

The Jeffrey 191 N Chester St Birmingham, MI

Community Impact Study (Combined C.I.S. and Site Plan Review)

The Jeffrey 191 N Chester Birmingham, MI

Applicant:

Sam Surnow

320 Martin St, Suite 100

MI 48009

(248) 877-4000

e. sam@surnow.com

Architect:

Kevin Biddison

Biddison Architecture 320 Martin St, LL Suite 10 Birmingham, MI 48009

(248) 554-9500

Civil Engineer:

Patrick Williams

Nowak & Fraus Engineers 46777 Woodward Ave, Pontiac, MI 48342 (248) 332-7931

Land Surveyor:

Nowak & Fraus Engineers 46777 Woodward Ave, Pontiac, MI 48342 (248) 332-7931

Traffic:

Stonefield Engineering & Design, LLC

28454 Woodward Ave., Royal Oak, MI 48067

(248) 247-1115

Acoustical:

Darren Brown Kolano & Saha

3559 Sashabaw Road Waterford, MI 48329 (248) 674-4100

djbrown@kandse.com

Soils:

Amy Schneider G2 Consulting Group 1866 Woodslee St Troy, MI 48083 (248) 680-0400

aschneider@g2consultinggroup.com

Soils: (Existing Study)

Performance Environmental Services, Inc 30553 Wixom Road, Suite 500 Wixom, MI 48393 (248) 926-3800

Air Quality:

BDS Environmental 13845 East Nine Mile Warren, MI 48089 (586) 755-9030

Phase 1 Environmental Study:

Performance Environmental Services, Inc 30553 Wixom Road, Suite 500 Wixom, MI 48393 (248) 926-3800

Community Impact Study (Combined C.I.S. and Site Plan Review)

The Jeffrey 191 N Chester Birmingham, MI

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Property Owner

Name: CHESTER STREET PARTNERS, U.C.

Combined CIS & Site Plan Review Application Planning Division

Form will not be processed until it is completely filled out.

1. Applicant

Name: SAM SURNOW

Address: 320 MARTIN ST , SUITE 100	Address: 320 MARTIN ST, SUITE 100
Phone Number: 248 · 877 · 4000	BIRMINGHAM, MI 48009
Phone Number: 248 · 877 · 4000	Phone Number: 248 · 877 · 4000
Fax Number:	Fax Number:
Email Address: sam@surnow.com	Email Address:
2. Applicant's Attorney/Contact Person	Project Designer/Developer
Name: KEVIN BIDDISON, ALA	Name: KEVIN BIDDISON, AIA
Address: 320 MARTIN ST, SUITE 10	Address: 320 MARTIN ST, SUITE 10
Address: 320 MARTIN ST, SUITE 10 BIRMINGHAM, MI 48009	BIRMINGHAM, MI 48009
Phone Number: 248 · 954 · 9900	Phone Number: 248 · 554 · 9500
Fax Number:	Fax Number: Email Address: kb(a) bidd ison -ad · COM
Email Address: kb@ biddison-ad.com	Email Address: kb(a) bidd 150n -ad · COM
3. Required Attachments	
 Warranty Deed with legal description of property Required fee (see Fee Schedule for applicable amount) Two (2) folded copies of scaled plans including a certified land survey, color elevations showing all materials, site plan, landscape plan, photometric plan, and interior floor plan Photographs of existing site and/or building 	 Samples of all materials to be used Catalog sheets for all proposed lighting, mechanical equipment and outdoor furniture A signed letter from DTE approving the location of all electrical transformers and electrical equipment Completed Checklist Digital copy of plans Additional information as required
4. Project Information Address/Location of Property: 191 N CHESTER ST	Name of Historic District site is in, if any:
reduces book of Froporty. The War Die Die	Date of HDC Approval, if any:
Name of Development: THE JEFFREY	Date of approval of DRB, if any:
Sidwell #:	Area in Acres: 0:398
Current Use: CHURCH	Proposed Use: OPFICE - COMMERCIAL
Current Zoning: TZ2	Zoning of Adjacent Properties: TZ3 /R7, R1
Is property located in the floodplain? NO	Will proposed project require the division of platted lots? NO
5. Details of the Proposed Development (Attach se i) REMOVAL OF EXISTING PORCH & EXIST ADDITION OF NEW LOBBY & ENT B) ADDITION OF NEW OPFICE SPACE TO 4) REPAIR & PAINT EXISTING MASONE B) REPLACE EXISTING ROOF 6) INTERIOR DEMOUTION & RENOVATION T) EXISTING LIMESTONE DETAILING &) GRADING & LANDSCAPING TO NECOUIREMENTS.	TO REMAIN

6. Buildings and Structures	_
Number of Buildings on site:	Use of Buildings: OFFICE - LEASE SPACE
Height of Building & # of stories: 2	Height of rooftop mechanical equipment: EXISTING 25-6
7. Floor Use and Area (in square feet)	
Proposed Commercial Structures:	
Total basement floor area: 10011 . 5 SF (GROSS)	Office space: $62.10 + 4518 + 6,742 = 22,470$
Number of square feet per upper floor: 2012: 48	Retail space:
Total floor area: 27,290 · 25 sf (GROSS)	Industrial space:
Floor area ratio (total floor area divided by total land area): 0.68	Assembly space:
Open space: 6, 220 · 68 SF	Seating Capacity:
Percent of open space: 38.8 /.	Maximum Occupancy Load: TSD
Proposed Residential Structures:	
Total number of units: NA	Rental units or condominiums?:
Number of one bedroom units:	Size of one hedroom units:
Number of two bedroom units:	Size of two bedroom units:
	Size of three bedroom units:
Number of three bedroom units: Open space:	Seating Capacity:
Percent of open space:	Maximum Occupancy Load:
referred of open space.	Maximum Occupancy Load.
Proposed Additions:	
Total basement floor area, if any, of addition: -	Use of addition: OFFICE SPACE / LOBBY
Number of floors to be added: NA	Height of addition: MAX. EXET. HT. TO MATCH NEW
Number of square feet added per floor:	Office space in addition:
Total floor are (including addition): 27, 290 25 (GROSS)	Retail space in addition:
Floor area ratio (total floor area divided by total land area): 0.58	Industrial space in addition:
Open space: 6, 220 ·68	Assembly space in addition:
Percent of open space: 35.8	Maximum Occupancy Load (including addition):
8. Required and Proposed Setbacks	
Required front setback: OO'CN \$ B	Proposed front sethack: 14:4'(K): 0:9(E)
Required rear setback: 101 (S#W)	Proposed front setback: 14.4 (N) · 0.9 (E) Proposed rear setback: 6 · 7 · (S) · 20 · 6 · (W)
Required total side setback: NA	Proposed total side setback: NA
Side setback: NA	Second side setback: NA
Side setback: NA	Second side selback.
9. Required and Proposed Parking	
Required number of parking spaces:	Proposed number of parking spaces: (3) OUTDOOR (8) NDOOR
Typical angle of parking spaces: 90	Typical size of parking spaces: 180 SP
Typical width of maneuvering lanes: 201	Number of spaces < 180 sq. ft.:
Location of parking on the site: NW CORNER + LOWER LVL	Number of handicap spaces: 2
Location of off site parking: CITY PARKING STRUCT.	Shared Parking Agreement?:
Number of light standards in parking area: EXIST. STREETLIGH	7Height of light standards in parking area: NA
Screenwall material: CONC. MASONRY RETAINING WAU.	Height of screenwall: EXIST 51-011
10. Landscaping	Proposed landscape material: REFER TO
Location of landscape areas: ALONG WILLITS \$	
CHESTER STREETS	ATTACHED UNDSCAPE PLAN.

11. Streetscape Sidewalk width: 6'-0"	Description of benches or planters: NA
Number of benches: NA	
Number of planters: NA	
Number of existing street trees: 3	Species of existing street trees: PEFER TO LANDSCAPE PL.
Number of proposed street trees: 1 EVERY 40 ALONG &	T.Species of proposed street trees: REFER TO LANDSCAPE A
Streetscape Plan submitted?: NA	
12. Loading Required number of loading spaces: Typical angle of loading spaces: Typical angle of loading spaces: Typical angle of loading spaces:	
Required number of loading spaces: OMIT LOADING	Proposed number of loading spaces:
Typical angle of loading spaces.	Typical bize of loading spaces.
Screenwall material:	Height of screenwall:
Location of loading spaces on the site:	
13. Exterior Trash Receptacles	TRASH RECEPTACLE
Required number of trash receptacles:	Proposed number of trash receptacles: TO BE INSIDE. GARAGE
Location of trash receptacles: LOWER LVL GARAGE	Size of trash receptacles: NA
Screenwall material: NA	Height of screenwall:
14. Mechanical Equipment	
Utilities & Transformers:	
Number of ground mounted transformers: NA	Location of all utilities & easements: SEE ENGINEERING
Size of transformers (LxWxH): NA	& ARCHITECTURAL PLAN.
Number of utility easements: NA	
Screenwall material: NA	Height of screenwall: NA
Ground Mounted Mechanical Equipment:	
Number of ground mounted units: NA	Location of all ground mounted units:
Size of ground mounted units (LxWxH):	
Screenwall material:	Height of screenwall:
Rooftop Mechanical Equipment:	Location of all rooftop units: NA
Number of rooftop units: EXISTING TO REMAIN	
Type of rooftop units: OR BE REPLACED	Size of rooftop units (LxWxH): EXISTING UNITS
	TO REMAIN OR BE REPLACED
Screenwall material: NA	Height of screenwall:
Location of screenwalls:	Percentage of rooftop covered by mechanical units: EXIST . Distance from rooftop units to all screenwalls: EXIST .
15. Accessory Buildings	Size of accessory buildings.
Number of accessory buildings: Location of accessory buildings:	Size of accessory buildings: ————————————————————————————————————
Location of decessory buildings.	

16. Building Lighting Number of light standards on building:	F PHOTOMETRIC Type of light	standards on building: SEE PHOTOMETRIC
Size of light fixtures (LxWxH):	Height from g	grade:
Maximum wattage per fixture: Light level at each property line:	Proposed wat	tage per fixture:
17. Site Lighting		
Number of light fixtures: EXIST 8	TREET LIGHTING Type of light	fixtures:
Size of light fixtures (LxWxH):	REMAIN . Height from g	grade:
Maximum wattage per fixture:	Proposed wat	tage per fixture:
Light level at each property line:	Number & lo	cation of holiday tree lighting receptacles:
approved site plan. The undersigned	further states that they have reviewed complied with same. The underwill be discussed.	ewed the procedures and guidelines for site rsigned will be in attendance at the Planning Date: 4/13/18
Print Name: SAM SURNOW		
Signature of Applicant:	Lon	Date: 4/13/18
Print Name: SAM BURNON	San American	
Signature of Architect:	ALU / MILL-	Date: 4/13/18
Print Name: KEVIN BIDD 66	ν	
	Office Use Only	
Application #:	Date Received:	Fee:

Accepted by:

Date of Denial:

Date of Approval:



COMBINED SITE PLAN REVIEW & COMMUNITY IMPACT STUDY APPLICATION CHECKLIST PLANNING DIVISION

Applicant:	SAM SURNOW	Case #:	Date: 4.13. R
Address:	20 MARTIN ST, BUITE 100 BIRMINGHAM, MI 48009		
All site plan applicable r	ns and elevation drawings prepared for approva- requirements of the City of Birmingham. If mobe legible and of sufficient quality to provide f	al shall be prepared ore than one page is for quality reproduct	in accordance with the following specifications and other used, each page shall be numbered sequentially. All tion or recording. Plans must be no larger than 24" x clearly noted on all plans and supporting documentation.
			equested shall be drawn at a scale no smaller than 1"
<u> </u>	Name and address of applicant and proof	of ownership;	
2.	Name of Development (if applicable);		
<u>X</u> 3.	Address of site and legal description of the	e real estate;	
_X 4.	Name and address of the land surveyor;		
× 5.	Legend and notes, including a graphic sca	ale, north point, an	nd date;
<u>×</u> 6.	A separate location map;		
	A map showing the boundary lines of adj veloped as well as the adjacent land;	acent land and the	e existing zoning of the area proposed to be
8.	Details of all proposed site plan changes;		
	A chart indicating the dates of any previous esign Review Board, or the Historic District		ne Planning Board, Board of Zoning Appeals, HDC");
10	. Existing and proposed layout of streets,	open space and ot	her basic elements of the plan;
<u>×</u> 11	. Existing and proposed utilities and easer	ments and their pu	rpose;
W		tlands, historic fea	ood plains, floodway, water courses, marshes, atures, existing structures, dry wells, utility lines, uence the design of the development;
<u>×</u> 13	. General description, location, and types	of structures on th	ne site;
<u>×</u> 14	. Details of existing or proposed lighting,	signage and other	pertinent development features;
<u>×</u> 15	. Elevation drawings showing proposed d	esign;	
	 Screening to be utilized in concealing areas; 	ny exposed mecha	nical or electrical equipment and all trash receptacle
<u>×</u> 17	7. Location of all exterior lighting fixtures	;	
X18	3. A landscape plan showing all existing a	nd proposed plant	ing and screening materials, including the number,

size, and type of plantings proposed and the method of irrigation; and

19. Any other information requested in writing by the Planning Division, the Planning Board, or the Building Official deemed important to the development.
Elevation Drawings
Complete elevation drawings detailing the proposed changes for which approval is requested shall be drawn at a scale no smaller than $1" = 100$ ' (unless the drawing will not fit on one 24" X 36" sheet) and shall include:
20. Color elevation drawings showing the proposed design for each façade of the building;
21. List of all materials to be used for the building, marked on the elevation drawings;
NA 22. Elevation drawings of all screenwalls to be utilized in concealing any exposed mechanical or electrical equipment, trash receptacle areas and parking areas;
23. Details of existing or proposed lighting, signage and other pertinent development features;
24. A list of any requested design changes;
25. Itemized list of all materials to be used, including exact size specifications, color, style, and the name of the manufacturer;
26. Location of all exterior lighting fixtures, exact size specifications, color, style and the name of the manufacturer of all fixtures, and a photometric analysis of all exterior lighting fixtures showing light levels to all property lines; and
27. Any other information requested in writing by the Planning Division, the Planning Board, or the Building



Notice Signs - Rental Application Community Development

1. Applicant		Property Owner		
Name: SAM SURNO	W1	Name: CHESTER STREET PARTNERS, U.C.		
Address: 320 MARTIN	ST, SUITE 100	Address: 320 MARTIN ST, SUITE 100		
BIRMINGHA	M, MI 48009	BIRMINGHAM, MI 48009		
Phone Number: 248. 87	7.4000	Phone Number: 248 · 877 · 4000		
Fax Number:		Fax Number:		
2. Project Information				
	191 N CHESTER	Name of Historia District site is in 16 ans.		
Name of Davidsonments	THIN GILLIAN	Name of Historic District site is in, if any:		
Name of Development: 1HE	= Jeffrey	Current Use: CHURCH		
Area in Acres: 0.398		Current Zoning: TZ2		
3. Date of Board Review				
Board of Building Trades Appe	eals:	Board of Zoning Appeals: 08.29.17		
City Commission:		Design Review Board:		
Historic District Commission:_		Housing Board of Appeals:		
Planning Board:				
pay a rental fee and seci immediately following the will be refunded when the	urity deposit for the Notic ne date of the hearing at w ne Notice Sign(s) are retur return the Notice Sign(s) a	ry posting period. The undersigned further agrees to e Sign(s), and to remove all such signs on the day which the project was reviewed. The security deposit med undamaged to the Community Development and/or damage to the Notice Sign(s) will result in		
	1 1			
Signature of Applicant:	And Ann	Date: 4:13:18		
Signature of Applicant:	And Jun	Date: 4.13.18		
Signature of Applicant:	In Jun	Date: 4.13.18		
Signature of Applicant:	Some Jun	Date: 4.13.18		
Signature of Applicant:	Am Jun	Date: 4.13.18		
Signature of Applicant:	Am Jun	Date: 4.13.18		
Signature of Applicant:	Am Jun	Date: 4.13.18		
Signature of Applicant:		Date: 4.13.18		
	Offic	e Use Only		
Signature of Applicant: Application #:	Offic			
	Offic	e Use Only		



A SURNOW COMPANY















As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Signature

w. > 2

Name(s): Address: 60 W. 11,45



A SURNOW COMPANY



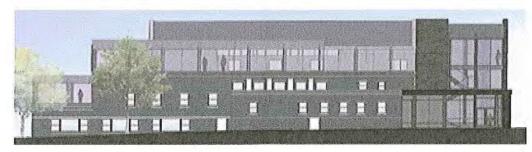












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Signature

Namo(s): Address:

DEREK HODGSON KAREN HARDY HODGSON 468 WILLITE STREET



A SURNOW COMPANY

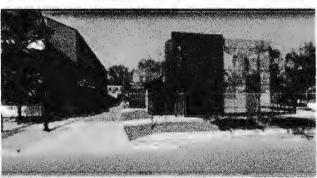


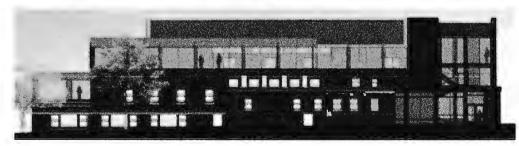












As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Signature Onethe Stern Lawren Stein

Name(s): JONATHAN SITIN

Lawren Stein

412 WILLITS

412 Willits



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As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Name(s): Keith Pomeray
Address: 548 WILLITS IT
Birmingham, MI 48009



A SURNOW COMPANY

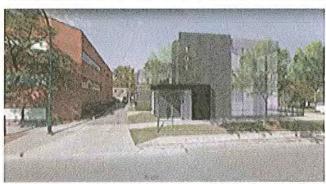


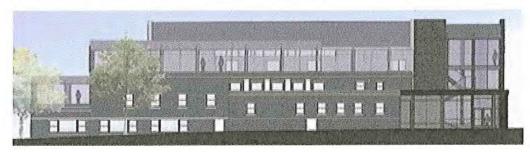












As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Signature

Name(s): OTO SOED (

Address: 504 WILLITS ST. BIRMINGHAM, MI 48009

Esilva Soedeng



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As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Signature rick cohen Name(s): Address: 382 Willits



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As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Signature Copiers m W

Name(s): Address:

532 Willits 3/13/18



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As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Signature

Name(s): STUART M KAUFMAN

Address: 424 WILLITS



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As a neighbor to the office development on 191 N Chester Street, we support the proposed changes to the plan which are shown above, and look forward to The Surnow Company's completion of this iconic project.

Name(s):
Address: Susan Martin
487 Willily of
Branghy 141 48009

Section 2. Proof of Ownership

Property Transfer Affidavit

This form is issued under authority of P.A. 415 of 1994. Filing is mandatory.

This form must be filed whenever real estate or some types of personal property are transferred (even if you are not recording a deed). The Affidavit must be filed by the new owner with the assessor for the city or township where the property is located within 45 days of the transfer. The information on this form is NOT CONFIDENTIAL.

