehicular repairs. A hoist is located in the garage, however, it could not be confirmed whether this was a pneumatic or hydraulic hoist. There is an impoundment area for vehicles located on the subject property. Numerous cars and small boats were scattered throughout the impoundment area. There was a pile of scrap metal and debris piled up against the eastern property fence. The owner of the property stated that the metal and debris is going to be removed.

The subject property is located on the east side of Water Street. The office and garage is located at 41 Water Street. The rest of the subject property is either gravel parking area and driveway areas or covered with grass.

Geologic information was obtained from available U.S. Geological Survey reports, U.S.G.S. topographic maps, and other available local geological informational papers. The site elevation is approximately 700-750 feet above mean sea level (ft-msl) as indicated on the U.S.G.S. Ypsilanti East Quadrangle topographic map. The property has a slight southerly topographic dip, although it is generally flat lying.

3.3 SOLID AND HAZARDOUS WASTES

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. Items which typically represent the potential for environmental contamination include chemical spills and leaks, dead or dying foliage, ground discoloration and disturbances, unusual odors, and the improper storage of solid, liquid, or gaseous products and wastes. There were oil stained soils located throughout the impoundment area of the subject property. In addition, particularly heavy oil stains were observed in a 5 ft by 10 ft area on the north side of the office and garage. According to the owner, the previous occupant had drums of oil stored in this area. The owner thought the oil may have come from stripping parts from automobiles. At one time the owner washed auto parts using a small solvent bath in one section of the garage. There were no stains or evidence of solvent spills in this section of the garage.

3.4 STORAGE TANKS

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. No evidence of the presence or former presence of USTs or ASTs located on the subject property or on adjacent properties was observed. No fill ports or vent pipes were observed on the subject property. A review of historical UST locations in the area is included in Section 5.0.

3.5 POLYCHLORINATED BIPHENYLS

PCBs are toxic coolant or lubricant oils used in some electrical equipment, transformers, capacitors, fluorescent light ballasts, and hydraulic systems. The visual inspection of this property did not indicate the presence of any PCB containing transformers or equipment on the site or in the immediate vicinity of the site. A hoist is located in the garage, however, it is not clear whether this is a hydraulic hoist that may contain PCBs or other oils.

3.6 ASBESTOS CONTAINING MATERIALS (ACMs)

A visual survey of building materials was conducted to determine whether suspect ACMs were present on the subject site. Asbestos was used primarily in the 1950s through 1970s in a wide variety of construction and insulative materials. It has been found in roofing and flooring materials, ceiling tiles, and insulation materials. Asbestos can become an environmental or health risk when the asbestos fiber is released and inhaled or ingested. ACMs present environmental risks when exposed or disturbed. No suspect ACMs were observed during the site reconnaissance. Also, the owner of the property said that the existing building, which they had built, did not have any ACMs.

3.7 FILL MATERIALS

No evidence was discovered during the assessment of the site that would indicate that any unnatural fill materials or land filling had occurred on the site.

4.0 CURRENT LAND USE

The subject property and surrounding properties along Water Street are principally involved with various retail, packaging/distribution, commercial or office operations. No heavy manufacturing or large quantity chemical use operations were observed within the area or on the subject property.

The subject property is occupied by one building used for office and garage space, gravel parking and driveway areas and grass coverage. Neighboring properties include industrial garages, vacant property, and residential homes along Water Street.

5.0 SITE HISTORY AND RECORDS REVIEW

A site history was compiled by researching the records maintained at applicable federal, state, county and local regulatory agencies, including a commission of an environmental database. The database searched was based on a radius search of the site and area. The regulatory file review was performed in order to confirm that information which was presented on the database and to search for any sites that may have been missed by the data search. In addition, those sites that were in close enough proximity to the site or which were of concern were investigated in greater detail. These included the United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, landfill databases, UST and LUST information, and state and local Fire Marshal records.

5.1 AERIAL PHOTOGRAPHY

Available aerial photography of the site and surrounding area was reviewed. Aerial photographs were reviewed for the years 1940, 1963, 1969 and 1978. The 1940 and 1963 aerials indicated that the subject property was used for residential purposes with northern portions of the property being vacant. The 1969 aerial indicated only minor changes. The 1978 aerials indicated that the property appears as it does today. Copies of the aerial photographs are included in Appendix B.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps are historical map records primarily used by insurance companies to assess fire risks for a particular property and can offer valuable information regarding the presence of USTs, ASTs, and types of businesses and operations that have occupied a particular property. A search for available Sanborn Fire Insurance maps was performed for the years 1899, 1909, 1916, 1927, 1950 and 1964. The 1899, 1909, 1916, 1927 Sanborns indicated that subject property was used for residential purposes. The 1950 and 1964 Sanborns indicated that the subject property was still used for residential purposes,

however, there were fewer homes in these years. Copies of the Sanborn maps for the subject property and area are included in Appendix C.

5.3 STREET INDEX DIRECTORIES

Polk Street Index Directories were reviewed at the Ann Arbor Public Library in Ann Arbor, Michigan. These directories are used to provide historical information pertaining to the name addressed to a particular property. Polk Street Index Directories were available for the area back into the late 1980's. The directories indicated that the property was occupied by Ypsilanti Towing Service and Auto Repair from the 1990's to the early 1980's. Prior to Ypsilanti Towing the property was vacant from the early 1980's to the early 1970's. From the early 1970's to the early 1930's the property was occupied by residential parties for 35, 41 and 47 Water Street.

5.4 REGULATORY FILE REVIEW

The purpose of the regulatory file review is to obtain and review records that will help identify potential environmental concerns in connection with the property or adjoining properties. The primary source of this information is the EDR report (see Appendix D) which presents the findings of a computerized environmental records search for the subject property, adjoining properties, and nearby properties (Inquiry Number 341436 - February 25, 1999). The EDR report documented available information historically found on the following databases: United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, SHWS, landfill databases, UST and LUST information, and state and local Fire Marshal records.

The CERCLIS and NPL databases are prepared under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) by the USEPA. The NPL sites are those sites most in need of remediation and clean-up as promulgated by the EPA and the CERCLIS sites are those under investigation for possible placement on the NPL list. Of the sites listed for the State of Michigan, and those specifically indicated within the radius

area, no NPL or CERCLIS sites were found to be located within a one mile radius of the subject property.

As indicated in the EDR report, three State Hazardous Waste Sites and no landfill sites were identified to be located within a one mile radius of the subject property, none being located on the subject property or adjacent properties, with no evidence to suggest that the subject property may have been adversely environmentally impaired by these sites.

The State of Michigan UST and LUST databases were reviewed. The review indicated that numerous registered UST and LUST sites exist within the area, none being located on the subject property.

A search of the ERNS, SPILLS, TRIS, HMIRS, and Department of Transportation (DOT) records was conducted. The subject property was not found in any of the records.

The HWDMS/RCRIS, and TSCA databases were reviewed. This information indicates the names and addresses of those facilities which generate, store, or dispose of hazardous materials and wastes. This information also indicates the facilities which release toxic reportable quantities of chemicals into the air, water, or land. These facilities are regulated and reviewed by the appropriate federal agencies and must conform with the regulatory acceptable limits and guidelines. These databases only indicate the presence of these types of facilities and do not reflect whether the sites may be contaminated or not in compliance. Based on the nature of the surrounding area, some nearby sites can be found on the database, however, no indication of the potential for direct environmental impairment to the subject property was discovered.

5.5 OTHER HISTORICAL INFORMATION

A site title history was compiled using records available at the Washtenaw County Register of Deeds offices in Ann Arbor, Michigan. The subject property is comprised of four lots of land; lots 6, 7, 8 and 10. The property was historically owned by residential parties.

The current owner of the subject property is Mr. Peter Smith. More specifically, Mr. Smith obtained lot 6 and part of lot 7 on December 18, 1978 (L.1687, P.608) from Spencer and Hazel Davis. Spencer and Hazel Davis obtained the property on August 19, 1960 (L. 922, P. 289) from Margaret Bobonock.

Mr. Peter Smith obtained part of lots 8 and 10 on June 30, 1981 (L. 1806, P. 514) from Maxe A. Obermeyer Jr. Mr. Smith obtained the remainder of lots 7 and 8 from Maxe A. Obermeyer Jr. on May 30, 1979 (L. 1708, P. 649). Mr. Obermeyer obtained lots 7 and 8 on May 18, 1979 (L . 1707, P. 125) from Vivian Pittman. Vivian Pittman obtained lots 7 and 8 on October 24, 1973 (L. 1707, P. 666) from Ollie Childers. The Register of Deeds records correspond with the Polk Street Index Directories, both indicating that the subject property was owned by residential parties.

6.0 PHASE II SITE INVESTIGATION

6.1 SCOPE OF INVESTIGATION

The investigation at Parcels 6 and 8 consisted of advancing two GeoProbe borings, both to a depth of 8 feet below surface grade (bsg). Two soil samples were collected from each boring, one from the surface 0-1 ft, designated sample 'A', the second, designated 'B', from the capillary fringe or other feature, as discussed below.

6.2 INVESTIGATION METHODS

All investigation activities are described in the Quality Assurance Project Plan, the Work Plan/Sampling and Analysis Plan, and the associated Standard Operating Procedures. The following sections provide a brief overview of the methods employed in the investigation.

All soil and groundwater samples collected for laboratory analysis were placed into the appropriate containers in the order of the selected analysis, as follows:

1. Volatile Organic Compounds
2. Semi-Volatile Organic Compounds
3. Polychlorinated Biphenyls & Pesticides
4. Cyanide
5. Metals

All soil samples were collected in the appropriate precleaned (to EPA specifications) containers and stored following United States Environmental Protection Agency (USEPA) Publication SW-846 Method 5035/ASTM D4547-91, final version of March 26, 1998, *Testing Methods for Evaluating Solid Waste*. All soil sample containers were labeled in accordance with the QAPP.

Temporary Monitoring Well Installation

No temporary monitoring wells were installed on these parcels.

Soil Sampling

Soil samples was collected for laboratory analysis based on one or more of the following criteria:

1. Known and/or suspected depth of release (e.g. surface stain, deep machine pit, etc.)
2. Visual identification of soil staining
3. Concentrated petroleum based odors
4. Highest PID level reading
5. Sand to clay interface

Soil samples collected for parameters other than VOCs were homogenized in a stainless-steel bowl with a stainless-steel spoon prior to placement in appropriate sample containers. Following use of the stainless-steel bowl and spoon, this equipment was decontaminated in accordance with ECT SOP-4.

When sampling with a Geoprobe®, the drilling contractor followed the American Society for Testing and Materials publication ASTM D-4700. Using hydraulic drive core/direct-push (Geoprobe®) sampling techniques, continuous soil samples were collected from the soil borings at four-foot intervals, according to ASTM. A clean, plastic sampling sleeve was used for each sample interval. The stainless steel coring sleeve was decontaminated between each boring.

Upon completion of boring, the borehole was backfilled with any remaining cuttings. At a minimum, the upper two feet of the borehole was backfilled with bentonite pellets. Surface materials, such as pavement, asphalt, soil, etc., were utilized to restore the site to its original condition.

Soil samples collected for volatile organic compound (VOCs) analysis were containerized following guidelines established by the USEPA in "*Soil Sample Collection and Methanol Preservation for Volatile Analysis*" and adopted by the Michigan Department of

Environmental Quality, Environmental Response Division (MDEQ, ERD) in "*Procedure: Methanol Preservation of Soil VOC Samples, Environmental Response Division,*" Draft, June 3, 1999.

All weight measurements in this procedure were recorded in an ECT field log book or field form during sample collection. The field sampler also documented the use of the MDEQ guidance in their field logbook and/or on the appropriate field forms whenever collecting samples with methanol preservation on this project.

If no other unpreserved soil samples from the same sample location are being sent to the selected laboratory for analysis (i.e., BNAs, PCBs, Metals, etc.), then approximately 50 grams of soil will also be placed in a clean glass jar without preservative, properly labeled and sent along with the corresponding methanol preserved sample for analysis of percent solids. The properly labeled sample jars will be placed in a bubble wrap bag and secured in an ice-cooled container for shipment to the laboratory for analyses.

Groundwater Sampling

No groundwater samples were collected from these parcels.

Investigation Results

The boring locations are shown on Figure 3 and the logs of the borings are included in Appendix E.

Soils encountered in the borings were typically a mixture of sands with traces of clay and gravel. No apparent fill material was observed in either of the two borings. Saturated soils indicative of groundwater were observed in each boring at a depth of 8 feet.

The laboratory analytical results for the eight soil samples are summarized in Table 1. For volatile organic compounds (page 1 of 4), elevated analytical detection limits reduce the utility of the data.

Several semivolatile organic compounds (page 2 of 4), namely polynuclear aromatic hydrocarbons (PAHs) were detected in trace concentrations in samples from boring 6-1A (0-1 ft) and 8-1A (0-1 ft). Detected concentrations were below the State of Michigan Residential Cleanup Criteria. However, due to laboratory conditions, reflected by the flags in the data tables, many of the concentrations are reported as estimates.

Trace levels pesticides or PCBs (page 3 of 4) were detected, but at levels far below the state criteria.

The analytical results for trace metals and cyanide (page 4 of 4) reveal that several elements (arsenic, barium, copper, lead, mercury, selenium) exceed the State of Michigan default background levels, and in several cases the concentrations exceed the criteria for protection of the groundwater-surface water interface (GSI). For example, all samples contained chromium and cobalt concentrations exceeding the GSI protection criteria. One surface soil sample (8-1A) contained arsenic at a concentration (30.4 mg/kg) above the Residential Direct Contact criterion.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the property located at 35, 41 and 47 Water Street in the City of Ypsilanti, Washtenaw County, Michigan.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and evidence has come to light which would indicate that potential recognized environmental conditions exist with regard to the subject property. Due to the heavy soil staining in the impoundment area and the area along the north side of the building and the metal piles along the east property, ECT recommended that a subsurface environmental evaluation be performed. Soil borings were advanced at two locations on the subject property and the soils were evaluated for the presence of metals, volatile organic compounds, semivolatile organic compounds, and PCBs.

The results of the investigation indicate that several trace metals may be present at elevated concentrations. Additional investigation may be necessary to evaluate local background metals concentrations, and the potential mobility of metals in soils on the property.

8.0 QUALIFICATIONS

This assessment was performed by ECT with standard professional practice using the degree of skill and care exercised for similar projects. The conclusions given by ECT are based on an audit effort to obtain and review reasonably available information on the site and adjacent sites. We have relied upon information provided to us by others and on the accuracy and completeness of the available information. No warranty or conclusions other than those expressly contained within this report are implied or intended. ECT can offer no assurances and assumes no responsibility for the site conditions or activities which were outside the scope of work requested.

Table 1. Analytical Summary Table

Parcel #6 and #8

Page 1 of 4: Volatile Organic Compounds

Sample Number :	EDER5		EDEX5		EDEX3		EDEX4	
Sampling Location :	6-1A, 0-1 ft		6-1B, 6-7 ft		8-1A, 0-1 ft		8-1B, 6-7 ft	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	14:25		14:55		14:05		14:10	
%Moisture :	15		15		9		20	
pH :	8.2		8.6		8.4		8.5	
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Chloromethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Vinyl Chloride	36000	U	24000	UJ	22000	UJ	35000	UJ
Bromomethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Chloroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Trichlorofluoromethane	36000	U	24000	UJ	22000	UJ	35000	UJ
1,1-Dichloroethene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Acetone	310000	J	270000	J	290000	J	300000	J
Carbon Disulfide	36000	U	24000	UJ	22000	UJ	35000	UJ
Methyl Acetate	36000	U	24000	UJ	22000	UJ	35000	UJ
Methylene Chloride	36000		24000	UJ	12000	J	16000	J
trans-1,2-Dichloroethene	36000	U	24000	UJ	22000	UJ	35000	UJ
tert-Butyl Methyl Ether	36000	U	24000	UJ	22000	UJ	35000	UJ
1,1-Dichloroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
cis-1,2-Dichloroethene	36000	U	24000	UJ	22000	UJ	35000	UJ
2-Butanone	36000	U	24000	UJ	22000	UJ	35000	UJ
Chloroform	36000	U	24000	UJ	22000	UJ	35000	UJ
1,1,1-Trichloroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Cyclohexane	36000	U	24000	UJ	22000	UJ	35000	UJ
Carbon Tetrachloride	36000	U	24000	UJ	22000	UJ	35000	UJ
Benzene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,2-Dichloroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Trichloroethene	36000	U	24000	UJ	22000	UJ	35000	UJ
Methylcyclohexane	36000	U	24000	UJ	22000	UJ	35000	UJ
1,2-Dichloropropane	36000	U	24000	UJ	22000	UJ	35000	UJ
Bromodichloromethane	36000	U	24000	UJ	22000	UJ	35000	UJ
cis-1,3-Dichloropropene	36000	U	24000	UJ	22000	UJ	35000	UJ
4-Methyl-2-pentanone	36000	UJ	24000	UJ	22000	UJ	35000	UJ
Toluene	36000	U	24000	UJ	22000	UJ	35000	UJ
trans-1,3-Dichloropropene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,1,2-Trichloroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Tetrachloroethene	36000	U	24000	UJ	22000	UJ	35000	UJ
2-Hexanone	36000	UJ	24000	UJ	22000	UJ	35000	UJ
Dibromochloromethane	36000	U	24000	UJ	22000	UJ	35000	UJ
1,2-Dibromoethane	36000	U	24000	UJ	22000	UJ	35000	UJ
Chlorobenzene	36000	U	24000	UJ	22000	UJ	35000	UJ
Ethylbenzene	62000		51000	J	48000	J	49000	J
Xylenes (total)	220000		150000	J	140000	J	150000	J
Styrene	36000	U	24000	UJ	22000	UJ	35000	UJ
Bromoform	36000	U	24000	UJ	22000	UJ	35000	UJ
Isopropylbenzene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,1,2,2-Tetrachloroethane	36000	U	24000	UJ	22000	UJ	35000	UJ
1,3-Dichlorobenzene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,4-Dichlorobenzene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,2-Dichlorobenzene	36000	U	24000	UJ	22000	UJ	35000	UJ
1,2-Dibromo-3-chloropropane	36000	UJ	24000	UJ	22000	UJ	35000	UJ
1,2,4-Trichlorobenzene	36000	UJ	24000	UJ	22000	UJ	35000	UJ

Table 1. Analytical Summary Table

Parcel #6 and #8

Page 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDER5		EDEX5		EDEX3		EDEX4	
Sampling Location :	6-1A, 0-1 ft		6-1B, 6-7 ft		8-1A, 0-1 ft		8-1B, 6-7 ft	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	14:25		14:55		14:05		14:10	
%Moisture :	15		15		9		20	
pH :	8.2		8.6		8.4		8.5	
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	390	UJ	380	UJ	360	UJ	390	UJ
Phenol	390	U	380	U	360	U	390	U
bis-(2-Chloroethyl) ether	390	U	380	U	360	U	390	U
2-Chlorophenol	390	U	380	U	360	U	390	U
2-Methylphenol	390	U	380	U	360	U	390	U
2,2'-oxybis(1-Chloropropane)	390	U	380	U	360	U	390	U
Acetophenone	390	U	380	U	360	U	390	U
4-Methylphenol	390	U	380	U	360	U	390	U
N-Nitroso-di-n-propylamine	390	U	380	U	360	U	390	U
Hexachloroethane	390	U	380	U	360	U	390	U
Nitrobenzene	390	U	380	U	360	U	390	U
Isophorone	390	U	380	U	360	U	390	U
2-Nitrophenol	390	U	380	U	360	U	390	U
2,4-Dimethylphenol	390	U	380	U	360	U	390	U
bis-(2-Chloroethoxy) methane	390	U	380	U	360	U	390	U
2,4-Dichlorophenol	390	U	380	U	360	U	390	U
Naphthalene	26	J	380	U	360	U	390	U
4-Chloroaniline	390	U	380	U	360	U	390	U
Hexachlorobutadiene	390	U	380	U	360	U	390	U
Caprolactam	390	R	380	R	360	R	390	R
4-Chloro-3-methylphenol	390	U	380	U	360	U	390	U
2-Methylnaphthalene	390	U	380	U	360	U	390	U
Hexachlorocyclopentadiene	390	U	380	U	360	U	390	U
2,4,6-Trichlorophenol	390	U	380	U	360	U	390	U
2,4,5-Trichlorophenol	970	U	970	U	900	U	980	U
1-1'-Biphenyl	390	U	380	U	360	U	390	U
2-Chloronaphthalene	390	U	380	U	360	U	390	U
2-Nitroaniline	970	U	970	U	900	U	980	U
Dimethylphthalene	390	U	380	U	360	U	390	U
2,6-Dinitrotoluene	390	U	380	U	360	U	390	U
Acenaphthylene	83	J	380	U	46	J	390	U
3-Nitroaniline	970	U	970	U	900	U	980	U
Acenaphthene	390	U	380	U	360	U	390	U
2-4-Dinitrophenol	970	UJ	970	UJ	900	UJ	980	UJ
4-Nitrophenol	970	U	970	U	900	U	980	U
Dibenzofuran	390	U	380	U	360	U	390	U
2,4-Dinitrotoluene	390	U	380	U	360	U	390	U
Diethylphthalate	390	U	380	U	360	U	390	U
Fluorene	390	U	380	U	360	U	390	U
4-Chlorophenyl-phenyl ether	390	U	380	U	360	U	390	U
4-Nitroaniline	970	U	970	U	900	U	980	U
4,6-Dinitro-2-methylphenol	970	U	970	U	900	U	980	U
N-Nitrosodiphenylamine	390	U	380	U	360	U	390	U
4-Bromophenyl-phenylether	390	U	380	U	360	U	390	U
Hexachlorobenzene	390	U	380	U	360	U	390	U
Atrazine	390	U	380	U	360	U	390	U
Pentachlorophenol	970	U	970	U	900	U	980	U
Phenanthrene	180	J	380	U	82	J	390	U
Anthracene	74	J	380	U	29	J	390	U
Carbazole	20	J	380	U	360	U	390	U
Di-n-butylphthalate	42	J	25	J	66	J	390	U
Fluoranthene	630		380	U	210	J	390	U
Pyrene	620		380	U	180	J	390	U
Butylbenzylphthlate	390	U	380	U	360	U	390	U
3,3'-Dichorobenzidine	390	U	380	UJ	360	U	390	UJ
Benzo(a)anthracene	410		380	U	120	J	390	U
Chrysene	420		380	U	110	J	390	U
bis(2-Ethylhexyl)phthalate	390	U	380	UJ	360	U	390	U
Di-n-octylphthalate	390	U	380	U	360	U	390	U
Benzo(b)fluoranthene	380	J	380	U	110	J	390	U
Benzo(k)fluoranthene	420	J	380	U	130	J	390	U
Benzo(a)pyrene	410		380	U	110	J	390	U
Indeno(1,2,3-cd)pyrene	280	J	380	U	81	J	390	U
Dibenzo(a,h)anthracene	120	J	380	U	24	J	390	U
Benzo(g,h,I)perylene	330	J	380	U	94	J	390	U

Table 1. Analytical Summary Table

Parcel #6 and #8

Page 3 of 4: Pesticides and PCBs

Sample Number :	EDER5		EDEX5		EDEX3		EDEX4	
Sampling Location :	6-1A, 0-1 ft		6-1B, 6-7 ft		8-1A, 0-1 ft		8-1B, 6-7 ft	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/18/1999		11/18/1999		11/18/1999		11/18/1999	
Time Sampled :	14:25		14:55		14:05		14:10	
%Moisture :	15		15		9		20	
pH :	8.2		8.6		8.4		8.5	
Dilution Factor :	10.0		1.0		10.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	20	U	1.9	U	18	U	2.0	U
beta-BHC	20	U	1.9	U	18	U	2.0	U
delta-BHC	20	U	1.9	U	18	U	2.0	U
gamma-BHC (Lindane)	20	U	1.9	U	18	U	2.0	U
Heptachlor	20	U	1.9	U	18	U	2.0	U
Aldrin	20	U	1.9	U	18	U	2.0	U
Heptachlor epoxide	20	U	1.9	U	18	U	2.0	U
Endosulfan I	20	U	1.9	U	18	U	2.0	U
Dieldrin	39		3.8	U	8.1	J	3.9	U
4-4'-DDE	130		3.8	U	34	U	3.9	U
Endrin	38	U	3.8	U	34	U	3.9	U
Endosulfan II	38	U	3.8	U	34	U	3.9	U
4-4'-DDD	28	J	3.8	U	34	U	3.9	U
Endosulfan sulfate	38	U	3.8	U	34	U	3.9	U
4-4'-DDT	98	J	3.8	UJ	34	UJ	3.9	UJ
Methoxychlor	200	UJ	19	UJ	180	UJ	20	UJ
Endrin ketone	38	U	3.8	U	34	U	3.9	U
Endrin aldehyde	38	U	3.8	U	34	U	3.9	U
alpha-Chlordane	6.1	J	1.9	U	18	U	2.0	U
gamma-Chlordane	6.9	J	1.9	U	18	U	2.0	U
Toxaphene	2000	U	190	U	1800	U	200	U
Aroclor-1016	380	U	38	U	340	U	39	U
Aroclor-1221	770	U	76	U	700	U	78	U
Aroclor-1232	380	U	38	U	340	U	39	U
Aroclor-1242	380	U	38	U	340	U	39	U
Aroclor-1248	380	U	38	U	340	U	39	U
Aroclor-1254	380	U	38	U	340	U	39	U
Aroclor-1260	380	U	38	U	340	U	39	U

Table 1. Analytical Summary Table

Parcel #6 and #8

Page 4 of 4: Metals and Cyanide

Sample Number :	MECLR6		MECBQ2		MECBQ0		MECBQ1	
Sampling Location :	6-1A, 0-1 ft		6-1B, 6-7 ft		8-1A, 0-1 ft		8-1B, 6-7 ft	
Matrix :	Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/18/99		11/18/99		11/18/99		11/18/99	
Time Sampled :	14:15		14:55		14:05		14:10	
%Moisture :	15.7		20.3		16.3		17.1	
pH :	8.2		8.6		8.4		8.5	
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	2970		2750		4350		3650	
Antimony	0.97	J	0.52	UJ	0.73	J	0.57	J
Arsenic	6.9		5.6		30.4		7.3	
Barium	104		104		158		98.8	
Beryllium	0.23		0.2		0.42		0.24	
Cadmium	0.65	J	0.07	J	2.1		2.2	
Calcium	116000	J	122000	J	46900	J	95300	J
Chromium (total)	7.7		5.4		12.4		8	
Cobalt	3.3		2.9		5		3.2	
Copper	36.5	J	5.8	J	36	J	16	J
Iron	10800		10400		15800		12100	
Lead	52.2	J	4.5	J	156	J	24.1	J
Magnesium	30800		8800		7380		8620	
Manganese	583		437		894		567	
Mercury	0.16		0.06	U	0.48		0.09	
Nickel	11.2		6.8		14		8.6	
Potassium	443		338		1050		542	
Selenium	0.42	U	0.45	U	0.42	U	0.43	U
Silver	0.42	J	0.35	J	0.89	J	0.38	J
Sodium	87.4	J	127	J	70.1	J	37	U
Thallium	0.49	U	0.52	U	0.49	U	0.5	U
Vanadium	8.1		7.7		11.1		8.9	
Zinc	115		23.8		514		547	
Cyanide	0.38	J	0.06	UJ	0.36	J	0.13	J

CADRE Data Qualifier Sheet

Qualifiers

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

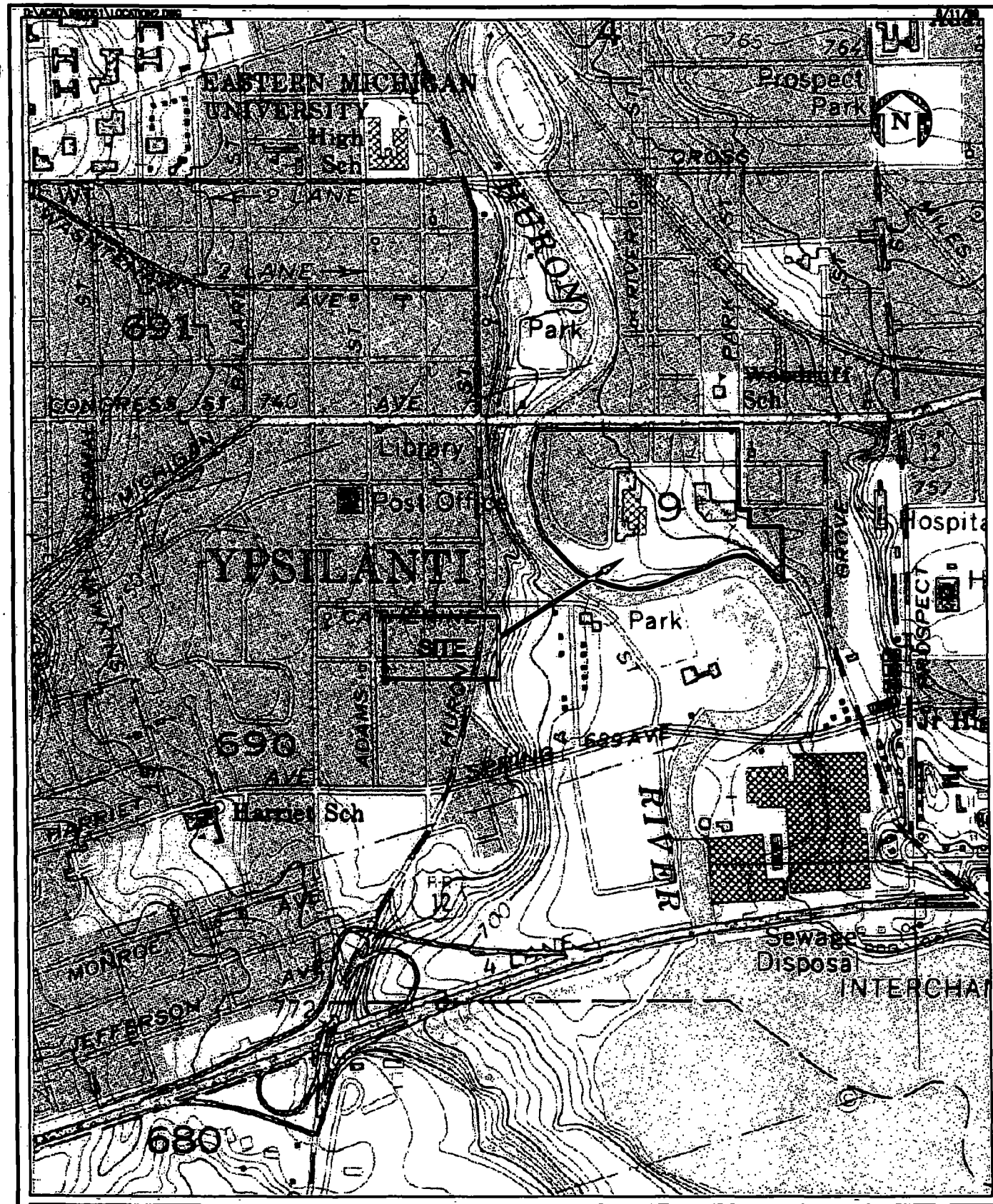

FIGURE 1
SITE LOCATION MAP

Source: ECT, 1998.