Street Address of Property 191 Chester Street		2. County Oakland		3. Date of Transfer (or land contract signed) April 30, 2015
4. Location of Real Estate (Check appropriate field and enter name in the space below.) City Township Village			\$300,00	
Birmingham				(Transferor) Name nurch of Christ Scientist, Birmingham, MI
7. Property Identification Number (PIN). If you don't have a PIN, attach legal description. PIN, This number ranges from 10 to 25 digits. It usually includes hyphens and sometimes includes.			Buyer's (Transferee) Name and Mailing Address Chester Street Partners, LLC 320 Martin, Suite 100	
letters. It is on the property tax bill and on the assessment notice.			Birmingham, MI 48009	
19-25-356-023			9. Buyer's (Transferee) Telephone Number 248-865-3000	
Items 10 - 15 are optional. However, by comple 10. Type of Transfer. Transfers include deeds, land conti				
Land Contract Lease		Deed	long-term to	Other (specify)
11. Was property purchased from a financial institution?		ween retaled persons?		13. Amount of Down Payment
Yes No	Yes	No		
14. If you financed the purchase, dld you pay market rate	e of interest?	15. Amount F	inanced (Bo	orrowed)
Yes 🔀 No		-0-		
EXEMPTIONS	-			
Certain types of transfers are exempt from uncapping. If you believe this transfer is exempt, indicate below the type of exemption you are claiming. If you claim an exemption, your assessor may request more information to support your claim. Transfer from one spouse to the other spouse Change in ownership solely to exclude or include a spouse Transfer between certain family members *(see page 2) Transfer of that portion of a property subject to a life lease or life estate (until the life lease or life estate expires) Transfer to effect the foreclosure or forfeiture of real property Transfer by redemption from a tax sale Transfer into a trust where the settlor or the settlor's spouse conveys property to the trust and is also the sole beneficiary of the trust Transfer resulting from a court order unless the order specifies a monetary payment Transfer creating or ending a joint tenancy if at least one person is an original owner of the property (or his property to his property to the trust of the property of the property to the property of the property to his property to the property to his prop				
Transfer of real estate through normal public trading of stocks APR 3 0 2015 Transfer between entities under common control or among members of an affiliated group			APR 3 0 2015	
Transfer resulting from transactions that qualify as a tax-free reorganization CITY OF BIRMINGHAM				
Transfer of qualified agricultural property when the property remains qualified agricultural property an可用性效的 用起始的 拼告 ICE				
Transfer of qualified forest property when the property remains qualified forest property and affidavit has been filed.				
Transfer of land with qualified conservation easement (land only - not improvements) Other, specify:				
CERTIFICATION				
I certify that the information above is true and complete to the best of my knowledge.				
Signature				Date
1./				April <u>**</u> , 2015
Name and title, if signer is other than the owner Sam Surnow. President	Daylime Phone Numl 248-865-3000	ber		E-mail Address sam@surnow.com

OAKLAND COUNTY TREASURERS CERTIFICATE This is to certify that there are no delinquent property taxes as of this date cwed to our office on this property. No representation is made as to the status of any taxes, tax flens or titles owed to any other entitles.

03889

MAY 1 9 2015

ANDREW E. MEISNER, County Treasurer Sec. 135, Act 206, 1893 as amended

LIBER 48352 \$10.00 DEED - COMBINED PAGE 520 \$4.00 REMONUMENTATION 07/02/2015 09:09:34 A.M. RECEIPT# 77692 PAID RECORDED - DAKLAND COUNTY LISA BROWN, CLERK/REGISTER OF DEEDS

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS: That FIRST CHURCH OF CHRIST, SCIENTIST, BIRMINGHAM, MICHIGAN, a Michigan Ecclesiastical Association ("Seller"), whose address is 191 North Chester Street, Birmingham, Michigan 48009 conveys and warrants to CHESTER STREET PARTNERS, LLC, a Michigan limited liability company, whose address is 320 Martin Street, Suite 100, Birmingham, Michigan 48009 ("Purchaser"), the following described premises in the City of Birmingham, Oakland County, Michigan:

The North 96.50 feet of Lots 14, 15 and 16 of Willets Addition to the City of Birmingham according to the plat thereof as recorded in Liber 3 of Plats, Page 6, Oakland County Records.

TAX PARCEL ID: 19-25-356-023

COMMON ADDRESS: 191 North Chester Street, Birmingham, Michigan 48009

For the full consideration of: See attached Real Estate Transfer Tax Valuation Affidavit.

subject to easements and building and use restrictions of record, and subject to the lien of taxes not yet due and payable. This property may be located within the vicinity of farmland or a farm operation. Generally accepted agricultural and management practices which may generate noise, dust, odors, and other associated conditions may be used and are protected by the Michigan right to farm act. The grantor grants to the grantee the right to make ALL division(s)under section 108 of the land division act, Act No. 288 of the Public Acts of 1967.

Dated: April 30, 2015

Grantor:

FIRST CHURCH OF CHRIST, SCIENTIST, BIRMINGHAM, MICHIGAN, a Michigan Ecclesiastical Association

State of Michigan

its Chairman

County of Oakland

Acknowledged before me in Oakland County, Michigan, on April 30, 2015, by White Shapland. the Chairman of the First Church of Christ, Scientist, Birmingham, Michigan.

Notary Public

Oakland County, Michigan

My commission expires <u>Hay</u> 2016

Acting in Oakland County

When recorded return to Grantee.

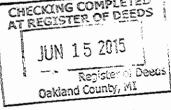
DRAFTED BY:

Jay N. Siefman 320 Martin, Suite 120 Birmingham, Michigan 48009 248-851-2288

jay@siefman.com

Notary Public, State of Michigan County of Oakland My Commission Expires May. 11, 2016 Acting in the County of Action County CHECKING COMPLETED

LADA H. SHATHAYA



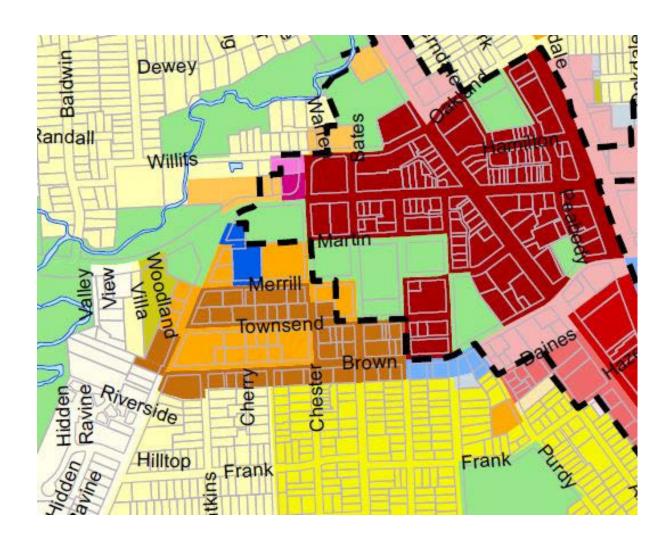
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ok - LG

Section 3. Vicinity Map

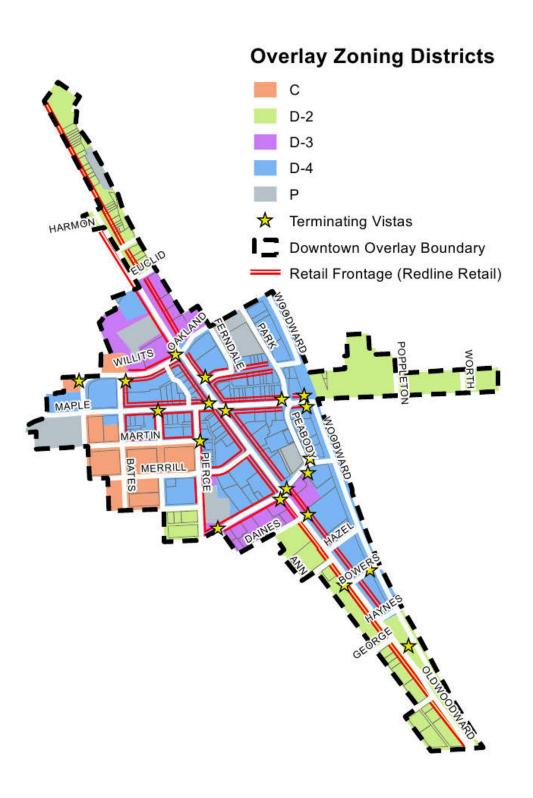


Section 4. Birmingham Zoning Map – Current Zoning TZ2



Zoning Districts





Section 5. C.I.S. Checklist - Supplemental Information

Section 6. Zoning Requirements – (see section 4 and survey)

Section 7. Noise Impact Study

Section 8. Traffic Impact Study

Section 9. Phase 1 Environmental Site Assessment

Section 10. Soils Investigation

Section 11. Air Quality Information

Section 5 CIS Checklist Supplemental Information

The Jeffrey 191 N Chester Birmingham, MI 48009

Combined CIS and Site Plan Review Supplemental Information

General Information

- 1. Name and address of applicant and proof of ownership; **See Section 2**
- Name of Development (if applicable);The Jeffrey
- 3. Address and Legal description
 191 N Chester Birmingham, MI 48009
 See survey for legal description
- 4. Name and address of the land surveyor; Nowak & Fraus Engineers 46777 Woodward Ave, Pontiac, MI 48342 (248) 332-7931
- 5. Legend and notes, including a graphic scale, north point, and date; **See Site Plan**
- 6. A separate location map;

Please refer to Section 3 for Vicinity and sheet C0 for Location map

7. A map showing the boundary lines of adjacent land and the existing zoning of the area proposed to be developed as well as the adjacent land;

Please refer to Section 4 for Zoning Map

- 8. Details of all proposed site plan changes
 - Removal of existing porch and existing entry on the east.
 - Addition of new lobby and entry to the property line (east)
 - Addition of new office space to the west.
 - Addition of garage entry to the north.
 - Grading and landscaping to meet city of Birmingham requirements.

Planning & Zoning Issues

9. Recommended land use of the subject property as designated on the future land use map of the City's Master Plan;

Current Zoning TZ2; See section 4

- 10. Goals and objectives of the city's Master Plans that demonstrate the city's support of the proposed development;
 - Proposed project is to be constructed within the boundaries of the Birmingham Overlay District and implement the Downtown Birmingham Plan
 - Proposed project encourages a form of development that will achieve the physical qualities necessary to enhance the economic vitality of Downtown Birmingham
 - Previously site plan approved two- story front addition is built to the width and property line as required under the TZ2 zoning
 - The proposed additions on the west do not increase the existing building footprint and are in keeping with the proposed front addition
- 11. Whether or not the project site is located within an area of the city for which an The Planning Board in which special design has adopted urban Design Plan Criteria or other supplemental development requirements apply;

 Yes
- 12. The current zoning classification of the subject property; Current zoning of the subject property is TZ2. Property will conform to this zoning.
- 13. The zoning classification required for the proposed development; **TZ2**
- 14. The existing land uses adjacent to the proposed project: **TZ3**, **R7**, **R1**
- 15. Complete the attached "Zoning Requirements Analysis" chart; **Refer to Section 4**

Land Development Issues

16. A survey and site drainage plan;

Refer to the enclosed survey and drainage plans of the site

17. Identify any sensitive soils on site that will require stabilization or alteration in order to support the proposed development:

No sensitive soils

18. Whether or not the proposed development will occur on a steep slope, and if so, the measures that will be taken to overcome potential erosion, slope stability and runoff; **Refer to enclosed paving, grading and soil erosion plan. During construction**

of the building, care will be taken to prevent sediment laden soils from leaving the site by employing soil erosion best management techniques.

19. The volume of excavated soils to be removed from the site and /or delivered to the Site, and a map of the proposed haul routes;

Approximately 970 CY of in-place soils will be removed from the site for the construction of the new addition on the east. Refer to attached haul route map at the end of this section.

20. Identify the potential hazards and nuisances that may be created by the proposed development and the suggested methods of mitigating such hazards; **No potential hazards and nuisances.**

Private Utilities

- 21. Indicate the source of all required private utilities to be provided;
 - Refer to the enclosed utility plan of the site
 - Electricity, Natural and cable/telephone services existing to remain
- 22. Provide verification that all required utility easements have been secured for necessary private utilities:

Refer to the enclosed utility plan of the site.

Noise Levels

23. Provide a reading of existing ambient noise and estimated future noise levels on the site:

Included in the Appendix is a study completed by Kolano and Saha Consulting Engineers for Sound Level Measurements and Noise Impact Assessment,

24. Indicate whether the project will be exposed to or cause noise levels which exceed those levels prescribed in Chapter 50, Division 4, Section 50-71 through 50-77 of the Birmingham City Code, as amended:

The Noise Impact Assessment Study prepared for the property concludes that the proposed development will be able to comply with the Birmingham Noise Ordinance limits.

25. Indicate whether the site is appropriate for the proposed activities and facilities given the existing ambient noise and the estimated future noise levels of the site:

Based on the information provided the Noise Impact Assessment study through deliberate effort to minimize noisy equipment, the proposed development will be able to comply with the Birmingham Noise Ordinance limits

Air Quality

26. Indicate whether the project is located in the vicinity of a monitoring station where air quality violations have been registered and, if so, provide information as to whether the project will increase air quality problems in the area:

The property is located in the Southeast Michigan Air Quality District. The monitoring station is located in Oak Park. Current Ambient Air Quality Standards are under existing minimum standards as set forth by the EPA.

27. Indicate if the nature of the project or its potential users would be particularly sensitive to existing air pollution levels and, if so, indicate how the project has been designed to mitigate possible adverse effects;

The development is consistent with the other downtown Birmingham projects. HVACequipment units will have filters and the exhausts will be designed to meet all current code requirements.

28. Indicate whether the proposal will establish a trend which, if continued, may lead to violation of air quality standards in the future;

We do not anticipate that the development will establish a trend that will adversely affect air quality within the Downtown District.

29. Indicate whether the proposed project will have parking facilities for more than 75 cars and indicate percentage of required parking that is proposed;

The proposed development will have (3) outdoor and (8) indoor parking spaces located in the parking garage. The code requires no parking spaces to be provided.

Environmental Design and Historic Values

30. Indicate whether there will be demonstrable destruction or physical alteration of the natural or human made environment on site or in the right of way (ie. clearance of trees, substantial regrading etc.);

Refer to enclosed paving, grading and soil erosion plan. The sidewalks and streetscape on Chester and

Willits will be rebuilt to the appropriate standards.

31. Indicate whether there will be an intrusion of elements out of character or scale with the existing physical environment (ie. significant changes in size, scale of building, floor levels, entrance patterns, height, materials, color or style from that of surrounding developments);

No

32. Indicate all elements of the project that are eligible for LEED points if the building were to be LEED certified;

We have determined that LEED certification will not be a part of this development.

33. Indicate whether the proposed structure will block or degrade views, change the skyline or create a new focal point;

The structure will not degrade views. We believe that the building will create a new focal point. Letters from neighbors approving new views are attached as a part of the application.

34. Indicate whether there will be objectionable visual pollution introduced directly or indirectly due to loading docks, trash receptacles or parking, and indicate mitigation measures for same;

We are requesting a variance for the loading dock. Trash receptacles are located within the building and will not cause visual pollution. Indoor parking is accessed by a new entry/exit from Willits St.

35. Indicate whether there will be an interference with or impairment of ambient conditions necessary for the enjoyment of the physical environment (ie. vibration,dust, odor, heat, glare etc.);

The proposed development will not generate abnormal vibrations, dust, odor, heat, glare or other noxious elements that would prohibit enjoyment of the existing environment.

36. Indicate whether the project area and environs contain any properties listed on the National Register of Historic Places or the city's inventory of historic structures:

This property does not appear on the National Register of Historic Places or the City's Inventory of historic structures.

37. Provide any information on the project area that the State Historic Preservation Office (SHPO) may have:

We are not aware of the property appearing on the SHPO

38. Indicate whether there will be other properties within the boundaries or in the vicinity of the project that appear to be historic and thus require consultation with the SHPO as to eligibility for the National register;

No surrounding properties appear to be historic.

39. Indicate whether the Department of the Interior has been requested to make a determination of eligibility on properties the SHPO or HDC deems eligible and affected by the project;

There is no indication that the Department of the Interior has been requested to make a determination on the historic value of the surrounding properties.

40. Provide proof that the HDC has been given an opportunity to comment on properties that are listed on or have been found eligible for the National Register and which would be affected by the project;

Does Not Apply

Refuse

41. Indicate whether the existing or planned solid waste disposal system will adequately service the proposed development including space for separation of recyclable materials;

Space for refuse areas for the residents and occupants will be provided as per standards of the city and area.

42. Indicate whether the design capacity of the existing or planned solid waste disposal system will be exceeded as a result of the project:

Solid waste generated from this facility will be standard and can be handled easily by local waste management companies

43. Indicate whether existing or planned waste water systems will be able to adequately service the proposed development:

Yes. The existing sewer service flow basis of design and capacity of the combined sewer could be reviewed and confirmed by the City Engineer of needed.

44. Indicate whether the design capacity of these facilities will be exceeded as a result of the project;

It is not anticipated that the design capacity of the municipal combined sewer will be exceeded by the development.

45. Indicate the elements of the project that have been incorporated to reduce the amount of water entering the sewer system (such as low flush toilets, Energy Star appliances, restricted flow faucets, greywater recycling etc.);

Building design will incorporate restricted flow plumbing fixtures and Energy Star appliances wherever possible.

Storm Sewer

46. Indicate whether existing or planned storm water disposal and treatment systems will adequately serve the proposed development:

Yes

47. Indicate whether the design capacity of these facilities will be exceeded as a result of the project;

It is not anticipated that the design capacity of the municipal sewer system will be exceeded by the proposed development.

48. Indicate the elements of the project that have been incorporated to reduce the amount of storm water entering the sewer system (such as the use of pervious concrete, rain gardens, greywater recycling, green paved etc.):

All care will be taken by ownership to use appropriate storm water management

techniques, in accordance with the Birmingham Storm water Ordinance. http://www.bhamgov.org/government/departments/treasury/storm_water_utility_ordinance.php

Water Service

49. Indicate whether either the municipal water utility or onsite water supply system is adequate to serve the proposed project;

Existing domestic system to be adequate; new fire suppression system to be added.

50. Indicate whether the water quality is safe from both a chemical and bacteriological standpoint;

The latest published water quality report can be found at the following address: http://www.bhamgov.org/document_center/Engineering/2015_Water_Quality%20R eport.pdf

51. Indicate whether the intended location of the service will be compatible with the location and elevation of the main;

Existing system to remain or be relocated

Public Safety

52. Whether or not the project location provides adequate access to police, fire and emergency medical services:

Building is directly on Chester and Willits Street right of way line and offers direct access for emergency personnel.

53. Whether or not the proposed project design provides easy access for emergency vehicles and individuals (ie. are there obstacles to access, such as one way roads, narrow bridges etc.);

Project located on corner of on Chester and Willits Street with direct access to all local arteries.