YPSILANTI BROWNFIELD PILOT PROJECT REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 2600
Detroit, Michigan 48226
Phone: (313) 533-8800 Fax: (313) 963-1707

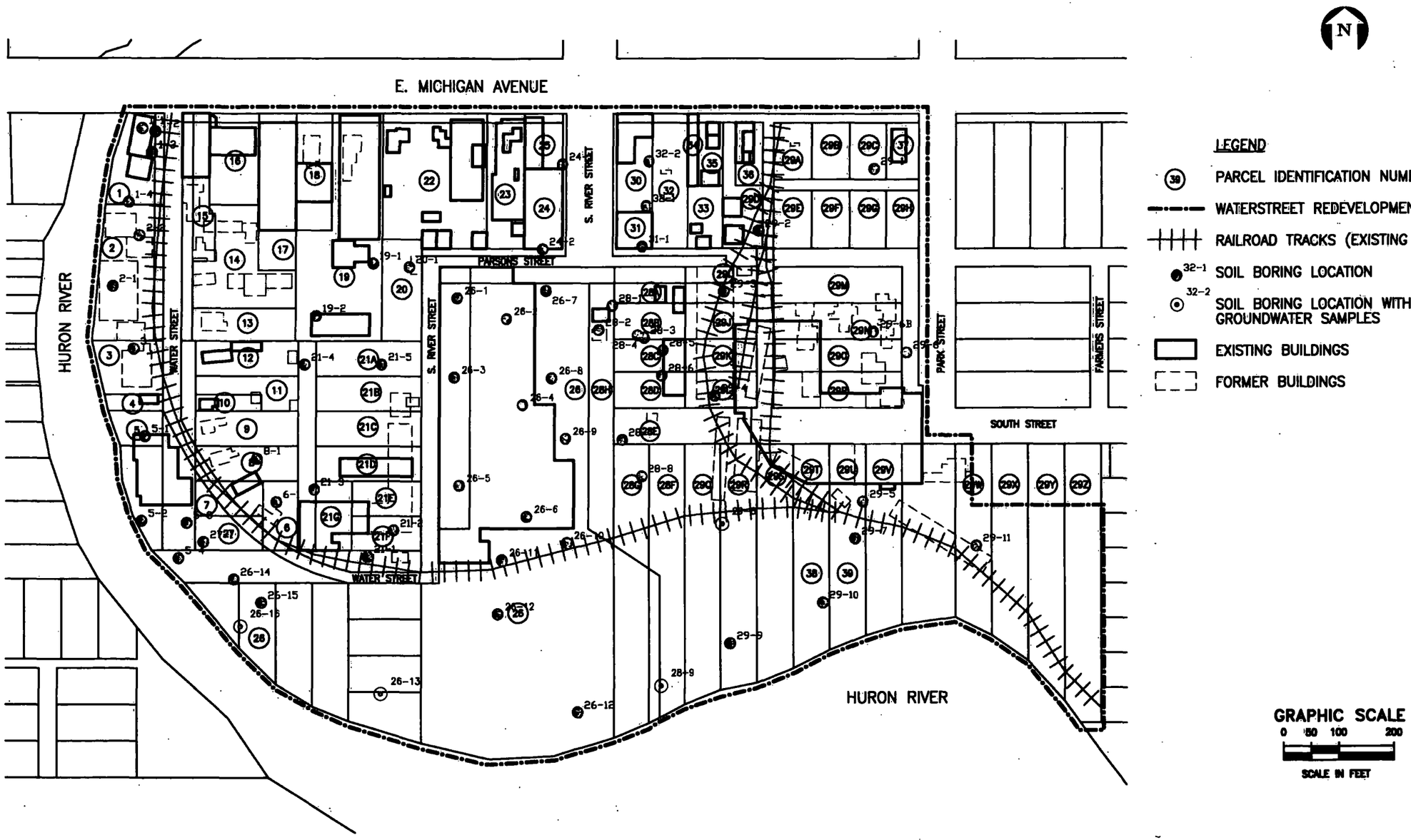

FIGURE 2.
WATER STREET REDEVELOPMENT AREA SITE MAP

Source: ECT, 2000.

YPSILANTI BROWNFIELD PILOT PROJECT
WATER STREET REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Boulevard
Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

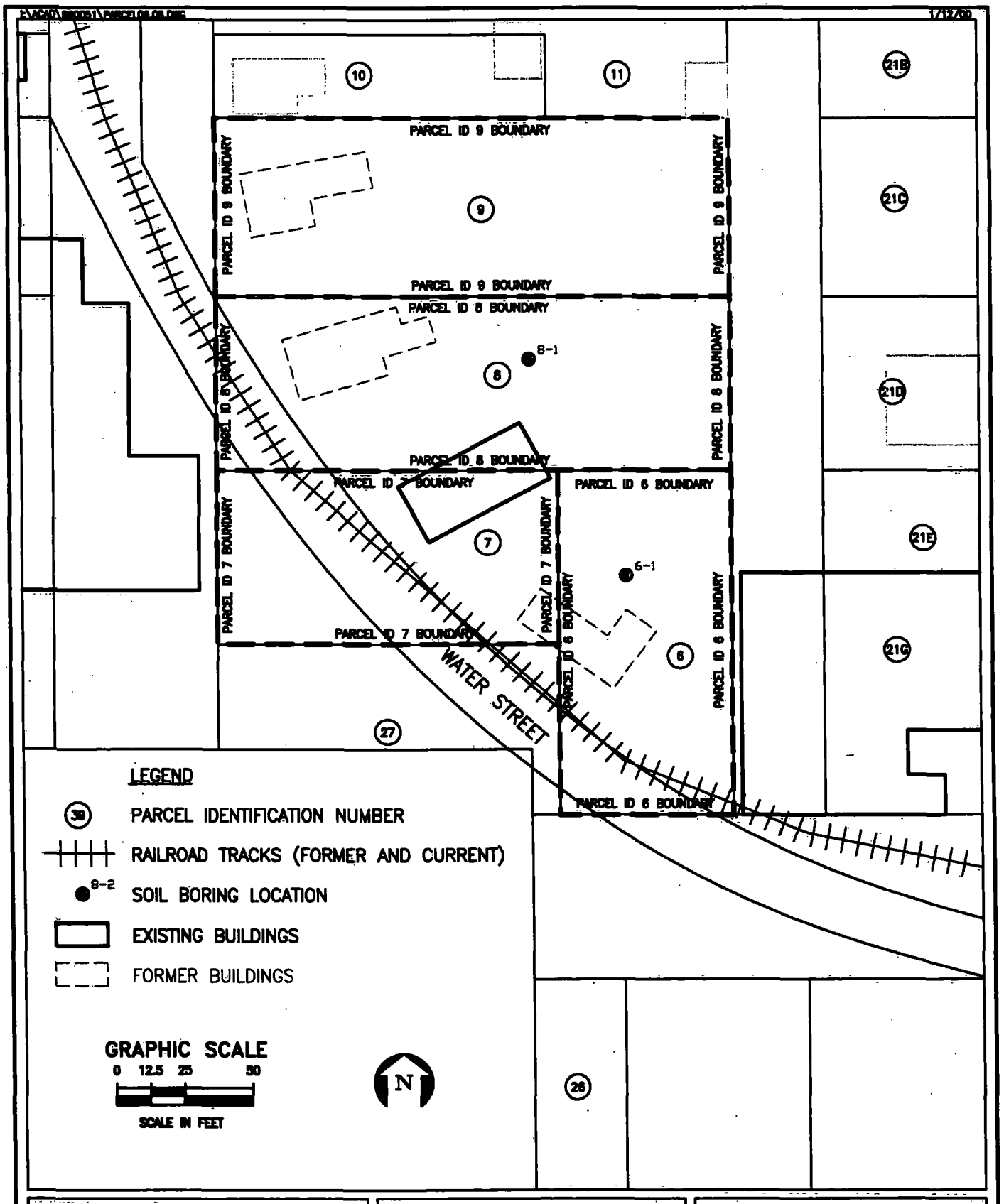

FIGURE 3.
PARCEL ID #6 and #8
SITE MAP
Source: ECT, 2000.

REDEVELOPMENT AREA
47 WATER STREET
YPSILANTI, MICHIGAN

ECT
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Detroit, Michigan 48226
Phone: (313) 963-6900 Fax: (313) 963-1707

APPENDIX A

AERIAL PHOTOGRAPHS

1978 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1949 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

1969 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3900
Detroit, Michigan 48226

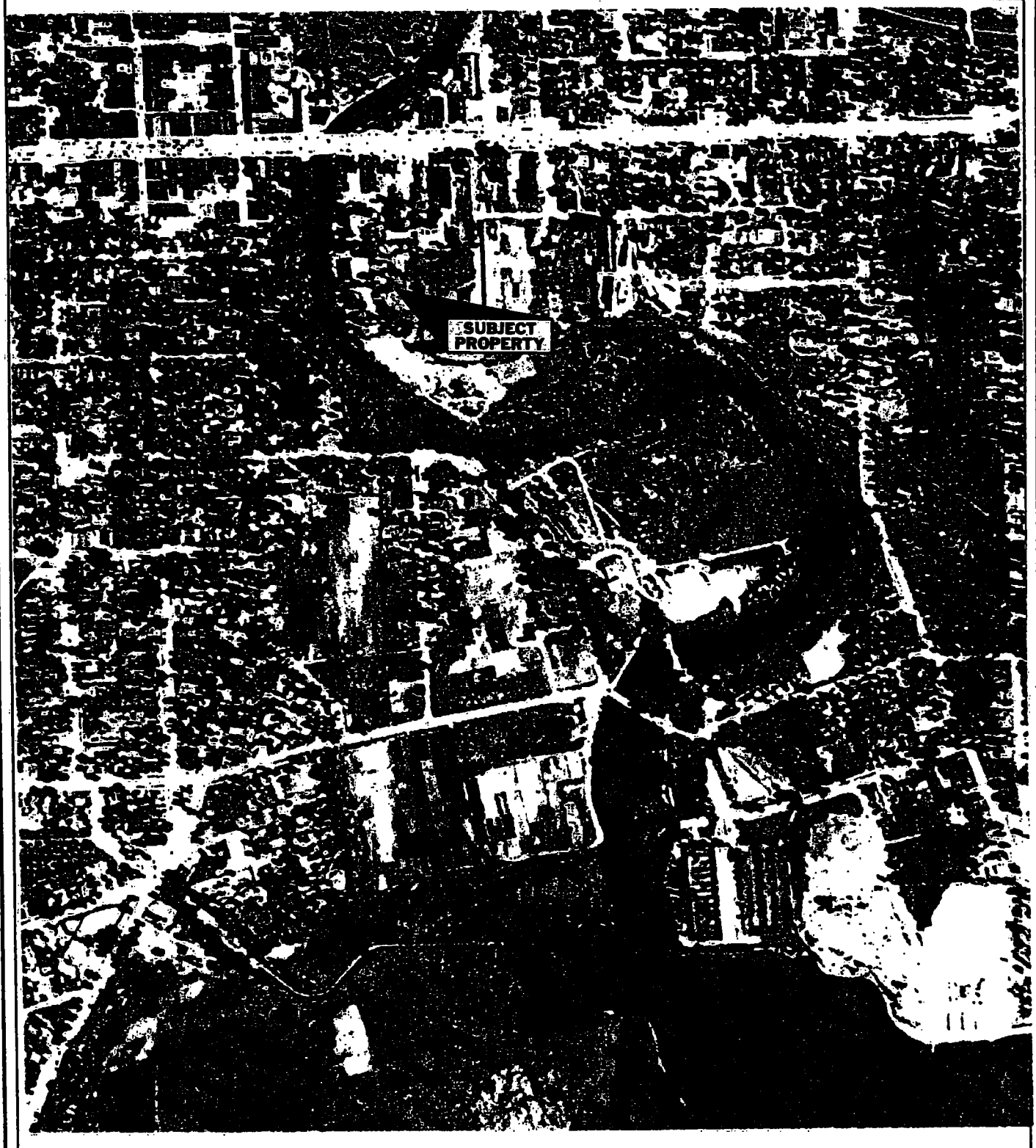
1963 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99



1940 AERIAL PHOTOGRAPH

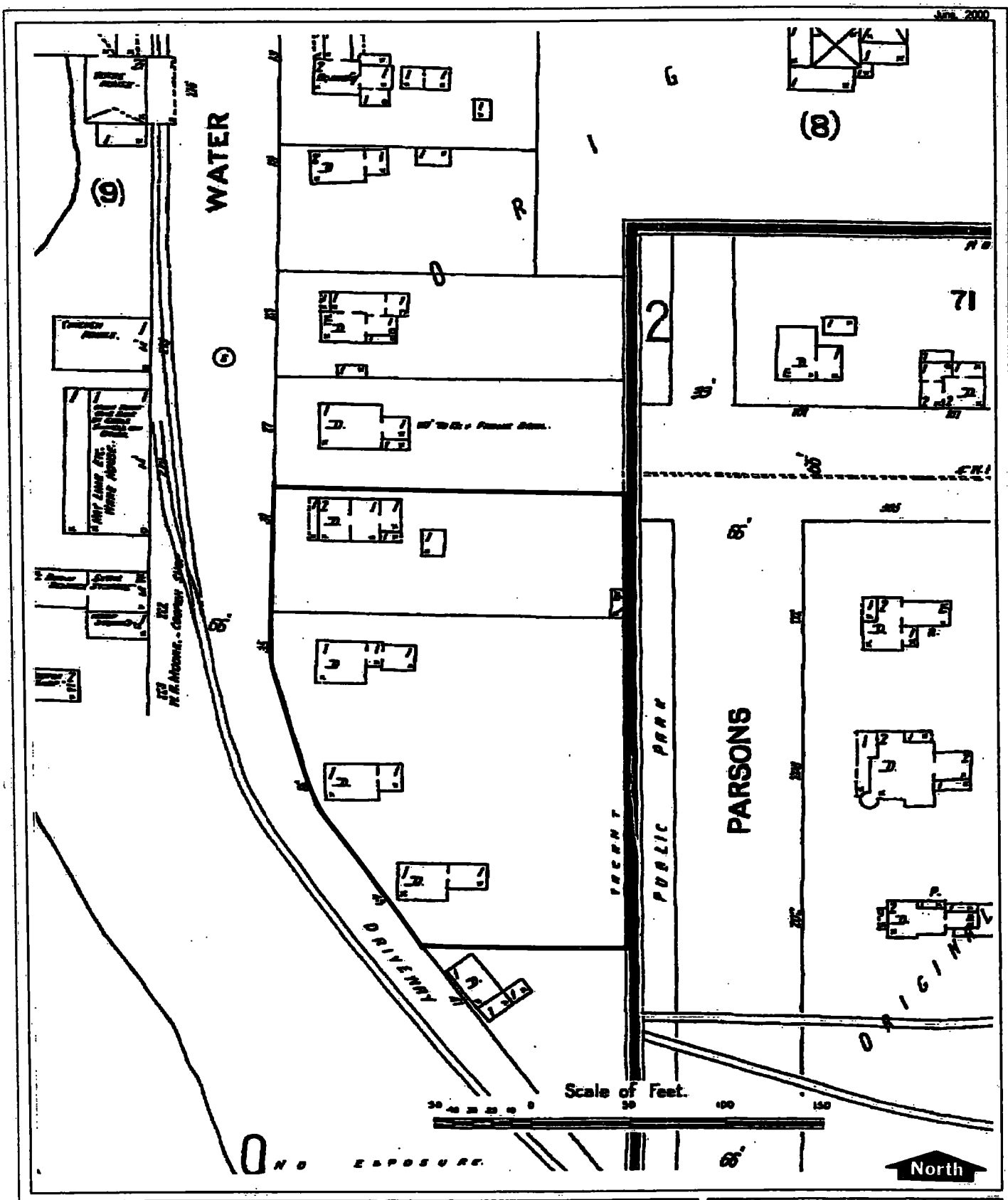
Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1949 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

APPENDIX B

SANBORN FIRE INSURANCE MAPS



Sanborn Fire Insurance Map, 1899

Source: ECT, 2000.

Smith Property
Ypsilanti, MI
Washtenaw County

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The Book Tower
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Detroit, Michigan 48226
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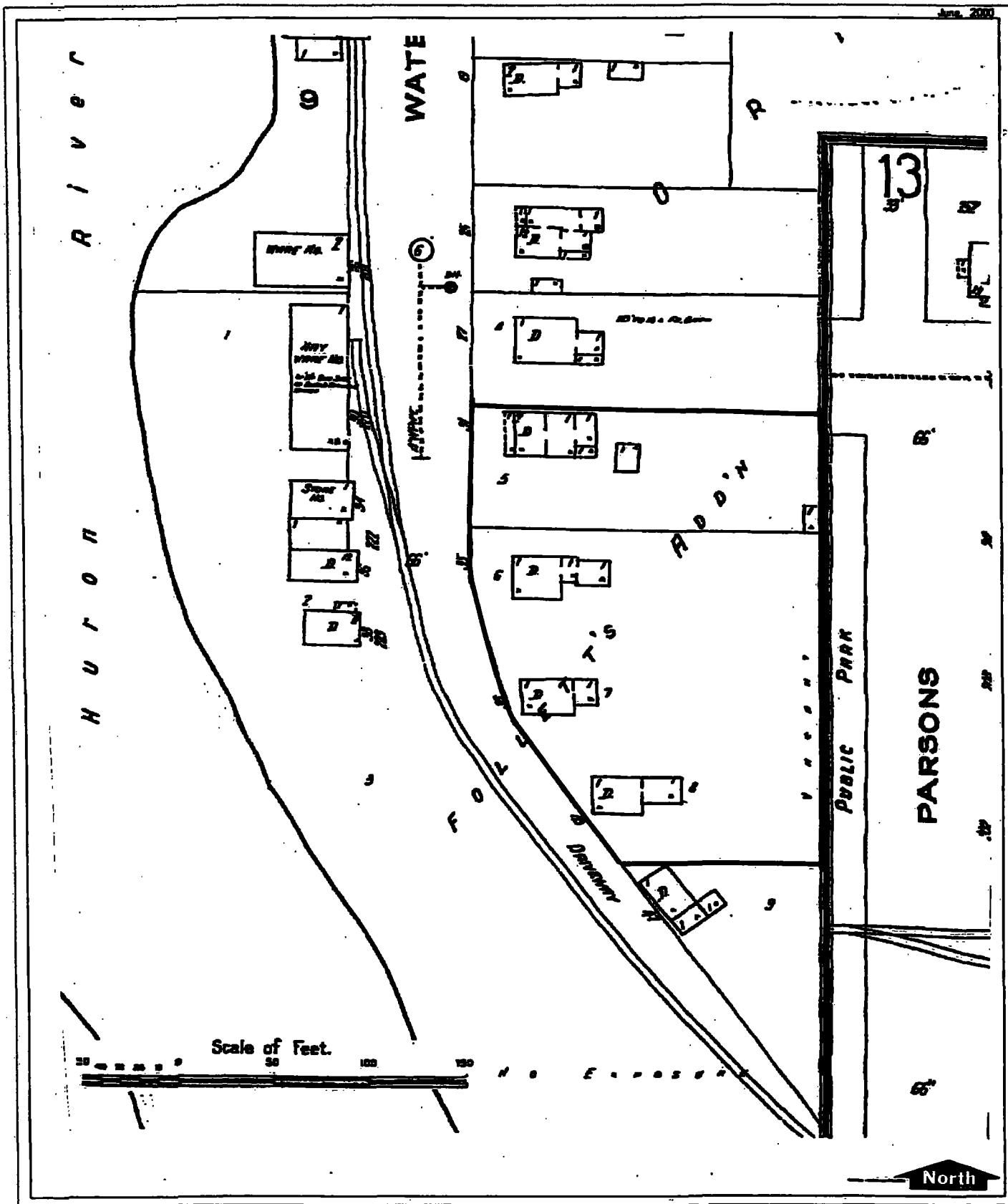

Sanborn Fire Insurance Map, 1909

Source: ECT, 2000.

Smith Property
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Washtenaw County

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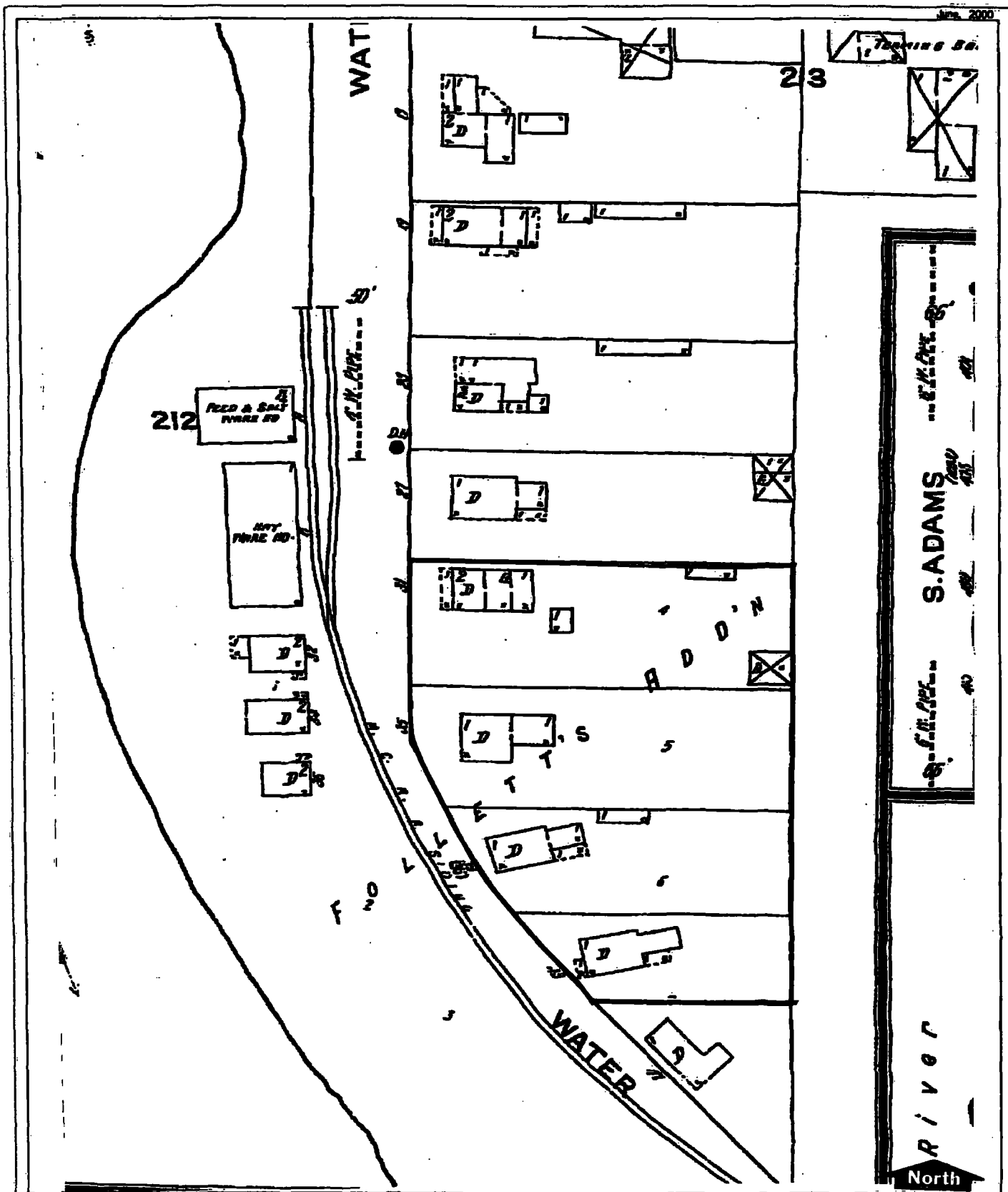

Sanborn Fire Insurance Map, 1916

Source: ECT, 2000.

Smith Property
Ypsilanti, MI
Washtenaw County

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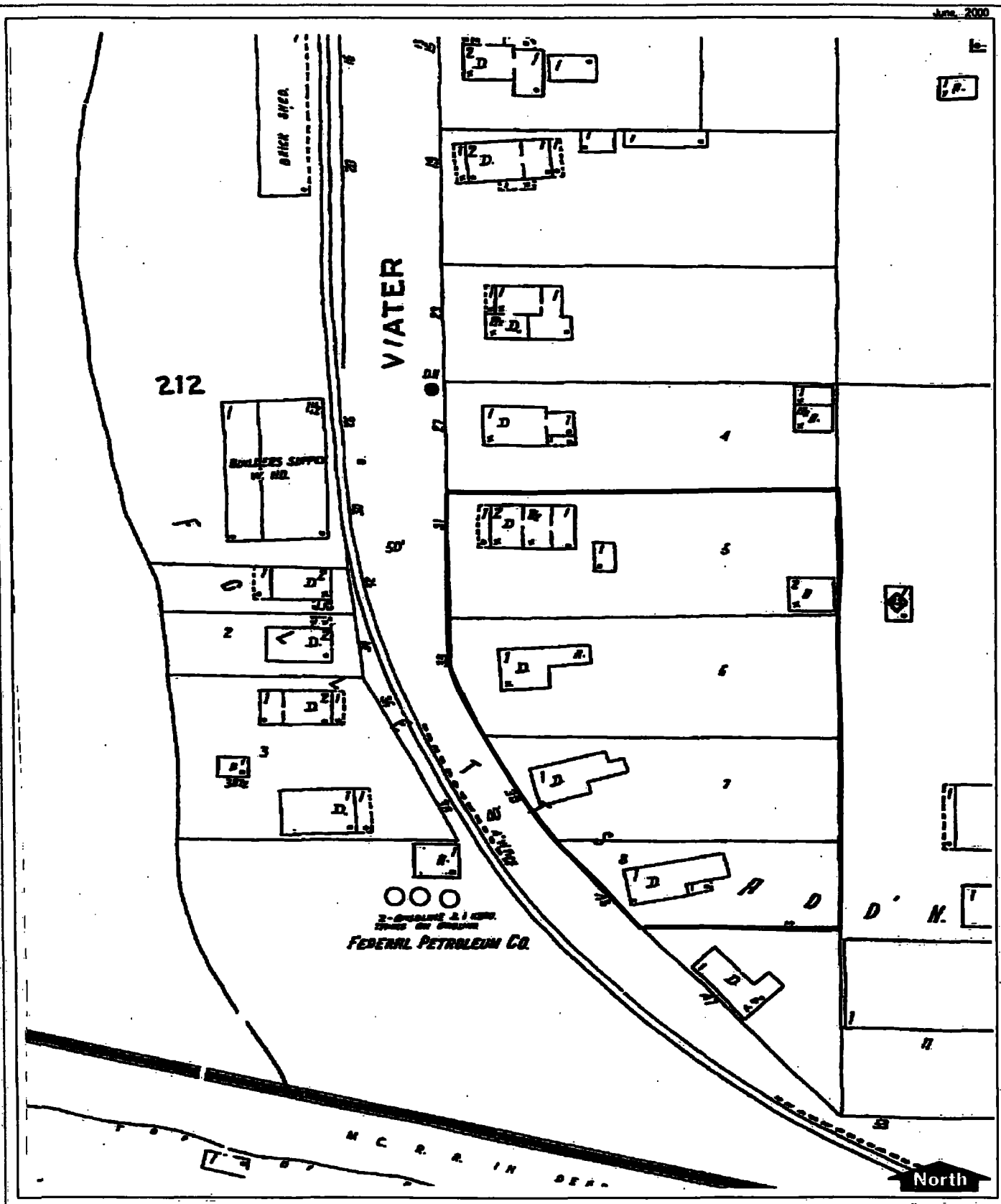
June, 2000



Sanborn Fire Insurance Map, 1927

Source: ECT, 2000.

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Washtenaw County

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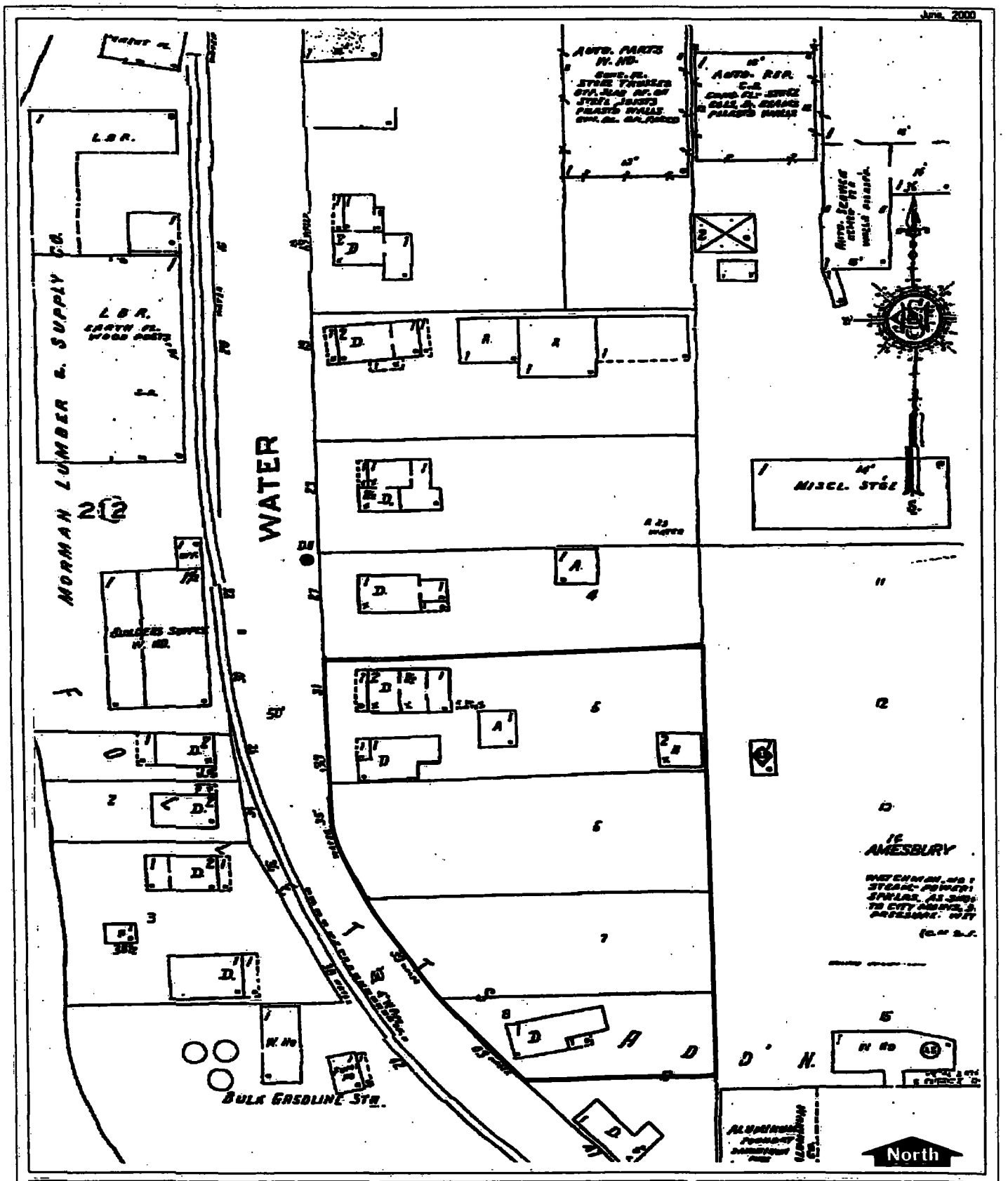

Sanborn Fire Insurance Map, 1950

Source: ECT, 2000.

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Washtenaw County

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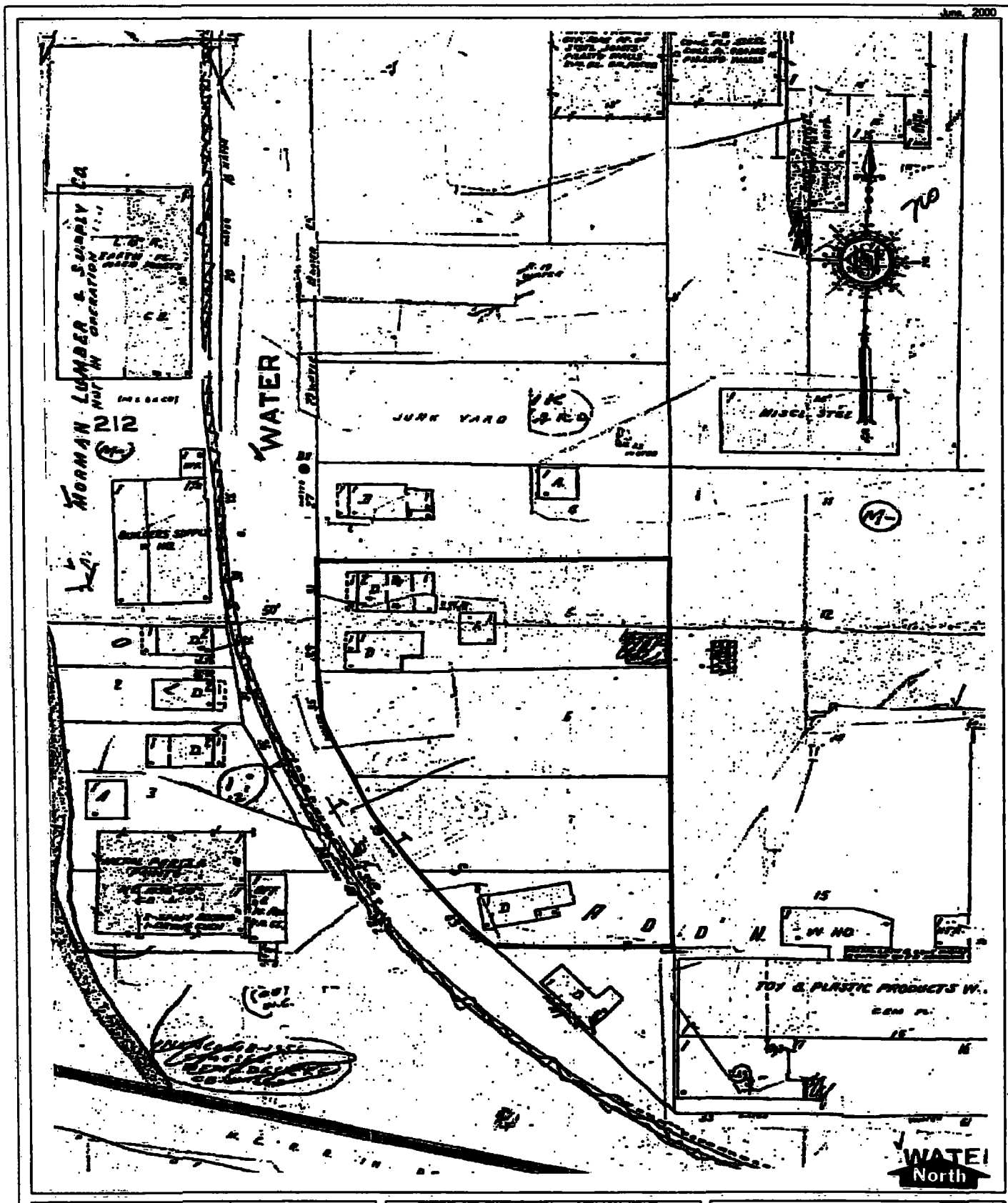
June, 2000



Sanborn Fire Insurance Map, 1964

Source: ECT, 2000.

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Washtenaw County

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The Book Tower
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Detroit, Michigan 48226
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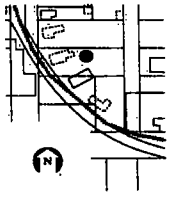
APPENDIX C

SOIL BORING LOGS

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	8-1	LOCATION	Ypsilanti, Michigan
DATE	11/18/99	WEATHER	Cloudy, 50-60°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	* Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	24"		Light brown SAND, trace fine to medium gravel, tracy clay dry to damp	
				2				
				3				
				4				
				5	30"		Dark to light brown SAND with clay, trace fine gravel, moist to wet	
				6				
	B			7				
				8				
				9			End of boring 8'	
				10				
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

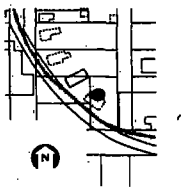
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-4600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	6-1	LOCATION	Ypsilanti, Michigan
DATE	11/18/99	WEATHER	Cloudy, 50-60°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1			Dark brown SAND, trace fine to medium gravel, damp	
				2	24"		Dark brown SAND with clay, trace fine to medium gravel, moist	
				3				
				4				
				5			Light brown SAND, trace clay, trace medium gravel, moist	
				6	18"			
	B			7				
				8				
				9			End of boring 8'	
				10				
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL SITE ASSESSMENT
CANTON ANALYTICAL LABS PROPERTY
Parcels #13 and 19
23 WATER ST. & 20 E. MICHIGAN AVE.
YPSILANTI, MICHIGAN

PREPARED BY:

ECT

Environmental Consulting & Technology, Inc.

1249 WASHINGTON BLVD.
SUITE 3500
DETROIT, MICHIGAN 48226

JUNE 2000
PROJECT NO: 99-0051

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1.0 EXECUTIVE SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the property located at 23 Water Street and 20 East Michigan Avenue in the City of Ypsilanti, Washtenaw County, Michigan. The property consists of two rectangular shaped parcels of land approximately 1.43 acres in size. The larger parcel is located along East Michigan Avenue between Water Street and River Street. A smaller parcel located along Water Street provides vehicle access to the property. The property is occupied by an analytical laboratory.

The subject property was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination, which may have been present. However, a visual inspection of the interior of the building was not conducted; therefore, the observations made and stated within this report are pertaining to the exterior of the building and surrounding property only.

No unusual odors or stressed vegetation were observed during the site reconnaissance. No stained soils or other evidence of spills or chemical mishandling was observed.

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. No ASTs or UST were found to be present on the property. No suspect PCB containing equipment was observed on the property. No suspect ACM was observed on the property. No imported fill material was observed.

A review of the regulatory history of the site and area and other historical records was conducted in order to assure that no potentially environmentally impairing activities or conditions had occurred in the past or might be currently occurring with regard to the site. The records review revealed that the adjacent property to the east was formerly an auto sales and repair facility; however, a baseline environmental assessment has been conducted on the property. Therefore, this adjacent property is not deemed to be a significant environmental risk. The adjacent property to the west was also formerly an auto sales and repair facility.

This westerly site has had its UST's removed and has been given a commercial closure. Therefore, because no off-site contamination was determined to be above residential criteria, this site is not likely to pose a significant environmental risk to the Subject Property. The Subject Property was formerly utilized as a newspaper press and as an auto service facility.

Federal, State and local environmental records were reviewed and a commercial database search was commissioned. These included the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Resource Conservation and Recovery Information System (RCRIS), Emergency Response Notification System (ERNS), Hazardous Materials Incident Report System (HMIRS), Toxic Release Inventory System (TRIS), and Toxic Substances Control Act (TSCA) databases. They also included the State Hazardous Waste Sites (SHWS), registered underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, and landfill sites. The result of this review has indicated the presence of CERCLIS-NFRAP, SHWS, RCRIS, UST, LUST, and TRIS sites located within the one-mile radius of the subject property. However, a review of the available information for the sites has indicated that it is unlikely that releases from any of these sites have impacted the Subject Property.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice. Because the prior uses of the Subject Property have included an auto repair facility and a newspaper press and because it is unknown as to what chemicals may have been used and the handling practices of the these chemicals, a sub-surface investigation was conducted on the Subject Property to determine if the Subject Property has been impacted by its former occupants.

Two GeoProbe soil borings were advanced on the parcels, with two soil samples collected from each, one from the surface and one from a depth of 12 to 15 feet below the surface. The results reveal the presence of several polynuclear aromatic hydrocarbons, some at concentrations exceeding State of Michigan residential cleanup criteria.

Also detected were several trace metals at concentrations exceeding typical background levels. One sample contained arsenic at a concentration exceeding the State of Michigan cleanup criteria. It is possible that this concentration is representative of local or regional background concentrations. A further assessment of the arsenic concentrations at this property may be warranted, with the objectives of a broader evaluation of the local background levels and the potential for leaching of the metal from the soil.

2.0 PURPOSE AND SCOPE

Environmental Consulting & Technology, Inc. (ECT) was retained by the Community and Economic Development Department of the City of Ypsilanti under the Brownfield Redevelopment Pilot Project to conduct a Phase I Environmental Site Assessment of the facility and property, commonly known as the Canton Analytical Lab property, located at 20 East Michigan Avenue and 23 Water Street in the City of Ypsilanti, Michigan. The objective of this assessment was to evaluate the present environmental condition of the property for potential environmental impairment or contamination that, if present, may result in unacceptable financial and ownership risks and liability. This assessment was conducted from March 1999 through July 2000 with Mr. Dirk Mammen, Senior Scientist with ECT, conducting the site reconnaissance in May 2000. This report was based upon information collected through the following activities:

- Visual assessment of the property and structures.
- Evaluation of potential environmental impacts from proximate properties.
- Evaluation of past usage through the review of historical maps/photographs, government regulatory agency data, historical records, and discussions with persons familiar with the site and local area.
- Review of available environmental incident reports contained in records and databases from the appropriate regulatory agencies.
- Review of known sites of contamination from the state and federal agency sources, including the CERCLIS, NPL, Landfill lists, LUST sites, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, and other available sources.
- A review of registered USTs and Aboveground Storage Tanks (ASTs) in the proximate

- A visual survey of construction materials to determine whether suspect asbestos containing materials (ACMs) are present.

- A survey of the electrical equipment which may have PCB containing oils.

- A preliminary subsurface investigation consisting of Geoprobe borings and soil sampling and analysis.

3.0 PHYSICAL SITE ASSESSMENT

3.1 SITE LOCATION

The subject property, commonly known as the Canton Analytical Lab property, is located along at 20 East Michigan Avenue and 23 Water Street in the City of Ypsilanti, Washtenaw County, Michigan (Figure 1). The subject property, as indicated on the Ypsilanti East Quadrangle U.S.G.S. 7.5 minute topographic map, is located in Section 9, Township 3 South, Range 7 East, City of Ypsilanti, County of Washtenaw, State of Michigan.

3.2 GENERAL SITE DESCRIPTION

The property consists of two rectangular shaped parcels of land approximately 1.43 acres in size and is occupied by a 20,000 square feet building utilized as an analytical laboratory. A vacant parcel along Water Street provides access to the property from the west.

Geologic information was obtained from available U.S. Geological Survey reports, U.S.G.S. topographic maps, and other available local geological informational papers. The elevation of the Water Street area ranges from approximately 700-750 feet above mean sea level (ft-msl) as indicated on the U.S.G.S. Ypsilanti East Quadrangle topographic map. The land in this area is generally flat lying.

3.3 SOLID AND HAZARDOUS WASTES

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present. Items that typically represent the potential for environmental contamination include chemical spills and leaks, ground discoloration and disturbances, unusual odors, and the improper storage of solid, liquid, or gaseous products and wastes. No unusual odors or stressed vegetation were observed during the site reconnaissance. No visual indication of historical hazardous material storage or disposal resulting in possible adverse site impairment was discovered during the site reconnaissance on the subject property or adjacent properties. No staining or

soil discoloration was observed on the property. No fill material or debris was encountered on the property.

3.4 STORAGE TANKS

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. No evidence of the presence or former presence of ASTs or USTs located on the subject property or on adjacent properties was observed. No staining or soil discoloration was observed on the ground. A review of historical UST locations in the area is included in Section 5.0.

3.5 POLYCHLORINATED BIPHENYLS

PCBs have been used in some electrical equipment, transformers, capacitors, fluorescent light ballasts, and hydraulic systems. The visual inspection of this property does not indicate the presence of any suspect hydraulic equipment, transformers, capacitors, or other electrical equipment; however, because the Subject Property was formerly used as an auto repair facility, it is possible that hydraulic lifts were utilized in the former repair area of the building.

3.6 ASBESTOS CONTAINING MATERIALS (ACMs)

A visual survey of building materials was conducted to determine whether suspect ACMs were present on the subject site. Asbestos was used primarily in the 1950s through 1970s in a wide variety of construction and insulative materials. Asbestos can become an environmental and/or health risk when asbestos fibers are released into the air and inhaled or ingested. No suspect ACM was observed on property.

3.7 FILL MATERIALS

A subsurface investigation was conducted on the Subject Property and no evidence was encountered that indicated imported fill materials and/or construction and demolition debris

had been deposited on the site. The laboratory results of soil samples taken from the property are discussed in Section 6.0.

4.0 CURRENT LAND USE

The subject property is currently owned by Ms. Marie Reckshan and is utilized as an analytical laboratory.

The surrounding properties in the Water Street area principally involved with various retail, packaging/distribution, commercial or office operations. No heavy manufacturing or large quantity chemical use operations were observed within the area or on the subject property.

5.0 SITE HISTORY AND RECORDS REVIEW

A site history was compiled by researching the records maintained at applicable federal, state, county and local regulatory agencies, including a commission of an environmental database. The database searched was based on a radius search of the site and area. The regulatory file review was performed in order to confirm that information which was presented on the database and to search for any sites that may have been missed by the data search. In addition, those sites that were in close enough proximity to the site or which were of concern were investigated in greater detail. These included the United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, landfill databases, UST and LUST information, and state and local Fire Marshal records.

5.1 AERIAL PHOTOGRAPHY

Available aerial photography of the site and surrounding area was reviewed. Aerial photographs were reviewed for the years 1940, 1963, 1969 and 1978. Several unidentified structures were observed to be present on the Subject Property in all of the aerial photographs. Copies of the aerial photographs are included in Appendix B.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps are historical map records primarily used by insurance companies to assess fire risks for a particular property and can offer valuable information regarding the presence of USTs, ASTs, and types of businesses and operations that have occupied a particular property. A search for available Sanborn Fire Insurance maps was performed for the years 1899, 1909, 1916, 1927, 1950, and 1964. The Sanborn Maps indicate that the Subject Property was occupied by several dwellings from 1899 to 1916. According to the 1927 Sanborn Map, an auto sales and repair facility occupied the northern portion of the property and a printing facility occupied the southern portion. The auto sales and repair facility remained on the property on both the 1950 and 1964 Sanborn Maps. Copies of the Sanborn maps are included in Appendix C.

5.3 STREET INDEX DIRECTORIES

Polk Street Index Directories were reviewed at the Ann Arbor Public Library in Ann Arbor, Michigan. These directories are used to provide historical information pertaining to the name addressed to a particular property. According to the Polk Street Index Directories, the Subject Property was occupied by an auto sales business from 1930 to 1935. The Ypsilanti Savings Bank occupied the property in 1940 and the building was vacant by 1945. Several auto sales and repair dealers occupied the property from 1951 to the mid 1960's. The property was vacant from 1965 until 1970 when it was acquired by the Ypsilanti Press and utilized as a newspaper press until 1990. The building is currently utilized as an analytical laboratory.

5.4 REGULATORY FILE REVIEW

The purpose of the regulatory file review is to obtain and review records that will help identify potential environmental concerns in connection with the property or adjoining properties. The primary source of this information is the EDR report (see Appendix D) which presents the findings of a computerized environmental records search for the subject property, adjoining properties, and nearby properties (Inquiry Number 341436 - February 25, 1999). The information contained within the EDR report was obtained from the following environmental databases: United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, SHWS, landfill databases, UST and LUST information, and state and local Fire Marshal records.

The CERCLIS and NPL databases are prepared under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) by the USEPA. The NPL sites are those sites most in need of remediation and clean up as promulgated by the EPA. CERCLIS sites are those sites under investigation for possible placement on the NPL list. Of the sites listed for the State of Michigan, and those specifically indicated within the radius area, no NPL or CERCLIS sites were found to be located within a one mile radius of the subject property.

CERCLIS – NFRAP sites are those CERCLIS sites that have been granted a "No Further Remedial Action Plan" status and do not require any additional investigation. Two CERCLIS-NFRAP sites have been identified within the search radius of the Subject Property.

Because these sites are not located on the Subject Property or the adjoining properties and because they do not require any further remedial action, they are not deemed to be a significant environmental risk to the Subject Property.

As indicated in the EDR report, three State Hazardous Waste Sites (SHWS) have been identified within a one mile radius of the subject property. Two of these sites are not located on the subject property or adjacent properties and there is no evidence to suggest that the subject property has been adversely environmentally impacted from these sites. One of the sites, Midtown Auto, was formerly located on the adjacent property to the west; however, this site has been given a commercial closure and no offsite contamination was determined to be above residential criteria. There are no Landfill sites identified within a one-mile radius of the Subject Property.

The State of Michigan UST and LUST databases were reviewed. The review indicated that approximately 50 registered UST and LUST sites exist within a one-mile radius from the Subject Property. The Subject Property is not identified as a UST or LUST site. The adjacent property to the east and the adjoining property to the north are identified on the UST and LUST databases. The LUST site to the north has been given closure status; therefore, it is unlikely that releases from this site have impacted the Subject Property. The property to the east is identified as a UST site and has two 1,000-gallon steel tanks currently in use. A baseline environmental assessment was conducted on this property; therefore, it is unlikely that releases from this site have impacted the Subject Property.

A search of the ERNS and HMIRS records was conducted. The subject property was not found on any of these databases. Two sites were identified on the TRIS database; however, these sites are no located on the Subject Property or any of the adjoining properties. Therefore, these two TRIS sites are not deemed to be a significant environmental risk to the Subject Property.

The HWDMS/RCRIS, and TSCA databases were reviewed. This information indicates the names and addresses of those facilities that generate, store, or dispose of hazardous materials and wastes. This information also indicates the facilities that release reportable quantities of toxic chemicals into the air, water, or land. These facilities are regulated and reviewed by the appropriate federal agencies and must conform with the regulatory acceptable limits and guidelines. Based on the nature of the surrounding area, fourteen RCRIS generators were identified within the search distance. One of these sites is located on an adjoining property to the north and has had one violation. This site was brought into compliance in 1993; therefore, it is unlikely that releases from this site have significantly impacted the Subject Property.

5.5 OTHER HISTORICAL INFORMATION

A site title history and search was not completed for the Subject Property.

6.0 PHASE II SITE INVESTIGATION

6.1 SCOPE OF INVESTIGATION

The investigation at Parcel 19 consisted of advancing two GeoProbe borings, both to a depth of 15 feet below surface grade (bsg). Two soil samples were collected from each boring, one from the surface 0-1 ft, designated sample 'A', the second, designated 'B', from the capillary fringe or other feature, as discussed below.

6.2 INVESTIGATION METHODS

All investigation activities are described in the Quality Assurance Project Plan, the Work Plan/Sampling and Analysis Plan, and the associated Standard Operating Procedures. The following sections provide a brief overview of the methods employed in the investigation.

All soil and groundwater samples collected for laboratory analysis were placed into the appropriate containers in the order of the selected analysis, as follows:

1. Volatile Organic Compounds
2. Semi-Volatile Organic Compounds
3. Polychlorinated Biphenyls & Pesticides
4. Cyanide
5. Metals

All soil samples were collected in the appropriate precleaned (to EPA specifications) containers and stored following United States Environmental Protection Agency (USEPA) Publication SW-846 Method 5035/ASTM D4547-91, final version of March 26, 1998, *Testing Methods for Evaluating Solid Waste*. All soil sample containers were labeled in accordance with the QAPP.

Temporary Monitoring Well Installation

No temporary monitoring wells were installed on these parcels.

Soil Sampling

Soil samples was collected for laboratory analysis based on one or more of the following criteria:

1. Known and/or suspected depth of release (e.g. surface stain, deep machine pit, etc.)
2. Visual identification of soil staining
3. Concentrated petroleum based odors
4. Highest PID level reading
5. Sand to clay interface

Soil samples collected for parameters other than VOCs were homogenized in a stainless-steel bowl with a stainless-steel spoon prior to placement in appropriate sample containers. Following use of the stainless-steel bowl and spoon, this equipment was decontaminated in accordance with ECT SOP-4.

When sampling with a Geoprobe®, the drilling contractor followed the American Society for Testing and Materials publication ASTM D-4700. Using hydraulic drive core/direct-push (Geoprobe®) sampling techniques, continuous soil samples were collected from the soil borings at four-foot intervals, according to ASTM. A clean, plastic sampling sleeve was used for each sample interval. The stainless steel coring sleeve was decontaminated between each boring.

Upon completion of boring, the borehole was backfilled with any remaining cuttings. At a minimum, the upper two feet of the borehole was backfilled with bentonite pellets. Surface materials, such as pavement, asphalt, soil, etc., were utilized to restore the site to its original condition.

Soil samples collected for volatile organic compound (VOCs) analysis were containerized following guidelines established by the USEPA in "*Soil Sample Collection and Methanol Preservation for Volatile Analysis*" and adopted by the Michigan Department of

Environmental Quality, Environmental Response Division (MDEQ, ERD) in "*Procedure: Methanol Preservation of Soil VOC Samples, Environmental Response Division,*" Draft, June 3, 1999.

All weight measurements in this procedure were recorded in an ECT field log book or field form during sample collection. The field sampler also documented the use of the MDEQ guidance in their field logbook and/or on the appropriate field forms whenever collecting samples with methanol preservation on this project.

If no other unpreserved soil samples from the same sample location are being sent to the selected laboratory for analysis (i.e., BNAs, PCBs, Metals, etc.), then approximately 50 grams of soil will also be placed in a clean glass jar without preservative, properly labeled and sent along with the corresponding methanol preserved sample for analysis of percent solids. The properly labeled sample jars will be placed in a bubble wrap bag and secured in an ice-cooled container for shipment to the laboratory for analyses.

Groundwater Sampling

No groundwater samples were collected from these parcels.

Investigation Results

The boring locations are shown on Figure 3 and the logs of the borings are included in Appendix E.

Soils encountered in the borings were typically a mixture of sands with traces of gravel. No apparent fill material was observed in either of the two borings, with the exception of a trace of crushed rock at 1-2 ft of 1boring 19-1. Saturated soils indicative of groundwater not observed in either boring.

The laboratory analytical results for the eight soil samples are summarized in Table 1. For volatile organic compounds (page 1 of 4), elevated analytical detection limits reduce the utility of the data.

Several semivolatile organic compounds (page 2 of 4), namely polynuclear aromatic hydrocarbons (PAHs) were detected in all four samples. In the sample from 19-1A (0-1 ft) several PAH constituents exceed the State of Michigan Residential Cleanup Criteria for Soil Direct Contact. Detected concentrations in the remaining three samples were below the clean-up criteria. However, due to laboratory conditions, reflected by the flags in the data tables, many of the concentrations are reported as estimates.

Trace levels pesticides or PCBs (page 3 of 4) were detected in sample 19-2A, but at levels far below the state criteria.

The analytical results for trace metals and cyanide (page 4 of 4) reveal that several elements (arsenic, chromium, manganese, selenium, and silver) exceed the State of Michigan default background levels. The concentrations of chromium, selenium and silver in some samples exceed the criteria for protection of the groundwater-surface water interface (GSI). One surface soil sample (19-1B) contained arsenic at a concentration (10.1 mg/kg) above the Residential Direct Contact criterion.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the property located at 35, 41 and 47 Water Street in the City of Ypsilanti, Washtenaw County, Michigan.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and evidence has come to light which would indicate that potential recognized environmental conditions exist with regard to the subject property. Due to the heavy soil staining in the impoundment area and the area along the north side of the building and the metal piles along the east property, ECT recommended that a subsurface environmental evaluation be performed. Soil borings were advanced at two locations on the subject property and the soils were evaluated for the presence of metals, volatile organic compounds, semivolatile organic compounds, and PCBs.

The results of the investigation indicate that several trace metals may be present at elevated concentrations. Additional investigation may be necessary to evaluate local background metals concentrations, and the potential mobility of metals in soils on the property. Surface soil samples were also found to contain petroleum-related organic compounds at levels that exceed the state residential cleanup criteria. Further investigation is warranted to determine the extent of these impacts.

8.0 QUALIFICATIONS

This assessment was performed by ECT with standard professional practice using the degree of skill and care exercised for similar projects. The conclusions given by ECT are based on an audit effort to obtain and review reasonably available information on the site and adjacent sites. We have relied upon information provided to us by others and on the accuracy and completeness of the available information. No warranty or conclusions other than those expressly contained within this report are implied or intended. ECT can offer no assurances and assumes no responsibility for the site conditions or activities which were outside the scope of work requested.

Table 1. Analytical Summary Table

Parcel #19

Page 1 of 4: Volatile Organic Compounds

Sample Number :	EDEP6		EDEP7		EDEP8		EDEP9	
Sampling Location :	19-1A		19-1B		19-2A		19-2B	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/09/1999		11/09/1999	
Time Sampled :	14:15		14:30		14:45		15:00	
%Moisture :	9		14		11		17	
pH :								
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	920	UJ	15000	UJ	13000	UJ	16000	UJ
Chloromethane	920	U	15000	U	13000	U	16000	U
Vinyl Chloride	920	U	15000	U	13000	U	16000	U
Bromomethane	920	U	15000	U	13000	U	16000	U
Chloroethane	920	U	15000	U	13000	U	16000	U
Trichlorofluoromethane	920	U	15000	U	13000	U	16000	U
1,1-Dichloroethene	920	U	15000	U	13000	U	16000	U
1,1,2-Trichloro-1,2,2-trifluoroethane	920	U	15000	U	13000	U	16000	U
Acetone	350000	J	280000		240000		260000	
Carbon Disulfide	920	U	15000	U	13000	U	16000	U
Methyl Acetate	4200	J	15000	U	4200	J	6800	J
Methylene Chloride	420	J	10000	J	8700	J	10000	J
trans-1,2-Dichloroethene	920	U	15000	U	13000	U	16000	U
tert-Butyl Methyl Ether	920	U	15000	U	13000	U	16000	U
1,1-Dichloroethane	920	U	15000	U	13000	U	16000	U
cis-1,2-Dichloroethene	920	U	15000	U	13000	U	16000	U
2-Butanone	920	U	15000	U	13000	U	16000	U
Chloroform	4000	J	15000	U	13000	U	16000	U
1,1,1-Trichloroethane	920	U	15000	U	13000	U	16000	U
Cyclohexane	920	U	15000	U	13000	U	16000	U
Carbon Tetrachloride	920	U	15000	U	13000	U	16000	U
Benzene	920	U	15000	U	13000	U	16000	U
1,2-Dichloroethane	920	U	15000	U	13000	U	16000	U
Trichloroethene	920	UJ	15000	UJ	13000	UJ	16000	UJ
Methylcyclohexane	2300	J	15000	U	13000	U	16000	U
1,2-Dichloropropane	920	U	15000	U	13000	U	16000	U
Bromodichloromethane	920	U	15000	U	13000	U	16000	U
cis-1,3-Dichloropropene	920	U	15000	U	13000	U	16000	U
4-Methyl-2-pentanone	920	U	15000	U	13000	U	16000	U
Toluene	3500	J	15000	U	13000	U	16000	U
trans-1,3-Dichloropropene	920	U	15000	U	13000	U	16000	U
1,1,2-Trichloroethane	920	U	15000	U	13000	U	16000	U
Tetrachloroethene	420	J	15000	U	13000	U	16000	U
2-Hexanone	920	UJ	15000	UJ	13000	UJ	16000	UJ
Dibromochloromethane	920	U	15000	U	13000	U	16000	U
1,2-Dibromoethane	920	U	15000	U	13000	U	16000	U
Chlorobenzene	920	U	15000	U	13000	U	16000	U
Ethylbenzene	56000	J	47000		45000		53000	
Xylenes (total)	190000	J	170000		160000		180000	
Styrene	920	U	15000	U	13000	U	16000	U
Bromoform	920	U	15000	U	13000	U	16000	U
Isopropylbenzene	920	U	15000	U	13000	U	16000	U
1,1,2,2-Tetrachloroethane	920	U	15000	U	13000	U	16000	U
1,3-Dichlorobenzene	920	U	15000	U	13000	U	16000	U
1,4-Dichlorobenzene	920	U	15000	U	13000	U	16000	U
1,2-Dichlorobenzene	920	U	15000	U	13000	U	16000	U
1,2-Dibromo-3-chloropropane	920	UJ	15000	UJ	13000	UJ	16000	UJ
1,2,4-Trichlorobenzene	920	UJ	15000	UJ	13000	UJ	16000	UJ

Table 1. Analytical Summary Table

Parcel #19

Page 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDEP6		EDEP7		EDEP8		EDEP9	
Sampling Location :	19-1A		19-1B		19-2A		19-2B	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/09/1999		11/09/1999	
Time Sampled :	14:15		14:30		14:45		15:00	
%Moisture :	9		14		11		17	
pH :	8.8		8.5		8.4		8.4	
Dilution Factor :	2.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	690	UJ	360	UJ	350	UJ	380	UJ
Phenol	690	U	360	U	350	UJ	380	U
bis-(2-Chloroethyl) ether	690	U	360	U	350	U	380	U
2-Chlorophenol	690	U	360	U	350	U	380	U
2-Methylphenol	690	U	360	U	350	U	380	U
2,2'-oxybis(1-Chloropropane)	690	U	360	U	350	U	380	U
Acetophenone	46	J	360	U	350	U	380	U
4-Methylphenol	690	U	360	U	350	U	380	U
N-Nitroso-di-n-propylamine	690	U	360	U	350	U	380	U
Hexachloroethane	690	U	360	U	350	U	380	U
Nitrobenzene	690	U	360	U	350	U	380	U
Isophorone	690	U	360	U	350	U	380	U
2-Nitrophenol	690	U	360	U	350	U	380	U
2,4-Dimethylphenol	690	U	360	U	350	U	380	U
bis-(2-Chloroethoxy) methane	690	U	360	U	350	U	380	U
2,4-Dichlorophenol	690	U	360	U	350	U	380	U
Naphthalene	39	J	18	J	19	J	380	U
4-Chloroaniline	690	U	360	U	350	U	380	U
Hexachlorobutadiene	690	U	360	U	350	U	380	U
Caprolactam	690	R	360	R	350	R	380	R
4-Chloro-3-methylphenol	690	U	360	U	350	U	380	U
2-Methylnaphthalene	690	U	360	U	350	U	380	U
Hexachlorocyclopentadiene	690	U	360	UJ	350	U	380	UJ
2,4,6-Trichlorophenol	690	U	360	U	350	U	380	U
2,4,5-Trichlorophenol	1700	U	900	U	880	U	950	U
1-1'-Biphenyl	690	U	360	U	350	U	380	U
2-Chloronaphthalene	690	U	360	U	350	U	380	U
2-Nitroaniline	1700	U	900	U	880	U	950	U
Dimethylphthalene	690	U	360	U	350	U	380	U
2,6-Dinitrotoluene	690	U	360	U	350	U	380	U
Acenaphthylene	310	J	360	U	18	J	380	U
3-Nitroaniline	1700	U	900	U	880	U	950	U
Acenaphthene	89	J	360	U	79	J	380	U
2-4-Dinitrophenol	1700	U	900	UJ	880	U	950	UJ
4-Nitrophenol	1700	U	900	U	880	U	950	U
Dibenzofuran	690	U	360	U	27	J	380	U
2,4-Dinitrotoluene	690	U	360	U	350	U	380	U
Diethylphthalate	690	U	360	U	350	U	380	U
Fluorene	110	J	360	U	73	J	380	U
4-Chlorophenyl-phenyl ether	690	U	360	U	350	U	380	U
4-Nitroaniline	1700	U	900	U	880	U	950	U
4,6-Dinitro-2-methylphenol	1700	U	900	UJ	880	U	950	UJ
N-Nitrosodiphenylamine	690	U	360	U	350	U	380	U
4-Bromophenyl-phenylether	690	U	360	U	350	U	380	U
Hexachlorobenzene	690	U	360	U	350	U	380	U
Atrazine	690	U	360	U	350	U	380	U
Pentachlorophenol	1700	U	900	U	880	U	950	U
Phenanthrene	1300		39	J	940		100	J
Anthracene	510	J	360	U	290	J	33	J
Carbazole	100	J	360	U	100	J	380	U
Di-n-butylphthalate	44	J	23	J	45	J	81	J
Fluoranthene	5800		69	J	2000		250	J
Pyrene	5100		74	J	1800	J	220	J
Butylbenzylphthlate	690	U	360	U	350	U	380	U
3,3'-Dichorobenzidine	690	UJ	360	U	350	UJ	380	U
Benzo(a)anthracene	3800		41	J	1100		120	J
Chrysene	3700		55	J	1100		130	J
bis(2-Ethylhexyl)phthalate	690	U	360	U	350	U	380	U
Di-n-octylphthalate	690	U	360	U	350	U	380	U
Benzo(b)fluoranthene	2800		33	J	1600		110	J
Benzo(k)fluoranthene	3100	J	45	J	350	UJ	120	J
Benzo(a)pyrene	3300		31	J	960		100	J
Indeno(1,2,3-cd)pyrene	2100		28	J	620		75	J
Dibenzo(a,h)anthracene	1000		360	U	230	J	25	J
Benzo(g,h,i)perylene	2400		33	J	680		85	J

Table 1. Analytical Summary Table

Parcel #19

Page 3 of 4: Pesticides and PCBs

Sample Number :	EDEP6		EDEP7		EDEP8		EDEP9	
Sampling Location :	19-1A		19-1B		19-2A		19-2B	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/09/1999		11/09/1999	
Time Sampled :	14:15		14:30		14:45		15:00	
%Moisture :	9		14		11		17	
pH :	8.8		8.5		8.4		8.4	
Dilution Factor :	10.0		1.0		10.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	17	U	1.9	U	19	U	2.0	R
beta-BHC	17	U	1.9	U	19	U	2.0	R
delta-BHC	17	U	1.9	U	19	U	2.0	R
gamma-BHC (Lindane)	17	U	1.9	U	19	U	2.0	R
Heptachlor	17	U	1.9	U	19	U	2.0	R
Aldrin	17	U	1.9	U	19	U	2.0	R
Heptachlor epoxide	17	U	1.9	U	19	U	2.0	R
Endosulfan I	17	U	1.9	U	19	U	2.0	R
Dieldrin	34	U	3.7	U	37	U	3.9	R
4-4'-DDE	34	U	3.7	U	37	U	3.9	R
Endrin	34	U	3.7	U	37	U	3.9	R
Endosulfan II	34	U	3.7	U	21	J	3.9	R
4-4'-DDD	34	U	3.7	U	13	J	3.9	R
Endosulfan sulfate	34	U	3.7	U	37	U	3.9	R
4-4'-DDT	34	UJ	3.7	U	37	UJ	3.9	R
Methoxychlor	170	UJ	19	U	190	UJ	20	R
Endrin ketone	15	J	3.7	U	22	J	3.9	R
Endrin aldehyde	34	U	3.7	U	17	J	3.9	R
alpha-Chlordane	17	U	1.9	U	19	U	2.0	R
gamma-Chlordane	17	U	1.9	U	19	U	2.0	R
Toxaphene	1700	U	190	U	1900	U	200	R
Aroclor-1016	340	U	37	U	370	U	39	R
Aroclor-1221	690	U	75	U	750	U	79	R
Aroclor-1232	340	U	37	U	370	U	39	R
Aroclor-1242	340	U	37	U	370	U	39	R
Aroclor-1248	340	U	37	U	370	U	39	R
Aroclor-1254	340	U	37	U	370	U	39	R
Aroclor-1260	340	U	37	U	370	U	39	R