54. Whether or not there are plans for a security system which can be expanded, and whether approval for same has been granted by the police department;

A security system is proposed. Approval upon review

55. Detailed description of all fire access to the building, site, fire hydrants and water connections;

Fire department connection to be coordinated per fire department; Full fire suppression throughout; Access to all floors via fire stairs and elevators; Full state of the art alarm system

56. Whether or not there are plans for adherence to all city and N.F.P.A. fire codes: **All NFPA codes will be followed.**

- 57. Proof that one elevator has been designed to accommodate a medical cart: **New Elevator to accommodate a medical cart**
- 58. Detailed specifications on all fire lanes/parking lot surfaces/alleys/streets to demonstrate the ability to accommodate the weight of emergency / fire vehicles; **Existing street access, concrete parking lot surfaces**
- 59. Detailed description of all fire suppression systems:

 To be submitted with Construction Documents
- 60. Provide completed FORM A –Transportation Study Questionnaire (Abbreviated); See Traffic Impact Assessment as prepared by Stonefield engineering.
- 61. Provide completed FORM B –
 Transportation Study Questionnaire if required by the city's transportation consultant;
 See Traffic Impact Assessment as prepared by Stonefield engineering. Does not apply if absent in the study
- 62. Indicate whether transportation facilities and services will be adequate to meet the needs of all users (i.e. access to public transportation, bicycle accommodations, pedestrian connections, disabled, elderly etc.);
- Bus Stop is located in close proximity on Maple
- A Bike rack will be provided Pedestrian access directly available at Chester and Willits st.
- Full Barrier free access to all levels of the building.
- 63. Indicate how the project will improve the mobility of all groups by providing transportation choices;

Occupants and visitors can easily access the facility by foot via sidewalks, by car from parking on the street or from nearby parking deck and by bus. A Bike rack will be provided for bikers.

64. Indicate how the users of the building will be encouraged to use public transit and non motorized forms of transportation;

A Bus stop is in close proximity on Maple. A Bike rack will be provided on site for Occupants and visitors.

65. Indicate the elements that have been incorporated into the site and surrounding right-of-way to encourage mode shift away from private vehicle trips;

A Bus stop in close proximity on Maple. A Bike rack on site will be provided for Visitors or occupants.

66. Indicate the elements of the project that have been provided to improve the comfort and safety of cyclists (such as secured or covered bicycle parking, lockers, bike lanes/p aths, bicycle share program etc.);

A Bike rack will be provided on site for occupants and visitors.

- 67. Indicate the elements of the project that have been provided to improve the comfort and safety of pedestrians (such as wheelchair ramps, crosswalk markings, pedestrian activated signal lights, bulb outs, benches, landscaping, lighting etc.);
- Wheelchair and all barrier free access provided
- Crosswalks available at pedestrian access points of the building
- Access route developed north and east of building including planters and trees
- 68. Indicate the elements of the project that have been provided to encourage the use of sustainable transportation modes (such as receptacles for electric vehicle charging, parking for scooters/Smart cars etc.):

Not at this time

69. Indicate whether there are any visual indicators of pond and / or stream water quality problems on or near the site;

Not Applicable

70. Indicate whether the project will involve any increase in impervious surface area and if so, indicate the runoff control measures that will be undertaken:

Refer to the enclosed survey and drainage plans paving plans of the site.

71. Indicate whether the project will affect surface water flows on water levels of ponds or other water bodies:

It is not anticipated that the development will impact any existing surface water flows of ponds or other water bodies.

72. Indicate whether the project may affect or be affected by a wetland, flood plain, or floodway;

It is not anticipated that the development will be impacted or propose impact an existing wetland, floodplain, or floodway. Refer to the enclosed site plan showing the proposed building foundation and the existing floodplain limits.

73. Indicate whether the project location or construction will adversely impact unique natural features on or near the site;

It is not anticipated that the development will be impact or propose impact an existing unique natural features on or near the site.

74. Indicate whether the project will either destroy or isolate a unique natural feature from public access;

Current site is private and the development will not impede the public access to amenities that surround it.

75. Indicate whether any unique natural feature will pose safety hazards for the proposed development;

No existing natural feature will pose any safety hazards for the development.

76. Indicate whether the project will damage or destroy existing wildlife habitats; **Proposed project will not destroy and existing wildlife or habitats**

Other Information

77. Any other information as may reasonably be required by the city to assure an adequate analysis of all existing and proposed site features and conditions.

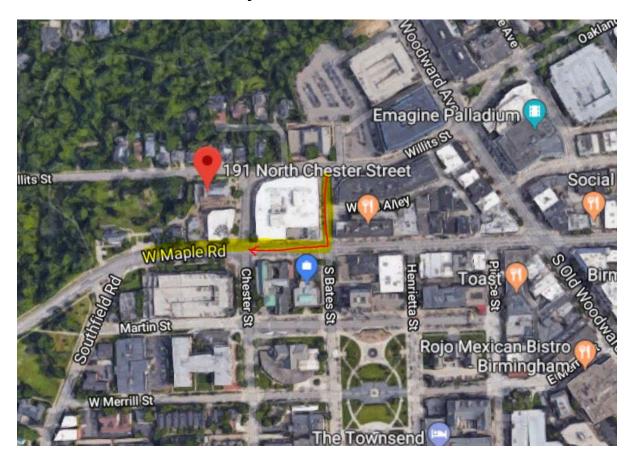
Our office will be happy to supply all additional requested information by the city.

Professional Qualifications

The preparer(s) of the CIS must indicate their professional qualifications, which must include registration in the state of Michigan in their profession where licensing is a state requirement for the practice of the profession (i.e. engineer, surveyor, architect etc.). Where the state does not require licensing (ie. planner, urban designer, economist etc.), the preparer must demonstrate acceptable credentials including, but not limited to, membership in professional societies, university degrees, documentation illustrating professional experience in preparing CIS related materials for similar projects.

Kevin Biddison, AIA

HAUL ROUTE MAP- The Jeffrey





Kolano and Saha Engineers, Inc.

Consultants in Acoustics, Noise and Vibration

2018-078 April 13, 2018

Mr. Kevin Biddison Biddison Architecture 320 Martin Street, Suite 10 Birmingham, MI 48009

Subject: Birmingham CIS - Sound Level Measurements and Noise Impact Assessment

re: The Jeffrey at 191 N Chester Street

Birmingham, MI

Dear Mr. Biddison:

At your request and authorization Kolano and Saha Engineers, Inc. (K&SE) conducted an investigation to review the environmental noise associated with the proposed remodel and expansion at 191 N Chester Street. This investigation includes a review of the measurements at the development site to understand the current ambient noise condition with an evaluation of the proposed development to help assess if noise associated with this development will be compatible at this location.

On-Site Sound Level Measurements

We conducted measurements using a Brüel & Kjær 2270 environmental noise analyzer with a precision outdoor microphone assembly. This instrumentation was calibrated before and after measurements using an acoustic calibrator traceable to the National Institute for Standards and Technology. It was set to measure for a continuous period from April 11th starting at 12:00 PM to April 12 at 4:00 PM. The measurement equipment was located approximately 20 feet south of the closest lane of Willits Street and approximately 90 feet west of the closest lane of Chester Street. The measurements were conducted at an elevation of approximately 7 feet above ground. The location of this measurement position is detailed in **Exhibit 1**.

The results of the measurements are presented in a graph of sound level versus time in **Exhibit 2**. This graph contains two plot lines; the 5 minute L_{eq} (energy average level), the hourly L_{eq} and the daytime and nighttime averaged sound levels. Note that the daytime averaged sound level does not include the public warning system siren sound level as this noise source is excluded from the ordinance noise limitations and is intentionally loud for the public welfare. The sources of noise in the sound levels measured were primarily from local traffic on Willits and N Chester Streets with some contribution from construction activities related to the renovation of the 191 N Chester Street building. Sound levels in this area are generally quieter than other location in Birmingham where more traffic and people are present such as along the Woodward, Old Woodward corridors and other major thoroughfares.

City of Birmingham Noise Ordinance

The City of Birmingham addresses noise in their ordinance under *Part II – City Code*, *Chapter 50 – Environment, Article II. Nuisances, Division 4 – Noise*. This ordinance provides information of Definitions, general prohibitions, specific prohibitions, decibel level prohibitions, general exemptions and test procedures. The objective limits cited in this ordinance (as Table 1) are:

Use of Property Producing the Sound	Use of Property Receiving the Sound	Sunday to Saturday 7:00 a.m. to 7:00 p.m.	Sunday to Saturday 7:00 p.m. to 7:00 a.m.
Residential	Residential	75	60
Commercial	Residential	80	60
Residential	Commercial	80	60
Commercial	Commercial	90	75

Exemptions to these limits include power equipment operations between 7AM and 7PM that do not exceed 100 dB(A) at or beyond the property line, construction noise between 7AM and 7PM Monday-Saturday excluding holidays (with additional provisions), and snow removal which does not exceed 90 dB(A) at or beyond the property line.

Properties to the north and to the west are residential and have noise limits of 80 dB(A) daytime and 60 dB(A) nighttime. Property to the south and east are commercial and have noise limits of 90 dB(A) daytime and 75 dB(A) nighttime. Using the daytime and nighttime average sound levels (54 dB(A) and 48 dB(A) respectively) as maximum noise level design goals can help maintain the current sound environment and help minimize additional impact to the adjacent community.

Proposed Development Noise Impact

From a noise perspective, the proposed renovation and expansion for the proposed office building is generally similar to other office buildings in Birmingham. The site of the building is directly adjacent to residential properties to the north. Based upon the results of the 24 hour site noise measurements, the residents of these homes are likely used to a quieter environment than other properties located closer to major thoroughfares in the city. As a result, deliberate attention should be given to the noise control of building-related mechanical and electrical services to help minimize undue noise impact to the adjacent residents.

The renovation and expansion of the three-level building is expected to be used for office lease space. The Lower Level is planned to have a new parking garage with 8 vehicle spaces, office lease space, a storage room, a mechanical room and the new expanded area to the east being used for a lounge and patio. The First Floor is planned to be office lease space with a new lobby in the expanded area. The Second Floor is planned to be office lease space. The sources of noise expected from the building include:

Heating and Cooling Mechanical Systems

Based on communications with you for this project, it is our understanding that residential size heating and air conditioning systems is expected for each of the levels. These systems are expected to have condenser-compressor units outdoors for cooling during warm weather. The high-efficiency versions of these types of units are generally quieter and less likely to be significant sources of noise. However, even the low-noise versions of these units should be carefully located on the site to minimize noise transmission to adjacent residential properties.

Below Grade Parking Exhaust Fans

To ventilate vehicle exhaust gasses, one or more fans are expected for the lower level enclosed parking. Careful selection and location of these fans can help minimize any adverse noise impact created by their operation. Mixed flow style fans with variable speed drives tend to be less noisy, though noise control elements should also be considered to help minimize noise impact to local residents as well as occupants of The Jeffrey.

Emergency Power Generator

It is not clear at this point whether or not an emergency power generator will be required for this building. If included, a generator has the potential for excessive noise. With proper location selection, provisions for adequate generator noise controls and exhaust muffling, and minimal actual operation time (weekly or bimonthly maintenance cycles are normally expected), we expect that a generator can be made to comply with the ordinance and create minimal noise impact. Considering noise impact, the optimal location of the generator may be to the south of the building toward the east side.

Conclusion

Based on the information we have been provided and deliberate effort to minimize noisy equipment, we anticipate that the proposed development will be able to comply with the Birmingham Noise Ordinance limits.

Mr. Biddison, should you have questions or need additional assistance on this matter, do not hesitate to call.

Sincerely,

KOLANO AND SAHA ENGINEERS, INC.

Darren Brown, P.E. INCE Board Certified

Consultant

EXHIBIT 1

191 N CHESTER STREET AERIAL SITE VIEW DETAILING SOUND LEVEL MEASUREMENT LOCATION

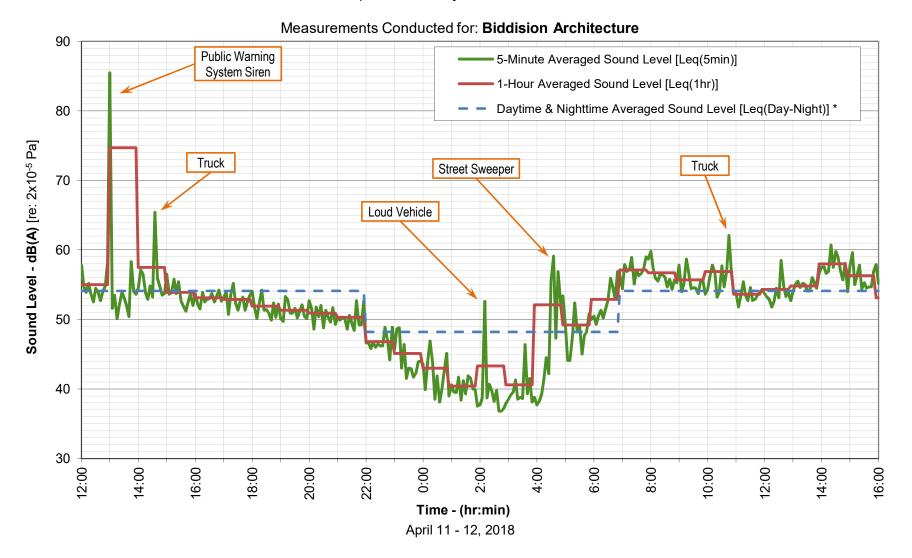


Project No.: 2018-078

EXHIBIT 2

Ambient Sound Levels at 191 N Chester Street

Measured 20 Feet South of Willits Street and 90 Feet West of N Chester Street; Sound is predominantly from local vehicle traffic



^{*}The daytime average sound level does not include the public warning system siren.

Traffic Impact Assessment of Proposed Renovation and New Addition For

THE JEFFREY

191 North Chester Street Birmingham, Michigan 48009

Prepared For:
Kevin Biddison, AIA
Biddison Architecture + Design
320 Martin Street, Suite 10
Birmingham, MI 48009

Applicant Information:
Sam Surnow
320 Martin Street, Suite 100
Birmingham, MI 48009

Prepared: April 12, 2017

STONEFIELD



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TECHNICAL APPENDIX

- I. Professional Resume
- 2. City of Birmingham Traffic Impact Assessment Form (Form A)
- 3. Stopping Sight Distance at Site Driveway
- 4. Excerpts from City's Multi-Modal Transportation Plan
- 5. SMART Bus Stops & Routes in Site Vicinity
- 6. SEMCOG Traffic Volume Data



Executive Summary

The Applicant is proposing to renovate the existing First Church of Christ Scientist building to provide a three (3)-floor office building. The proposed building would provide approximately 24,797 square feet of gross floor office space, and parking would be provided via a ground-level parking garage and existing on-site parking. Construction and full occupancy is expected by 2020.

Existing access is provided via one (1) curb-cut along Willits Street servicing three (3) right-angle parking spaces. Under the proposed development program, an additional curb-cut along Willits Street would be constructed providing access to a gated parking area on the lower level of the building, which would provide eight (8) parking spaces. The existing three (3) right-angle parking spaces are proposed to remain as-is. The site is located within the parking assessment district, and as such, no parking is required for the proposed development. To provide a conservative analysis, all of the new vehicular traffic to the site was routed to use the gated access point, however it is anticipated that a portion of the parking demand generated by the site would utilize public parking spaces in the City of Birmingham.

This Traffic Impact Assessment was prepared by Stonefield Engineering & Design, LLC, utilized the City of Birmingham's Traffic Study Questionnaire (Form A), as well as accepted traffic engineering practices for Traffic Impact Assessments.

The key findings and conclusions developed in this study are as follows:

- 1. The proposed office building is projected to generate 50 vehicle trips during the weekday morning peak hour (43 in, 7 out) and 30 trips during the weekday evening peak hour (5 in, 25 out).
- 2. The traffic generated by the site would likely be dispersed throughout the roadway network as a portion of the site-generated traffic would likely need to park in public parking areas.
- 3. The proposed development would further the City's Multi-Modal Transportation Plan by providing an ADA-accessible ramp at the intersection of Willits Street and Chester Street, replacing an existing non-accessible staircase at the intersection.
- 4. The proposed development would further the City's Multi-Modal Transportation Plan by extending the sidewalk along Willits Street to the edge of the property, providing a location for a future sidewalk connection on the neighboring property to the west.
- 5. No roadway lane improvements are warranted by the proposed development.
- 6. There would be 11 parking spaces provided on-site. As the site is located within the parking assessment district, the proposed development is not required to provide parking on-site. It is anticipated that a portion of the site's parking demand would be satisfied utilizing public parking on-street and within parking garages.



Introduction

The Applicant is proposing to renovate the existing First Church of Christ Scientist building to provide a three (3)-floor office building. The proposed building would provide approximately 24,797 square feet of gross floor office space, and parking would be provided via a ground-level parking garage and existing on-site parking. The subject property is located at the southwest quadrant of the intersection of North Chester Street and Willits Street in the City of Birmingham, Oakland County, Michigan. The site location is shown on **Figure 1**. The subject property Parcel Identification Number (PIN) is designated as 19-25-356-023. The site has approximately 116 feet of frontage along Chester Street and 180 feet of frontage along Willits Street. The existing site is presently developed with a two (2)-story building previously occupied by the First Church of Christ Scientist. Construction and full occupancy is expected by 2020.

Existing access is provided via one (I) curb-cut along Willits Street servicing three (3) right-angle parking spaces. Under the proposed development program, an additional curb-cut along Willits Street would be constructed providing access to a gated parking area on the lower level of the building, which would provide eight (8) parking spaces. The existing three (3) right-angle parking spaces are proposed to remain as-is. The site is located within the parking assessment district, and as such, no parking is required for the proposed development. To provide a conservative analysis, all of the new vehicular traffic to the site was routed to use the gated access point, however it is anticipated that a portion of the parking demand generated by the site would utilize public parking spaces in the City of Birmingham.

This Traffic Impact Assessment was prepared by Stonefield Engineering & Design, LLC, and utilized the City of Birmingham's Traffic Study Questionnaires (Form A), as well as accepted traffic engineering practices for Traffic Impact Assessments.

Existing Conditions

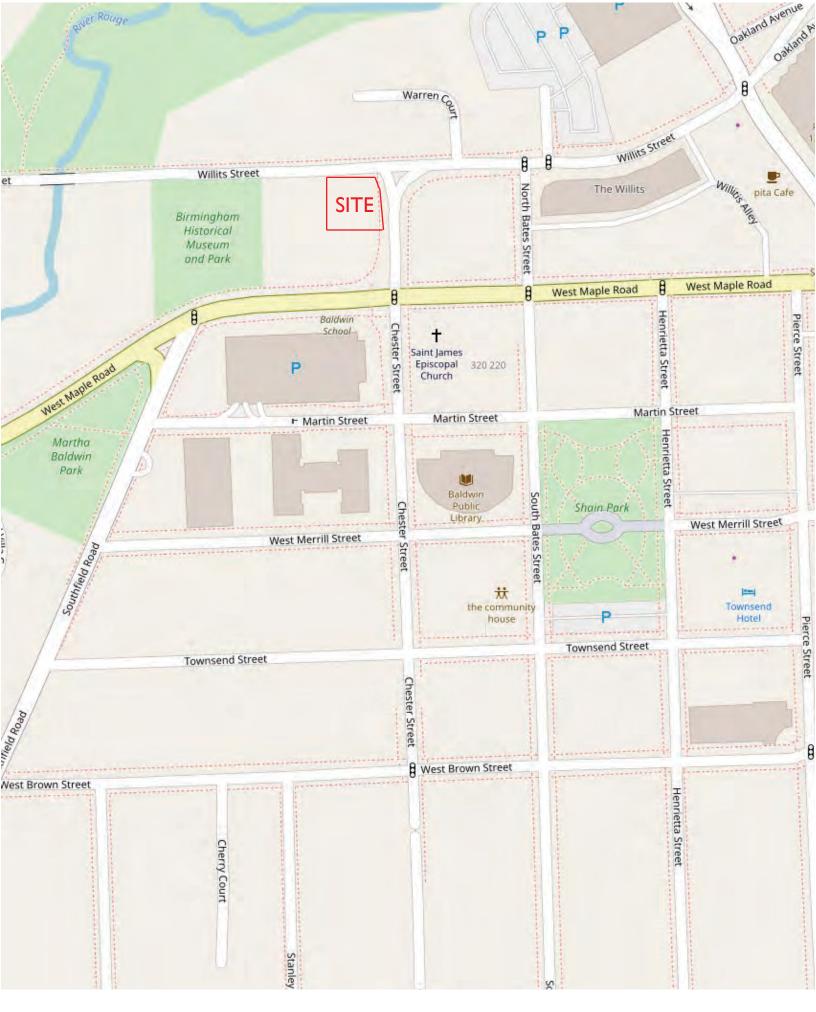
Roadway Characteristics

Chester Street is located along the easterly side of the property with a general north-south orientation and generally provides one (I) lane of travel in each direction. Along the site frontage, additional lanes are provided approaching the intersection with Maple Road to the south. At its northern terminus along the frontage, Chester Street curves to the east and becomes Willits Street, an east-west oriented roadway.

Chester Street is classified on the National Functional Classification Map as a Major Collector roadway and has a posted speed limit of 25 mph. Curb and sidewalk are provided along both sides of the roadway, a striped shoulder is provided along the easterly side of the roadway approaching Willits Street, and on-street parking is permitted within the site vicinity within two (2) metered parking spaces along the westerly side of the roadway. Additional metered on-street parking is provided south of Maple Road. Chester Street provides north-south mobility for residential, commercial, religious, and educational uses along its length. Street level view of the site from Chester Street is provided on **Figure 2**.

Willits Street is located along the northerly side of the property with a general east-west orientation and generally provides one (I) lane of travel in each direction. Along the site frontage, Willits Street is approximately 24 feet in width. East of Chester Street, Willits Street widens to provide metered, on-street parking along both sides of the roadway.

Willits Street is classified on the National Functional Classification Map as a Major Collector roadway to the east of Chester Street, and is classified as a local roadway to the west of Chester Street. Along the site frontage, curb and sidewalk are provided along both sides of the roadway, shoulders are not provided, and onstreet parking is not permitted. East of Chester Street, curb and sidewalk are provided along both sides of the roadway, shoulders are not provided, and metered on-street parking is not provided in designated spaces. Willits Street provides east-west mobility for residential uses west of Chester Street and commercial uses east of Chester Street. Street level view of Willits Street is provided in **Figure 3** and **Figure 4**.











Chester Street and Willits Street intersect to form an unsignalized T-intersection, with the eastbound approach of Willits Street operating under stop control. At the intersection, the westbound approach of Willits Street continues southbound on Chester Street and the northbound approach of Chester Street continues eastbound on Willits Street without stop control. Left-turns from the eastbound approach of Willits Street and from the northbound approach of Chester Street are not permitted.

Alternate Modes of Transportation

Sidewalks are provided along both sides of Chester Street and Willits Street abutting the site. Crosswalks are not provided at the intersection of Chester Street and Willits Street, however crosswalks are provided at signalized intersections located one (I) block away along Chester Street and Willits Street in the southerly and easterly directions. Given the narrow width of the roadway, crossing the westerly leg of Willits Street at the intersection appears reasonably feasible via an existing residential driveway and a small staircase. As this crossing is not ADA-accessible, the application is proposing installation of an ADA-accessible ramp for crossing the westerly leg. A midblock pedestrian crossing across Chester Street or the easterly leg of Willits Street is not recommended given the horizontal curvature in the roadway, limiting sight distance for both pedestrians looking for motorists and vice versa.

There does not appear to be signed or striped bicycle lanes, bicycle routes, or bicycle parking in the site vicinity. A bicycle rack will be provided on-site to accommodate bicycle parking.

SMART offers fixed-route bus service along Maple Road south of the site via Route 445 and Route 780. The nearest stop for these routes is located at the intersection of Maple Road and Bates Street, an approximately two (2)-block walk from the site. Information regarding the nearby bus routes is provided within the appendix.

Traffic Volumes

Stonefield utilized observed traffic volume counts and mapping provided by SEMCOG to determine the daily and hourly traffic along the subject roadways. Specifically, Stonefield utilized count data at the locations shown in **Table 1**.

TABLE I - SEMCOG TRAFFIC VOLUME DATA

Street	Location	Year	AADT
Willits Street	Detruces Old Mandaged Avenue and Charten Street	2008	7,660
	Between Old Woodward Avenue and Chester Street	2016	9,305
Chester Street	Between Willits Street and Maple Road	2008	3,500
Chester Street	Patruson Marla Road and Provin Street	2008	3,430
	Between Maple Road and Brown Street	2016	3,100

Based to the SEMCOG data available proximate to the site, it was determined that the data along Willits Street would provide the most conservative estimate of the existing traffic volume along the Chester Street site frontage. The 2008 and 2016 SEMCOG data along Willits Street was utilized to calculate an annual growth rate of approximately 2.5%.

The calculated annual growth rate was applied to the 2016 SEMCOG traffic volume data along Willits Street for two (2) years to calculate the 2018 existing daily volume. A typical K-factor for urbanized areas of nine (9%) percent was then used to calculate the 2018 hourly volume during the weekday morning and weekday evening peak hours. The 2008 SEMCOG 15-minute interval traffic volumes along Willits Street were utilized to determine the directional distribution of the existing volumes along the Chester Street site frontage. **Table 2** summarizes the calculation of the existing volumes along the Chester Street site frontage.



TABLE 2 - EXISTING TRAFFIC VOLUME CALCULATION

2016 SEMCOG Volume	Annual Growth Rate	2018 Daily Volume	K-Factor	2018 Hourly Volume
9,305	2.5%	9,776	9%	880

Traffic volume data is not available for Willits Street directly along the site frontage. However, given the local classification of the roadway, traffic volumes are not anticipated to be significant. The 2018 Existing Traffic Volumes are illustrated on **Figure 5** and the SEMCOG traffic volume data utilized in this report is provided within the appendix.

Future Conditions

Trip Generation

Trip generation projections for the proposed office building were prepared utilizing the Institute of Transportation Engineers' (ITE) <u>Trip Generation Manual</u>, 10th Edition. Trip generation rates associated with Land Use 710 "General Office Building" were cited for the proposed 24,797-square-foot office building. **Table 3** provides the weekday morning peak hour, weekday evening peak hour, and weekday daily trip generation volumes associated with the proposed office building.

TABLE 3 - TRIP GENERATION PROJECTIONS

				Wee	kday Mo	rning	Wee	ekday Eve	ning
	ITE		Weekday	F	Peak Hou	r	F	Peak Hou	r
Land Use	Code	Amount	Daily	Enter	Exit	Total	Enter	Exit	Total
General Office Building	710	24,797 SF	274	43	7	50	5	25	30

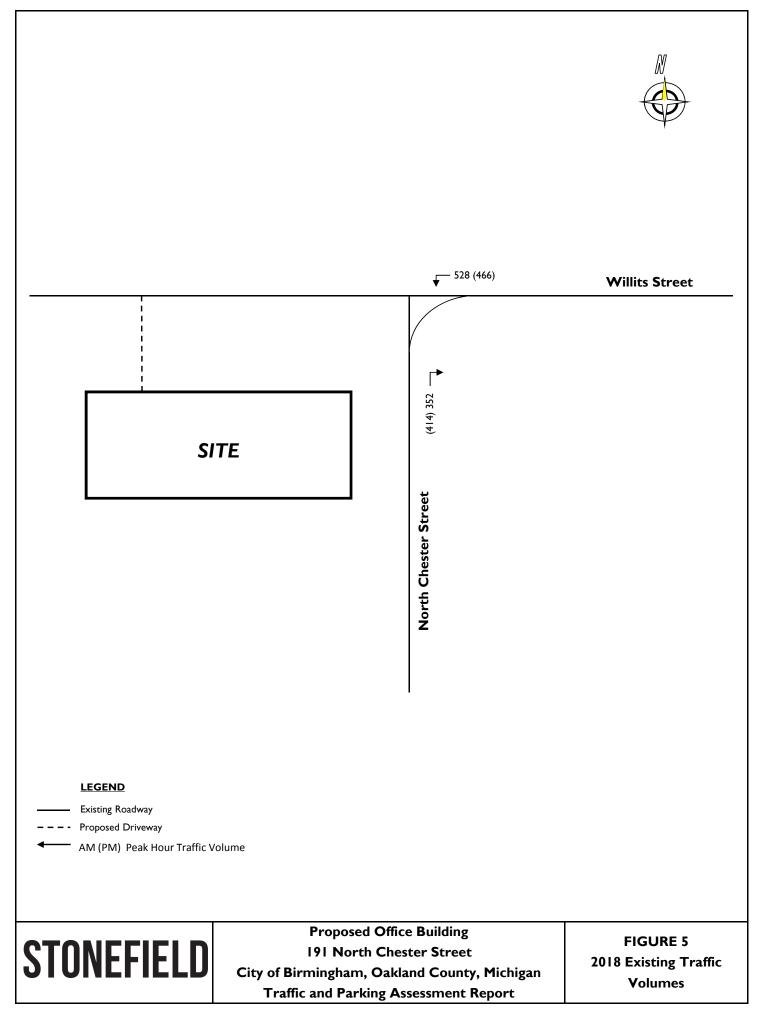
As indicated in Table I, the proposed development would be expected to generate 50 new trips to the adjacent roadway network during the weekday morning peak hour and 30 new trips during the weekday evening peak hour. Based on the parking supply and gated access of the proposed development, vehicular trips generated by the site would likely be dispersed throughout the roadway network as motorists use public on-street and garage parking. As such, the trip increase at any particular approach would be minimal.

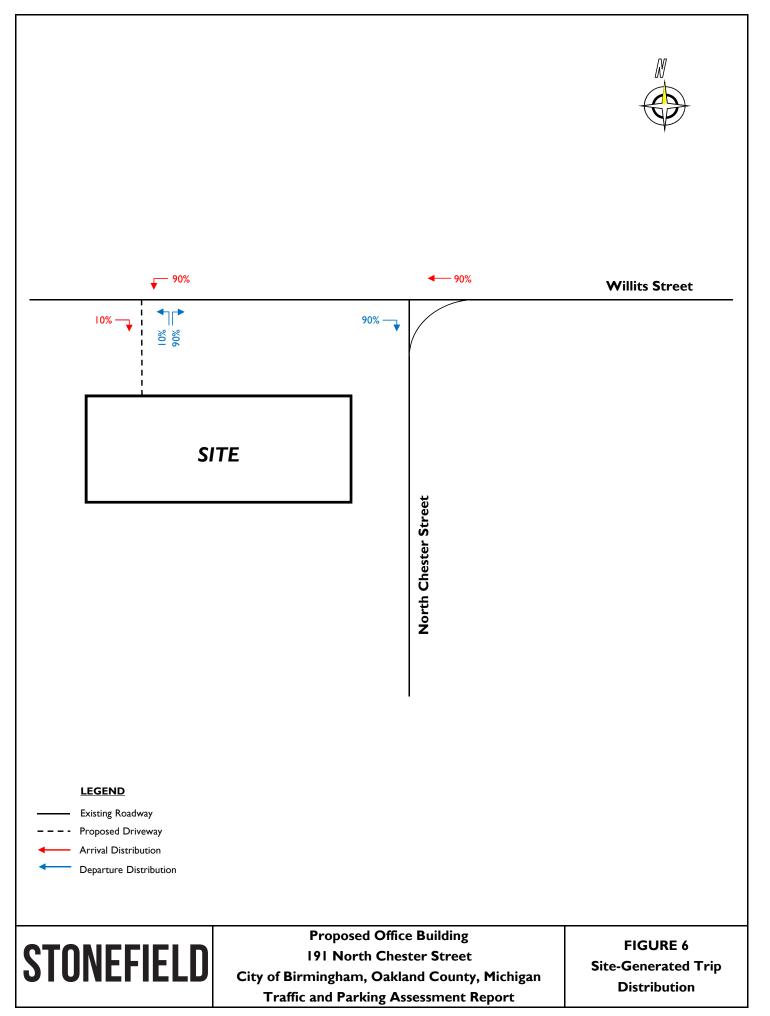
Trip Distribution

The projected trips were distributed on the adjacent roadway network. For the purpose of the distribution, the trips were routed to and from the site driveway, however it is anticipated that traffic volumes would likely be dispersed throughout the grid-style network of downtown Birmingham as motorists use public on-street and garage parking. **Figure 6** provides the weekday morning and weekday evening trip distribution at the site driveway.

During the morning peak hour, a majority of trips will enter the site as employees arrive at the office for a typical workday. Specifically, per the ingress/egress distribution provided by ITE, 86% of trips would enter the site and I4% would exit the site during the morning peak hour.

During the evening peak hour, a majority of trips will exit the site as employees depart the office after a typical workday. Specifically, per the ingress/egress distribution provided by ITE, 16% of trips would enter the site and 84% would exit the site during the evening peak hour.







Trip Assignment

The trips generated by the proposed office development have been assigned to individual turning movements as shown in **Figure 7**.

Future total traffic was determined by adding the traffic generated by the site to the calculated traffic volumes on the roadway network with applied 2.5% annual growth rate to represent the 2020 Build Traffic Volumes. This traffic volume is provided in **Figure 8**.

Traffic Impacts

Volume Impacts

Based on the trips generated by the proposed office building, and the calculated traffic volumes on Chester Street and Willits Street, the southbound traffic volume on Chester Street along the site frontage is projected to increase by approximately 1% percent during the weekday morning peak hour and approximately 4% percent during the weekday evening peak hour, and the westbound traffic volume on Willits Street east of Chester Street is projected to increase by approximately 6% percent during the weekday morning peak hour and approximately 1% percent during the weekday evening peak hour.

Level of Service Impacts

Based on <u>Transportation Impact Analysis for Site Development</u> published by ITE, a trip increase of less than 100 vehicles trips would likely not change the level of service of the roadway system or appreciably increase the volume-to-capacity ratio of an intersection approach. The proposed development is projected to generate 50 total trips during the weekday morning peak hour and 30 total trips during the weekday evening peak hour. As such, the proposed office development is not anticipated to significantly impact the operations of the adjacent roadway network.

Transportation Standards

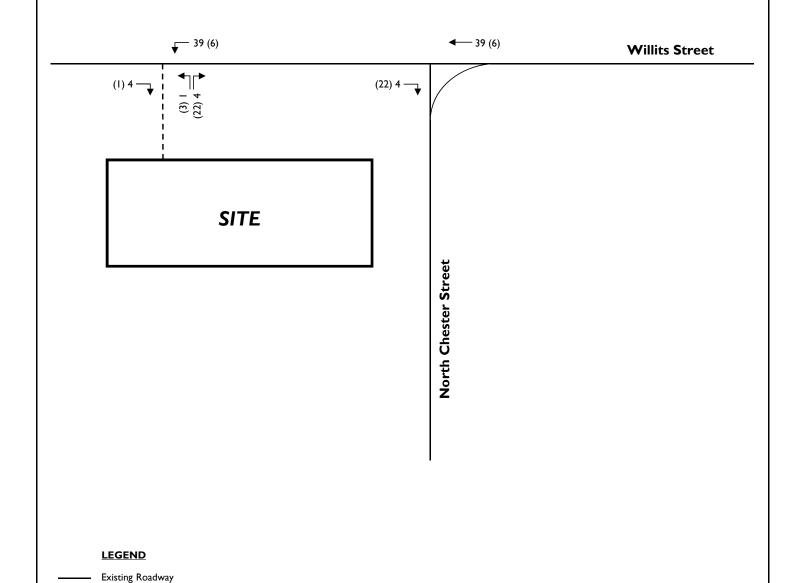
Access to the site is proposed exclusively along Willits Street. The roadway is approximately 24 feet wide and does not permit on-street parking, resulting in one (I) I2-foot lane in each direction for vehicular traffic. The narrow roadway cross-section promotes lower vehicular speeds in both the residential and downtown portions of the roadway, and as such should not be widened in the vicinity of the site to provide a left-turn lane or provide other transportation standards. **Figure 9** and **Figure 10** provide street level view of Willits Street in the vicinity of the access point.

Non-Vehicular Access

The proposed office building is anticipated to generate additional pedestrian traffic in the area. Consistent with the City's Multi-Modal Transportation Plan, improvements along the site frontage are proposed to accommodate pedestrians in the area. An ADA-accessible ramp is proposed at the southwest corner of the intersection of Willits Street and Chester Street, which would replace a non-ADA-accessible staircase leading to the roadway.

As shown on Figure 3.2A – Proposed Sidewalks of the City's Multi-Modal Transportation Plan (portion appended), properties west of the subject site are categorized as "Priority 2: Complete Sidewalk Gaps in Neighborhood." As part of the development program, a six (6)-foot-wide sidewalk would be extended from its current terminus at the existing on-site surface parking to the edge of the property line, allowing for a sidewalk connection on the adjacent property at a future date.





STONEFIELD

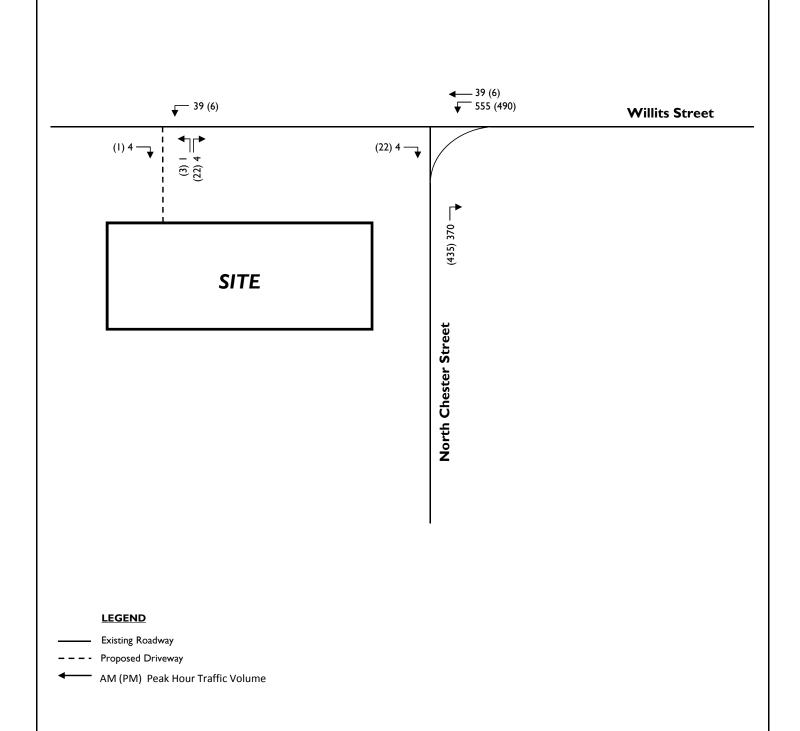
Proposed Driveway

AM (PM) Peak Hour Trips

Proposed Office Building
191 North Chester Street
City of Birmingham, Oakland County, Michigan
Traffic and Parking Assessment Report

FIGURE 7
Site-Generated Traffic
Volumes







Proposed Office Building
191 North Chester Street
City of Birmingham, Oakland County, Michigan
Traffic and Parking Assessment Report

FIGURE 8
2020 Build Traffic Volumes



Figure 9.View From Driveway to Westbound Willits Street





As shown on Figure 3.7A – Proposed Neighborhood Connector Routes of the City's Multi-Modal Transportation Plan (portion appended), Willits Street is designated as a future neighborhood connector route west of Chester Street for local bicycle traffic.