Table 1. Analytical Summary Table

Parcel #19

Page 4 of 4: Metals and Cyanide

Sample Number :	MECLP8		MECLP9		MECLQ0		MECLQ1	
Sampling Location :	19-1A		19-1B		19-2A		19-2B	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/09/1999		11/09/1999		11/09/1999		11/09/1999	
Time Sampled :	14:15		14:30		14:45		15:00	
%Moisture :	9		14		11		17	
pH :	8.8		8.5		8.4		8.4	
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	6030		4070		8380		4380	
Antimony	0.47	UJ	0.5	UJ	0.47	UJ	0.48	UJ
Arsenic	6.1		10.1		5.6		4.5	
Barium	64.6		84.6		41.1		30.8	
Beryllium	0.29		0.24		0.38		0.36	
Cadmium	0.07	U	0.07	U	0.07	U	0.07	U
Calcium	86400	J	80800	J	2730	J	11700	J
Chromium (total)	9.1	J	18.9	J	22.2	J	11.9	J
Cobalt	3.8		3.6		5.7		4.6	
Copper	17.4	J	11.1	J	13.7	J	23.2	J
Iron	10500		22900		13700		31200	
Lead	11.7		17.2		12.6		7.7	
Magnesium	11700	J	4900	J	3230	J	1280	J
Manganese	337		1180		603		519	
Mercury	0.05	U	0.06	U	0.06	U	0.06	U
Nickel	9.3		8.5		19.6		12.5	
Potassium	738		798		1050		634	
Selenium	0.4	U	0.43	U	0.43		0.41	U
Silver	0.51	J	1.1		0.49	J	1.5	
Sodium	221	J	155	J	66.9	J	249	J
Thallium	0.47	U	0.5	U	0.47	U	0.48	U
Vanadium	13.8	J	43.4	J	20.5	J	10.7	J
Zinc	27.6		40.3		45.7		22.9	
Cyanide	0.06	UJ	0.06	UJ	0.06	UJ	0.06	UJ

CADRE Data Qualifier Sheet

Qualifiers

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Figures

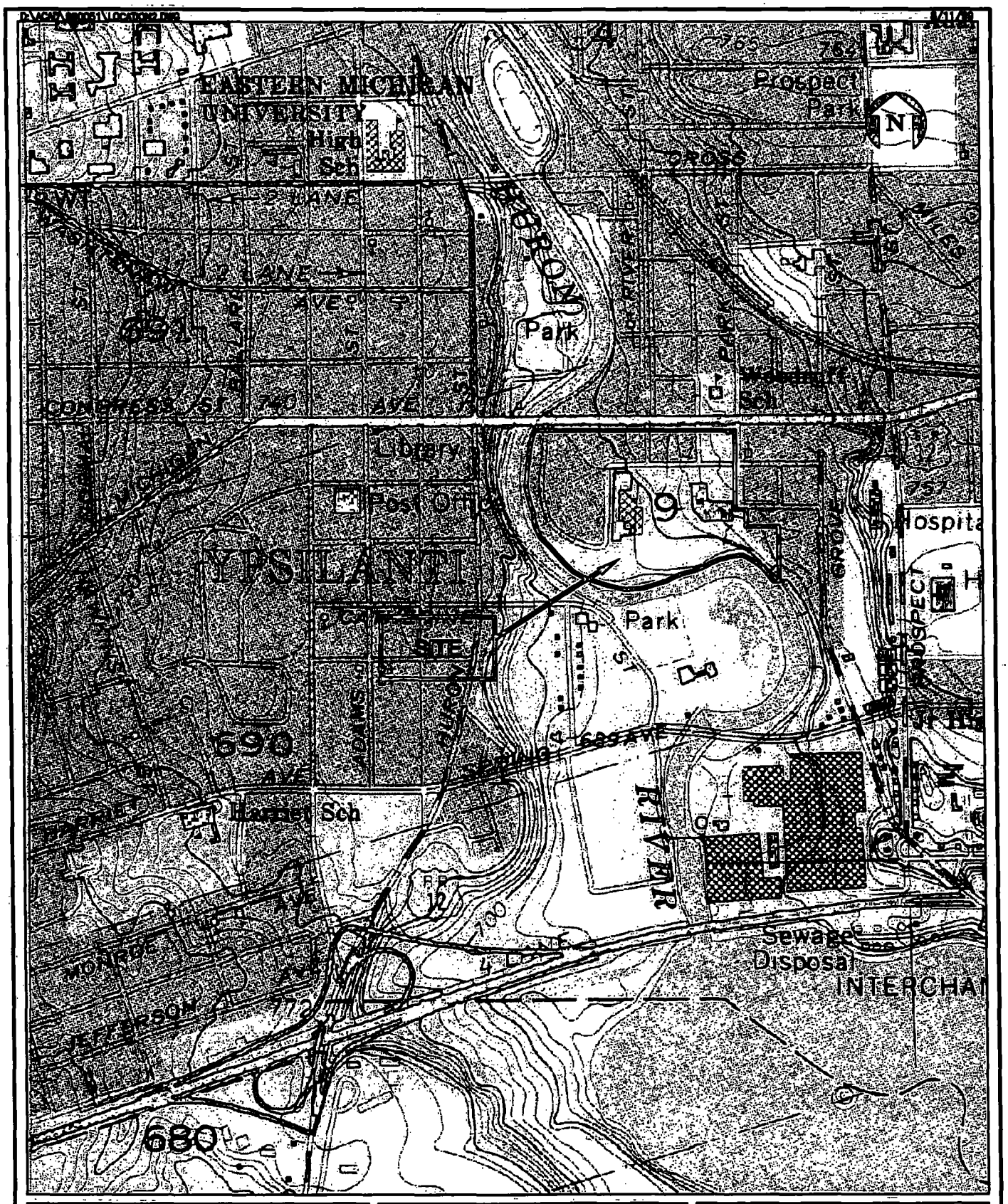

FIGURE 1
SITE LOCATION MAP

Source: ECT, 1999.

YPSILANTI BROWNFIELD PILOT PROJECT REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 2800
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

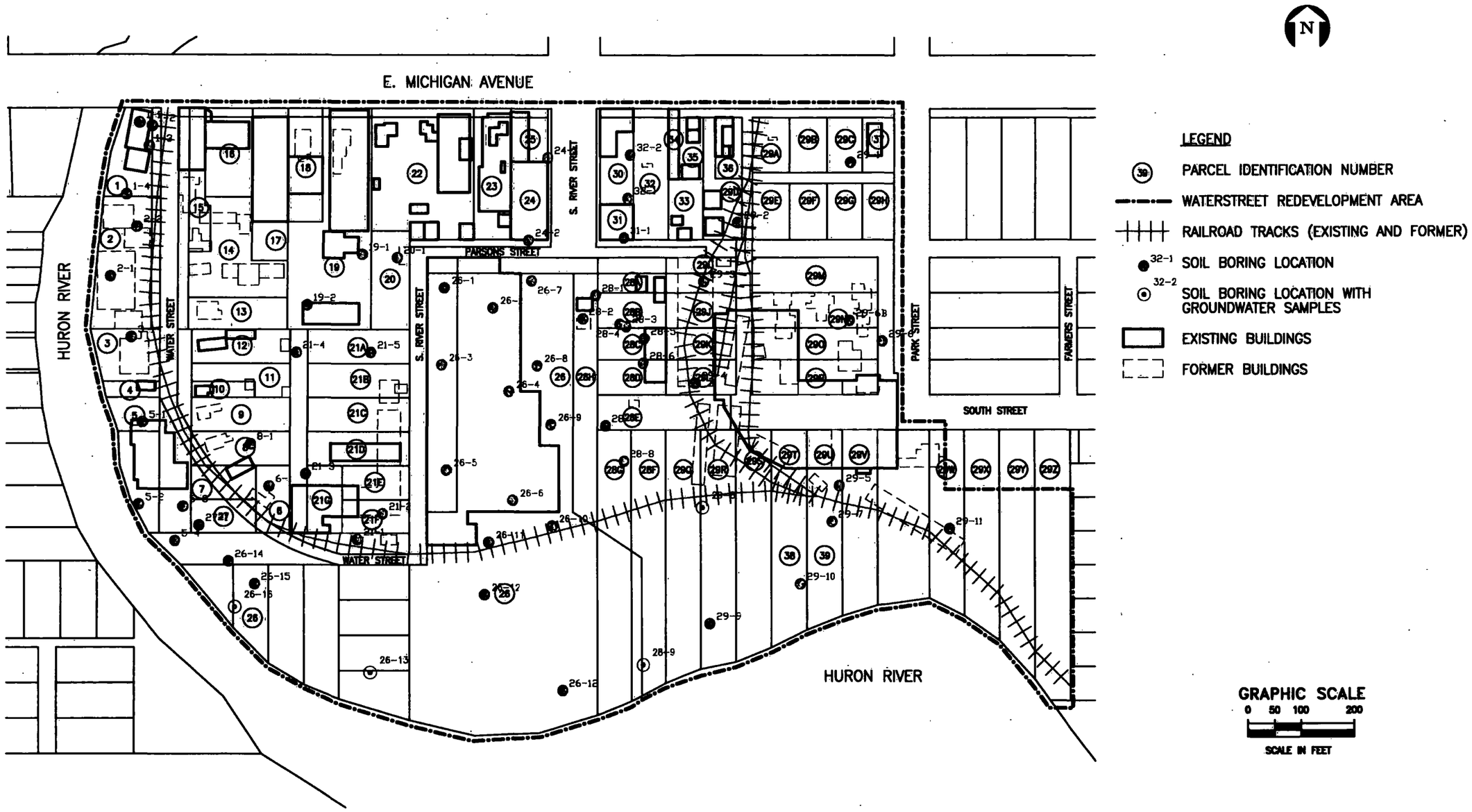

FIGURE 2.
WATER STREET REDEVELOPMENT AREA SITE MAP

Source: ECT, 2000.

YPSILANTI BROWNFIELD PILOT PROJECT
WATER STREET REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Boulevard
Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6000 Fax: (313) 963-1707

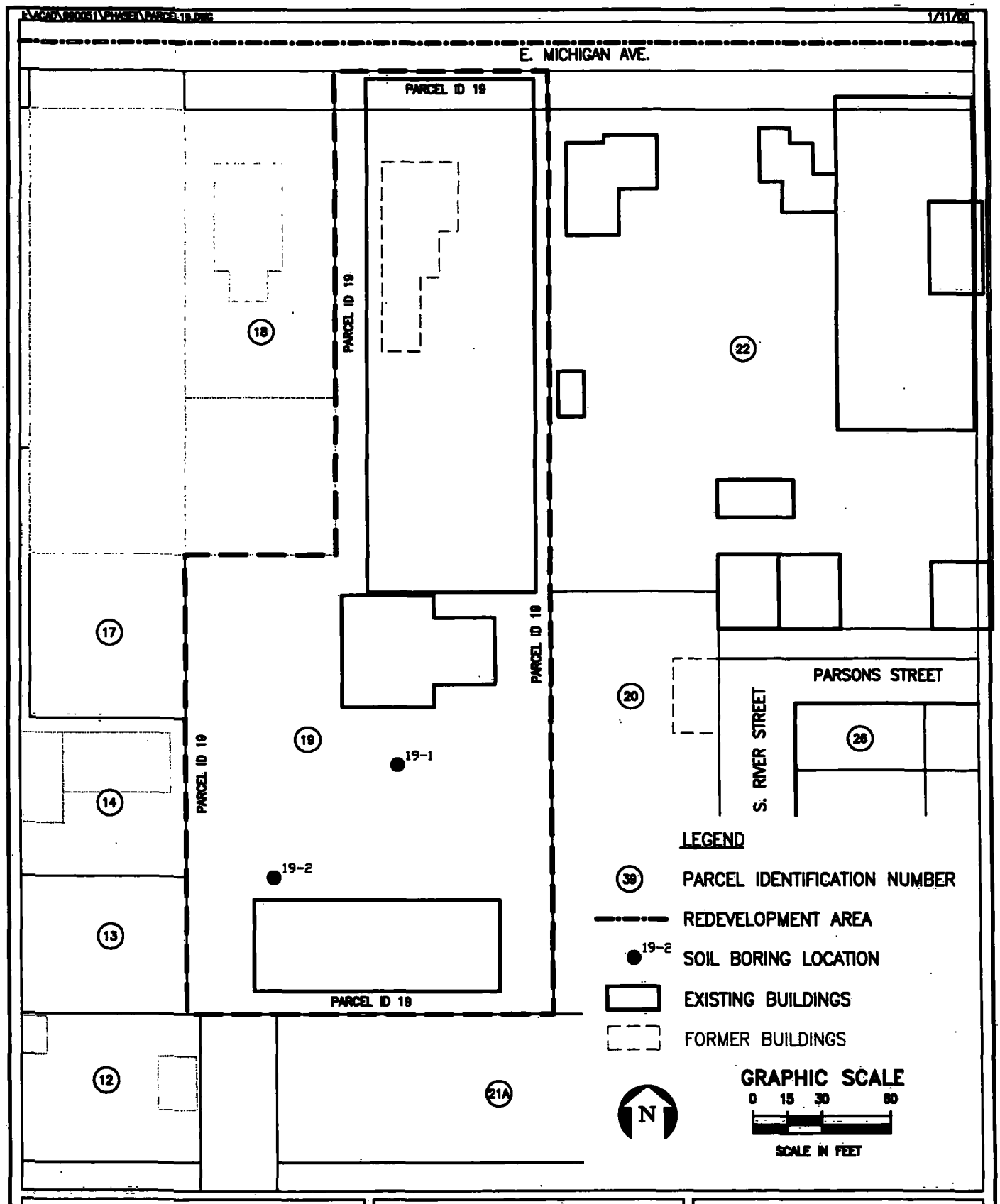

FIGURE 3.
PARCEL ID #19
SITE MAP
Source: ECT, 2000.

REDEVELOPMENT AREA
20 E. MICHIGAN AVE.
YPSILANTI, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6000 Fax: (313) 963-1707

Appendix A

APPENDIX A

AERIAL PHOTOGRAPHS

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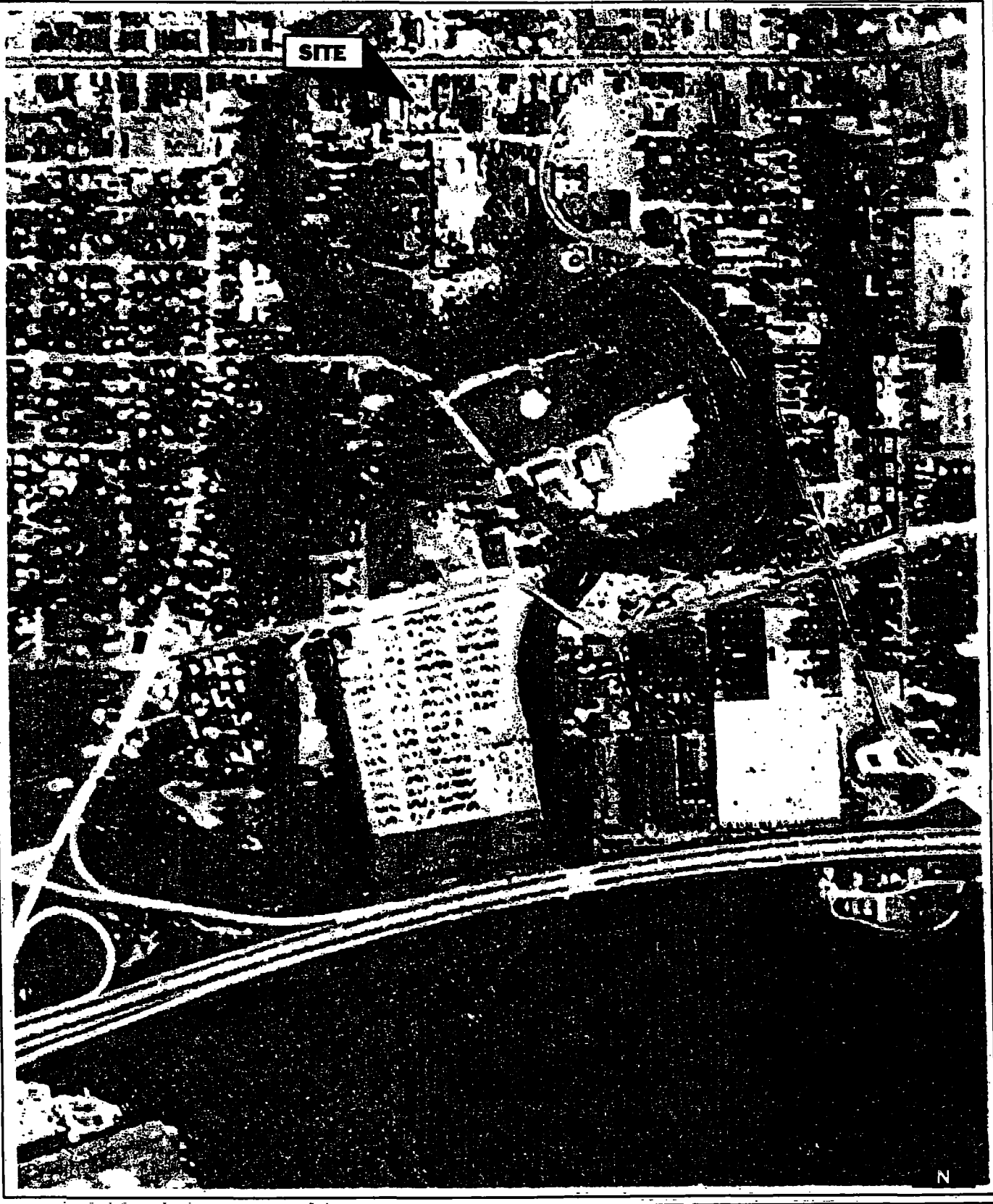


1978 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99

1969 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99

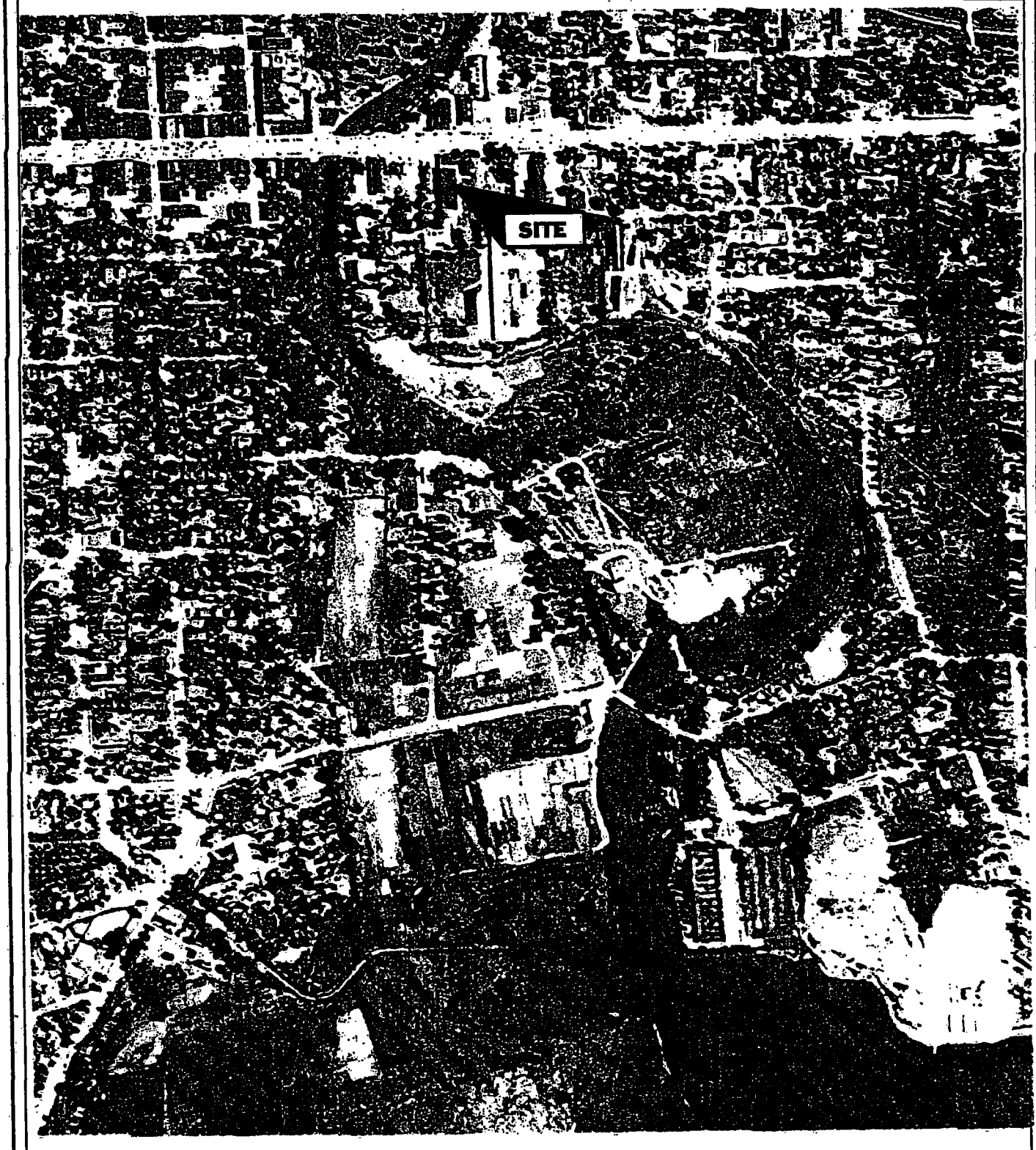
1963 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

D:\AERIAL.DWG 08/18/99



1940 AERIAL PHOTOGRAPH

Source: ECT, 1999

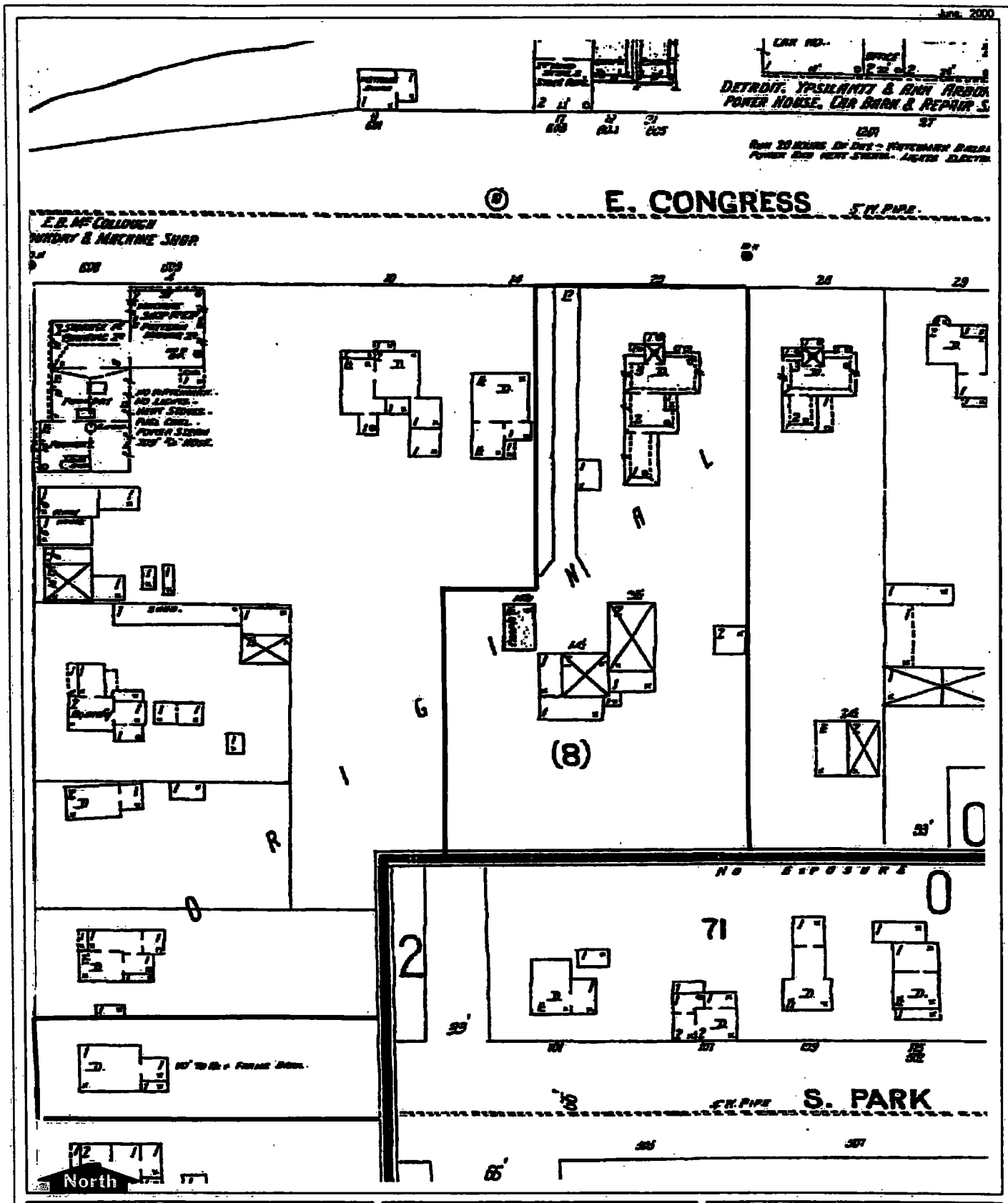
WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

APPENDIX B

SANBORN FIRE INSURANCE MAPS

June, 2000



Sanborn Fire Insurance Map, 1899

Source: ECT, 2000.

Canton Analytical
Ypsilanti, MI
Washtenaw County

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The Book Tower
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Detroit, Michigan 48226
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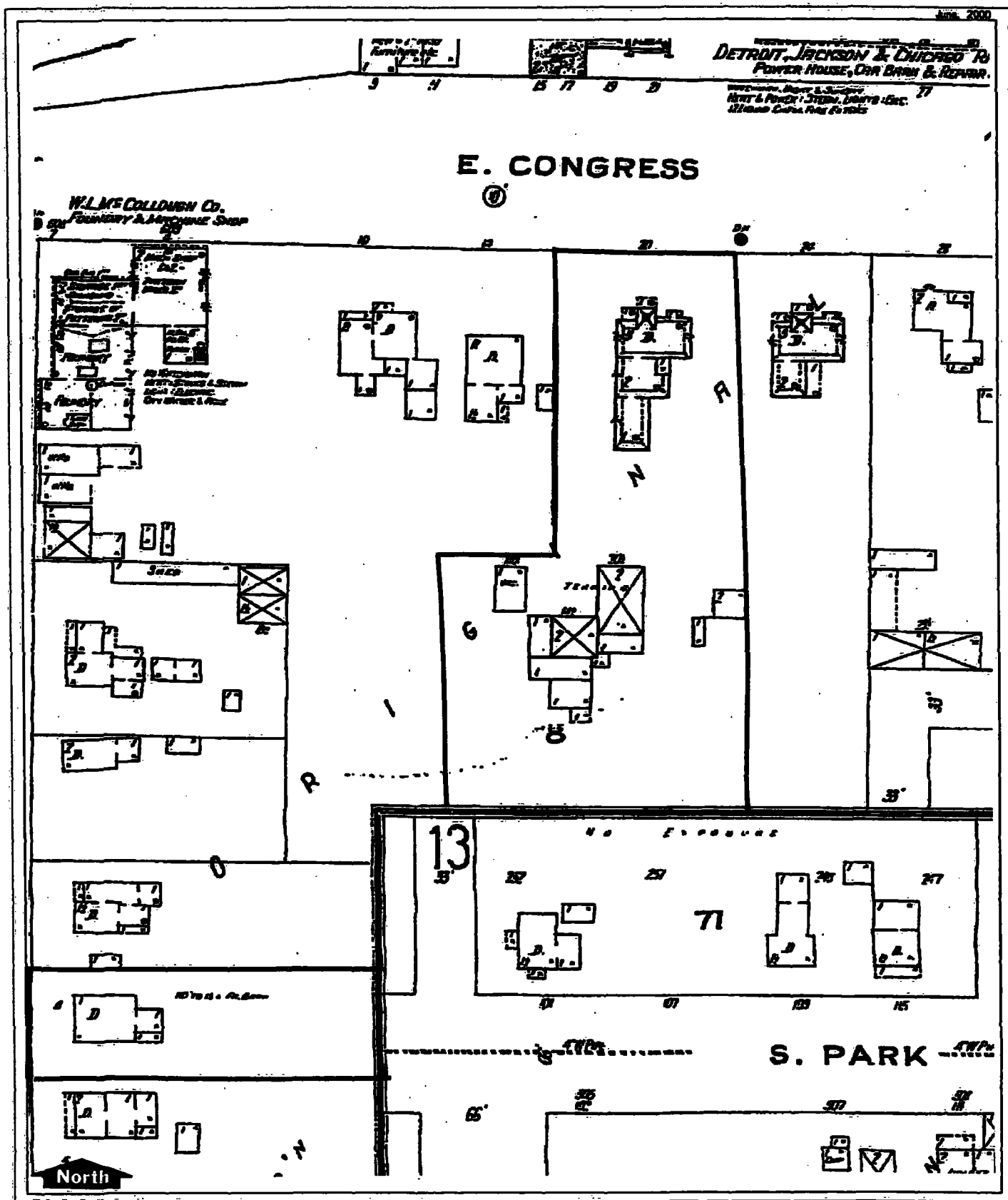

Sanborn Fire Insurance Map, 1909

Source: ECT, 2000.

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Washtenaw County

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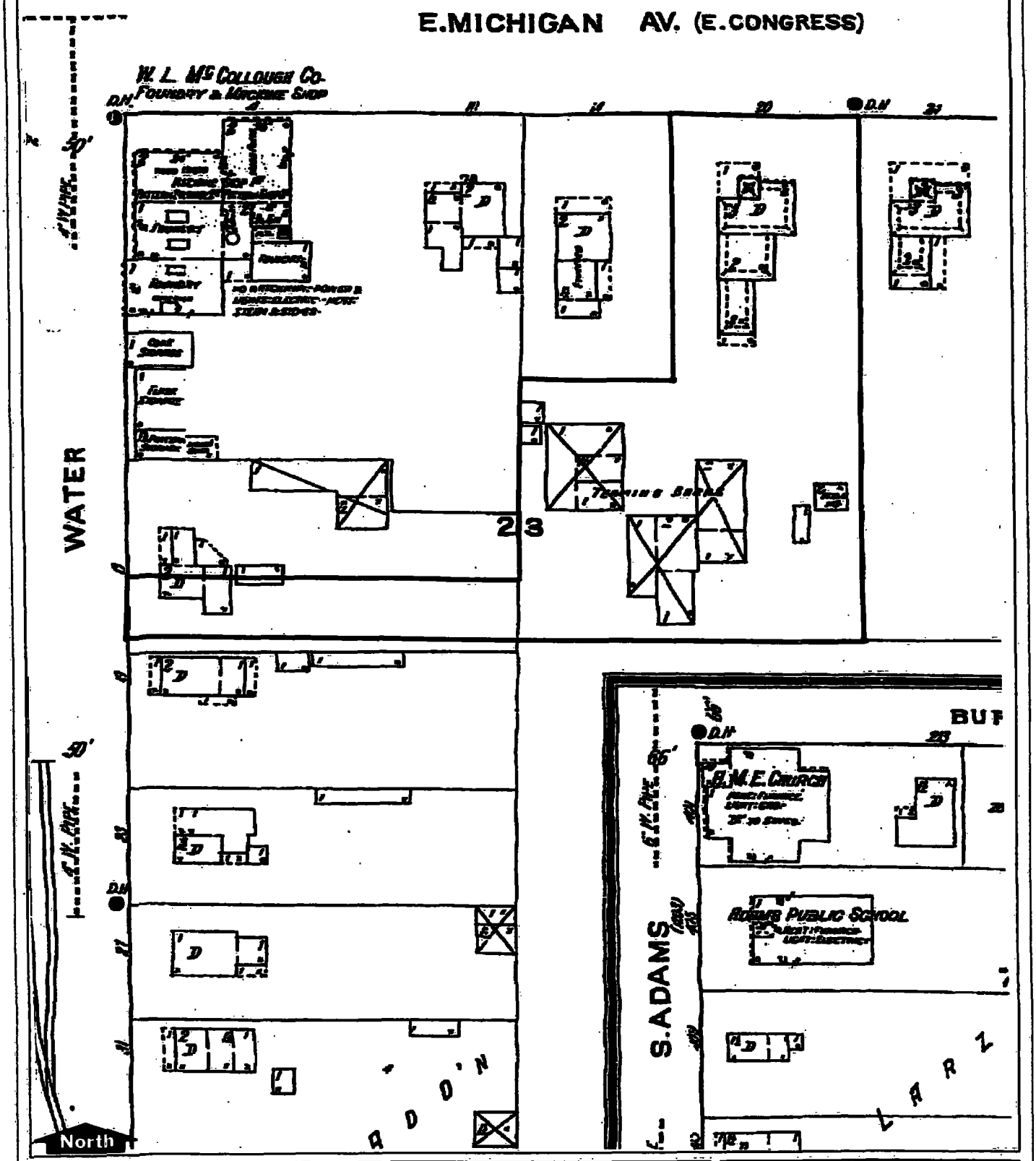
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

June, 2000



Sanborn Fire Insurance Map, 1916

Source: ECT, 2000.