Parking Supply

The site is located within the parking assessment district, and as such, no parking is required for the proposed development. The existing site provides three (3) right-angle parking spaces along Willits Street. Under the development plan, these spaces would be maintained, and an eight (8)-space gated garage would be located on the lower level of the development. This equates to a total of 11 spaces provided on-site for the proposed office development. It is likely that additional parking supply beyond the on-street parking supply would be necessary to accommodate the parking demand of the proposed office.

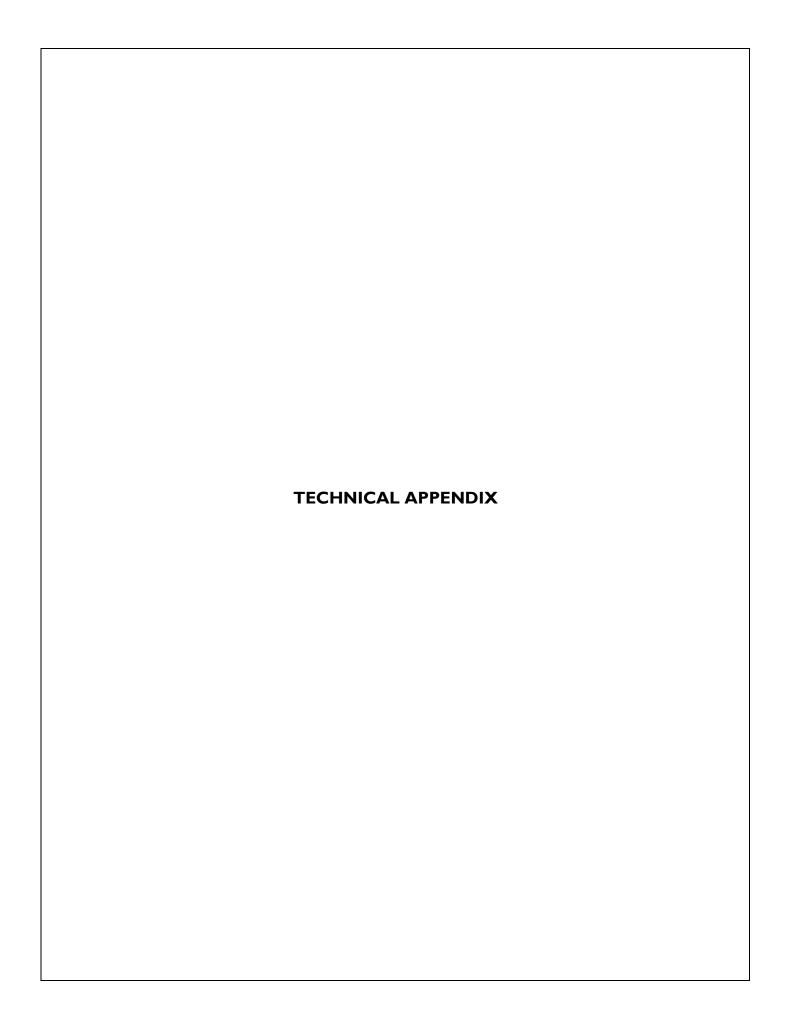
There are several parking structures within walking distance of the site that may accommodate parking demand generated by the site. The 180 Chester Street parking garage is located approximately 250 feet south of the site, and the 333 North Old Woodward Avenue parking garage is located approximately 500 feet east of the subject property. It is Stonefield's understanding that there is presently a waiting list for monthly parking permits within the City garages, however parking in excess of six (6) hours is permitted within the garages, suitable for employees of an office use. Short-term visitors would be able to utilize metered on-street parking or parking garages within vicinity of the subject site.

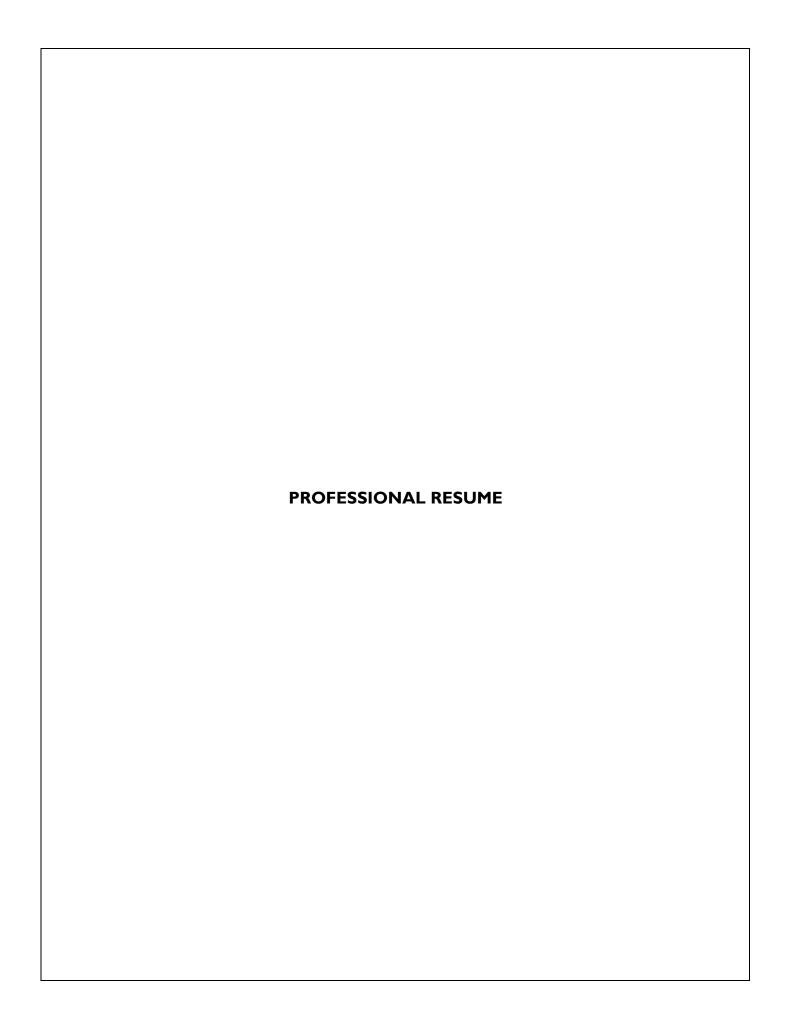
Key Findings and Conclusions

The key findings and conclusions developed in this study are as follows:

- 1. The proposed office building is projected to generate 50 vehicle trips during the weekday morning peak hour (43 in, 7 out) and 30 trips during the weekday evening peak hour (5 in, 25 out).
- 2. The traffic generated by the site would likely be dispersed throughout the roadway network as a portion of the site-generated traffic would likely need to park in public parking areas.
- 3. The proposed development would further the City's Multi-Modal Transportation Plan by providing an ADA-accessible ramp at the intersection of Willits Street and Chester Street, replacing an existing non-accessible staircase at the intersection.
- 4. The proposed development would further the City's Multi-Modal Transportation Plan by extending the sidewalk along Willits Street to the edge of the property, providing a location for a future sidewalk connection on the neighboring property to the west.
- 5. No roadway lane improvements are warranted by the proposed development.
- 6. There would be II parking spaces provided on-site. As the site is located within the parking assessment district, the proposed development is not required to provide parking on-site. It is anticipated that a portion of the site's parking demand would be satisfied utilizing public parking on-street and within parking garages.

S:\2018\S-18051 Biddison Architecture (191 North Chester Street, Birmingham, MI)\Reports\2018-04-11 Traffic Impact Assessment.docx





CHARLES D. OLIVO, PE PRINCIPAL/FOUNDER

Education

BS Civil Engineering

University of Notre Dame, 2002

Licensure

Professional Engineer

Michigan
Indiana
Ohio
New Jersey
New York
Pennsylvania
Connecticut
Maine
Massachusetts
Rhode Island
Maryland
North Carolina
New Hampshire

Professional Traffic Operations Engineer

Associations

Institute of Transportation Engineers (ITE)

American Society of Civil Engineers (ASCE)

Urban Land Institute (ULI)

Mr. Charles Olivo is accomplished in numerous aspects of Civil, Infrastructure, Highway, and Traffic and Transportation Engineering having completed projects for private development/redevelopment entities, public jurisdictional agencies, and local municipalities. Serving clients throughout the Northeast and Midwest, he has professional experience designing and managing the unique and diverse elements of land development and infrastructure design. Mr. Olivo is involved with engineering design from project inception and conceptual development through the entitlement and construction process. His experience in the Civil Engineering field has involved the shaping of development parcels inclusive of both on-site and off-site impacts and access management features.

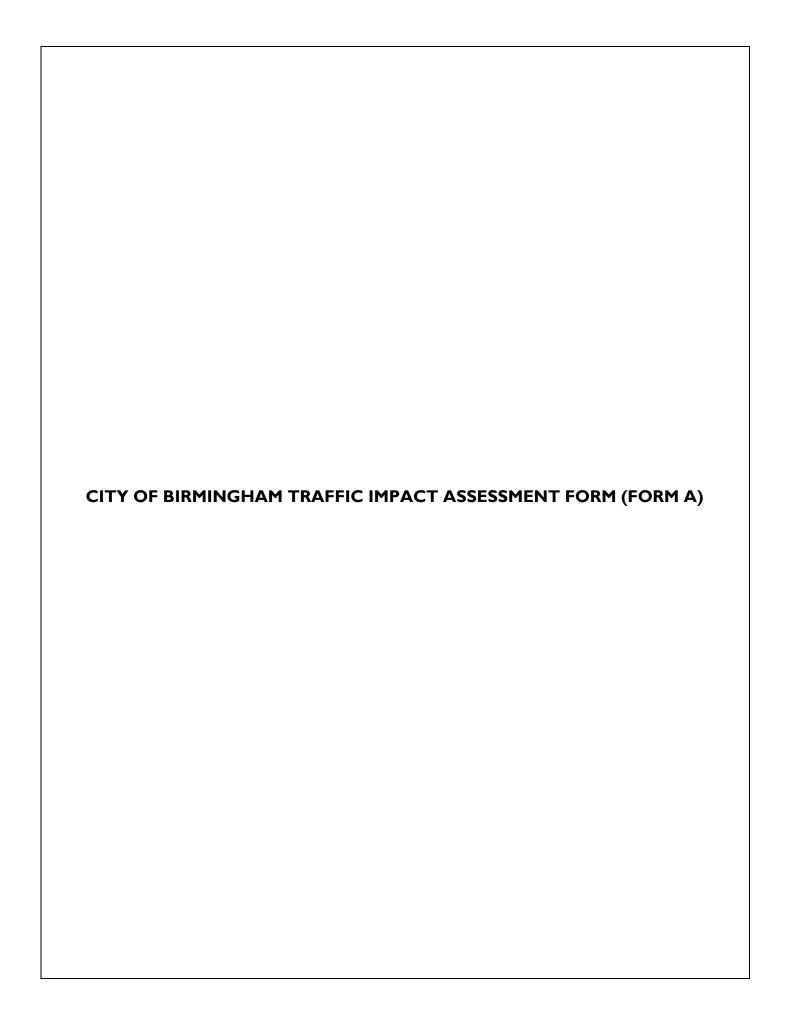
Preparation of detailed traffic and civil engineering findings during the Due Diligence/Site Assessment process for over 300 development sites to serve as the cornerstone of project viability and create a critical reference point during feasibility assessment. Through thorough research of local development codes and an understanding of development opportunities and constraints, Mr. Olivo has successfully prepared numerous Site and Traffic Analyses for development/redevelopment projects and programs.

Preparation of engineered Site Plan and Traffic Roadway Plan documents to serve as essential components in the land use permitting and entitlement process. Mr. Olivo has been integrally involved in the preparation of over 300 construction document sets, studies, analyses, and assessments associated with land development projects. He has established a reputation of high-quality design, innovative thinking, and understanding of client objectives throughout his experience.

Mr. Olivo has been a key advocate in urban infill development and the advancement of smart growth techniques. He has been the transportation engineer of record for numerous development and redevelopment plans.

Mr. Olivo has been qualified as a traffic and site Engineering Expert and provided testimony before approximately 100 Land Use Boards throughout the country. In addition, he has presented to client groups, public governing bodies, and civic associations to explain the impacts of private development/redevelopment projects and the proposed improvement/mitigation measures associated with these projects.

Mr. Olivo's project experience includes traffic analysis, traffic signal and intersection improvement design, zoning review, site investigation and due diligence, concept preparation, stormwater management and stormwater conveyance system design, grading utility design, soil erosion and sediments, control design, and project coordination.

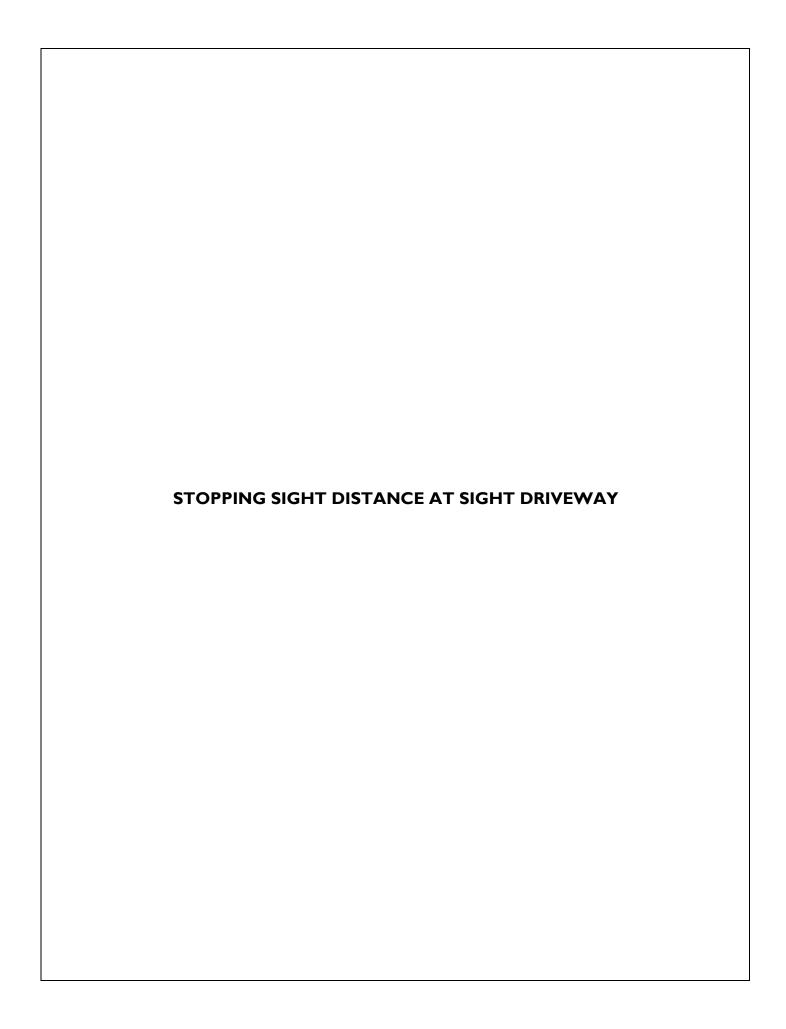




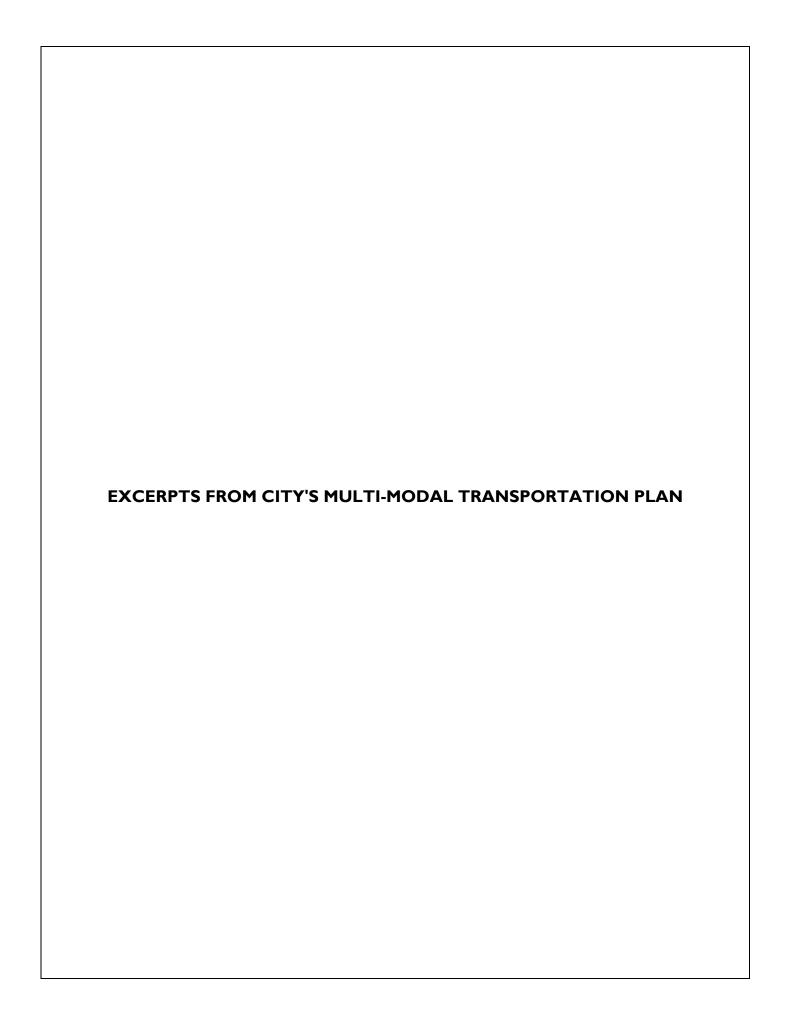
FORM A - TRAFFIC STUDY QUESTIONNAIRE

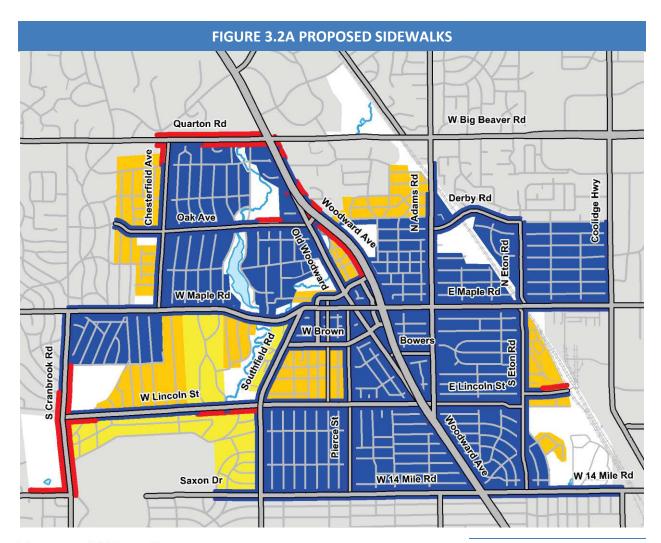
Applicant:	Case#:
Date: Add	dress:
1. Proposed Project	
Brief description of the propose	ed project:
Use of building(s):	Gross square footage:
	Net square footage:
	Number of parking spaces:
Site plan attached:	
2. Driveway Movements	(a.m. and p.m. peak hours)
Driveway:	Driveway:
Left In:	Left In:
Right In:	Right In:
Left Out:	Left Out:
Right Out:	Right Out:
Driveway:	Driveway:
	Left In:
Right In:	Right In:
Left Out:	Left Out:
Right Out:	Right Out:
0 Tuesday autotion Otamal	la mala
3. Transportation Stand	ards
TI	
	struction standards or where appropriate, County Road Commission and portation standards, identify the following:
Passing lanes:	
Turn Lanes:	

Evaluate sight distances at project driveways:	
Vehicle stacking analysis (if drive-up facilities are proposed):	









Proposed Sidewalks:

Existing Sidewalks

Prioirty 1: Complete Sidewalks along Major Roads

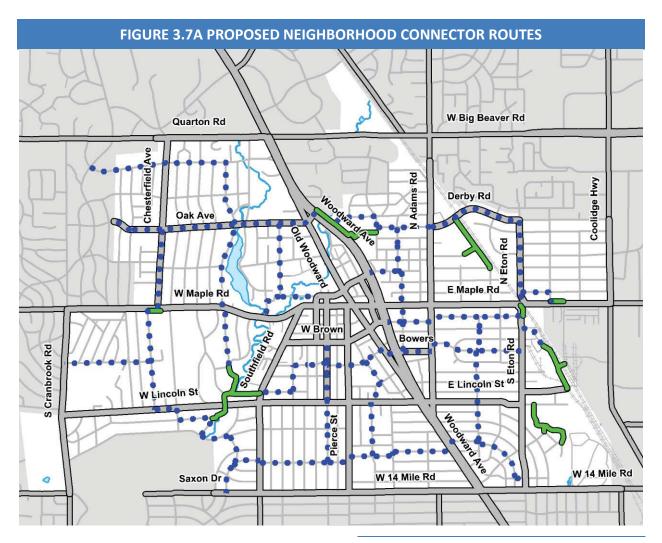
Prioirty 2: Complete Sidewalk Gaps in Neighborhood

Priority 3: Add Sidewalks to Neighborhood

APPROXIMATELY 2.5
MILES OF SIDEWALK ARE
PROPOSED ALONG
PRIMARY ROADS IN THE
CITY OF BIRMINGHAM

Web Survey Results:

- About 38% of respondents walk to work and/or the store daily or weekly
- About 80% of respondents walk for fun and/or exercise daily or weekly
- Around 79% of respondents feel a complete sidewalk system is very important to nonmotorized trips actually happening in the future



Proposed Neighborhood Connector Routes

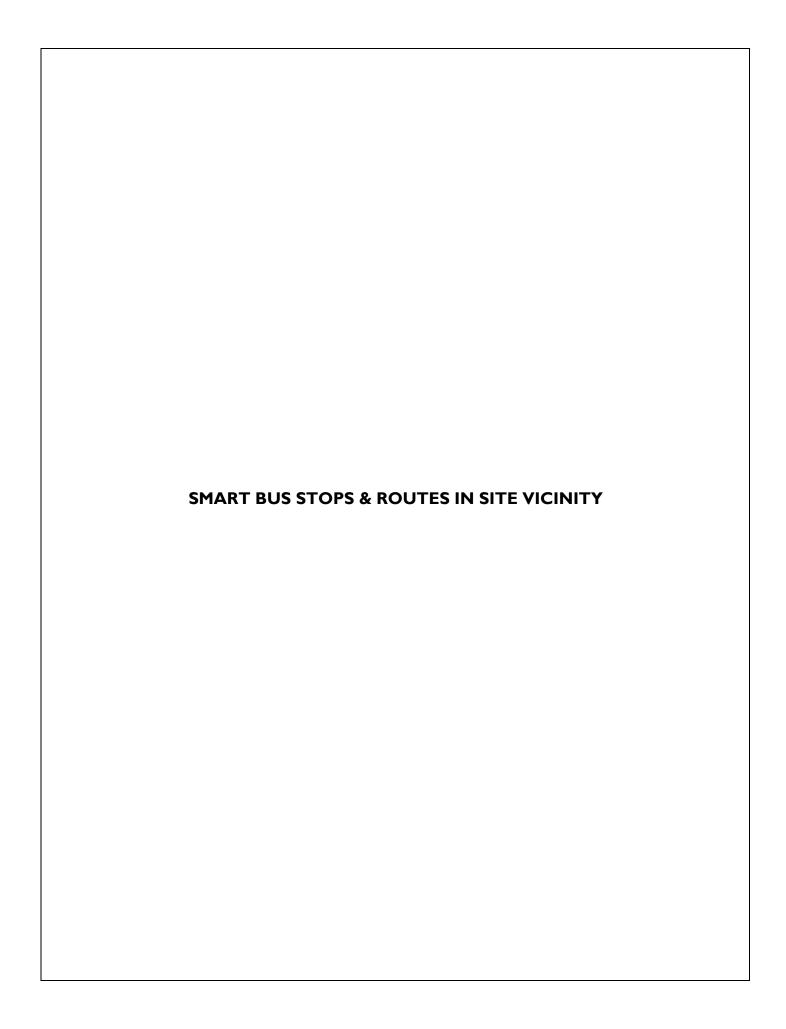
Proposed Routes on Local Roadways

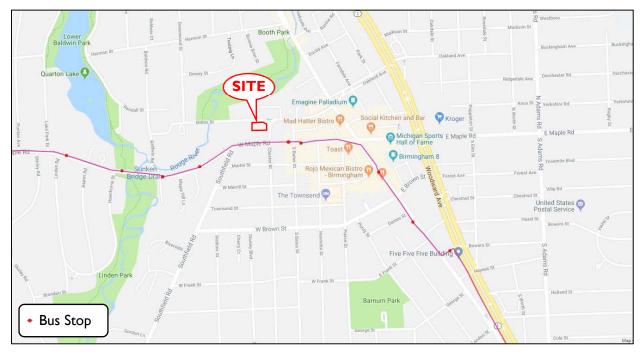
Proposed Off-Road Trail

APPROXIMATELY 15.4 MILES OF NEIGHBORHOOD CONNECTOR ROUTES AND 2.25 MILES OF PAVED OFF-ROAD TRAILS ARE PROPOSED

Web Survey Results:

 Around 73% of respondents would be comfortable riding a bike along a Bike Route on a Residential Road





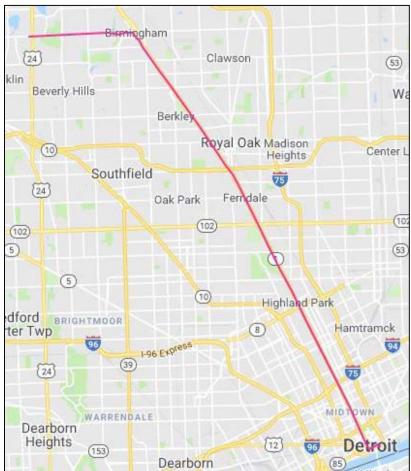
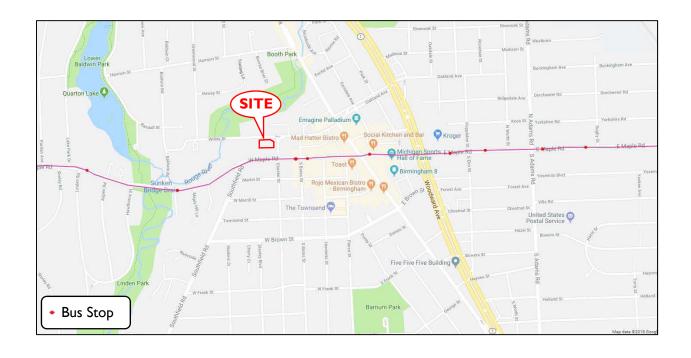


Figure 2A. SMART Bus Route 445: zoomed in (top) & zoomed out (bottom)



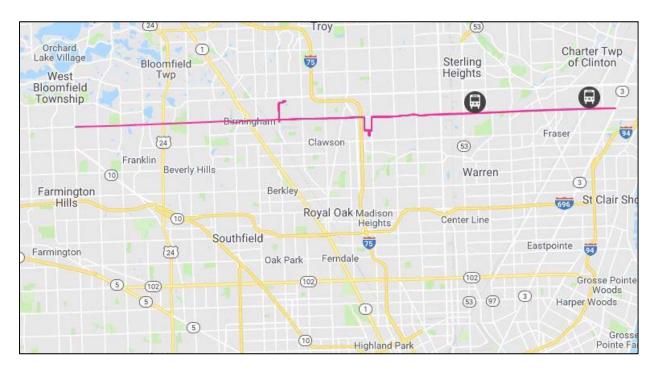
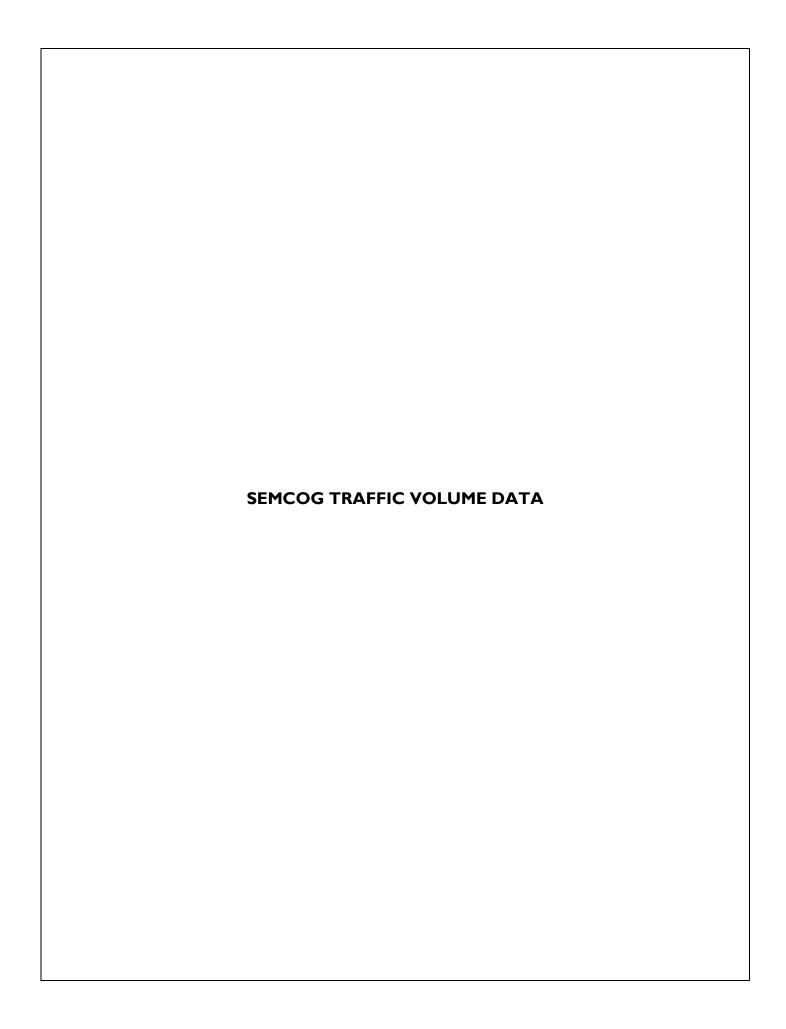
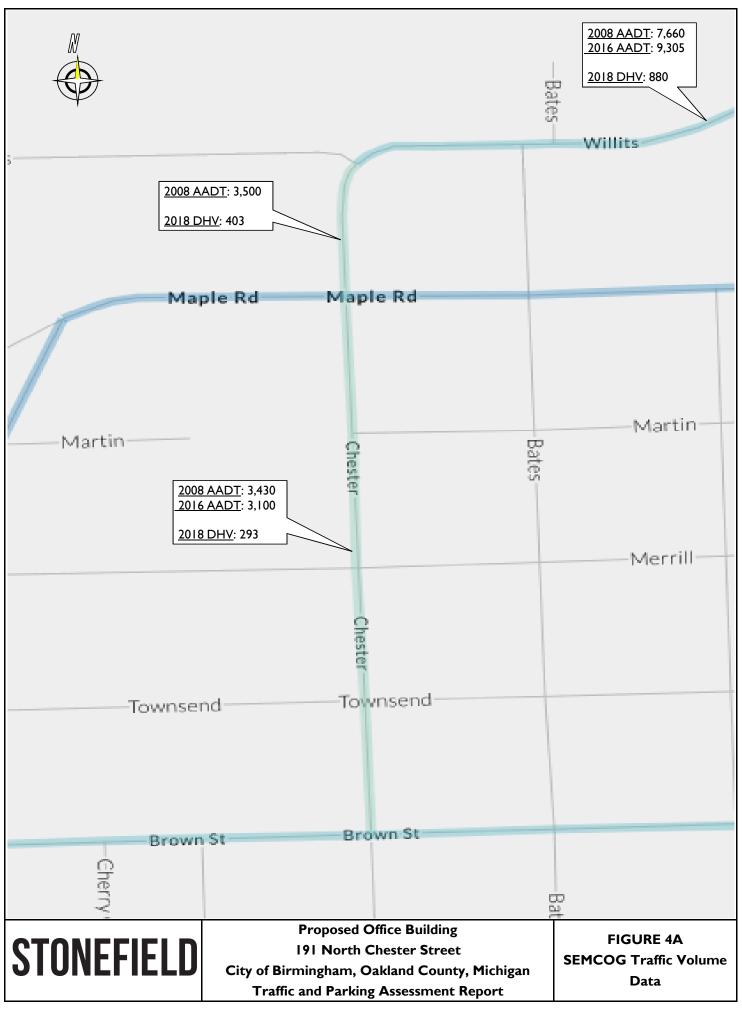


Figure 3A. SMART Bus Route 780: zoomed in (top) & zoomed out (bottom)





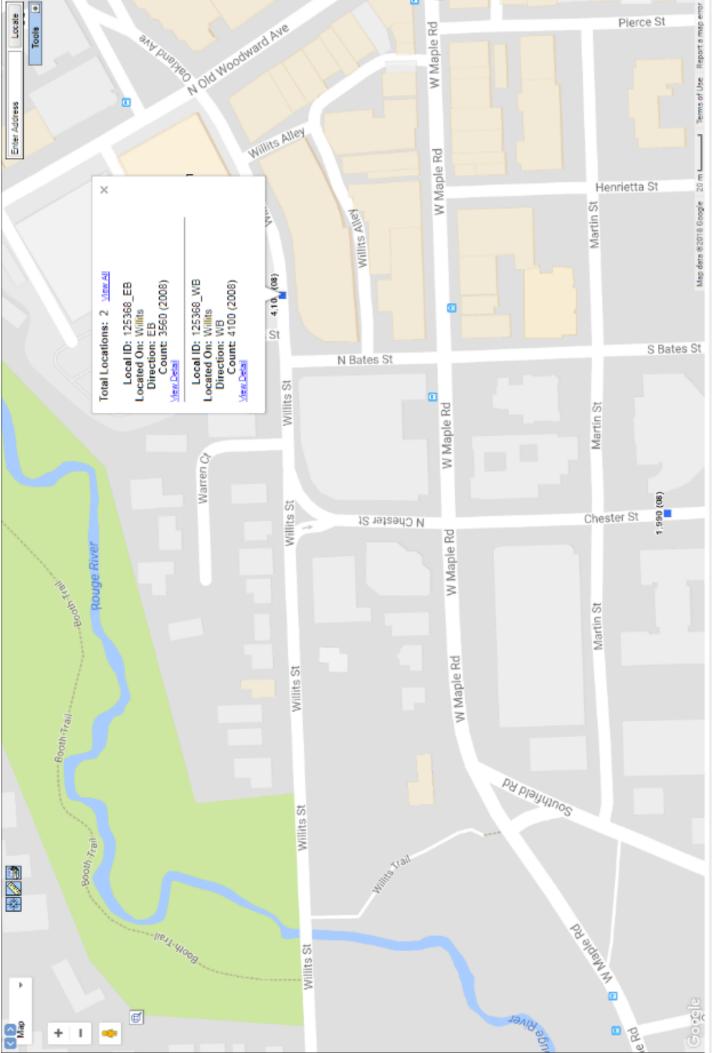
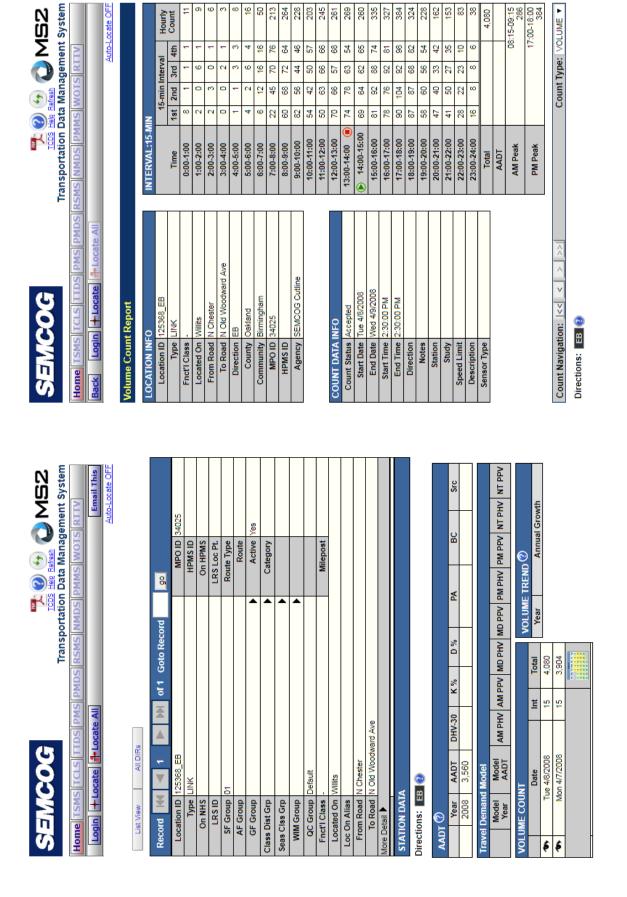


Figure 5A. 2008 Traffic Volume Data on Willits Street Between Old Woodward Avenue and Chester Street