Canton Analytical
Ypsilanti, MI
Washtenaw County

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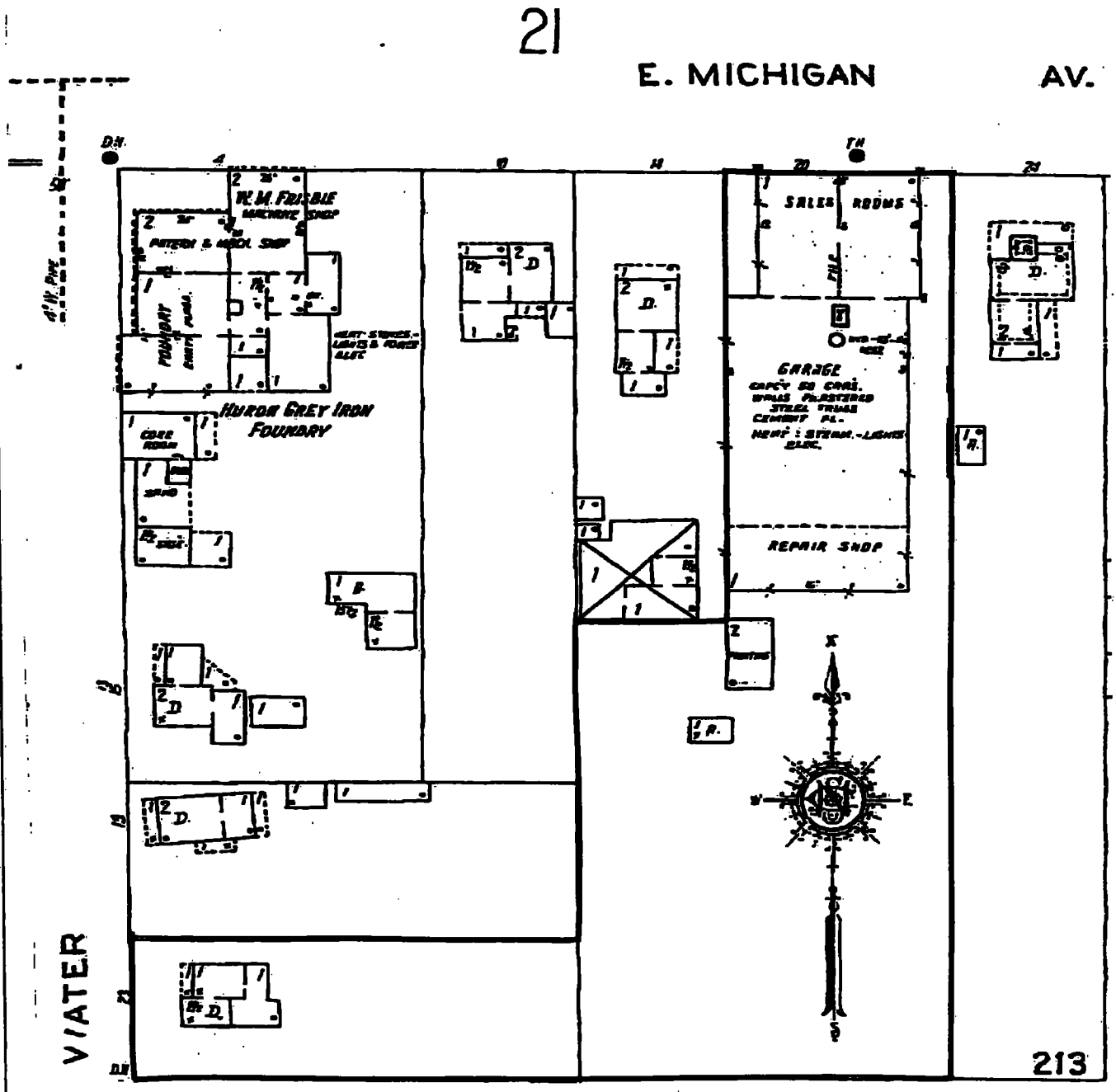

Sanborn Fire Insurance Map, 1927

Source: ECT, 2000.

Canton Analytical
Ypsilanti, MI
Washtenaw County

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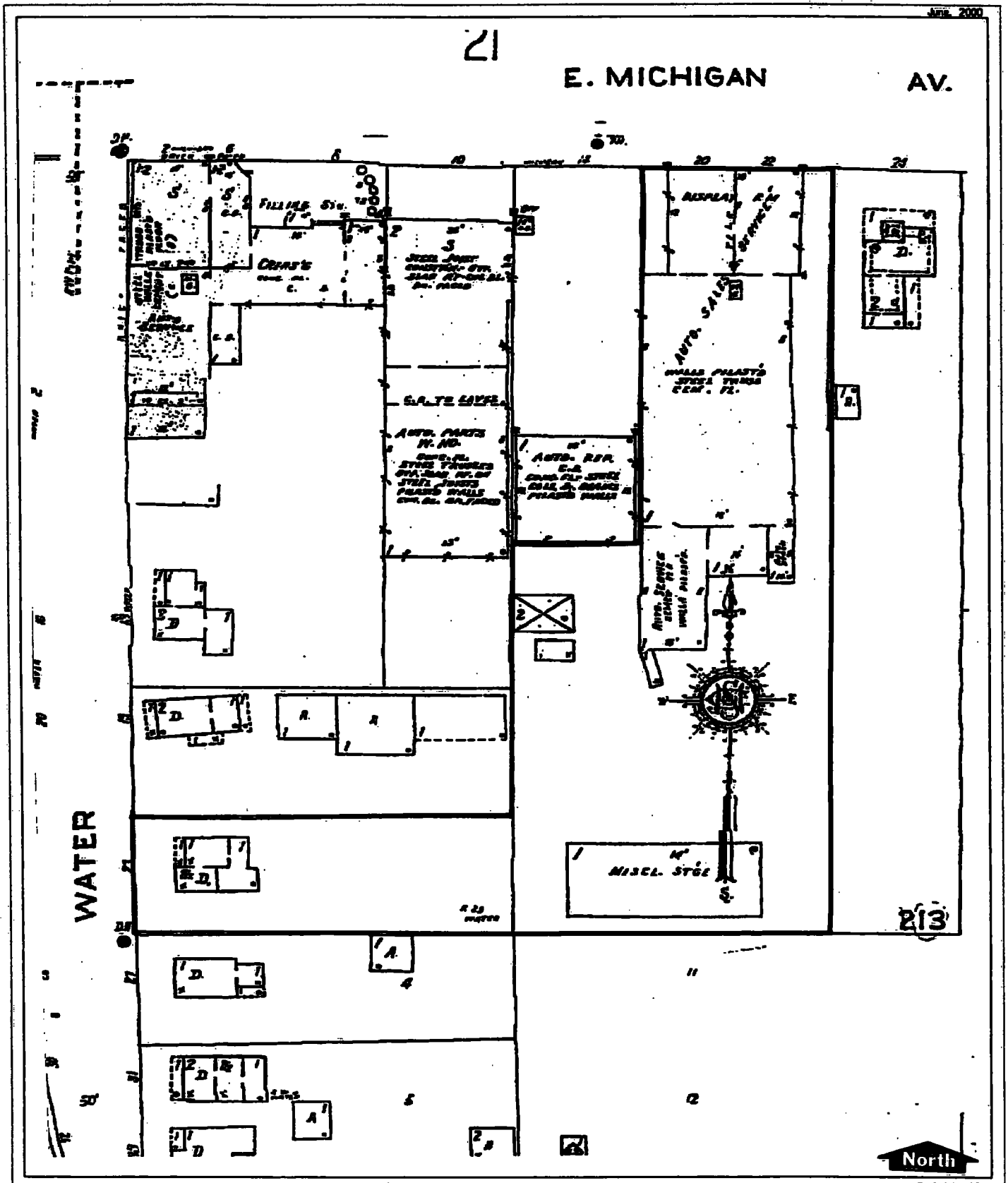

Sanborn Fire Insurance Map, 1950

Source: ECT, 2000.

Canton Analytical
Ypsilanti, MI
Washtenaw County

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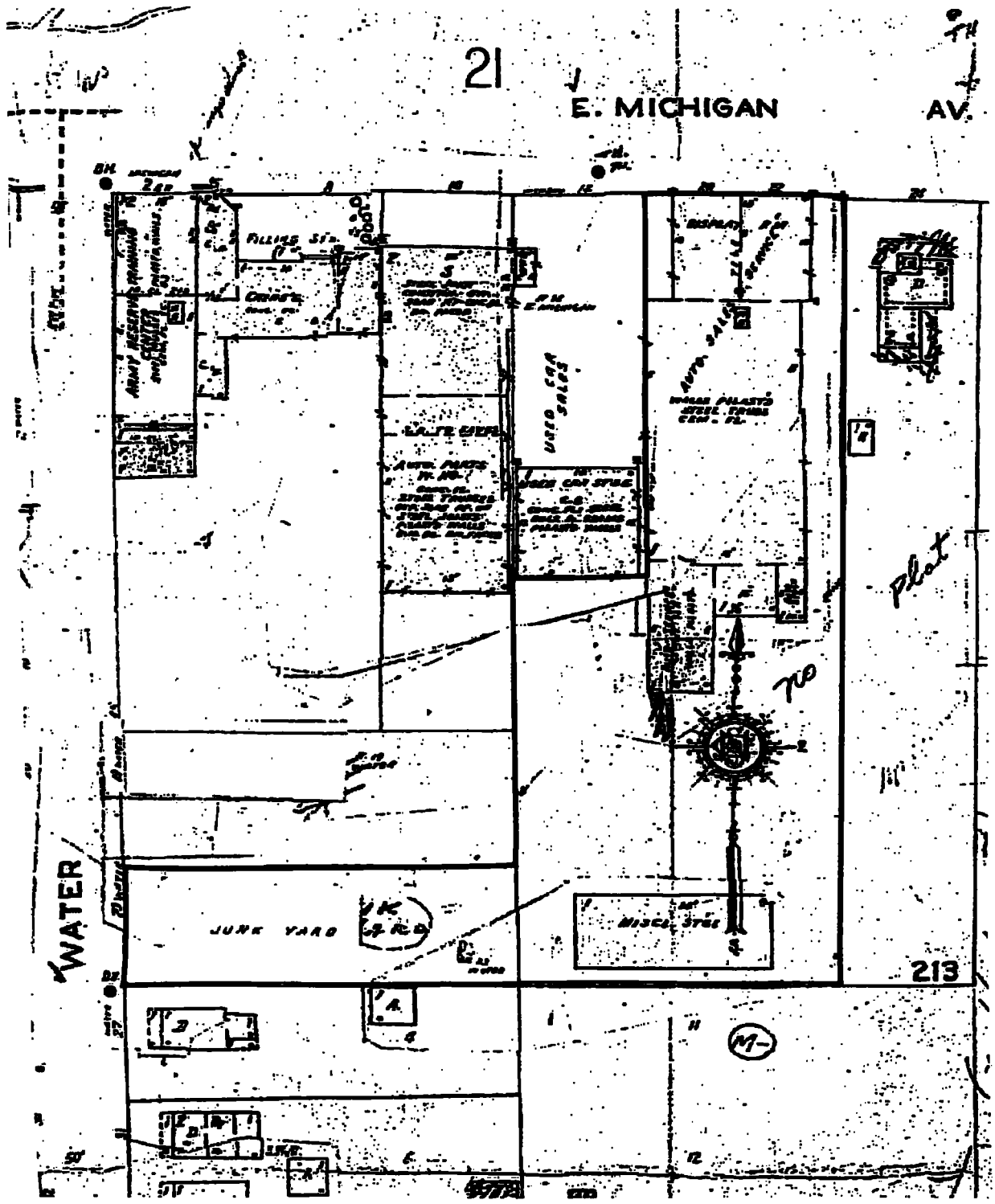
June, 2000



Sanborn Fire Insurance Map, 1964

Source: ECT, 2000.

Canton Analytical
Ypsilanti, MI
Washtenaw County

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
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Detroit, Michigan 48226
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[redacted]

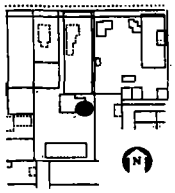
APPENDIX C

SOIL BORING LOGS

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	19-1	LOCATION	Ypsilanti, Michigan
DATE	11/9/99	WEATHER	Sunny, 60s°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		Dark brown SAND with fine to medium gravel, dry to damp 18"	
				2			Course to medium gravel, trace crushed rock, trace sand, dry 12"	
				3				
				4				
				5				
				6	30"		Light to dark brown SAND, trace fine to medium gravel, damp to wet	
				7				
				8				
				9				
				10				
				11	36"		Light brown SAND with fine to medium gravel, damp to wet 36"	
				12				
				13				
				14				
				15				
				16			End of Boring	
				17				
				18				
				19				
				20				

LEGEND

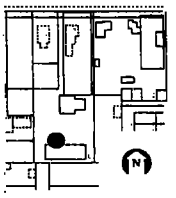
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	19-2	LOCATION	Ypsilanti, Michigan
DATE	11/9/99	WEATHER	Sunny, 60s°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		Dark brown SAND with fine to medium gravel, damp 6"	
				2			Dark brown SANDY CLAY, trace fine gravel, moist 24"	
				3				
				4				
				5				
				6	6"		Dark brown SANDY CLAY, moist 6"	
				7				
				8				
				9				
				10				
				11	18"		Dark brown Clayie SAND, damp to wet	
				12				
				13				
				14				
				15				
				16			End of Boring	
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

Parcel #20 & #26

[redacted]

ENVIRONMENTAL SITE ASSESSMENT
101 - 103 S. RIVER STREET,
INCLUDING A SMALL VACANT PARCEL
Parcels #20 and 26
YPSILANTI, MICHIGAN

PREPARED BY:

ECT

Environmental Consulting & Technology, Inc.

1249 WASHINGTON BLVD.
SUITE 3500
DETROIT, MICHIGAN 48226

NOVEMBER 2000

PROJECT NO: 99-0051

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APPENDIX D	BORING LOGS

1.0 EXECUTIVE SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I/II Environmental Site Assessment of the facility and property located at 101 - 103 S. River Street, including a small vacant parcel in the City of Ypsilanti, Washtenaw County, Michigan. The property consists of two parcels of property. One parcel is known as S. 101 - 103 River Street, the other parcel is vacant. One large, rectangular shaped structure is located on the property; the structure is bi-level with several portions historically leased out. The structure has several offices upstairs, but the majority of the structure is designed as a warehouse. According to historic records, the subject site was once used for automotive and truck manufacturing operations. Recently, the subject property operated under the name Thermofil where recycling operations took place. Currently, the subject property is used to store a variety of metal and plastic recyclable products, which includes machinery and polypropylene materials.

The subject property was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination that may have been present. No unusual odors or stressed vegetation were observed during the site reconnaissance, with the exception of some ground surface staining inside and along the exterior periphery of the structure. Roofing tar stains were located in several areas along the exterior of the building; prominent stains were noted on the southern side of the structure. A small number of compressed gas cylinders, metal machinery and other miscellaneous scrap metals are stored on the subject property. In addition, roll-off bins, dumpsters, empty 55-gallon drums, and other debris are located on the subject property. Miscellaneous recyclable plastics are stored in the roll-off bins and dumpsters.

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. There are no USTs or ASTs located on the subject property,

in addition, no ASTs were observed on neighboring properties. There is a UST located on the property just east of the subject property, according to the property owner of the adjacent property, the UST is no longer in use.

The visual inspection of this property did not indicate the presence of any PCB containing equipment on the site or in the immediate vicinity of the site. However, there were two transformers located on the roof of the structure along the western edge. These transformers are unlabeled as to potential PCB content, thus they should be considered suspect PCB-containing transformers. No evidence of any leaks or deterioration of the transformers was observed. In the event of any future release or transformer maintenance or disposal, the oil coolants should be analyzed for possible PCB content and handled accordingly. No evidence was discovered during the assessment of the site that would indicate that any unnatural fill materials or land filling had occurred on the site.

Suspect asbestos containing materials (ACMs) were observed during the site reconnaissance in several locations throughout the interior of the structure. There is potential ACMs insulative pipe wrap located throughout the lower level of the structure, the wrap extends the length of the structure. The upper level of the structure has 9" by 9" ceiling tiles that may be ACMs. The condition of the pipe wrap and ceiling tiles are in fair to poor condition.

A review of the regulatory history of the site and area and other historical records was conducted in order to assure that no potentially environmentally impairing activities or conditions had occurred in the past or might be currently occurring with regard to the site. The records review did not reveal the presence of recognized environmental conditions in the area of the subject property that could potentially impair the environmental condition of the subject property. Federal, State, and local environmental records were reviewed and a commercial database search was commissioned. These included the Comprehensive Environmental Response Compensation and Liability Information

System (CERCLIS), National Priorities List (NPL), Resource Conservation and Recovery Information System (RCRIS), Emergency Response Notification System (ERNS), Hazardous Materials Incident Report System (HMIRS), Toxic Release Inventory System (TRIS), and Toxic Substances Control Act (TSCA) databases. They also included the State Hazardous Waste Sites (SHWS), registered underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, and landfill sites. The result of this review has indicated the presence of UST and LUST sites located within the one mile radius of the subject property, however, a review of the available file information for the sites and discussions with appropriate fire department personnel has indicated that no release has been discovered which would have migrated onto the subject property.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and evidence has come to light that would indicate that potential recognized environmental conditions exist with regard to the subject property. ECT recommends the performance of a subsurface environmental evaluation based on the metal debris scattered throughout the subject property, and the historical records that indicate the property was used for automotive and truck manufacturing purposes. It was recommended that soil borings be performed across the subject property and that the soils be evaluated for the presence of metals, volatile and semi volatile organic compounds, and PCBs.

The results of the Geoprobe investigation indicate that the property is a facility according to the criteria set forth in 1994 P.A. 451, Part 201. Several constituents namely trace metals, exceed one or more of the applicable criteria.

2.0 PURPOSE AND SCOPE

Environmental Consulting & Technology, Inc. (ECT) was retained by the Community and Economic Development Department of the City of Ypsilanti under the Brownfield Redevelopment Pilot Project to conduct a Phase I Environmental Site Assessment of the facility and property located at 101 - 103 S. River Street, including a small vacant parcel in the City of Ypsilanti, Michigan. The objective of this assessment was to evaluate the present environmental condition of the property for potential environmental impairment or contamination at the site based on available information that, if present, may result in unacceptable financial and ownership risks and liability. This assessment was conducted during the period of March 25, 1999 through July 30, 1999, with the physical site investigation conducted on July 23, 1999 by Mr. Dirk S. Mammen, Senior Scientist and Ms. Lori A. Villar, Associate Scientist with ECT.

This environmental site assessment was based upon information collected through the following activities:

- Visual assessment of the property and structure(s).
- Evaluation of potential environmental impacts from proximate properties.
- Evaluation of past site usage through the review of historical maps/photographs, governmental regulatory agency data, historical records, and discussions with persons familiar with the site and local area.
- Review of available environmental incident reports contained in records and databases from the appropriate regulatory agencies.

- Review of known sites of contamination from the state and federal agency sources, including the CERCLIS, NPL, Landfill lists, LUST sites, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, and other available sources.

- A review of registered USTs and Aboveground Storage Tanks (ASTs) in the proximate area.

- A visual survey of construction materials to determine whether suspect asbestos containing materials (ACMs) are present.

- A survey of the electrical equipment which may have PCB containing oils.

3.0 PHYSICAL SITE ASSESSMENT

3.1 SITE LOCATION

The subject property is located at 101 - 103 S. River Street, including a small vacant parcel in the City of Ypsilanti, Washtenaw County, Michigan (Figure 1). The subject property, as indicated on the Ypsilanti East Quadrangle U.S.G.S. 7.5 minute topographic map, is located in Section 9, Township 3 South, Range 7 East, City of Ypsilanti, County of Washtenaw, State of Michigan.

3.2 GENERAL SITE DESCRIPTION

The property consists of two parcels of property. One parcel is known as 101 - 103 S. River Street, the other parcel is vacant. One large, rectangular shaped structure is located on the property, the structure is bi-level with several portions historically leased out. The structure has several offices upstairs, but the majority of the structure is designed as a warehouse. The structure is in poor condition with several windows broken, roof cave-ins, and floor cave-ins. There are five loading docks along the eastern portion of the structure. The structure is resting on a slab on grade floor, with no basement areas. The subject property is located along the south side of Parsons Street, between S. River Street to the west and Park Street to the east. The majority of the subject property is occupied by the structure, the remaining northern and eastern portions of the property is paved, the southern portion is overgrown with grass and shrubs.

The exterior of the subject property is used for the storage of scrap metals including equipment and a variety of plastics. There is a small fenced-in area along the northeastern side of the structure. The fenced-in area is used for the storage of piping, empty oil containers, and several empty 55-gallon drums. Miscellaneous empty containers and metal debris are scattered along the eastern portion of the structure. The southern portion of the property is grass and shrub covered with scattered wooden palettes and empty 55-gallon drums. It should be noted that prominent roofing tar stains

were observed on the southern portion of the structure. The subject property also consists of a small vacant parcel that is located just west of the structure. The parcel is covered with grass and shrubs, there is no apparent activity on this portion of the subject property. S. River Street separates the structure and the vacant parcel. The northern portion of the subject property has frontage to Parsons Street.

The structure is designed as a warehouse with several office locations. The structure is bi-level with the second story being leased out. The second story was primarily used as office space. Miscellaneous objects, such as, VCRs, stereos, toys, and other household products are currently stored on the second story. It should be noted that the second story of the structure has 9" by 9" ceiling tiles that may contain asbestos. The ceiling tiles are in fair condition.

The lower level of the structure is an open space area with some small office locations. This portion of the structure is currently used to store metal and plastic recyclable parts, such as, equipment and polypropylene materials. Some portions of the lower level were also leased out. There is pipe wrap, which may contain asbestos, located on the lower level. The potentially asbestos containing wrap extends the length of the structure. The pipe wrap is in moderate to poor condition.

Geologic information was obtained from available U.S. Geological Survey reports, U.S.G.S. topographic maps, and other available local geological informational papers. The site elevation is approximately 700-750 feet above mean sea level (ft-msl) as indicated on the U.S.G.S. Ypsilanti East Quadrangle topographic map. The property has a southerly topographic dip towards the Huron River.

3.3 SOLID AND HAZARDOUS WASTES

The subject site was visually inspected for the presence of solid and hazardous waste, toxic materials, or any other environmental contamination which may have been present.

Items which typically represent the potential for environmental contamination include chemical spills and leaks, dead or dying foliage, ground discoloration and disturbances, unusual odors, and the improper storage of solid, liquid, or gaseous products and wastes. No unusual odors or stressed vegetation were observed during the site reconnaissance. No visual indication of historical hazardous material storage or disposal resulting in possible adverse site impairment was discovered during the site reconnaissance on the subject property or adjacent properties. Some concrete floor staining due to minor spilling and leakage was observed throughout the interior and exterior of the structure. Although, no significant ground staining or other evidence of material spilling or mishandling was observed, prominent roof tar staining was observed along the southern portion of the structure. No evidence was encountered that hazardous material dumping had occurred. There are several 55-gallon drums scattered throughout the property, however, these drums are empty. A small number of compressed gas cylinders are stored onsite; their use is unknown.

3.4 STORAGE TANKS

The subject property and neighboring properties were visually inspected for the presence of USTs and ASTs. A review of the available state and county records was conducted with regard to storage tanks. There are no USTs or ASTs located on the subject property, in addition, no ASTs were observed on neighboring properties. There is a UST located on the property just east of the subject property, according to the owner of the adjacent property, the UST is no longer in use.

3.5 POLYCHLORINATED BIPHENYLS

PCBs are toxic coolant or lubricant oils used in some electrical equipment, transformers, capacitors, fluorescent light ballasts, and hydraulic systems. The visual inspection of this property did not indicate the presence of any PCB containing equipment on the site or in the immediate vicinity of the site. However, there were two pole-mounted transformers located on the western portion of the roof of the structure located on the subject property.

These transformers are unlabeled as to potential PCB content, thus they should be considered suspect PCB-containing transformers. No evidence of any leaks or deterioration of the transformers was observed. In the event of any future release or transformer maintenance or disposal, the oil coolants should be analyzed for possible PCB content and handled accordingly.

3.6 ASBESTOS CONTAINING MATERIALS (ACMs)

A visual survey of building materials was conducted to determine whether suspect ACMs were present on the subject site. Asbestos was used primarily in the 1950s through 1970s in a wide variety of construction and insulative materials. It has been found in roofing and flooring materials, ceiling tiles, and insulation materials. Asbestos can become an environmental or health risk when the asbestos fiber is released and inhaled or ingested. ACMs present environmental risks when exposed or disturbed. Suspect asbestos containing materials (ACMs) were observed during the site reconnaissance in several locations throughout the interior of the structure. There is potential ACMs insulative pipe wrap located throughout the lower level of the structure, the wrap extends the length of the structure. The upper level of the structure has 9" by 9" ceiling tiles that may be ACMs. The condition of the pipe wrap and ceiling tiles are in fair to poor condition.

3.7 FILL MATERIALS

No evidence was discovered during the assessment of the site that would indicate that any unnatural fill materials or land filling had occurred on the site.

4.0 CURRENT LAND USE

The subject property and surrounding properties along S. River Street are principally involved with various industrial, packaging/distribution, commercial or office operations. No heavy manufacturing or large quantity chemical use operations were observed within the area or on the subject property.

The subject property is occupied by a large warehouse structure and a vacant parcel. The warehouse is used to store plastic recyclable material. There are several office spaces located in the warehouse. There is no apparent activity associated with the vacant parcel. Neighboring properties include a park area, commercial operations, and residential homes.

5.0 SITE HISTORY AND RECORDS REVIEW

A site history was compiled by researching the records maintained at applicable federal, state, county and local regulatory agencies, including a commission of an environmental database. The database searched was based on a radius search of the site and area. The regulatory file review was performed in order to confirm that information which was presented on the database and to search for any sites that may have been missed by the data search. In addition, those sites that were in close enough proximity to the site or which were of concern were investigated in greater detail. These included the United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, landfill databases, UST and LUST information, and state and local Fire Marshal records.

5.1 AERIAL PHOTOGRAPHY

Available aerial photography of the site and surrounding area was reviewed. Aerial photographs were reviewed for the years 1940, 1963, 1969 and 1978. The 1940, 1963, 1969 and 1978 aerials indicated that subject property appeared as it does today, the warehouse existed and the vacant parcel remained vacant. Copies of the aerial photographs are included in Appendix A.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps are historical map records primarily used by insurance companies to assess fire risks for a particular property and can offer valuable information regarding the presence of USTs, ASTs, and types of businesses and operations that have occupied a particular property. A search for available Sanborn Fire Insurance maps was performed for the years 1927, 1950 and 1964. The 1927 Sanborn indicated that the subject property housed Commerce Motor Truck Company. A metal scrap yard was located just east of the subject property. The 1950 and 1964 Sanborns indicated that Dura

Corporation occupied the subject property. Copies of the Sanborn maps for the subject property and area are included in Appendix B.

5.3 STREET INDEX DIRECTORIES

Polk Street Index Directories were reviewed at the Ann Arbor Public Library in Ann Arbor, Michigan. These directories are used to provide historical information pertaining to the name addressed to a particular property. Polk Street Index Directories were available for the area back into the late 1800's. The directories indicated that the subject property was occupied by the Ypsilanti Iron & Metal Company since the mid 1940's. Prior to Ypsilanti Iron & Metal Company, the property was occupied by the Hartwick-Westcott Lumber Company as early as the late 1800's.

5.4 REGULATORY FILE REVIEW

The purpose of the regulatory file review is to obtain and review records that will help identify potential environmental concerns in connection with the property or adjoining properties. The primary source of this information is the EDR report (see Appendix C) which presents the findings of a computerized environmental records search for the subject property, adjoining properties, and nearby properties (Inquiry Number 341436 - February 25, 1999). The EDR report documented available information historically found on the following databases: United States Environmental Protection Agency (USEPA) CERCLIS, NPL, RCRIS, ERNS, HMIRS, TRIS, and TSCA data files, SHWS, landfill databases, UST and LUST information, and state and local Fire Marshal records.

The CERCLIS and NPL databases are prepared under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) by the USEPA. The NPL sites are those sites most in need of remediation and clean up as promulgated by the EPA and the CERCLIS sites are those under investigation for possible placement on the NPL list. Of the sites listed for the State of Michigan, and those specifically indicated within

the radius area, no NPL and no CERCLIS sites were found to be located within a one mile radius of the subject property.

As indicated in the EDR report, three State Hazardous Waste Sites and no landfill sites were identified to be located within a one mile radius of the subject property, none being located on the subject property or adjacent properties, with no evidence to suggest that the subject property may have been adversely environmentally impaired by these sites.

The State of Michigan UST and LUST databases were reviewed. The review indicated that numerous registered UST and LUST sites exist within in the area, none being located on the subject property. However, a review of the available file information for the sites and discussions with appropriate fire department personnel has indicated that no release has been discovered which would have migrated onto the subject property. No registration information was discovered with respect to the UST located on the subject property.

A search of the ERNS, SPILLS, TRIS, HMIRS, and Department of Transportation (DOT) records was conducted. The subject property was not found in any of the records.

The HWDMS/RCRIS, and TSCA databases were reviewed. This information indicates the names and addresses of those facilities that generate, store, or dispose of hazardous materials and wastes. This information also indicates the facilities that release toxic reportable quantities of chemicals into the air, water, or land. These facilities are regulated and reviewed by the appropriate federal agencies and must conform to the regulatory acceptable limits and guidelines. These databases only indicate the presence of these types of facilities and do not reflect whether the sites may be contaminated or not in compliance. Based on the nature of the surrounding area, some nearby sites can be found on the database; however, no indication of the potential for direct environmental impairment to the subject property was discovered.

6.0 PHASE II SITE INVESTIGATION

6.1 SCOPE OF INVESTIGATION

The investigation at Parcels 20 and 26 consisted of advancing 16 Geoprobe borings to a depth of 12 feet below surface grade (bsg). Two soil samples were collected from each boring, one from the surface 0-1 ft, designated sample 'A', the second, designated 'B', from the capillary fringe or other feature, as discussed below.

6.2 INVESTIGATION METHODS

All investigation activities are described in the Quality Assurance Project Plan, the Work Plan/Sampling and Analysis Plan, and the associated Standard Operating Procedures. The following sections provide a brief overview of the methods employed in the investigation.

All soil and groundwater samples collected for laboratory analysis were placed into the appropriate containers in the order of the selected analysis, as follows:

1. Volatile Organic Compounds
2. Semi-Volatile Organic Compounds
3. Polychlorinated Biphenyls & Pesticides
4. Cyanide
5. Metals

All soil samples were collected in the appropriate precleaned (to EPA specifications) containers and stored following United States Environmental Protection Agency (USEPA) Publication SW-846 Method 5035/ASTM D4547-91, final version of March 26, 1998, *Testing Methods for Evaluating Solid Waste*. All soil sample containers were labeled in accordance with the QAPP

Temporary Monitoring Well Installation

Two temporary monitoring wells were installed on these parcels. The wells, constructed of 1" PVC with a five-foot, 010-slot screen, were placed in the GeoProbe borehole.

Soil Sampling

Soil samples was collected for laboratory analysis based on one or more of the following criteria:

1. Known and/or suspected depth of release (e.g. surface stain, deep machine pit, etc.)
2. Visual identification of soil staining
3. Concentrated petroleum based odors
4. Highest PID level reading
5. Sand to clay interface

Soil samples collected for parameters other than VOCs were homogenized in a stainless-steel bowl with a stainless-steel spoon prior to placement in appropriate sample containers. Following use of the stainless-steel bowl and spoon, this equipment was decontaminated in accordance with ECT SOP-4.

When sampling with a Geoprobe®, the drilling contractor followed the American Society for Testing and Materials publication ASTM D-4700. Using hydraulic drive core/direct-push (Geoprobe®) sampling techniques, continuous soil samples were collected from the soil borings at four-foot intervals, according to ASTM. A clean, plastic sampling sleeve was used for each sample interval. The stainless steel coring sleeve was decontaminated between each boring.

Upon completion of boring, the borehole was backfilled with any remaining cuttings. At a minimum, the upper two feet of the borehole was backfilled with bentonite pellets. Surface materials, such as pavement, asphalt, soil, etc., were utilized to restore the site to its original condition.

Soil samples collected for volatile organic compound (VOCs) analysis were containerized following guidelines established by the USEPA in "*Soil Sample Collection and Methanol Preservation for Volatile Analysis*" and adopted by the Michigan Department of Environmental Quality, Environmental Response Division (MDEQ, ERD) in "*Procedure: Methanol Preservation of Soil VOC Samples, Environmental Response Division,*" Draft, June 3, 1999.

All weight measurements in this procedure were recorded in an ECT field logbook or field form during sample collection. The field sampler also documented the use of the MDEQ guidance in their field logbook and/or on the appropriate field forms whenever collecting samples with methanol preservation on this project.

If no other unpreserved soil samples from the same sample location are being sent to the selected laboratory for analysis (i.e., PAHs, PCBs, Metals, etc.), then approximately 50 grams of soil will also be placed in a clean glass jar without preservative, properly labeled and sent along with the corresponding methanol preserved sample for analysis of percent solids. The properly labeled sample jars will be placed in a bubble wrap bag and secured in an ice-cooled container for shipment to the laboratory for analyses.

Groundwater Sampling

Groundwater samples were collected in accordance with the methods described in the QAPP. Sampling was accomplished using a peristaltic pump operated at a low flow rate to minimize drawdown of the water level in the well.