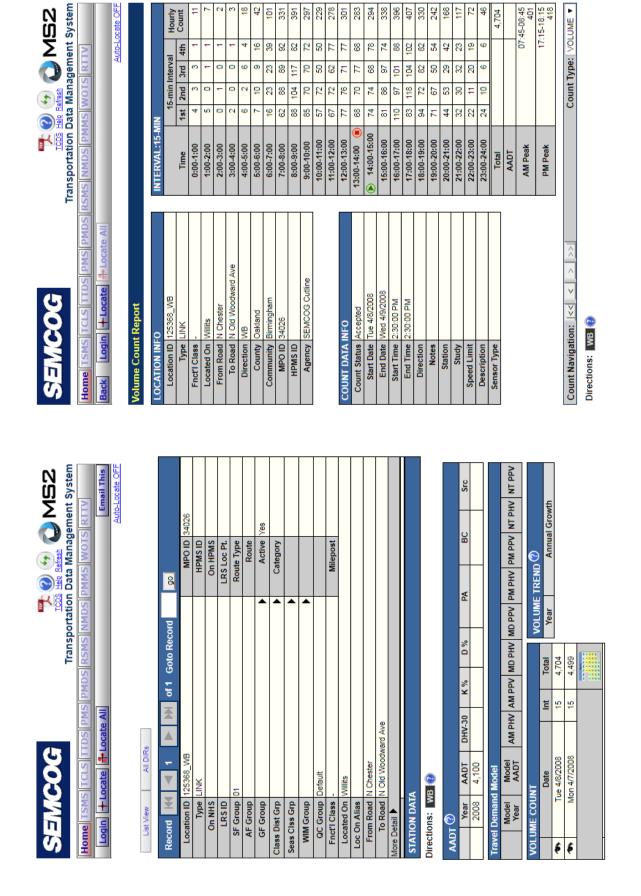
269 260 335 327 324 324

원 유

264 203 245 261

228 162 153

Figure 6A. 2008 Traffic Volume Data on Willits Street Between Old Woodward Avenue and Chester Street (Eastbound)



301 283 294 338 396

330 242 8

331

Hourly Count

391 297 278

Figure 7A. 2008 Traffic Volume Data on Willits Street Between Old Woodward Avenue and Chester Street (Westbound)

Traffic Volume

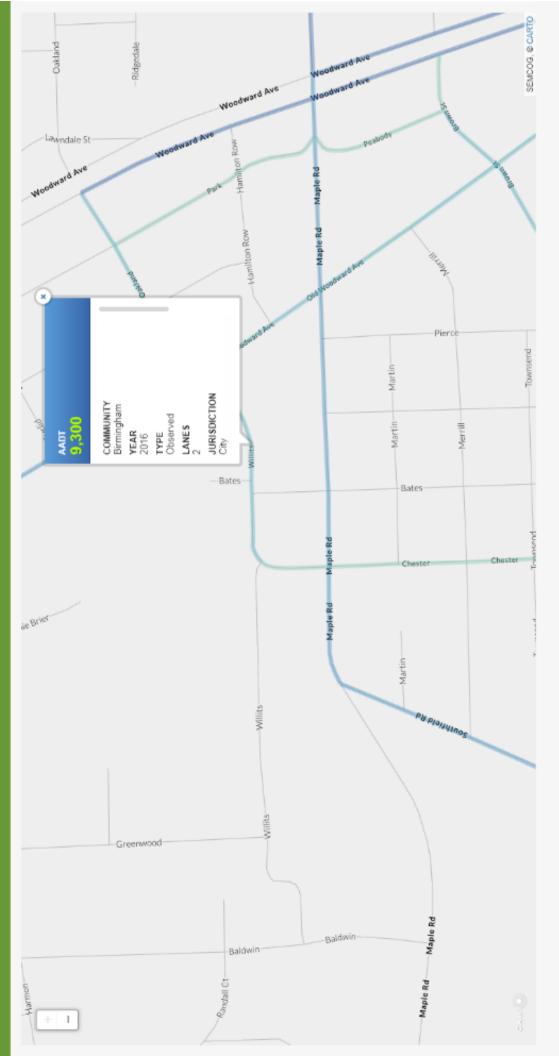


Figure 8A. 2016 Traffic Volume Data on Willits Street Between Old Woodward Avenue and Chester Street

Traffic Volume

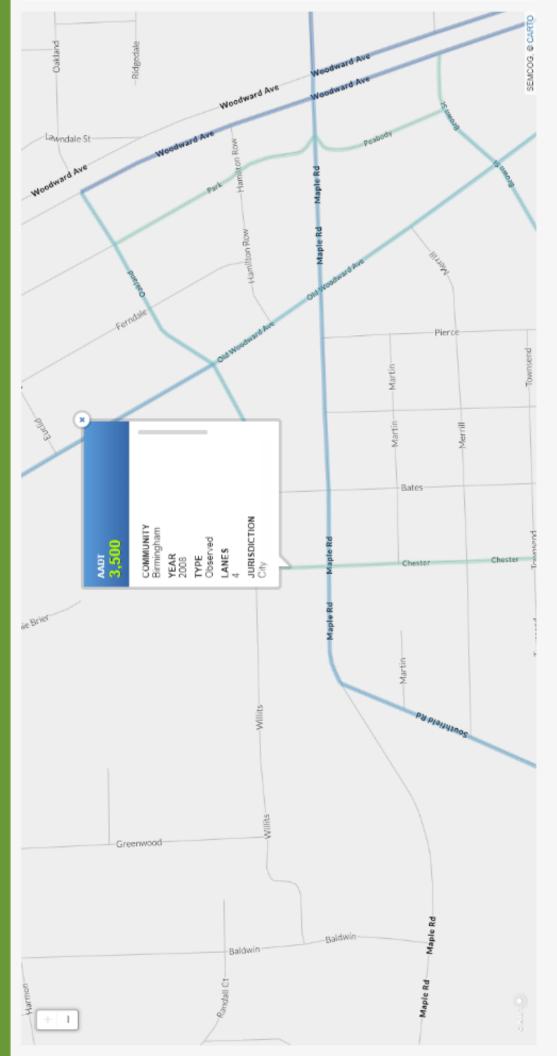


Figure 9A. 2008 Traffic Volume Data on Chester Street Between Willits Street and Maple Road

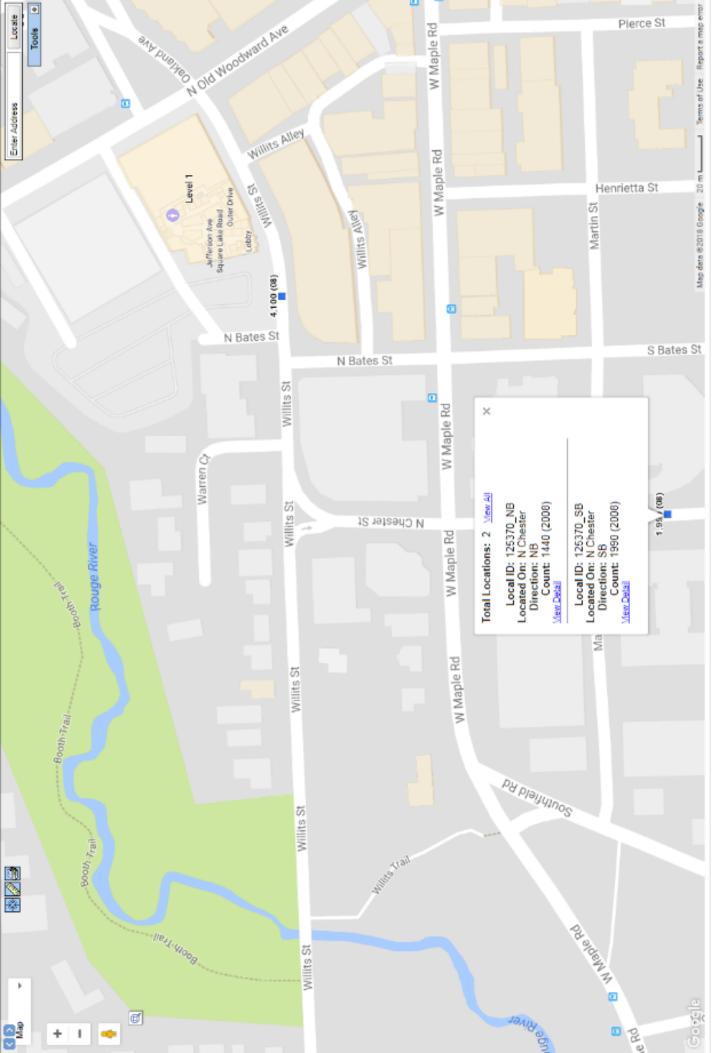


Figure 10A. 2008 Traffic Volume Data on Chester Street Between Maple Road and Brown Street

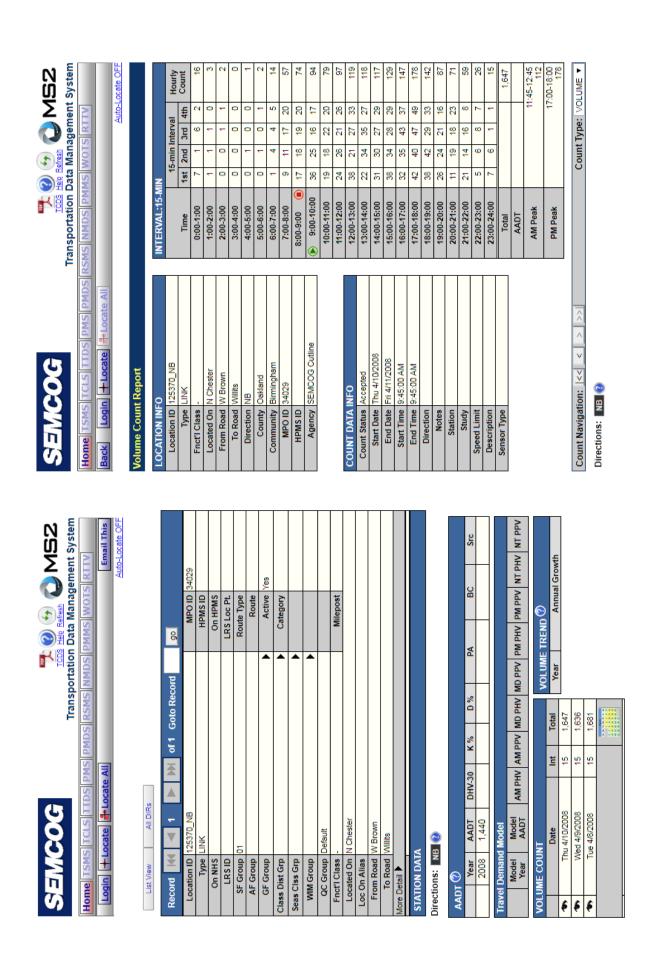


Figure 11A. 2008 Traffic Volume Data on Chester Street Between Maple Road and Brown Street (Northbound)

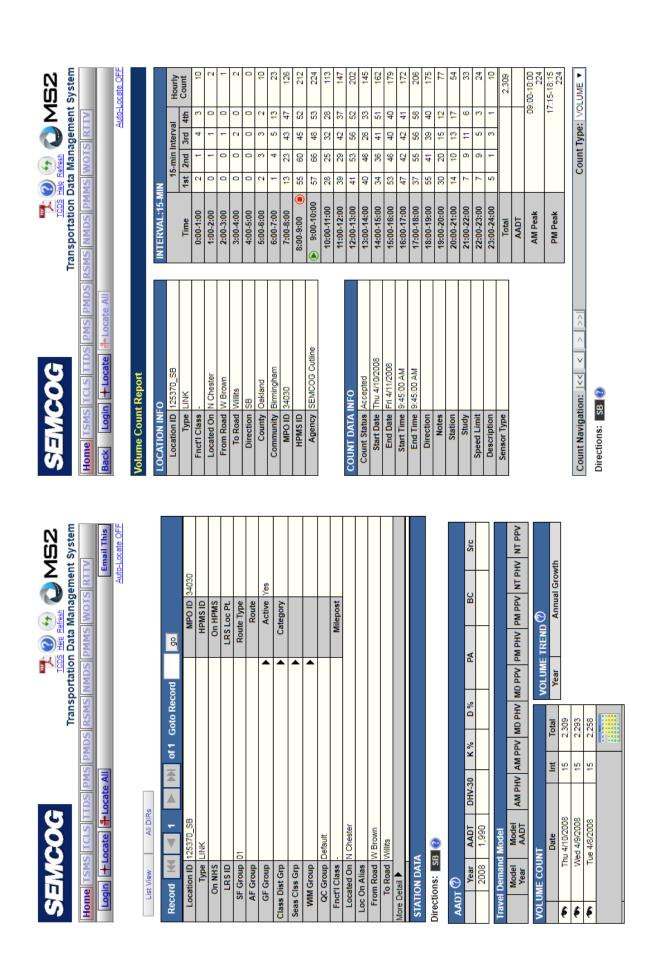


Figure 12A. 2008 Traffic Volume Data on Chester Street Between Maple Road and Brown Street (Southbound)

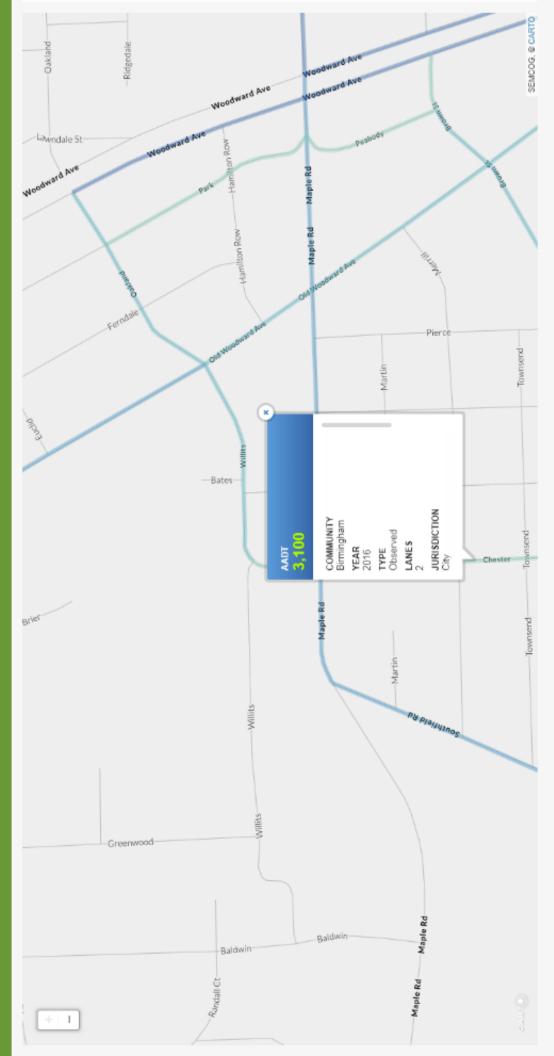


Figure 13A. 2016 Traffic Volume Data on Chester Street Between Maple Road and Brown Street



30553 Wixom Road, Suite 500 • Wixom, Michigan 48393 • Voice: 248.926.3800 • Fax: 248.926.3838 12330 Perry Highway, Suite 240 • Wexford, PA 15090 • Voice: 412.463.6576

April 2, 2015

Chester Street Partners, LLC Attn: Mr. Rob Krochmal 320 Martin Street, Suite 100 Birmingham, Michigan 48009

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT FIRST CHURCH OF CHRIST SCIENTIST PROPERTY 191 N. CHESTER SREET BIRMINGHAM, MICHIGAN PERFORMANCE PROJECT # 151226

Dear Mr. Krochmal:

Performance Environmental Services, Inc. (*Performance*) completed a Phase I Environmental Site Assessment Report for the above referenced property.

Performance personnel conducted these professional services in accordance with customary principles and practices in the area of environmental science and engineering, and in general conformance with the American Society for Testing Materials (ASTM) E 1527-13, Standard Practice for Conducting Environmental Site Assessments and is intended to comply with USEPA All Appropriate Inquiry (AAI) guidelines.

Attached, please find the Phase I Environmental Site Assessment Report. If there are any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

PERFORMANCE ENVIRONMENTAL SERVICES, INC.

Julie Pratt

Senior Project Professional

Dennis A. Wood

Senior Project Manager

JAP/DAW:jap

Attachments

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City Directory Abstract

Appendix 9

1.0 SUMMARY

Mr. Rob Krochmal representing Chester Street Partners, LLC contracted Performance Environmental Services, Inc. (*Performance*) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 191 N. Chester Street in Birmingham, Oakland County, Michigan. *Performance* was contracted to evaluate the study property and visually evaluate surrounding properties for the presence of environmental concerns. The purpose of the Phase I ESA study was to establish an information base for assessing the likelihood of potential environmental concerns at the subject property. Mr. Krochmal has indicated that the Phase I ESA is being conducted to evaluate present and past environmental conditions as a part of due diligence activities related to a real estate transaction (acquisition, potential financing and possible redevelopment) involving the subject site.

Performance conducted this Phase I ESA in order to provide a professional opinion of the possible presence of Recognized Environmental Conditions (hereafter referred to as "RECs") or other possible environmental concerns, if any, associated with the subject site. This Phase I ESA was conducted in general conformance with the American Society for Testing Materials (ASTM) E 1527-13, Standard Practice for Conducting Environmental Site Assessments and is intended to comply with USEPA All Appropriate Inquiry (AAI) guidelines.

As defined in the ASTM Designation E 1527-13, the term *Recognized Environmental Condition* means, "..."the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

Based on historical documentation, the first developed use of the property appears to be residential, with date of development sometime prior to 1921. The subject property was developed for religious use in the 1920's. The church building has been expanded and remolded over time, with current use remaining a religious institution. A review of historical documentation and municipal records did not identify any use, storage and/or handling of petroleum products or other hazardous materials at the subject property, with the exception of a former heating oil UST system formerly located on the property.

Performance submitted a Freedom of Information Act request to the Remediation Redevelopment Division (RRD) of the Michigan Department of Environmental Quality (MDEQ). Limited file documentation was available, including a Site Assessment / Closure Report, generated by Enkon Environmental Services, dated October 31, 1990. According to the report, Enkon was retained to provide site assessment during removal of a 1,000 gallon heating oil UST located at the subject property. The underground storage tank was buried beneath the front lawn, immediately adjacent to the southeast corner of the building. The report noted that the steel walls and galvanized product lines were in good shape based on observations at the time of removal.

As the tank was uncovered, soil samples were field screened for volatile organic compounds. Evidence of PID readings ranged from 10 ppm to 125 ppm. Grab samples collected from the cavity subsequent to tank removed indicated no evidence of VOCs. A total of six soil samples were collected for analysis for BEX and PNAs. Depths of the samples were not provided, but included sidewall and bottom excavation

samples. It was concluded by Enkon that other than the overburden soils (estimated 50 cubic yards), no contamination was encountered. The contaminated soils were disposed of offsite.

Based on available environmental site assessment research obtained and reviewed and visual observations of the study property and surrounding properties, *Performance* concludes there are no known recognized environmental conditions (REC's) on the study property or on adjoining properties with the potential to impact the study property.