6.3 INVESTIGATION RESULTS

The boring locations are shown on Figure 3 and the logs of the borings are included in Appendix D.

Soils encountered in the borings were typically a mixture of sands with traces of clay and gravel. A clay layer was found in the borings on the northern portion of the property (26-1 through 26-10) at a depth of five to six feet. The clay persisted to the end of the borings at 12 ft. Apparent fill material was observed in the 2-4 ft interval in several of the borings (26-2, 26-5, 26-6, 26-12a, 26-14), consisting of crushed limestone, wood, asphalt fragments, glass, and brick. Saturated soils indicative of groundwater were observed in the borings on the southern portion of the property at a depth of about 11-12 feet.

The laboratory analytical results for the eight soil samples are summarized in Table 1. For volatile organic compounds (Part 1 of 4), elevated analytical detection limits reduce the utility of the data.

Several semivolatile organic compounds (Part 2 of 4), namely polynuclear aromatic hydrocarbons (PAHs) were detected in trace concentrations in the samples from boring 26-10A (0-1 ft), 26-12A (0-1 ft), and 26-13A (0-1 ft). However, due to laboratory conditions, reflected by the flags in the data tables, the concentrations are reported as estimates.

Trace levels pesticides or PCBs (Part 3 of 4) were detected, but at levels far below the state criteria.

The analytical results for trace metals and cyanide (Part 4 of 4) reveal that several elements (arsenic, lead, and mercury) exceed the State of Michigan default background levels, and in the case of mercury some concentrations exceed the criteria for protection of the GSI.

One of the two groundwater samples (26-13) contained metals at levels exceeding Michigan's Part 201 criteria for drinking water and for the groundwater-surface water interface. Vanadium, manganese, lead, arsenic, and aluminum exceed the criteria in this sample.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Environmental Consulting & Technology, Inc. (ECT) has completed the Phase I Environmental Site Assessment of the facility and property located at 101 - 103 River Street, including a small vacant parcel in the City of Ypsilanti, Michigan.

In the professional opinion of Environmental Consulting & Technology, Inc., all appropriate inquiry has been made into the past uses of the subject property consistent with good commercial or customary practice and evidence has come to light that would indicate that potential recognized environmental conditions exist with regard to the subject property. ECT recommends the performance of a subsurface environmental evaluation based on the metal debris scattered throughout the subject property, and the historical records that indicate the property was used for automotive and truck manufacturing purposes. It is recommended that additional soil and groundwater investigation activities be performed on this property.

The results of the Geoprobe investigation indicate that the property is a facility according to the criteria set forth in 1994 P.A. 451, Part 201. Several constituents namely trace metals exceed one or more of the applicable criteria.

8.0 QUALIFICATIONS

This assessment was performed by ECT with standard professional practice using the degree of skill and care exercised for similar projects. The conclusions given by ECT are based on an audit effort to obtain and review reasonably available information on the site and adjacent sites. We have relied upon information provided to us by others and on the accuracy and completeness of the available information. No warranty or conclusions other than those expressly contained within this report are implied or intended. ECT can offer no assurances and assumes no responsibility for the site conditions or activities that were outside the scope of work requested.

Tables

Table 1. Analytical Summary Table

Parcel #20 & #26

Part 1 of 4: Volatile Organic Compounds

Sample Number :	EDFA1		EDFC3		EDFF7		EDFF8		EDFF9		EDFG0		EDFG1		EDFG3		EDFG4		EDFG5		EDFG6	
Sampling Location :	20-1-A		20-1-X		26-1A		26-1B		26-2A		26-2B		26-3A		26-4A		26-4B		26-5A		26-6A	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999	
Time Sampled :	14:00		14:30		09:45		10:00		10:40		10:50		11:20		12:35		13:00		13:35		15:00	
%Moisture :	3		16		5		7		8		9		11		11		13		11		6	
pH :																						
Dilution Factor :	10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Chloromethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Vinyl Chloride	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Bromomethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Chloroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Trichlorofluoromethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,1-Dichloroethene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Acetone	370000	J	390000	J	360000	J	370000	J	380000	J	380000	J	360000	J	390000	J	340000	J	290000	J	290000	J
Carbon Disulfide	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Methyl Acetate	28000	UJ	32000	UJ	28000	UJ	5900	J	29000	UJ	30000	UJ	30000	UJ	30000	UJ	4500	J	3600	J	3800	J
Methylene Chloride	3100	J	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	3400	J	3300	J	31000	UJ	30000	UJ	29000	UJ
trans-1,2-Dichloroethene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
tert-Butyl Methyl Ether	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,1-Dichloroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
cis-1,2-Dichloroethene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
2-Butanone	13000	J	14000	J	13000	J	11000	J	13000	J	13000	J	13000	J	13000	J	9500	J	8800	J	8600	J
Chloroform	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,1,1-Trichloroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Cyclohexane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Carbon Tetrachloride	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Benzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,2-Dichloroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	9200	J	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Trichloroethene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Methylcyclohexane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,2-Dichloropropane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Bromodichloromethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
cis-1,3-Dichloropropene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
4-Methyl-2-pentanone	50000	J	52000	J	50000	J	51000	J	53000	J	53000	J	52000	J	56000	J	46000	J	42000	J	40000	J
Toluene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
trans-1,3-Dichloropropene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,1,2-Trichloroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Tetrachloroethene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
2-Hexanone	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Dibromochloromethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,2-Dibromoethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Chlorobenzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Ethylbenzene	40000	J	39000	J	38000	J	40000	J	42000	J	40000	J	38000	J	45000	J	37000	J	36000	J	34000	J
Xylenes (total)	150000	J	160000	J	150000	J	150000	J	160000	J	150000	J	150000	J	170000	J	140000	J	130000	J	120000	J
Styrene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Bromoform	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
Isopropylbenzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,1,2,2-Tetrachloroethane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,3-Dichlorobenzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,4-Dichlorobenzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,2-Dichlorobenzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,2-Dibromo-3-chloropropane	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ
1,2,4-Trichlorobenzene	28000	UJ	32000	UJ	28000	UJ	29000	UJ	29000	UJ	30000	UJ	30000	UJ	30000	UJ	31000	UJ	30000	UJ	29000	UJ

Table 1. Analytical Sum m

Parcel #20 & #26

Part 1 of 4: Volatile Organic C

Sample Number :	EDFG8		EDEY3		EDEY5		EDEY8		EDEY9		EDEZ0		EDFA3		EDFA4		EDFA5		EDFA6	
Sampling Location :	26-7A		26-8A		26-9A		26-10B		26-11A		26-11B		26-12-A		26-12-B		26-13-A		26-13-B	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999	
Time Sampled :	09:50		10:30		11:10		12:05		12:45		12:55		14:00		14:15		14:40		15:00	
%Moisture :	7		8		6		26		6		22		14		15		5		32	
pH :																				
Dilution Factor :	10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0		10.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Chloromethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Vinyl Chloride	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Bromomethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Chloroethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Trichlorofluoromethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,1-Dichloroethene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Acetone	300000	J	320000	J	340000	J	410000	J	310000	J	350000	J	440000	J	440000	J	440000	J	540000	J
Carbon Disulfide	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Methyl Acetate	4200	J	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Methylene Chloride	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	3700	J	31000	UJ	32000	UJ	28000	UJ	40000	UJ
trans-1,2-Dichloroethene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
tert-Butyl Methyl Ether	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,1-Dichloroethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
cis-1,2-Dichloroethene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
2-Butanone	8500	J	9200	J	9800	J	10000	J	6900	J	10000	J	16000	J	16000	J	16000	J	22000	J
Chloroform	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,1,1-Trichloroethane	29000	UJ	29000	UJ	4100	J	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Cyclohexane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Carbon Tetrachloride	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Benzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,2-Dichloroethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Trichloroethene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	4300	J	28000	UJ	40000	UJ
Methylcyclohexane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,2-Dichloropropane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Bromodichloromethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
cis-1,3-Dichloropropene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
4-Methyl-2-pentanone	43000	J	46000	J	49000	J	64000	J	47000	J	51000	J	31000	UJ	32000	UJ	28000	UJ	61000	J
Toluene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
trans-1,3-Dichloropropene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,1,2-Trichloroethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Tetrachloroethene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
2-Hexanone	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Dibromochloromethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,2-Dibromoethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Chlorobenzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Ethylbenzene	36000	J	37000	J	41000	J	50000	J	38000	J	38000	J	44000	J	43000	J	40000	J	50000	J
Xylenes (total)	130000	J	140000	J	150000	J	190000	J	140000	J	140000	J	160000	J	160000	J	150000	J	180000	J
Styrene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Bromoform	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
Isopropylbenzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,1,2,2-Tetrachloroethane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,3-Dichlorobenzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,4-Dichlorobenzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,2-Dichlorobenzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,2-Dibromo-3-chloropropane	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ
1,2,4-Trichlorobenzene	29000	UJ	29000	UJ	29000	UJ	23000	UJ	29000	UJ	22000	UJ	31000	UJ	32000	UJ	28000	UJ	40000	UJ

DRAFT

Table 1. Analytical Summary Table

Parcel #20 & #26

Part 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDFA1		EDFA2		EDFC3		EDFF7		EDFF8		EDFF9		EDFG0		EDFG1		EDFG2		EDFG3		EDFG4		EDFG5		EDFG6		EDFG7		EDFG8
Sampling Location :	20-1-A		20-1-B		20-1-X		26-1A		26-1B		26-2A		26-2B		26-3A		26-3B		26-4A		26-4B		26-5A		26-6A		26-6B		26-7A
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/23/1999
Time Sampled :	14:00		14:15		14:30		09:45		10:00		10:40		10:50		11:20		11:35		12:35		13:00		13:35		15:00		15:15		09:50
% Moisture :	3		6		16		5		7		8		8		11		6		11		13		11		6		16		7
pH :	8.9		7.5		8.3		9.1		10.1		9.7		9.2		10.3		10.6		9.6		9.2		11.0		9.7		9.1		9.1
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result
Benzaldehyde	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Phenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
bis-(2-Chloroethyl) ether	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2-Chlorophenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2-Methylphenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2,2'-oxybis(1-Chloropropane)	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Acetophenone	340	R	34	J	380	UJ	350	UJ	47	J	380	UJ	27	J	370	UJ	50	J	370	UJ	20	J	370	UJ	25	J	400	UJ	350
4-Methylphenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
N-Nitroso-di-n-propylamine	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Hexachloroethane	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Nitrobenzene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Isophorone	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2-Nitrophenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2,4-Dimethylphenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
bis-(2-Chloroethoxy) methane	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2,4-Dichlorophenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	64	J	400	UJ	350
Naphthalene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
4-Chloroaniline	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Hexachlorobutadiene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Caprolactam	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
4-Chloro-3-methylphenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	82	J	400	UJ	350
2-Methylnaphthalene	340	R	19	J	380	UJ	350	UJ	42	J	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Hexachlorocyclopentadiene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2,4,6-Trichlorophenol	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2,4,5-Trichlorophenol	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
1-1'-Biphenyl	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2-Chloronaphthalene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2-Nitroaniline	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
Dimethylphthalate	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
2,6-Dinitrotoluene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	81	J	400	UJ	350
Acenaphthylene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
3-Nitroaniline	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
Acenaphthene	20	J	18	J	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	82
2,4-Dinitrophenol	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
4-Nitrophenol	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
Dibenzofuran	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	33	J	400	UJ	32
2,4-Dinitrotoluene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Diethylphthalate	340	R	350	UJ	380	UJ	350	UJ	25	J	21	J	24	J	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Fluorene	21	J	23	J	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	19	J	400	UJ	69
4-Chlorophenyl-phenyl ether	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
4-Nitroaniline	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
4,6-Dinitro-2-methylphenol	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
N-Nitrosodiphenylamine	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
4-Bromophenyl-phenyl ether	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Hexachlorobenzene	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Atrazine	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Pentachlorophenol	680	R	680	UJ	680	UJ	670	UJ	680	UJ	680	UJ	680	UJ	810	UJ	800	UJ	830	UJ	850	UJ	930	UJ	680	UJ	1000	UJ	680
Phenanthrene	410	J	160	J	110	J	22	J	50	J	380	UJ	31	J	56	J	52	J	32	J	20	J	130	J	260	J	58	J	530
Anthracene	110	J	30	J	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	30	J	70	J	400	UJ	120
Carbazole	20	J	22	J	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	27	J	400	UJ	60
Di-n-butylphthalate	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	96
Fluoranthene	950	J	120	J	230	J	350	UJ	20	J	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	220	J	480	J	150	J	580
Pyrene	890	J	120	J	180	J	350	UJ	22	J	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	220	J	800	J	140	J	520
Butylbenzylphthalate	340	R	360	UJ	39	J	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
3,3'-Dichlorobenzidine	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Benzo(a)anthracene	480	J	53	J	69	J	350	UJ	350	UJ	380	UJ	380	UJ	82	J	380	UJ	51	J	380	UJ	120	J	300	J	79	J	280
Chrysene	480	J	67	J	120	J	22	J	27	J	380	UJ	20	J	60	J	30	J	68	J	380	UJ	140	J	380	J	91	J	310
bis(2-Ethylhexyl)phthalate	340	R	350	UJ	380	UJ	350	UJ	330	J	380	UJ	480	J	370	UJ	750	J	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Di-n-octylphthalate	340	R	350	UJ	380	UJ	350	UJ	350	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	350	UJ	400	UJ	350
Benzo(b)fluoranthene	400	J	45	J	110	J	350	UJ	380	UJ	380	UJ	380	UJ	40	J	380	UJ	43	J	380	UJ	120	J	310	J	80	J	230
Benzo(k)fluoranthene	350	J	38	J	110	J	350	UJ	350	UJ	380	UJ	380	UJ	66	J	380	UJ	44	J	380	UJ	120	J	280	J	67	J	240
Benzo(a)pyrene	430	J	53	J	97	J	350	UJ	350	UJ	380	UJ	380	UJ	60	J	380	UJ	41	J	380	UJ	140	J	300	J	79	J	240
Indeno(1,2,3-cd)pyrene	280	J	38	J	62	J	350	UJ	350	UJ	380	UJ	380	UJ	40	J	380	UJ	31	J	380	UJ	84	J	320	J	53	J	170
Dibenz(a,h)anthracene	89	J	360	UJ	26	J	350	UJ	380	UJ	380	UJ	380	UJ	370	UJ	380	UJ	370	UJ	380	UJ	370	UJ	100	J	400	UJ	88
Benzo(g,h,i)perylene	310	J	57	J	62	J	350	UJ	350	UJ	380	UJ	380	UJ	60	J	23	J	29	J	380	UJ	120	J	410	J	64	J	200

DRAFT

Table 1. Analytical Summar

Parcel #20 & #26

Part 2 of 4: Semivolatile Organic

Sample Number :		EDEY2		EDEY3		EDEY4		EDEY5		EDEY6		EDEY7		EDEY8		EDEY9		EDEZ0		EDEZ1		EDFA4		EDFA3		EDFA6	
Sampling Location :		26-7B		26-6A		26-8B		26-9A		26-9B		26-10A		26-10B		26-11A		26-11B		26-12A-A		26-12-B		26-13-A		26-13-B	
Matrix :		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999	
Time Sampled :		10:05		10:30		10:30		11:10		11:25		11:55		12:05		12:45		12:55		13:40		14:15		14:40		15:00	
% Moisture		8		8		7		6		14		6		28		6		22		5		13		5		32	
pH :		9.0		9.2		7.9		9.0		8.6		8.9		8.4		8.5		8.7		8.7		8.1		8.4		7.8	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1		5.0		1.0		1.0	
	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Phenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	21	J	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
bis-(2-Chloroethyl) ether	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2-Chlorophenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2-Methylphenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2,2'-oxybis(1-Chloropropane)	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	46	J
Acetophenone	UJ	35	J	360	UJ	28	J	11000	UJ	82	J	11000	UJ	450	UJ	23	J	420	UJ	690	J	1900	UJ	11000	R	490	UJ
4-Methylphenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
N-Nitroso-di-n-propylamine	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Hexachloroethane	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Nitrobenzene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Isophorone	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2-Nitrophenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2,4-Dimethylphenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
bis-(2-Chloroethoxy) methane	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2,4-Dichlorophenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	130	J	1400	J	52	J
Naphthalene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	880	J	92	J	74	J	38	J	11000	UJ	1900	UJ	11000	R	490	UJ
4-Chloroaniline	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Hexachlorobutadiene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Caprolactam	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
4-Chloro-3-methylphenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	690	J	51	J
2-Methylnaphthalene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	35	J	49	J	30	J	11000	UJ	1900	UJ	11000	R	490	UJ
Hexachlorocyclopentadiene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2,4,6-Trichlorophenol	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2,4,5-Trichlorophenol	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
1-1'-Biphenyl	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2-Chloronaphthalene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2-Nitroaniline	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
Dimethylphthalate	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
2,6-Dinitrotoluene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Acenaphthylene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	2400	J	220	J	570	J	88	J	1200	J	450	J	6100	J	310	J
3-Nitroaniline	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
Acenaphthene	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	78	J	35	J	11000	UJ	1900	UJ	11000	R	490	UJ
2,4-Dinitrophenol	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
4-Nitrophenol	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
Dibenzofuran	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	880	J	120	J	97	J	72	J	11000	UJ	1900	UJ	1300	J	100	J
2,4-Dinitrotoluene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Diethylphthalate	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Fluorene	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	1000	J	150	J	240	J	110	J	11000	UJ	170	J	2000	J	170	J
4-Chlorophenyl-phenyl ether	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
4-Nitroaniline	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
4,6-Dinitro-2-methylphenol	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
N-Nitrosodiphenylamine	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
4-Bromophenyl-phenyl ether	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Hexachlorobenzene	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Atrazine	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Pentachlorophenol	UJ	880	UJ	900	UJ	880	UJ	27000	UJ	970	UJ	27000	UJ	1100	UJ	880	UJ	1100	UJ	26000	UJ	4900	UJ	26000	R	1200	UJ
Phenanthrene	J	48	J	28	J	350	UJ	11000	UJ	380	UJ	12000	J	1400	J	2400	J	780	J	4000	J	2700	J	29000	J	1700	J
Anthracene	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	3500	J	370	J	840	J	180	J	1100	J	980	J	6400	J	480	J
Carbazole	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	1000	J	81	J	140	J	58	J	11000	UJ	160	J	1400	J	97	J
Di-n-butylphthalate	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	220	J	11000	R	490	UJ
Fluoranthene	J	350	UJ	71	J	350	UJ	11000	UJ	380	UJ	27000	J	2000	J	3600	J	1000	J	10000	J	7000	J	50000	J	2600	J
Pyrene	J	23	J	60	J	350	UJ	11000	UJ	380	UJ	21000	J	1900	J	4700	J	1600	J	9700	J	6300	J	48000	J	3200	J
Butylbenzylphthalate	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
3,3'-Dichlorobenzidine	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	380	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Benzo(a)anthracene	J	350	UJ	80	J	350	UJ	11000	UJ	380	UJ	12000	J	940	J	2400	J	800	J	5700	J	4000	J	26000	J	1200	J
Chrysene	J	28	J	52	J	350	UJ	11000	UJ	23	J	12000	J	900	J	2300	J	600	J	6600	J	3900	J	25000	J	1200	J
bis(2-Ethylhexyl)phthalate	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	U	2300	J	450	U	350	U	420	UJ	630	J	1900	UJ	2700	J	490	UJ
Di-n-octylphthalate	UJ	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	11000	UJ	450	UJ	350	UJ	420	UJ	11000	UJ	1900	UJ	11000	R	490	UJ
Benzo(b)fluoranthene	J	350	UJ	43	J	350	UJ	11000	UJ	380	UJ	8600	J	700	J	1700	J	380	J	6400	J	3100	J	18000	J	880	J
Benzo(k)fluoranthene	J	350	UJ	50	J	350	UJ	11000	UJ	380	UJ	12000	J	780	J	1800	J	380	J	6000	J	3300	J	22000	J	930	J
Benzo(a)pyrene	J	350	UJ	66	J	350	UJ	11000	UJ	380	UJ	14000	J	810	J	2400	J	440	J	7800	J	4200	J	26000	J	1200	J
Indeno(1,2,3-cd)pyrene	J	350	UJ	40	J	350	UJ	11000	UJ	380	UJ	8300	J	650	J	1800	J	270	J	5100	J	3100	J	16000	J	810	J
Dibenzo(a,h)anthracene	J	350	UJ	360	UJ	350	UJ	11000	UJ	380	UJ	2800	J	200	J	580	J	81	J	1500	J	970	J	5600	J	270	J
Benzo(g,h,i)perylene	J	350	UJ	50	J	350	UJ	11000	UJ	380	UJ	9700	J	780	J	2400	J	320	J	5900	J	3600	J	19000	J	930	J

Table 1. Analytical Summary Table

Parcel #20 & #26

Part 1 of 4: Pesticides and PCBs

Sample Number :	EDFA1		EDFA2		EDFC3		EDFF7		EDFF8		EDFF9		EDFG0		EDFG1		EDFG2		EDFG3		EDFG4		EDFG5		EDFG6		EDFG7		EDFG8		EDEY2	
Sampling Location :	20-1-A		20-1-B		20-1-X		26-1A		26-1B		26-2A		26-2B		26-3A		26-3B		26-4A		26-4B		26-5A		26-5A		26-4B		26-7A		26-7B	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/23/1999		09/23/1999	
Time Sampled :	14:00		14:15		14:30		09:45		10:00		10:40		10:50		11:20		11:35		12:35		13:00		13:35		15:00		15:15		09:50		10:05	
*Moisture :	3		5		16		5		7		8		9		11		8		11		13		11		8		18		7		6	
pH :	8.9		7.5		8.3		9.1		10.1		9.7		9.2		10.3		10.6		8.8		9.2		11.0		8.7		9.1		8.1		9.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.8	UJ	1.8	UJ	2.0	UJ	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
beta-BHC	1.8	UJ	1.8	UJ	2.0	UJ	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
delta-BHC	1.8	UJ	1.8	UJ	2.0	UJ	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
gamma-BHC (Lindane)	1.8	UJ	1.8	UJ	2.0	UJ	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
Heptachlor	1.8	UJ	1.8	UJ	2.0	UJ	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
Aldrin	1.8	UJ	1.8	UJ	2.0	UJ	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
Heptachlor epoxide	1.8	UJ	1.8	UJ	2.0	J	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
Endosulfan I	1.8	UJ	1.8	UJ	0.36	J	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
Dieldrin	3.4	UJ	3.6	UJ	3.9	UJ	3.5	UJ	3.6	UJ	3.8	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.6	UJ	4.0	UJ	3.6	UJ	3.5	UJ
4-4'-DDE	3.4	UJ	2.2	J	180	J	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
Endrin	3.4	UJ	3.5	UJ	3.9	UJ	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
Endosulfan II	3.4	UJ	3.6	UJ	3.9	UJ	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
4-4'-DDD	3.4	UJ	3.5	UJ	6.9	J	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
Endosulfan sulfate	3.4	UJ	3.5	UJ	3.9	UJ	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
4-4'-DDT	3.4	UJ	2.8	J	120	J	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
Methoxychlor	18	UJ	18	UJ	6.6	J	18	UJ	18	UJ	18	UJ	19	UJ	19	UJ	18	UJ	19	UJ	20	UJ	19	UJ	18	UJ	21	UJ	18	UJ	18	UJ
Endrin Ketone	3.4	UJ	3.5	UJ	3.9	UJ	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	1.2	J	2.0	J	4.0	UJ	1.2	J	2.8	J
Endrin aldehyde	3.4	UJ	3.5	UJ	3.9	UJ	3.5	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.7	UJ	3.6	UJ	3.7	UJ	3.8	UJ	3.7	UJ	3.5	UJ	4.0	UJ	3.6	UJ	3.5	UJ
alpha-Chlordane	1.8	UJ	1.8	UJ	6.0	J	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
gamma-Chlordane	1.8	UJ	1.8	UJ	3.8	J	1.8	UJ	1.8	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	1.9	UJ	2.0	UJ	1.9	UJ	1.8	UJ	2.1	UJ	1.8	UJ	1.8	UJ
Toxaphene	180	UJ	180	UJ	200	UJ	180	UJ	180	UJ	180	UJ	190	UJ	190	UJ	180	UJ	190	UJ	200	UJ	190	UJ	180	UJ	210	UJ	180	UJ	180	UJ
Aroclor-1016	34	UJ	35	UJ	39	UJ	35	UJ	35	UJ	36	UJ	36	UJ	37	UJ	36	UJ	37	UJ	38	UJ	37	UJ	35	UJ	40	UJ	35	UJ	35	UJ
Aroclor-1221	69	UJ	71	UJ	80	UJ	71	UJ	72	UJ	73	UJ	74	UJ	75	UJ	73	UJ	76	UJ	77	UJ	75	UJ	71	UJ	82	UJ	72	UJ	71	UJ
Aroclor-1232	34	UJ	35	UJ	39	UJ	35	UJ	35	UJ	36	UJ	36	UJ	37	UJ	36	UJ	37	UJ	38	UJ	37	UJ	35	UJ	40	UJ	35	UJ	35	UJ
Aroclor-1242	34	UJ	35	UJ	39	UJ	35	UJ	35	UJ	36	UJ	36	UJ	37	UJ	36	UJ	37	UJ	38	UJ	37	UJ	35	UJ	40	UJ	35	UJ	35	UJ
Aroclor-1248	34	UJ	35	UJ	39	UJ	35	UJ	35	UJ	36	UJ	36	UJ	37	UJ	36	UJ	37	UJ	38	UJ	37	UJ	35	UJ	40	UJ	35	UJ	35	UJ
Aroclor-1254	34	UJ	35	UJ	39	UJ	35	UJ	110	J	49	J	66	J	37	UJ	36	UJ	37	UJ	38	UJ	37	UJ	63	J	20	J	48	J	1100	J
Aroclor-1260	34	UJ	35	UJ	39	UJ	35	UJ	35	UJ	36	UJ	36	UJ	37	UJ	36	UJ	37	UJ	38	UJ	37	UJ	35	UJ	40	UJ	46	J	35	UJ

Table 1. Analytical Summary

Parcel #20 & #26

Part 3 of 4: Pesticides and PCBs

Sample Number :	EDEY3		EDEY4		EDEY5		EDEY6		EDEY7		EDEY8		EDFB6		EDEY9		EDEZ0		EDFA3		EDFA4		EDFA5		EDFA6	
Sampling Location :	26-8A		26-8B		26-9A		26-9B		26-10A		26-10B		26-10-C		26-11A		26-11B		26-12-A		26-12-B		26-13-A		26-13-B	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09-23/1999	
Time Sampled :	10:30		10 30		11:10		11:25		11:55		12:05		12:00		12:45		12:55		14:00		14:15		14:40		15:00	
% Moisture :	6		7		6		14		6		26		32		6		22		14		15		4		31	
pH :	9.2		7.9		9.0		8.8		8.9		8.4		8.3		8.6		8.7		7.7		8.1		8.4		7.9	
Dilution Factor .	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
beta-BHC	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
delta-BHC	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
gamma-BHC (Lindane)	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
Heptachlor	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	1.2	J	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
Aldrin	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	R	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
Heptachlor epoxide	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.6	J	1.4	J	1.8	UJ	2.5	UJ
Endosulfan I	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
Dieldrin	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.5	R	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	3.8	UJ	3.9	UJ	3.4	UJ	4.9	UJ
4-4'-DDE	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.5	R	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	130	J	34	J	3.4	UJ	4.9	UJ
Endrin	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.0	J	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	3.8	UJ	3.9	UJ	3.4	UJ	4.9	UJ
Endosulfan II	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.6	R	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	3.8	UJ	3.9	UJ	3.4	UJ	4.9	UJ
4-4'-DDD	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.5	R	4.5	UJ	6.9	UJ	3.8	J	4.2	UJ	130	J	98	J	3.4	UJ	4.9	UJ
Endosulfan sulfate	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.5	R	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	3.8	UJ	3.9	UJ	3.4	UJ	4.9	UJ
4-4'-DDT	3.6	UJ	3.6	UJ	3.5	UJ	3.8	UJ	3.5	R	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	35	J	5.8	J	3.4	UJ	4.9	UJ
Methoxychlor	18	UJ	18	UJ	18	UJ	20	UJ	18	R	23	UJ	35	UJ	18	UJ	22	UJ	20	UJ	20	UJ	160	J	18	J
Endrin ketone	3.6	UJ	3.6	UJ	4.4	J	3.8	UJ	2.2	J	1.7	J	18	J	6.0	J	4.2	UJ	11	J	2.9	J	41	J	6.6	J
Endrin aldehyde	3.6	UJ	3.6	UJ	3.6	UJ	3.8	UJ	3.6	R	4.5	UJ	6.9	UJ	3.5	UJ	4.2	UJ	3.8	UJ	3.9	UJ	3.4	UJ	4.9	UJ
alpha-Chlordane	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	2.0	UJ	2.0	UJ	1.8	UJ	2.5	UJ
gamma-Chlordane	1.9	UJ	1.8	UJ	1.8	UJ	2.0	UJ	1.8	R	2.3	UJ	3.5	UJ	1.8	UJ	2.2	UJ	1.8	J	2.0	J	1.8	UJ	2.5	UJ
Toxaphene	180	UJ	180	UJ	180	UJ	200	UJ	180	R	230	UJ	350	UJ	180	UJ	220	UJ	200	UJ	200	UJ	180	UJ	250	UJ
Aroclor-1016	36	UJ	35	UJ	35	UJ	38	UJ	36	R	45	UJ	69	UJ	35	UJ	42	UJ	38	UJ	39	UJ	34	UJ	49	UJ
Aroclor-1221	72	UJ	72	UJ	71	UJ	78	UJ	71	R	91	UJ	140	UJ	71	UJ	88	UJ	78	UJ	79	UJ	70	UJ	99	UJ
Aroclor-1232	36	UJ	35	UJ	35	UJ	38	UJ	35	R	45	UJ	69	UJ	35	UJ	42	UJ	38	UJ	39	UJ	34	UJ	49	UJ
Aroclor-1242	36	UJ	35	UJ	35	UJ	38	UJ	35	R	45	UJ	69	UJ	35	UJ	42	UJ	38	UJ	39	UJ	34	UJ	49	UJ
Aroclor-1248	36	UJ	35	UJ	35	UJ	38	UJ	35	R	45	UJ	69	UJ	35	UJ	42	UJ	38	UJ	39	UJ	34	UJ	49	UJ
Aroclor-1254	18	J	35	UJ	170	J	38	UJ	33	J	45	UJ	120	J	35	UJ	42	UJ	38	UJ	39	UJ	2400	J	350	J
Aroclor-1260	36	UJ	35	UJ	82	J	38	UJ	35	R	45	UJ	69	UJ	35	UJ	42	UJ	38	UJ	39	UJ	34	UJ	49	UJ

Table 1. Analytical Summary Table

Parcel #20 & #26

Part 4 of 4: Metals and Cyanide

Sample Number :	MECLK3		MECLK0		MECLF9		MECLG0		MECLG1		MECLG2		MECLG3		MECLG4		MECLG5	
Sampling Location :	20-1-A		20-1-B		26-1A		26-1B		26-2A		26-2B		26-3A		26-3B		26-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/24/1999	
Time Sampled :	14:00		14:15		09:45		10:00		10:40		10:50		11:20		11:35		12:35	
%Moisture :	97		92.4		95.7		91.6		93.9		91.2		90.2		78.9		89.5	
pH :																		
Dilution Factor :	1		1		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	2880	J	4530	J	3340		4920		3180		4090		4800		5490		5330	
Antimony	0.42	R	0.45	R	0.43	R	0.46	R	0.44	R	0.45	R	0.46	R	0.53	R	0.46	R
Arsenic	6.3	J	8.7	J	6.7		6.5		5.8		7.9		4.8		5.4		9.3	
Barium	11.4		36.3		13.1		37.3		24.7		26.2		51.9		35.3		36.3	
Beryllium	0.18		0.26		0.19		0.28		0.18		0.22		0.26		0.26		0.28	
Cadmium	0.06	U	0.07	UJ	0.060	U	0.070	U	0.060	U	0.060	U	0.47	J	1.6		0.070	U
Calcium	46400		64500		128000		85500		104000		80500		36300		68800		30500	
Chromium (total)	5.4	J	8.8	J	7.8	J	10.1	J	8.5	J	12.6	J	13.2	J	12.2	J	9.6	J
Cobalt	4		6.1		5.0		5.5		4.4		5.7		4.3		5.7		4.7	
Copper	13.2	J	15.5	J	18.9	J	24.7	J	22.6	J	17.1	J	83.1	J	16.1	J	14.8	J
Iron	8800	J	12900	J	14400	J	12900	J	14200	J	12800	J	10600	J	11600	J	13300	J
Lead	6.2	J	6.9	J	8.5	J	10.4	J	9.2	J	6.2	J	22.3	J	5.8	J	12.7	J
Magnesium	5980	J	18100	J	21100		25000		19600		21200		14400		22300		11600	
Manganese	240	J	255	J	350		411		374		268		232		252		378	
Mercury	0.05	U	0.05	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.060	U	0.060	U
Nickel	11.8		18.4		16.4		18.7		14.1		18.5		52.2		28.0		13.9	
Potassium	364		1260		932		1390		775		1200		788		1560		896	
Selenium	0.36	U	0.39	U	0.37	U	0.39	U	0.38	U	0.39	U	0.40	U	0.46	U	0.39	U
Silver	0.16		0.15		0.080	U	0.090	U	0.080	U	0.090	U	0.090	UJ	0.10	U	0.090	UJ
Sodium	31.4	UJ	51.2	J	167	J	38.0	J	32.4	UJ	33.3	UJ	99.3	J	137	J	34.0	U
Thallium	0.42	U	0.58		0.43	U	0.46	U	0.44	U	0.45	U	0.48	U	0.53	U	0.46	U
Vanadium	8.4		12.7		11.2		14.4		10.3		13.1		15.6		16.6		16.2	
Zinc	41.9	J	37.7	J	49.9		51.8		42.5		44.0		97.5		40.3		63.7	
Cyanide	0.05	R	0.07	J	0.090	J	0.10	J	0.050	R	0.050	R	0.46	J	0.31	J	0.080	R

Table 1. Analytical

Parcel #20 & #26

Part 4 of 4: Metals

Sample Number :	MECLG6		MECLG7		MECLG8		MECLG9		MECLH0		MECLH1		MECLH2		MECLH3		MECLH4	
Sampling Location :	26-4B		26-5A		26-6A		26-6B		26-7A		26-7B		26-8A		26-8B		26-9A	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	09/24/1999		09/24/1999		09/24/1999		09/24/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999	
Time Sampled :	13:00		13:35		15:08		15:15		09:50		10:05		10:30		10:30		11:10	
%Moisture :	85.8		89.9		92.2		84.8		95.9		94.3		84.3		89.6		92.9	
pH :																		
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1		1		1	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	8510		4970		9690		4390		2470		1810		6030		5550		6790	
Antimony	0.48	R	0.46	R	0.46	R	0.49	R	0.43	R	0.44	R	0.49	R	0.47	R	0.45	R
Arsenic	7.9		7.1		7.5		7.6		7.9		6.2		2.9		8		6.3	
Barium	58.9		73.6		179		87.2		10.6		7.3		25.4		31.1		53.3	
Beryllium	0.47		0.37		1.0		0.24		0.18		0.13		0.28		0.26		0.52	
Cadmium	0.070	U	0.070	U	0.41	J	0.070	U	0.060	U	0.060	U	0.07	U	0.07	U	0.06	U
Calcium	79800		75100		66300		32500		89600		123000		64700		72700		43200	
Chromium (total)	15.5	J	16.5	J	25.5	J	30.6	J	6.1	J	4.9	J	15.1	J	10.3	J	16.3	J
Cobalt	9.3		4.4		4.4		4.3		5.5		3.9		4.9		6.4		4.2	
Copper	20.3	J	46.1	J	98.3	J	36.8	J	17.8	J	12.2	J	17	J	18.5	J	40.1	J
Iron	18600	J	12700	J	13800	J	30200	J	9980	J	8650	J	12700	J	14300	J	13500	J
Lead	8.0	J	46.6	J	42.2	J	117	J	7.0	J	4.1	J	8.2	J	8.6	J	14.4	J
Magnesium	20800		20100		20700		9020		22500		24800		43300		19400		6680	
Manganese	369		314		1590		400		273		369		235		281		673	
Mercury	0.060	U	0.070		0.060		0.090		0.050	U	0.050	U	0.06	U	0.05	U	0.05	U
Nickel	26.5		39.9		50.8		21.6		19.0		13.7		14.2		16.9		15.2	
Potassium	2330		861		1260		632		807		538		780		1290		803	
Selenium	0.42	U	0.40	U	0.62	J	0.42	U	0.56	J	0.39	J	0.72	J	0.51	J	0.38	U
Silver	0.090	U	0.090	U	0.090	U	0.090	UJ	0.080	U	0.080	U	0.09	U	0.09	U	0.09	U
Sodium	35.8	UJ	34.2	UJ	33.6	UJ	35.9	UJ	32.0	UJ	32.6	UJ	36.1	U	34.6	UJ	33.1	U
Thallium	0.48	U	0.46	U	0.46	U	0.49	U	0.43	U	0.44	U	0.49	U	0.47	U	0.45	U
Vanadium	20.9		13.8		17.3		12.5		14.6		8.6		18		17.2		16.5	
Zinc	50.9		93.0		180		80.9		45.6		122		51		43.1		52.8	
Cyanide	0.060	R	0.29	J	0.14	J	0.26	J	0.050	R	0.050	R	0.06	R	0.06	R	0.23	J

Table 1. Analytical

Parcel #20 & #26

Part 4 of 4: Metals

Sample Number :	MECLH5		MECLH6		MECLH7		MECLH8		MECLH9		MECLJ0		MECLJ1		MECLK2		MECLK4	
Sampling Location :	26-9B		26-10A		26-10B		26-11A		26-11B		26-12A		26-12/B		26-12-B		26-13-A	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999		09/23/1999	
Time Sampled :	11:25		11:55		12:05		12:45		12:55		13:40		13:55		14:15		14:40	
%Moisture :	86.2		93		72.4		94.6		73.3		90.9		86.1		78.4		95.2	
pH :																		
Dilution Factor :	1		1		1		1		1		1		1		1		1	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	4090		6650		6570	J	4450	J	3040	J	8930	J	3900	J	4310	J	5260	J
Antimony	0.48	R	0.45	R	5	J	0.44	UJ	0.56	UJ	7.5	J	0.48	UJ	0.54	R	0.44	R
Arsenic	6.3		8.4		13.8		5.9		10		15.7		17.3		5.6	J	6.7	J
Barium	28		125		496		76.3		219		680		138		1330		76.3	
Beryllium	0.22		0.42		0.96		0.3		0.24		0.77		0.32		0.26		0.37	
Cadmium	0.07	U	0.08	UJ	1.8		0.34	J	0.48	J	6		2.1		1.7		0.29	J
Calcium	67300		26400		89600	J	29500	J	149000	J	51300	J	106000	J	53900		54500	
Chromium (total)	8	J	20.3	J	1810		11.8		33.8		52.7		15.7		29.1	J	13.3	J
Cobalt	5.1		6.8		13.5		4.4		4.5		8.8		5.5		4.3		4.7	
Copper	15.7	J	39.1	J	468	J	22.5	J	9.4	J	822	J	76.4	J	77.6	J	39.6	J
Iron	11000	J	14800	J	32400		11200		15000		38400		24400		12800	J	13300	J
Lead	5.7	J	29.8	J	175		133		7.5		2340		142		218	J	115	J
Magnesium	22400		8740		13100	J	5840	J	11300	J	8570	J	16100	J	12300	J	9460	J
Manganese	278		791		724	J	334	J	819	J	892	J	829	J	284	J	466	J
Mercury	0.05	U	0.05	U	0.24		0.12		0.06	U	0.21		0.06	U	0.27		0.17	
Nickel	15.9		28.3		2300		11.8		8.9		25		14.3		15.8		21.1	
Potassium	1110		1010		1090		759		618		1280		846		1690		850	
Selenium	0.8	J	0.61	J	0.8		0.38	U	0.48	U	0.4	U	0.41	U	0.52	J	0.54	J
Silver	0.09	U	0.14	J	0.44	J	0.3	J	0.11	U	6.8		0.32	J	0.56		0.31	
Sodium	35.5	U	33	U	544	J	288	J	526	J	789	J	447	J	191	J	32.3	U
Thallium	0.48	U	0.45	U	0.57	U	0.44	U	0.56	U	0.46	U	0.48	U	0.54	U	0.44	U
Vanadium	13.5		19.3		24.9		14		11.7		19.8		13.6		11.8		12.6	
Zinc	47.9		84.5		582		98.7		34.3		872		95.6		439	J	126	J
Cyanide	0.06	R	0.18	J	4.7	J	0.05	J	0.26	J	0.41	J	0.59	J	0.36	J	0.12	J

Table 1. Analytical

Parcel #20 & #26

Part 4 of 4: Metals

Sample Number :	MECLK5		MECLP2		MECLP3		MECLP4		MECLP5		MECLP6		MECLP7	
Sampling Location :	26-13-B		26-14-A		26-14-B		26-15-A		26-15-B		26-16-A		26-16-B	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	09/23/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999		10/01/1999	
Time Sampled :	15:00		10:15		10:25		10:45		11:00		11:10		11:20	
%Moisture :	88.6		93.9		77.3		93.6		84.8		93.3		84.8	
pH :	1													
Dilution Factor :			1.0		1.0		1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	4210	J	3780		3470		2950		3290		6640		2840	
Antimony	0.47	R	0.72	J	0.54	UJ	0.60	J	0.49	UJ	0.45	UJ	1.3	J
Arsenic	21.9	J	6.1		8.9		5.0		7.5		9.1		6.5	
Barium	61.9		40.6		97.7		35.6		101		102		64.8	
Beryllium	0.27		0.42		0.21	J	0.21		0.19	J	0.40		0.21	
Cadmium	0.09	J	0.34	J	0.13	J	0.34	J	0.14	J	0.59		0.12	J
Calcium	83600		114000	J	120000	J	98600	J	102000	J	51300	J	68000	J
Chromium (total)	11.4	J	9.0	J	7.7	J	7.1	J	6.5	J	16.2	J	6.9	J
Cobalt	4.1		3.1		3.5		3.0		3.4		5.8		2.9	
Copper	23.2	J	22.5	J	12.4	J	17.4	J	5.5	J	30.6	J	14.1	J
Iron	12600	J	8560		13600		8110		11500		18200		8810	
Lead	48.1	J	52.8		14.2		103		3.6		147		34.7	
Magnesium	13500	J	35600		12900		18400		14900		10700		7710	
Manganese	502	J	409		756		267		601		565		419	
Mercury	0.06		0.11		0.070	U	0.060		0.060	U	0.16		0.28	
Nickel	14		9.5		9.2		8.4		7.8		17.1		6.6	
Potassium	668		690	J	557	J	613	J	445	J	1220	J	444	J
Selenium	0.4	U	0.46	J	0.47	U	0.41	J	0.42	U	0.42	J	0.42	U
Silver	0.11		0.080	U	0.10	U	0.090	U	0.16	J	0.21	J	0.23	J
Sodium	39.1	J	143	J	78.9	J	53.5	J	127	J	150	J	71.0	J
Thallium	0.47	U	0.44	U	0.54	U	0.45	U	0.49	U	0.45	U	0.49	U
Vanadium	10.7		10.2	J	10.5	J	9.2	J	10.4	J	17.4	J	8.9	J
Zinc	64.3	J	48.2		34.8		49.9		21.8		136		38.7	
Cyanide	0.06	R	0.050	R	0.27	J	0.050	R	0.10	J	2.0	J	0.41	J

CADRE Data Qualifier Sheet

Qualifiers

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Table 2. Groundwater Analytical Summary Table

Parcel #26

Page 1 of 4: Volatile Organic Compounds

Sample Number :	EDEP5		EDER2		EDER3		EDER4	
Sampling Location :	26-16		26-13		26-W2		26-W1	
Matrix :	Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/11/1999		11/11/1999		11/11/1999		11/11/1999	
Time Sampled :	13:30		10:30		11:00		11:30	
%Moisture :	N/A		N/A		N/A		N/A	
pH :								
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UJ	10	UJ	10	UJ	10	UJ
Chloromethane	10	UJ	10	UJ	10	UJ	10	UJ
Vinyl Chloride	10	UJ	10	UJ	10	UJ	10	UJ
Bromomethane	10	UJ	10	UJ	10	UJ	10	UJ
Chloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Trichlorofluoromethane	10	UJ	10	UJ	10	UJ	10	UJ
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ	10	UJ	10	UJ	10	UJ
Acetone	28	J	10	UJ	10	UJ	10	UJ
Carbon Disulfide	10	UJ	10	UJ	10	UJ	10	UJ
Methyl Acetate	10	UJ	10	UJ	10	UJ	10	UJ
Methylene Chloride	14	J	13	J	10	J	14	J
trans-1,2-Dichloroethene	10	UJ	10	UJ	10	UJ	10	UJ
tert-Butyl Methyl Ether	10	UJ	10	UJ	10	UJ	10	UJ
1,1-Dichloroethane	10	UJ	10	UJ	10	UJ	10	UJ
cis-1,2-Dichloroethene	10	UJ	10	UJ	10	UJ	4	J
2-Butanone	10	UJ	10	UJ	10	UJ	10	UJ
Chloroform	10	UJ	10	UJ	10	UJ	10	UJ
1,1,1-Trichloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Cyclohexane	10	UJ	10	UJ	10	UJ	10	UJ
Carbon Tetrachloride	10	UJ	10	UJ	10	UJ	10	UJ
Benzene	10	UJ	10	UJ	10	UJ	10	UJ
1,2-Dichloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Trichloroethene	10	UJ	10	UJ	10	UJ	10	UJ
Methylcyclohexane	10	UJ	10	UJ	10	UJ	10	UJ
1,2-Dichloropropane	10	UJ	10	UJ	10	UJ	10	UJ
Bromodichloromethane	10	UJ	10	UJ	10	UJ	10	UJ
cis-1,3-Dichloropropene	10	UJ	10	UJ	10	UJ	10	UJ
4-Methyl-2-pentanone	10	UJ	10	UJ	10	UJ	10	UJ
Toluene	10	UJ	10	UJ	10	UJ	10	UJ
trans-1,3-Dichloropropene	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2-Trichloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Tetrachloroethene	10	UJ	10	UJ	10	UJ	10	UJ
2-Hexanone	10	UJ	10	UJ	10	UJ	10	UJ
Dibromochloromethane	10	UJ	10	UJ	10	UJ	10	UJ
1,2-Dibromoethane	10	UJ	10	UJ	10	UJ	10	UJ
Chlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ
Ethylbenzene	10	UJ	10	UJ	10	UJ	10	UJ
Xylenes (total)	10	UJ	10	UJ	10	UJ	10	UJ
Styrene	10	UJ	10	UJ	10	UJ	10	UJ
Bromoform	10	UJ	10	UJ	10	UJ	10	UJ
Isopropylbenzene	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2,2-Tetrachloroethane	10	UJ	10	UJ	10	UJ	10	UJ
1,3-Dichlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ
1,4-Dichlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ
1,2-Dichlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ
1,2-Dibromo-3-chloropropane	10	UJ	10	UJ	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ

Table 2. Groundwater Analytical Summary Table

Parcel #26

Page 2 of 4: Semivolatile Organic Compounds

Sample Number :	EDEP5		EDER2		EDER3		EDER4	
Sampling Location :	26-16		26-13		26-W2		26-W1	
Matrix :	Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/11/1999		11/11/1999		11/11/1999		11/11/1999	
Time Sampled :	13:30		10:30		11:00		11:30	
%Moisture :	N/A		N/A		N/A		N/A	
pH :	6.8		6.5		6.6		6.4	
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	UJ	10	UJ	10	UJ	10	UJ
Phenol	10	UJ	10	UJ	10	UJ	10	UJ
bis-(2-Chloroethyl) ether	10	UJ	10	UJ	10	UJ	10	UJ
2-Chlorophenol	10	UJ	10	UJ	10	UJ	10	UJ
2-Methylphenol	10	UJ	10	UJ	10	UJ	10	UJ
2,2'-oxybis(1-Chloropropane)	10	UJ	10	UJ	10	UJ	10	UJ
Acetophenone	10	UJ	10	UJ	10	UJ	10	UJ
4-Methylphenol	10	UJ	10	UJ	10	UJ	10	UJ
N-Nitroso-di-n-propylamine	10	UJ	10	UJ	10	UJ	10	UJ
Hexachloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Nitrobenzene	10	UJ	10	UJ	10	UJ	10	UJ
Isophorone	10	UJ	10	UJ	10	UJ	10	UJ
2-Nitrophenol	10	UJ	10	UJ	10	UJ	10	UJ
2,4-Dimethylphenol	10	UJ	10	UJ	10	UJ	10	UJ
bis(2-Chloroethoxy)methane	10	UJ	10	UJ	10	UJ	10	UJ
2,4-Dichlorophenol	10	UJ	10	UJ	10	UJ	10	UJ
Naphthalene	0.5	J	10	UJ	10	UJ	10	UJ
4-Chloroaniline	10	UJ	10	UJ	10	UJ	10	UJ
Hexachlorobutadiene	10	UJ	10	UJ	10	UJ	10	UJ
Caprolactam	10	UJ	10	UJ	0.7	J	10	UJ
4-Chloro-3-methylphenol	10	UJ	10	UJ	10	UJ	10	UJ
2-Methylnaphthalene	10	UJ	10	UJ	10	UJ	10	UJ
Hexachlorocyclopentadiene	10	UJ	10	UJ	10	UJ	10	UJ
2,4,6-Trichlorophenol	10	UJ	10	UJ	10	UJ	10	UJ
2,4,5-Trichlorophenol	25	UJ	25	UJ	25	UJ	25	UJ
1,1'-Biphenyl	10	UJ	10	UJ	10	UJ	10	UJ
2-Chloronaphthalene	10	UJ	10	UJ	10	UJ	10	UJ
2-Nitroaniline	25	UJ	25	UJ	25	UJ	25	UJ
Dimethylphthalate	10	UJ	10	UJ	10	UJ	10	UJ
2,6-Dinitrotoluene	10	UJ	10	UJ	10	UJ	10	UJ
Acenaphthylene	10	UJ	10	UJ	10	UJ	10	UJ
3-Nitroaniline	25	UJ	25	UJ	25	UJ	25	UJ
Acenaphthene	10	UJ	10	UJ	10	UJ	10	UJ
2,4-Dinitrophenol	25	UJ	25	UJ	25	UJ	25	UJ
4-Nitrophenol	25	UJ	25	UJ	25	UJ	25	UJ
Dibenzofuran	10	UJ	10	UJ	10	UJ	10	UJ
2,4-Dinitrotoluene	10	UJ	10	UJ	10	UJ	10	UJ
Diethylphthalate	10	UJ	10	UJ	10	UJ	10	UJ
Fluorene	10	UJ	10	UJ	10	UJ	10	UJ
4-Chlorophenyl-phenyl ether	10	UJ	10	UJ	10	UJ	10	UJ
4-Nitroaniline	25	UJ	25	UJ	25	UJ	25	UJ
4,6-Dinitro-2-methylphenol	25	UJ	25	UJ	25	UJ	25	UJ
N-Nitrosodiphenylamine	10	UJ	10	UJ	10	UJ	10	UJ
4-Bromophenyl-phenylether	10	UJ	10	UJ	10	UJ	10	UJ
Hexachlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ
Atrazine	10	UJ	10	UJ	10	UJ	10	UJ
Pentachlorophenol	25	UJ	25	UJ	25	UJ	25	UJ
Phenanthrene	10	UJ	10	UJ	10	UJ	10	UJ
Anthracene	10	UJ	10	UJ	10	UJ	10	UJ
Carbazole	10	UJ	10	UJ	10	UJ	10	UJ
Di-n-butylphthalate	10	UJ	10	UJ	0.6	J	0.7	J
Fluoranthene	10	UJ	10	UJ	10	UJ	10	UJ
Pyrene	10	UJ	10	UJ	10	UJ	10	UJ
Butylbenzylphthalate	10	UJ	10	UJ	10	UJ	10	UJ
3,3'-Dichlorobenzidine	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(a)anthracene	10	UJ	10	UJ	10	UJ	10	UJ
Chrysene	10	UJ	10	UJ	10	UJ	10	UJ
bis(2-Ethylhexyl)phthalate	10	UJ	10	UJ	10	UJ	10	UJ
Di-n-octylphthalate	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(b)fluoranthene	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(k)fluoranthene	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(a)pyrene	10	UJ	10	UJ	10	UJ	10	UJ
Indeno(1,2,3-cd)pyrene	10	UJ	10	UJ	10	UJ	10	UJ
Dibenzo(a,h)anthracene	10	UJ	10	UJ	10	UJ	10	UJ
Benzo(g,h,i)perylene	10	UJ	10	UJ	10	UJ	10	UJ

Table 2. Groundwater Analytical Summary Table

Parcel #26

Page 3 of 4: Pesticides and PCBs

Sample Number :	EDEP5		EDER2		EDER3		EDER4	
Sampling Location :	26-16		26-13		26-W2		26-W1	
Matrix :	Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/11/1999		11/11/1999		11/11/1999		11/11/1999	
Time Sampled :	13:30		10:30		11:00		11:30	
%Moisture :	N/A		N/A		N/A		N/A	
pH :	6.8		6.4		6.6		6.4	
Dilution Factor :	1.0		1.0		1.0		1.0	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
beta-BHC	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
delta-BHC	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
gamma-BHC (Lindane)	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
Heptachlor	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
Aldrin	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
Heptachlor epoxide	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
Endosulfan I	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
Dieldrin	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
4,4'-DDE	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Endrin	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Endosulfan II	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
4,4'-DDD	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Endosulfan sulfate	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
4,4'-DDT	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Methoxychlor	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ
Endrin ketone	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Endrin aldehyde	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
alpha-Chlordane	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
gamma-Chlordane	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
Toxaphene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Aroclor-1016	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1221	2.0	UJ	2.0	UJ	2.0	UJ	2.0	UJ
Aroclor-1232	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1242	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1248	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1254	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1260	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ

Table 2. Groundwater Analytical Summary Table

Parcel #26

Page 4 of 4: Metals and Cyanide

Sample Number :	MECLR3		MECLR4		MECLR5		MECLM4	
Sampling Location :	26-16		28-9		29-8		26-13	
Matrix :	Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/11/1999		11/11/1999		11/11/1999		09/30/1999	
Time Sampled :	13:30		11:00		11:30		11:50	
%Moisture :								
pH :								
Dilution Factor :	1.0		1.0		1.0		1	
	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	4240	J	103	J	455	J	24300	
Antimony	2.1	R	2.1	R	2.1	R	2.1	UJ
Arsenic	9.3	J	2.2	R	4.6	J	54.9	
Barium	265	J	235	J	175	J	862	
Beryllium	0.20	J	0.10	R	0.10	R	1.8	
Cadmium	0.30	R	0.30	R	0.30	R	1.2	J
Calcium	207000	J	223000	J	248000	J	643000	J
Chromium (total)	9.2	J	55.4	J	3.2	J	54	
Cobalt	5.0	J	0.60	R	1.7	J	21.6	
Copper	14.7	J	13.0	J	6.8	J	157	
Iron	20500	J	272	J	6820	J	61900	
Lead	17.7	J	1.1	R	10.5	J	330	
Magnesium	28100	J	37300	J	49900	J	75800	
Manganese	795	J	44.7	J	1070	J	2660	
Mercury	0.10	R	0.10	R	0.10	R	0.76	J
Nickel	12.0	J	19.5	J	10.0	J	62.4	
Potassium	3860	J	5970	J	9570	J	8950	
Selenium	1.8	R	1.8	R	1.8	R	1.8	U
Silver	0.40	R	0.40	R	0.40	J	1	J
Sodium	50300	J	56800	J	97200	J	54100	
Thallium	2.1	R	2.1	R	2.1	R	2.1	U
Vanadium	14.4	J	0.50	R	1.2	J	72.8	
Zinc	81.9	J	12.9	R	12.9	R	468	J
Cyanide	1.0	R	1.0	R	199	J	41.4	J

Figures

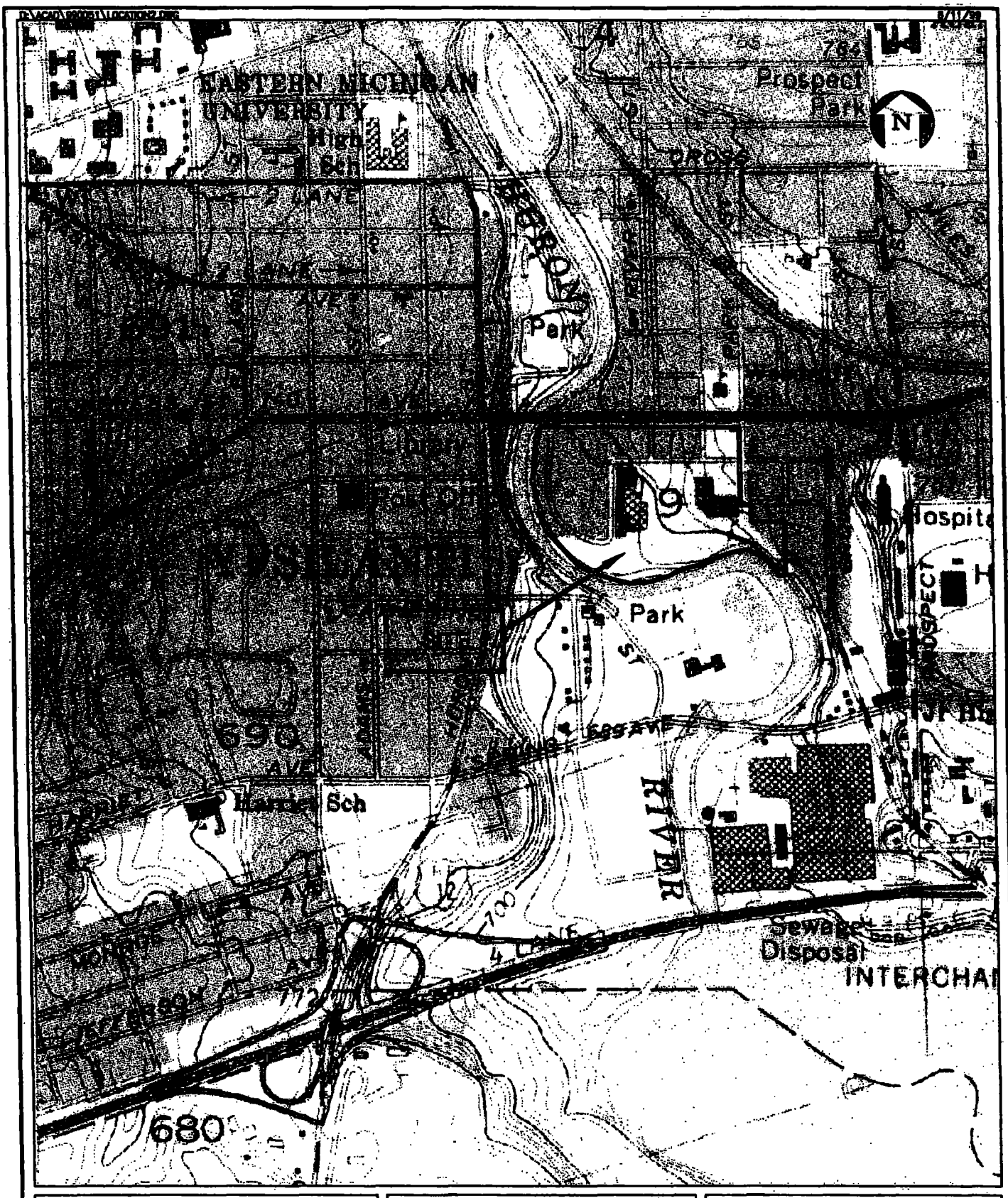


FIGURE 1
SITE LOCATION MAP

Source: ECT, 1998.

YPSILANTI BROWNFIELD PILOT PROJECT REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6000 Fax: (313) 963-1707

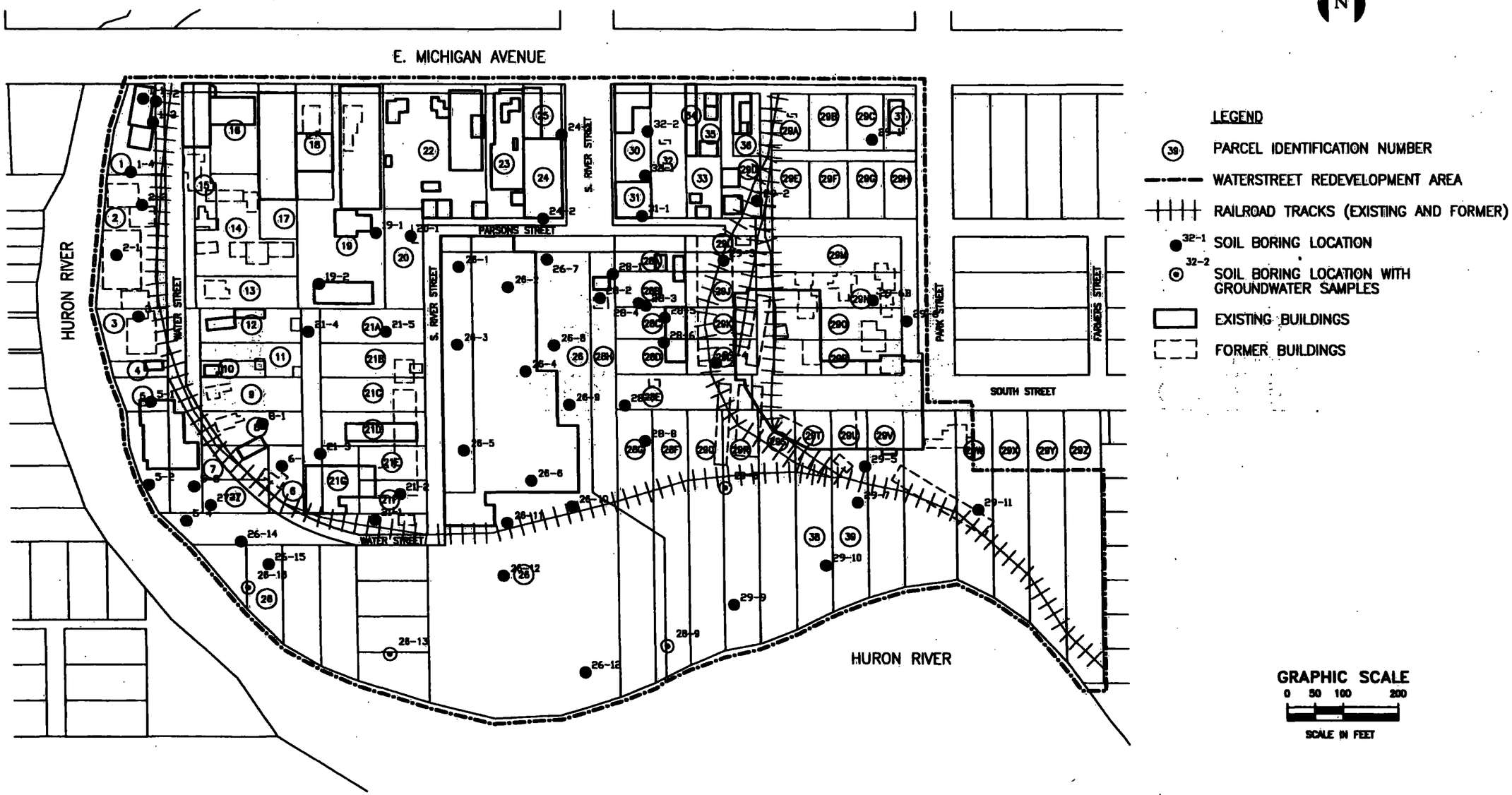


FIGURE 2.
WATER STREET REDEVELOPMENT AREA SITE MAP

Source: ECT, 2000.

YPSILANTI BROWNFIELD PILOT PROJECT
WATER STREET REDEVELOPMENT AREA

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Boulevard
Suite 3500
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

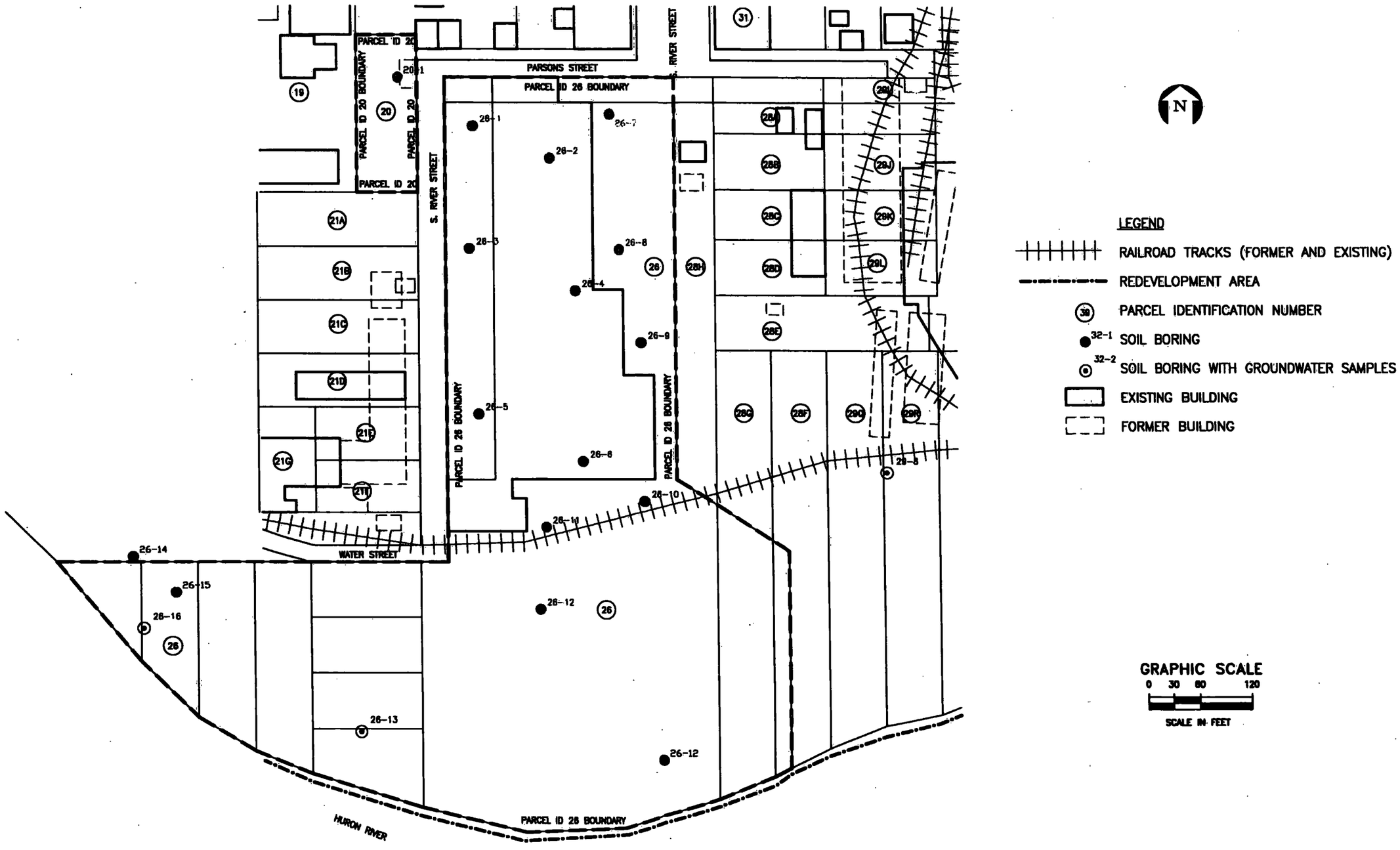


FIGURE 3.
PARCEL ID #20 AND #26

Source: ECT, 2000.

WATER STREET REDEVELOPMENT AREA
101 AND 103 RIVER STREET
YPSILANTI, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
The Book Tower
1249 Washington Boulevard, Suite 3600
Detroit, Michigan 48226
Phone: (313) 963-6600 Fax: (313) 963-1707

APPENDIX A

AERIAL PHOTOGRAPHS

1978 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3600
Detroit, Michigan 48226

1969 AERIAL PHOTOGRAPH

Source: ECT, 1969

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3000
Detroit, Michigan 48226

1963 AERIAL PHOTOGRAPH

Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3500
Detroit, Michigan 48226

1940 AERIAL PHOTOGRAPH

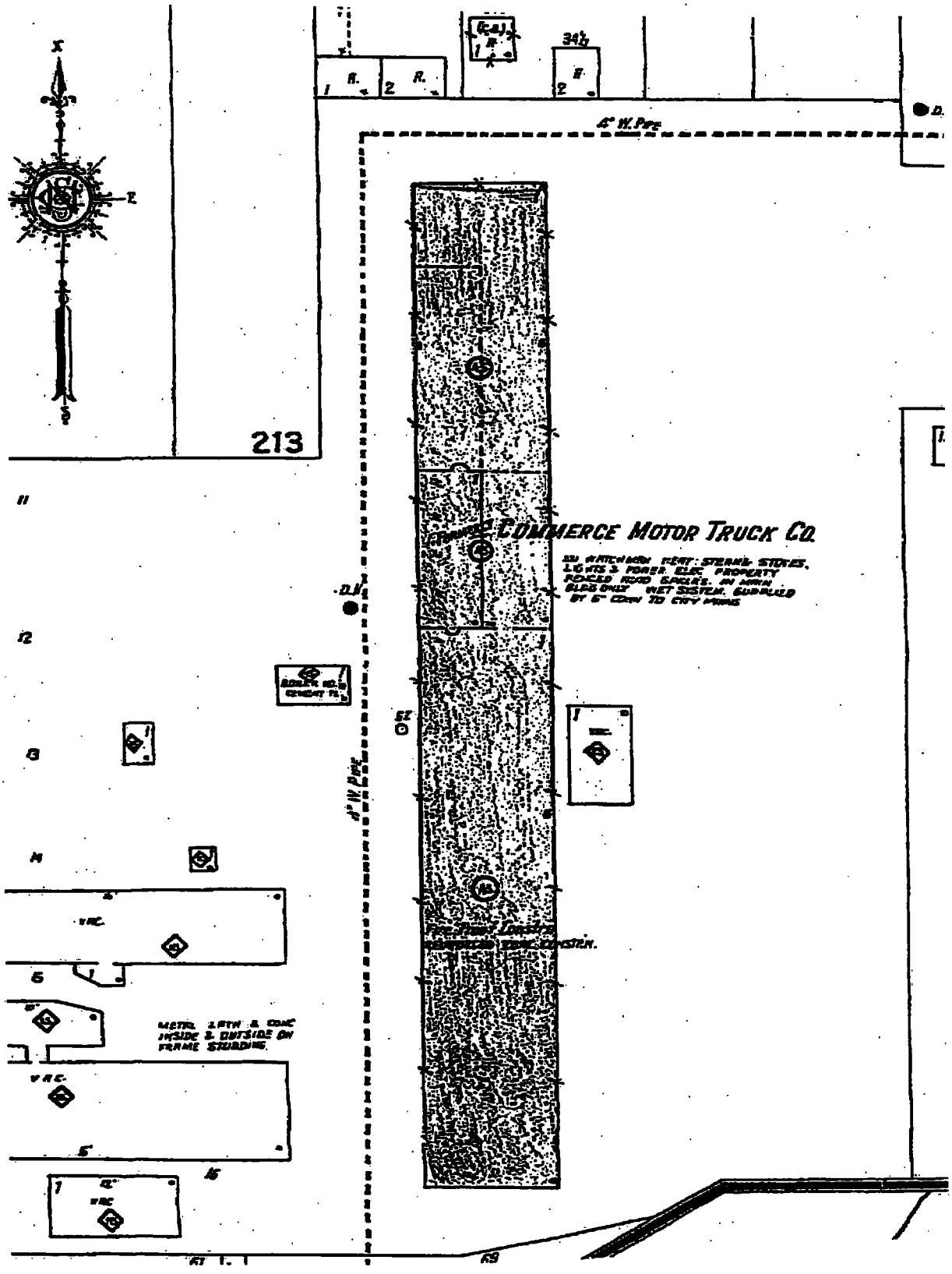
Source: ECT, 1999

WATER STREET AREA
YPSILANTI
WASHTENAW COUNTY

ECT
Environmental Consulting & Technology, Inc.
1249 Washington Blvd.
Suite 3900
Detroit, Michigan 48226

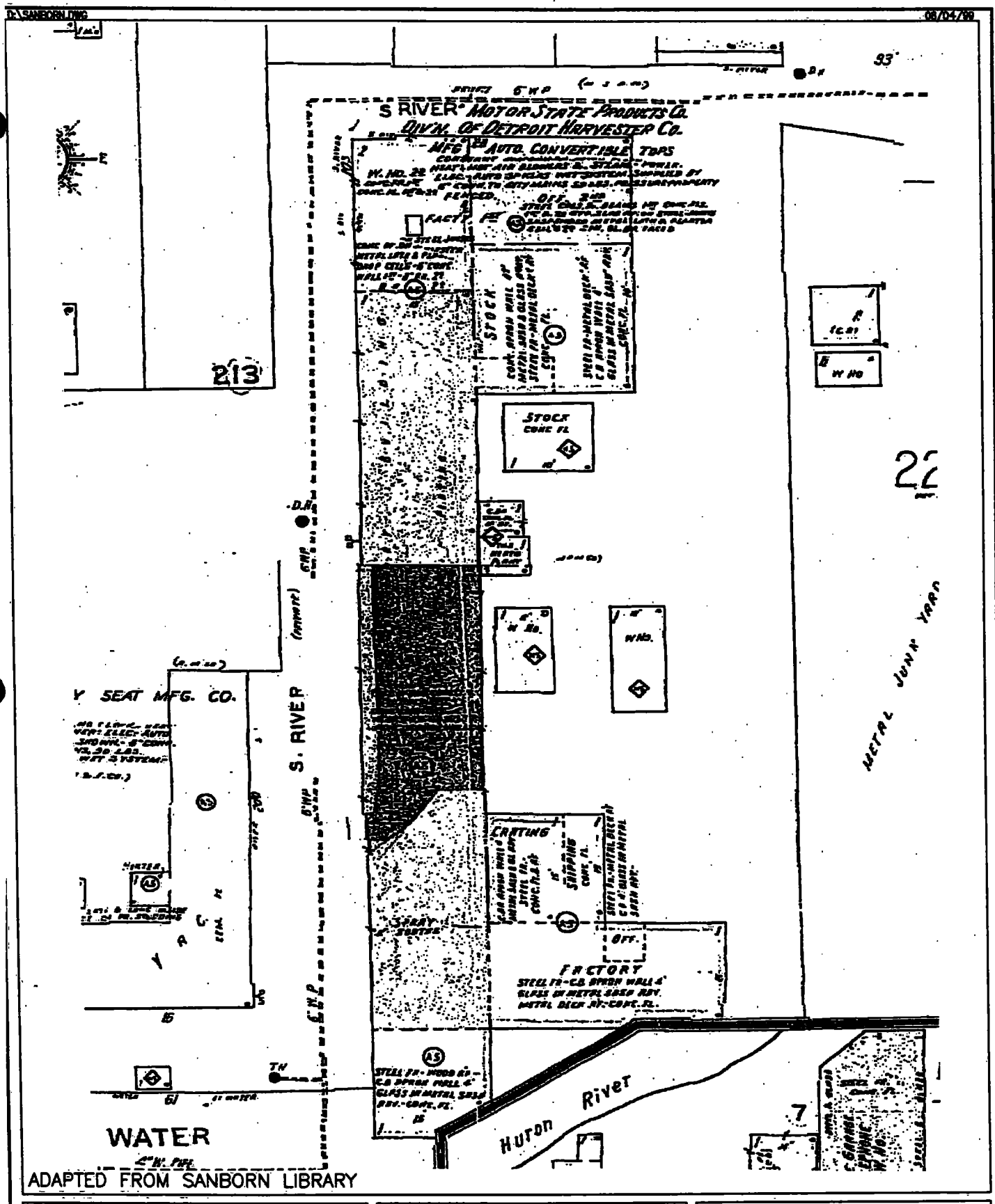
APPENDIX B

SANBORN FIRE INSURANCE MAPS



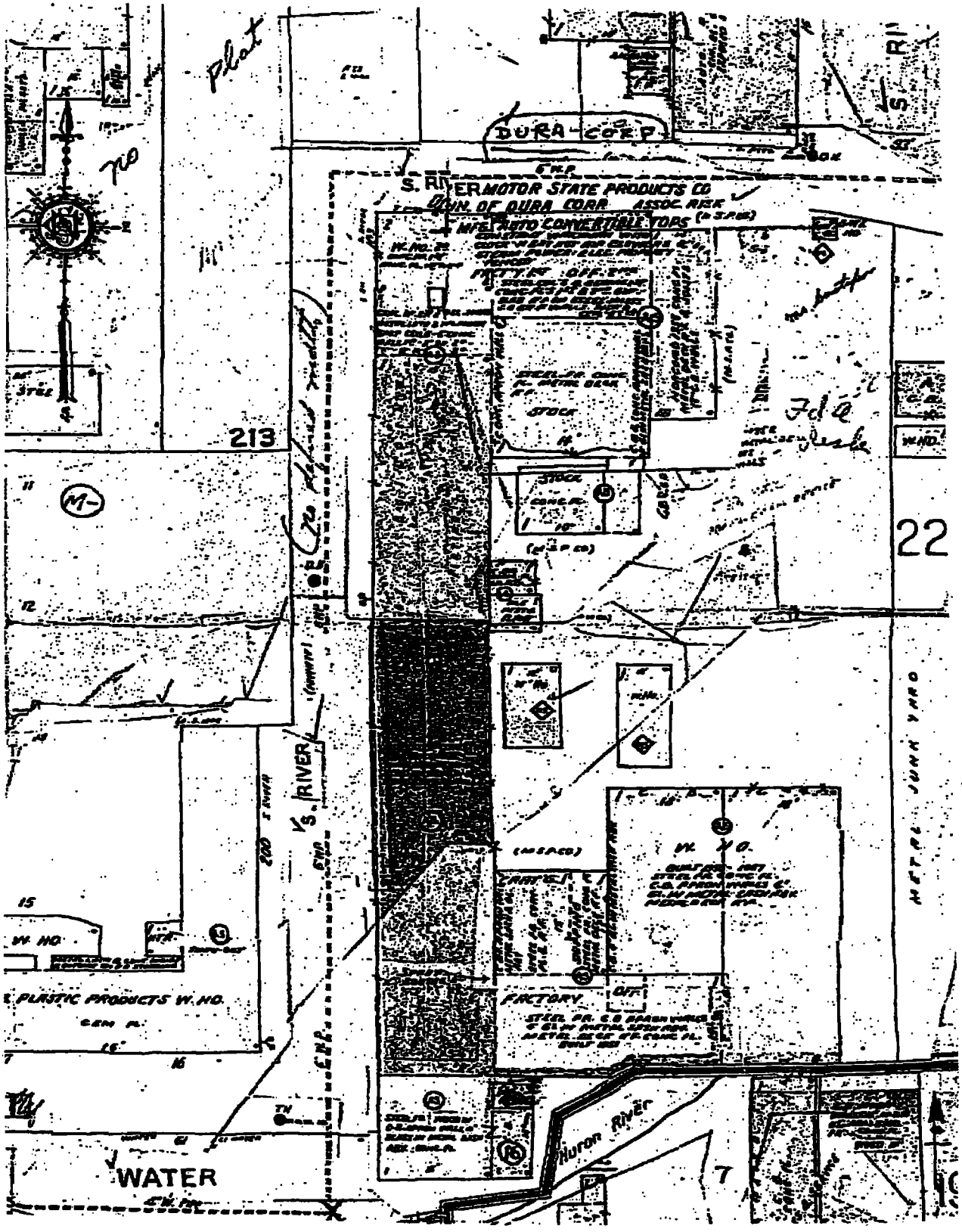
ADAPTED FROM SANBORN LIBRARY

SANBORN FIRE INSURANCE MAP, 1927 Source: ECT, 1999	101-103 S. RIVER STREET YPSILANTI WASHTENAW COUNTY	ECT Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226



ADAPTED FROM SANBORN LIBRARY

SANBORN FIRE INSURANCE MAP, 1950 Source: ECT, 1999	**101-103 S. RIVER STREET** **YPSILANTI** **WASHTENAW COUNTY**	**ECT** Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3600 Detroit, Michigan 48226



ADAPTED FROM SANBORN LIBRARY

SANBORN FIRE INSURANCE MAP, 1964 Source: ECT, 1999	**101-103 S. RIVER STREET** **YPSILANTI** **WASHTENAW COUNTY**	**ECT** Environmental Consulting & Technology, Inc. 1249 Washington Blvd. Suite 3500 Detroit, Michigan 48226

APPENDIX C

SOIL BORING LOGS

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

12-19 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-0600

LOCATION MAP

Ypsilanti, Michigan

BORING NUMBER	20-1	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Mostly Sunny, 65-75°F
LOCATED BY	J. Kennedy	DRILLED BY	Image Subsurfacing, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA

CASING ELEVATION N/A

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1			3" of LOAM at surface, damp Light to dark brown SAND, damp, trace fine gravel	
				2	35"			
				3				
				4				
				5			Light to dark brown SAND with clay, trace fine gravel, dry	
				6	35"			
				7			1st attempt refusal at 8', moved boring east 5'	
				8			2nd attempt refusal at 6' moved boring west 15'	
				9			SAND with clay, trace fine to medium gravel, damp	
				10	20"		CLAY with sand, trace fine to medium gravel, damp	
	B			11				
				12			End of Boring 11'	
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

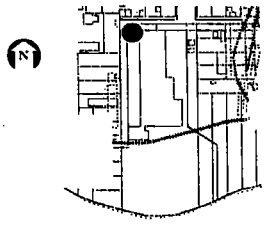
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-1	LOCATION	Ypsilanti, Michigan
DATE	9/24/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1			0-12-inches - no recovery - 12-48-inches - brown fine SAND and silt - some gravel - trace brick - dry
				2			
				3			
				4			
				5			0-10-inches - SAND fine to coarse with gravel to 3/4-inch diameter - brown - dry - 10-36-inches - gray silty CLAY - dry - exhibits parting and easily crumbles - dry - 36-38-inches - gray CLAY - 38-44-inches -brown fine sand - dry - 44-48-inches - gray CLAY with trace coarse sand - dry
				6			
				7			
				8			
				9			0-24-inches - no recovery - 24-48-inches - gray CLAY - very compact - hard to break - dry
				10			
				11			
				12			
				13			End of Boring
				14			
				15			
				16			
				17			
				18			
				19			
				20			

LEGEND

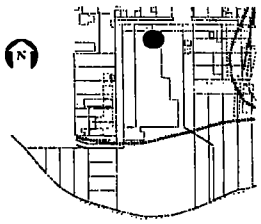
SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

1249 Washington Blvd., Suite 3500, Detroit, MI 48226 (313) 963-6600

LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-2	LOCATION	Ypsilanti, Michigan
DATE	9/24/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-18-inches - no recovery - 18-20-inches - concrete fragments - 20-25-inches - brown fine to coarse SAND - 25-28-inches - Fill material, limestone, brick, and sand 28-48 inches - Brown to gray - fine to coarse - SAND - trace gravel to 1-inch diameter - damp at 48-inches.
				5, 6, 7, 8			0-9-inches -Brown SAND fine to coarse with gravel to 3/4-inch diameter - 9-11-inches - brown CLAY - exhibits parting and easily crumbles - dry - 11-23-inches gray CLAY - 23-25-inches -brown fine sand - dry - 25-48-inches - gray CLAY with trace coarse sand - dry
				9, 10, 11, 12			0-30-inches - no recovery - 30-48-inches - gray CLAY - very compact - hard to break - dry
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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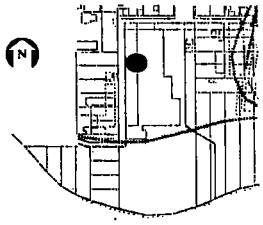
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-3	LOCATION	Ypsilanti, Michigan
DATE	9/24/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-24-inches - no recovery - 24-48-inches - brown fine to coarse SAND - trace gravel to 3/4-inch diameter - moist at 48-inches.
				5, 6, 7, 8			0-17-inches - no recovery- 17-21-inches Brown SAND fine to coarse some gravel - 21-48-inches - dry gray CLAY - exhibits parting and easily crumbles -
				9, 10, 11, 12			0-12-inches - no recovery - 12-48-inches - gray CLAY - very compact - hard to break - dry
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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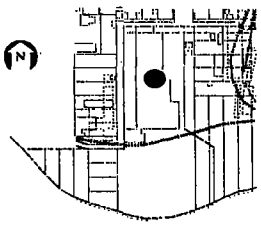
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-4	LOCATION	Ypsilanti, Michigan
DATE	9/24/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-8-inches - no recovery - 8-27-inches - brown clayey SAND - fine to coarse grains - trace gravel to 3/4-inch diameter - moist - 27-42-inches - Brown clayey SAND - fine to medium grains - moist to wet - 42-48-inches- grayish brown sandy CLAY - moist
				5, 6, 7, 8			0-10-inches - no recovery- 10-20-inches - Brown SAND fine to coarse - some gravel - 20-29-inches - grayish brown sandy silty CLAY - moist - 39-48-inches - light gray SAND - fine to medium grains - some clay - moist
				9, 10, 11, 12			0-20-inches - grayish brown SAND - fine to coarse grains moist to wet - 20-45-inches - Gray CLAY - dry occasional coarse sand and fine gravel 45-48-inches - gray CLAY - exhibits parting - some coarse sand - dry
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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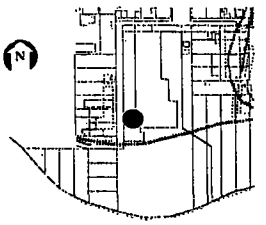
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-5	LOCATION	Ypsilanti, Michigan
DATE	9/24/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1			0-24-inches - no recovery -24-48-inches - fill material sand, gravel, trace clay, brick, and wood debris at 46-inches
				2			
				3			
				4			
				5			Refusal - moved 3 feet east - refusal - moved 3 feet east - rrefusal.
				6			
				7			End of Boring
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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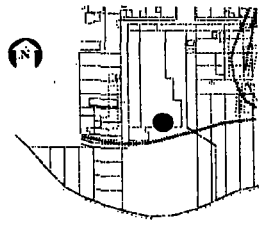
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-6	LOCATION	Ypsilanti, Michigan
DATE	9/24/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-6-inches - no recovery -6-18-inches - brown SAND fine to medium grains - dry - 18-21-inches - limestone base -21-36-inches - brown SAND - fine to coarse grains - trace gravel to 3/4-inch diameter - 36-48-inches - dark brown to dark gray clayey SAND - some gravel to 3/4-inch diameter.
				5, 6, 7, 8			0-11-inches- no recovery - 11-19-inches - sluff from above - 19-25-inches - brown SAND - fine to medium grains - dry - 25-40-inches - dark gray silty CLAY - dry to damp - 40-48-inches - silty CLAY with fine sand - moist to wet
				9, 10, 11, 12			0-17-inches - no recovery - 17-22-inches - silty CLAY - 22-48-inches - grayish brown CLAY - dry to damp.
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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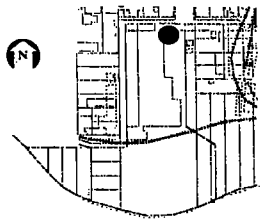
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER: GP-26-7	LOCATION: Ypsilanti, Michigan
DATE: 9/23/99	WEATHER: Cool, Sunny
LOCATED BY: J. Edwards	DRILLED BY: Rau Drilling, Inc
DRILLING METHOD: Direct push/Auger	SAMPLING METHOD: 1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK: Not applicable	SEAL: Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-2-inches - Limestone fill - 2-iches brown coars SAND with silt and clay - 34-inches of gray SAND - coarse to fine grains - poorly sorted - some 3/8-3/4 inch diameter gravel - moist to wet
				5, 6, 7, 8			7-inches SAND - fine to coarse with gravel to 3/4-inch diameter - 31-inches brown and gray clay - dry to damp - some occassional coarse sand and small pebbles.
				9, 10, 11, 12			Gray CLAY - dry to damp - no odors or obvious staining.
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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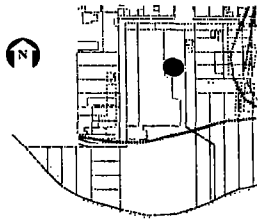
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-8	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-10-inches upper - 1-inch asphalt - clay, gravel, sand, trace brick - fill material - 10-37-inches - Tan ot Brown SAND - fine to coarse grains - gravel to 3/4-inch diameter - damp to dry
				5, 6, 7, 8			0-11-inches- Grown to Gray Sand - fine to medium grains - 11-44- inches Gray silty CLAY - mottled - occassional gravel dry to damp.
				9, 10, 11, 12			Grayish brown CLAY - dry to damp - no odors or obvious staining.
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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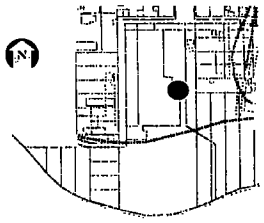
LOCATION MAP



Ypsilanti, Michigan

WELL NUMBER: GP-26-9	LOCATION: Ypsilanti, Michigan
DATE: 9/23/99	WEATHER: Cool, Sunny
LOCATED BY: J. Edwards	DRILLED BY: Rau Drilling, Inc
DRILLING METHOD: Direct push/Auger	SAMPLING METHOD: 1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK: Not applicable	SEAL: Bentonite
CASING ELEVATION	

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-11- dark brown to black SAND, gravel and limeston fill - 11-27 - inches - Brown CLAY, silt and fine sand some 3/4 inch gravel - 27-42-inches - Tan to gray SAND. Fine to medium grains. Trace gravel- 42-44-inches-- brown silt trace gravel. Damp.
				5, 6, 7, 8			4-12-inches Brown fine silty SAND - 12-44-inches - damp to wet silty CLAY - trace gravel to 1/2-inch diameter.
				9, 10, 11, 12			Gray CLAY - dry to damp - no odors or obvious staining.
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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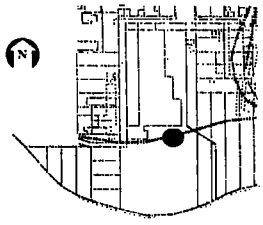
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER	GP-26-10	LOCATION	Ypsilanti, Michigan
DATE	9/23/99	WEATHER	Cool, Sunny
LOCATED BY	J. Edwards	DRILLED BY	Rau Drilling, Inc
DRILLING METHOD	Direct push/Auger	SAMPLING METHOD	1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK	Not applicable	SEAL	Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1			0-4-inches - grass and roots - dry silty sand trace gravel - 4-16-inches. Brown silty sand - Fine to corase grains.- dry - 16-44-inches - Brown CLAY - mottled light gray with redish brown streaks - dry
				2			
				3			
				4			
				5			0-12-inches - sluff from above - 12-36-inches Brown Clay with silt and fine sand 36-40-inches - black silty CLAY - dry - 40-44-inches - Brown clay and silt - trace mottling - trace organic debris -
				6			
				7			
				8			
				9			Grayish brown CLAY - dry to damp - no odors or obvious staining.
				10			
				11			
				12			
				13			End of Boring
				14			
				15			
				16			
				17			
				18			
				19			
				20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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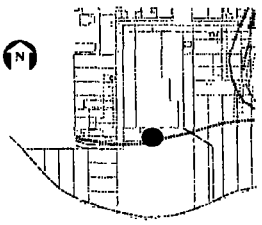
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER: GP-26-11	LOCATION: Ypsilanti, Michigan
DATE: 9/23/99	WEATHER: Cool, Sunny
LOCATED BY: J. Edwards	DRILLED BY: Rau Drilling, Inc
DRILLING METHOD: Direct push/Auger	SAMPLING METHOD: 1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK: Not applicable	SEAL: Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-12-inches - dry silty SAND with gravel to 3/4-inch diameter - 12-48-inches - brown silty fine sand - dry - occasional fine gravel -
				5, 6, 7, 8			24-44-inches - Brown to dark gray silty fine sand - 44-48-inches - Clayey sand - mottled - some coarse sand to fine gravel - wet -
				9, 10, 11, 12			Refusal at 11-feet - 24-48-inches - wet sand and gravel set temporary well for groundwater sample.
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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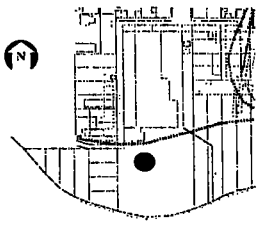
LOCATION MAP



CASING ELEVATION

Ypsilanti, Michigan

WELL NUMBER: GP-26-12	LOCATION: Ypsilanti, Michigan
DATE: 9/23/99	WEATHER: Cool, Sunny
LOCATED BY: J. Edwards	DRILLED BY: Rau Drilling, Inc
DRILLING METHOD: Direct push/Auger	SAMPLING METHOD: 1.5" x 4.0' Sampling Spoon with liner
GRAVEL PACK: Not applicable	SEAL: Bentonite

CASING TYPE	NA	DIAMETER	NA	LENGTH	NA	HOLE DIA	2-inches
SCREEN TYPE	NA	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	12-feet

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS
				0			
				1, 2, 3, 4			0-12-inches - no recovery - 12-30-inches - brown fine SAND and silt - some gravel - trace brick - dry - 30-34-inches - Black SAND, silt and brick.
				5, 6, 7, 8			0-12-inches - No Recovery - 12-24-inches - Gray brown silty fine SAND - dry - 24-36-inches - brown silty fine sand - 36-40-inches - Clayey silt with fine to coarse sand - some mottling - 40-48-inches - gravel and sand fine to coarse grains - saturated.
				9, 10, 11, 12			0-12-inches - no recovery - 12-38-inches - gravel and sand - saturated - 38-44-inches - gray clay with coarse sand - Dry
				13, 14, 15, 16			End of Boring
				17, 18, 19, 20			

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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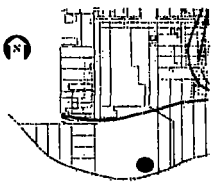
LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	26-12	LOCATION	Ypsilanti, Michigan
DATE	9/24/03	WEATHER	Sunny, 70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		Light to dark brown SAND with trace clay and fine gravel, damp	
				2				
				3				
				4				
				5	24"		Dark brown SAND with trace clay, some fine gravel, moist	
				6				
				7				
				8			Light to dark brown SAND, moist	
				9	36"		Dark brown SAND with trace fine gravel, moist Dark brown SAND with trace fine gravel, wet	
				10			Dark brown CLAY with trace sand and fine gravel, wet	
	B			11				
				12			Dark brown CLAY with trace sand and fine gravel, moist	
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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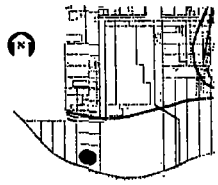
LOCATION MAP



Ypsilanti, Michigan | PAGE 1 of 1

BORING NUMBER	26-13	LOCATION	Ypsilanti, Michigan
DATE	9/24/03	WEATHER	Sunny, 70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	40"		Dark brown SAND with fine to medium gravel, dry Ash-like material with sand and medium gravel, dry Light brown SAND with some clay, trace medium gravel, moist	
				2				
				3				
				4				
				5	45"		Light to dark brown SAND, trace clay and medium gravel, damp to moist	
				6				
				7				
				8				
				9	12"		Dark brown Sand with clay, trace medium gravel, damp to moist	
				10				
				11				
				12				
	B			13	20"		Fine to course SAND with trace gravel, wet	
				14				
				15			End of Boring 14'	
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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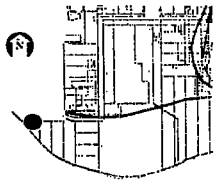
LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	26-14	LOCATION	Ypsilanti, Michigan
DATE	10/2/03	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	30"		3" LOAM, damp Dark brown SAND with some clay, trace medium to course gravel, trace asphalt material, damp	
				2				
				3				
				4				
				5	12"		SAND with clay, trace medium gravel, moist to wet	
				6				
				7				
				8				
				9	35"		Gray CLAY with medium gravel wet	
				10				
	B			11			SILTY CLAY, damp	
				12				
				13			End of Boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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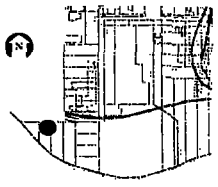
LOCATION MAP



Ypsilanti, Michigan

BORING NUMBER	26-15	LOCATION	Ypsilanti, Michigan
DATE	10/2/03	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	45"		6" LOAM, moist CLAY with sand, trace glass material, moist Stiff CLAY, trace sand, damp Light brown SAND, trace gravel, damp 2 refusals at depths raning from 2' to 3'	
				2				
				3				
				4				
				5	30"		Light to dark brown SAND, some clay, trace medium gravel, moist to wet	
				6				
				7				
				8				
	B			9	5"		Gray SAND with gravel, trace silt, wet	
				10				
				11				
				12				
				13			End of boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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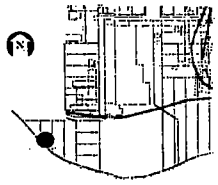
LOCATION MAP



Ypsilanti, Michigan			PAGE 1 of 1
BORING NUMBER	26-16	LOCATION	Ypsilanti, Michigan
DATE	10/2/03	WEATHER	Sunny, 60-70°F
LOCATED BY	J. Kennedy	DRILLED BY	Imaging Subsurface, Inc.
DRILLING METHOD	Geoprobe	SAMPLING METHOD	2" dia. by 4' Plastic Sleeve
GRAVEL PACK	NA	SEAL	NA
CASING ELEVATION	N/A		

CASING TYPE	PVC	DIAMETER	NA	LENGTH	NA	HOLE DIA	NA
SCREEN TYPE	PVC	DIAMETER	NA	LENGTH	NA	TOTAL DEPTH	NA

Water Level	Sample Number	Sample for Analysis	Organic Vapors	Depth	Sample Recovery	Penetration Resistance	Lithology/Remarks	Boring Completion
				0				
	A			1	35"		SAND with medium to fine gravel, dry SAND with clay, trace fine gravel, damp	
				2				
				3				
				4				
				5	24"		Gray SAND with medium to fine gravel, dry Light brown SAND, moist to wet	
				6				
				7				
				8				
				9	12"		Light brown SAND with clay, trace medium to fine gravel, moist to wet	
				10				
	B			11				
				12				
				13			End of boring 12'	
				14				
				15				
				16				
				17				
				18				
				19				
				20				

LEGEND

SAND | CASING | BENTONITE | WATER LEVEL

BACKFILL | SCREEN | CEMENT | bsg = below surface grade

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