Site assessment activities were conducted associated with the former UST system. Evidence of minimal contamination was observed at the time of removal in overburden soils formerly located on top of the former UST, which were apparently removed and disposed offsite. Subsequent excavation verification samples collected from the excavation bottom and sidewalls indicated no evidence of contamination was present. A Closure Report / Site Assessment Report was prepared concluding no further assessment was necessary to address the former heating oil UST system.

In accordance with ASTM Standard 1527-13, based on available environmental site assessment research obtained and reviewed and visual observations of the study property and surrounding properties, *Performance* concludes there are no known REC's on the study property or on adjoining properties with the potential to impact the study property. The heating oil UST is considered a Historical REC (HREC). By definition, an HREC includes a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Based on the sampling conducted and associated laboratory analysis, the presence of the former heating oil UST is a Historical REC (HREC). The HREC does not present a current REC.

2.0 INTRODUCTION

Mr. Rob Krochmal on behalf of Chester Street Partners, LLC contracted Performance Environmental Services, Inc. (*Performance*) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 191 N. Chester Street in Birmingham, Oakland County, Michigan. Refer to Plate I in Appendix 1, Site Location Map, for general site location.

The subject site is described by the U.S. Geological Survey as being in Township 2 North, Range 10 East, Section 25, City of Birmingham, Oakland County, Michigan. The subject property is located on the southwest corner of Willits Street and N. Chester Street, having an address of 191 N. Chester Street. The following information was obtained from the City of Birmingham Assessing Department:

Property ID #	Known Address	Current Occupant
08-19-25-356-023	191 N. Chester Street	First Church of Christ Scientist

Performance was contracted to evaluate the study property and visually evaluate surrounding properties for the presence of environmental concerns. The purpose of the Phase I ESA study was to establish an information base for assessing the likelihood of potential environmental conditions at the subject property. The Phase I ESA is being conducted to evaluate present and past environmental conditions as a part of due diligence activities related to a real estate transaction (acquisition, potential financing) involving the subject site.

Performance conducted the Phase I ESA in order to provide a professional opinion of the possible presence of Recognized Environmental Conditions (hereafter referred to as "RECs") or other possible environmental concerns, if any, associated with the subject site. The Phase I ESA was conducted in general conformance with the American Society for Testing Materials (ASTM) E 1527-13, Standard Practice for Conducting Environmental Site Assessments and is intended to comply with USEPA All Appropriate Inquiry (AAI) guidelines.

As defined in the ASTM Designation E 1527-13, the term *Recognized Environmental Condition* means, "..."the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

The following report summarizes *Performance's* evaluations and conclusions based upon its environmental site assessment research and field activities.

2.1 Reliance

The information and opinions included in this report are for the exclusive use of Chester Street Partners, LLC. Any other parties seeking reliance upon this report must obtain prior written approval from *Performance* for such reliance. *Performance* specifically disclaims any and all claims by parties claiming as a third party beneficiary.

3.0 SCOPE OF WORK

To assess the likelihood of potential environmental concerns at and surrounding the subject property, *Performance* conducted the following activities:

- A review of the study property legal description and available site maps and USGS maps.
- A field survey of the study site for evidence of site contamination. Performance visually surveyed the subject property to identify potential sources of soil and/or water contamination. This site survey included an examination of the area for evidence of chemical and/or hazardous substances or waste, an accumulation of solid waste, PCB-containing transformers and fluids, above ground and underground storage tanks, potential asbestos-containing materials, potential lead based paint, stressed vegetation, stained or discolored soil/pavement/flooring and/or surface water, or other physical characteristics that may indicate the potential for environmental concern. Color photographs were taken to document site conditions at the time of the survey.
- An examination of available radon data for the study property area in order to determine the potential for radon concerns.

- A visual assessment of the adjoining properties for the presence of environmental concerns with the
 potential to impact the study property including industrial shops, gas service stations, disposal
 facilities, or other land usage that may indicate the potential for environmental concern.
- An examination of historical aerial photographs, topographic maps, Sanborn Maps, and city directories, when available, of the study property and surrounding areas to identify prior land usage that may indicate the potential for environmental concern.
- An examination of previous environmental reports, when made available by Client, generated for the subject property.
- An examination of title documentation for the study property, when made available by Client, to
 identify previous business concerns or land use restrictions with the potential to impact the study
 property.
- A review of available environmental documentation within distances as specified in the ASTM standard E1527-13, concerning local environmental contamination events. As a part of *Performance's* regulatory record review, an environmental regulatory report was obtained from Environmental Data Resources, Inc. (EDR). The EDR report is a tabulation of data from records compiled by Local, State and Federal Government Agencies.
- Interviews with the current or previous site owner and/or building manager (if available), and
 interviews and/or Freedom of Information Act (FOIA) requests to the city and/or township, county and
 state regulatory officials that may indicate the potential for environmental concerns to be present.

3.1 <u>Limitations/Qualifications</u>

Performance personnel conducted these professional services in accordance with customary principles and practices in the area of environmental science and engineering, and in general conformance with the American Society for Testing Materials (ASTM) E 1527-13, Standard Practice for Conducting Environmental Site Assessments and is intended to comply with USEPA All Appropriate Inquiry (AAI) guidelines. Performance has made appropriate inquiry with regard to the presence of hazardous materials or petroleum products in the environments at the study property based upon the Scope of Work. The conclusions presented in the report were based solely on the services described herein and not on scientific tasks or procedures beyond the scope of work or on the time or budgetary constraints imposed by the client. Performance is not to be held responsible for the independent findings, opinions or recommendations made by others based on the field inspection and regulatory and title search data documented by this report.

Please note that all environmental assessments conducted by surficial evaluation are ultimately limited to the context that conclusions are developed and recommendations are made from data drawn from limited research, research time and site inspection. Subsurface conditions were not field investigated as part of this study. In addition, as time progresses, a change may occur in the environmental conditions at the study property and at the surrounding properties.

In preparing this report, *Performance* relied on specific information provided by federal, state, county, and/or local officials and other parties referenced herein and on available information reviewed in the files of federal, state, county, and/or local officials made available to

Performance personnel at the time and under the conditions noted. *Performance* did not attempt to independently verify the accuracy or completeness of the information received or reviewed during the course of this investigation.

In preparing this report, *Performance* did not make any specific attempts to check on the compliance of past or present previous owners of the site with respect to any federal, state, county, and/or local laws or regulations, environmental or otherwise. Compliance issues are most accurately addressed with the completion of a Regulatory Compliance Audit, which is outside the scope of work for this investigation.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, water infiltration, mold and wetlands. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues.

Concurrent with the Phase I ESA, *Performance* personnel conducted a survey for the potential presence of suspect asbestos-containing materials (ACMs). This hazardous materials assessment is not included as a part of the Phase I ESA, but is available under separate cover.

Client agrees that in the event information regarding environmental or other hazardous waste issues at the study property that were known by the client or that come to the attention of the client or client's agent upon completion of this investigation, such information will be brought to the attention of *Performance*. *Performance* reserves the right to evaluate such information and based on this evaluation, modify the conclusions stated in the report.

3.2 Limiting Conditions/Data Gaps

Performance has evaluated the information obtained during the completion of the Phase I ESA and has identified the following limiting conditions, deviations, exceptions, data failures and/or significant data gaps:

- *Performance* was only able to obtain a limited amount of historical Assessing, Building and Fire Department Records from the respective sources.
- Performance was granted access to the readily accessible portions of the property. Performance only conducted a visual observation of the areas safely accessible and did not access the roof area.
- Performance requested information relative to deed restrictions and environmental liens, and a title search from the Report User. This information was not provided at the time of the assessment. The lack of title abstract or chain of title documentation limited identification of prior owners and any encumbrances.
- Performance provided the Client with a User Questionnaire and owner/operator/occupant questionnaire to be completed. This information was not provided to Performance to assist in completion of the assessment.

 The following sources were reviewed during the course of this assessment and found to be limited: aerial photographs were not available prior to 1937; city directories were not available prior to 1973; topographic maps prior to 1908 were not reasonably ascertainable from local agencies; Sanborn maps provided limited coverage, and other historical sources did not provide coverage of the subject property.

Based on the results of *Performance* assessment and the additional information gathered, no further investigation appears warranted to address these data gaps as *Performance* was able to draw a conclusion in regard to the prior use of the subject site from other sources. The remaining data gaps were not determined to be material in identifying a Recognized Environmental Conditions (RECs) they are not considered by ASTM standards to be significant and therefore, are not individually addressed in this report.

4.0 PHYSICAL SITE CHARACTERIZATION

The subject site is described by the U.S. Geological Survey as being in Township 2 North, Range 10 East, Section 25, City of Birmingham, Oakland County, Michigan. The subject property is located on the southwest corner of Willits Street and N. Chester Street, having an address of 191 N. Chester Street. The following information was obtained from the City of Birmingham Assessing Department:

Property ID #	Known Address	Current Occupant
08-19-25-356-023	191 N. Chester Street	First Church of Christ Scientist

4.1 Current Land Use

The subject property consists of a multi-story commercial building containing offices, meeting rooms, worship center and utility/maintenance rooms. The site is currently used for religious purposes, operated by the First Church of Christ, Scientist. The building encompasses most of the property, with some green space and landscaping to the north, east and west of the building. A paved driveway is situated south of the property. Refer to Plate II, Aerial Site Map in Appendix 1 for additional site details.

4.2 Current Surrounding Properties Land Use

The subject property is located on the southwest corner of Willits Street N. Chester Street, one block north of Maple Road. Surrounding properties include commercial and residential development. The following table provides information regarding adjoining properties:

Direction from Subject Site	Comments
North	Residential dwellings
South	Commercial Offices, residential dwelling and barn
East	Parking structures, commercial offices
West	Residential dwelling

4.3 Topography

The United States Geological Survey (USGS) Birmingham, Michigan Quadrangle 7.5-minute series topographic map dated 1981, photo-revised from 1968, was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 780 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping toward the northwest. The subject property is depicted on the 1981 map as urban land.

Performance personnel referenced the USGS Maps to determine the distance and direction to the nearest body of water. The USGS Map indicated the closest water body to the study property appears to be the River Rouge, approximately 500 feet west of the site. At the time of the site visit, the topography of the site indicated a gently slope to the west/northwest. Refer to Plate I, Site Location Map in Appendix 1 for the USGS Map.

4.4 Hydrogeology

According to topographic map interpretation, the direction of groundwater in the vicinity of the subject property is inferred to flow to the northwest. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed on the subject property during this assessment. According to available information, the subject property and surrounding properties utilize a public water system operated by the City of Birmingham.

4.5 Geology

The EDR Radius Report included a review of the United States Department of Agriculture (USDA) Soil Conservation Survey of Oakland County, Michigan. The soil in the area of the subject site is classified as comprised primarily of the Urban Land. This association is generally described as variable soils near the surface. A copy of the soils information is presented in the EDR Radius report included as an appendix to this report.

According to the online MDEQ GeoWebFace program (http://ww2.deq.state.mi.us/GeoWebFace) the general area of the subject site is identified as "Lacustrine Clay and Silt" and bedrock in the general area of the subject site is identified as "Coldwater Shale".

5.0 SITE RECONNAISSANCE

Performance personnel conducted a walk-through evaluation of the study property on March 5, 2015. Performance personnel traversed the property to identify areas of potential environmental concern. Performance was accompanied during the site walk. This section details the characteristics of the study property as observed on March 5, 2015, by Julie Anna Pratt, Senior Project Professional with Performance.

5.1 General Site Characteristics

At the time of the site walk, the study property consisted of the Church of Christ Scientist, an active religious building. *Performance* did not observe the study property to be utilized as a gasoline station, motor repair facility, commercial printing facility, dry cleaner, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility.

Vehicle access to the site is limited, as the site is located in the heavily developed downtown Birmingham area. A small driveway and parking area is located at the northwest corner of the site. The building encompasses most of the property, with some landscape and grass adjoining the building to the north, east and west.

Refer to Appendix 2 for Site Photographs of the subject property.

5.2 Potential Environmental Concerns

5.2.1 Chemical Use, Storage, and/or Waste Management

Performance personnel visually evaluated the study property to identify areas of chemical use, storage, and/or waste management. At the time of the site visit, the property was an active religious building. There was no evidence of the current use or storage of petroleum products or hazardous materials in significant quantities on the subject site. Small quantities of some chemicals and cleaners consistent with general commercial uses were noted stored in the building interior.

5.2.2 Above Ground/Underground Storage Tanks

Performance personnel conducted a visual evaluation of the study property to identify the absence or presence of any above ground storage tanks (ASTs) or underground storage tanks (USTs). Performance personnel did not observe obvious evidence of any former or current ASTs or USTs on the study property. Performance did observe one unexplained, capped steel pipe extending from beneath the basement floor near the southeast corner of the building.

The lack of visible evidence of USTs, and the fact that the individuals and agencies identified in this report may not be aware of, or did not have record of, the presence of any USTs, does not preclude the possibility that USTs could be present at the subject site. Visible evidence of USTs, such as fill ports or vent pipes, may have been obscured from view, and a UST could have been used at the subject site property without the knowledge of the current owner/operator, site contact, or government agency.

5.2.3 <u>Surficial Evaluation (staining, corrosion, stressed vegetation, pools of liquid)</u>

Performance did not observe any obvious soil staining, corrosion or surface water contamination (i.e., discoloration, sheen) at the subject site. Snow covered the exterior of the subject property, limiting observations.

5.2.4 Odors

Performance did not observe any obvious odors at the subject site.

5.2.5 Drains/Sumps

Performance did observe interior floor drains and an apparent sump on the subject property. The apparent sump was identified in the utility/mechanical room near the southeast portion of the property (adjacent to current Sunday school children's area). Visual evaluation of the drains did not identify any unusual staining, sheen or debris. The apparent sump like structure was dry, with no unusual staining, sheen or debris.

5.2.6 Pits/Ponds/Lagoons

Performance did not observe any pits, ponds or lagoons at the subject site.

5.2.7 Excavation/landfilling

Performance did not observe any visually obvious areas of landfilling activities at the subject site.

5.2.8 PCB Transformers and Fluids

Performance personnel conducted a visual evaluation of the study property to identify the absence or presence of any PCB-containing fluids or electrical equipment, including transformers. The various switches and/or equipment located in the study property building were observed to be in good condition, with no evidence of leaks or staining.

Performance personnel observed fluorescent light ballasts located throughout the study property building. Performance personnel did not inspect the light ballasts to determine if the light ballasts were PCB containing. However, based on the age of the study property building, Performance considers the fluorescent light ballasts to possess the potential to contain PCB fluids.

The typically accepted industry phase-out date for the use of PCBs in electrical equipment is 1979. Based on the date of construction, the presence of PCBs on the subject property is possible.

5.2.9 Solid Waste Management

Performance personnel visually evaluated the study property to identify areas of solid waste management. A dumpster was observed immediately south of the church building adjacent to the adjoining farm building. No issues associated with illicit dumping or other concerns were noted.

5.2.10 Utilities

The facility is serviced by the City of Birmingham public water and sewer. There are no known water supply wells or septic system on the property or adjoining properties. According to the Michigan Public Service Commission (MPSC), electricity to the subject property is provided by DTE Energy Company (DTE) and natural gas is supplied by Consumers Energy.

5.3 Non-ASTM Scope Considerations

5.3.1 Asbestos-Containing Materials

Pursuant to the Code of Federal Regulations 29 CFR 1926.1101 and 1910.1001, surfacing materials and thermal system insulation in buildings constructed *prior to January 1, 1981* must be presumed to be asbestos-containing materials (PACM). Also, asphalt and vinyl flooring material installed *prior to January 1, 1981* must be treated as asbestos-containing.

Based on the age of the study property building, *Performance* personnel's visual observation, information obtained other sources, and current regulations, *Performance* considers the building to possess a high potential to contain ACMs.

Employers or building owners may demonstrate that PACM do not contain asbestos by properly testing the materials in accordance with the OSHA standards. In addition, the OSHA regulations require building owners to exercise due diligence to inform employers and employees about the presence and location of ACM and PACM. Additionally, OSHA standards require building and facility owners to maintain records concerning the presence, location and quantity of ACM and PACM in the building/facility.

Concurrent with the Phase I ESA, *Performance* personnel conducted a survey for the potential presence of suspect asbestos-containing materials (ACMs). This hazardous materials assessment is not included as a part of the Phase I ESA, but is available under separate cover.

5.3.2 Lead-Based Paint

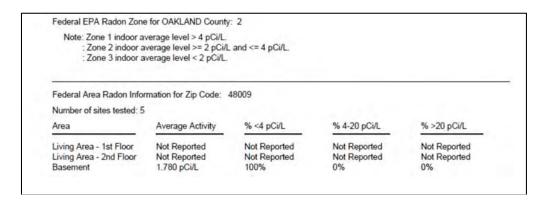
Buildings constructed prior to 1978 have an increased potential to contain lead-based paint. Lead was a major ingredient in most oil interior and exterior paints prior to 1950. In the early 1950s, other ingredients became more popular, but some lead pigments,

corrosion inhibitors, and drying agents were still commonly used. Lead was first regulated in residential paint in 1972 at 0.5 percent and "banned" in 1978, meaning that paint could contain no more than 0.06 percent lead by dry weight.

Performance personnel observed the portions of the interior and exterior of the study property building to have been painted. Based on the age of the study property building, *Performance's* observations and current regulation, Performance considers the study property building to possess a high potential to contain lead based paint.

5.3.3 <u>Radon</u>

Performance personnel reviewed radon-testing documentation summarized in the EDR Radius Report. Performance evaluated the radon information for Zip Code 48009 in Birmingham, Oakland County, which participated in the radon study.



The radon results for the City of Birmingham showed that the study property is in a Zone 2 Federal EPA Radon Zone. The indoor average radon level is less than 4.0 picocuries/liter (piC/L) of air and greater than 2.0 piC/L.

Local radon gas concentrations can vary substantially with permeability and type of soils, points of entry, and type of ventilation within a building. The only way to determine the absence or presence of radon is to perform a radon test.

5.3.4 Water Intrusion

Performance did not observe obvious evidence of water intrusion inside the structure on the subject site. No standing water or current moisture was observed.

A cursory visual evaluation for water intrusion was performed to provide a general indication of obvious potential for its presence, and the cursory visual evaluation is not considered a comprehensive investigation.

5.3.5 Wetlands/Surface Water

Performance personnel conducted a visual evaluation of the study property to identify the potential presence of wetland areas or habitat, and *Performance* personnel observed none on the subject property.

5.4 Adjoining Properties Land Use

Performance personnel conducted a visual assessment of the adjoining properties as feasible from the subject property and public road right-of-ways in order to identify any businesses with the potential to impact the study property.

Adjoining properties include commercial businesses and residential dwellings, with no obvious signs or evidence of the use, storage and/or handling of petroleum products or hazardous materials.

The adjoining properties *may* utilize chemicals and petroleum products and/or generate chemical and petroleum wastes, which can impact soil and groundwater. Currently, *Performance* has no knowledge of actual environmental contamination emanating from any adjoining or nearby properties.

6.0 USER PROVIDED INFORMATION

Performance provided a User Questionnaire to the prospective purchaser for completion. A completed User Questionnaire has not been received as of the date of this report.

6.1 Title Records, Environmental Liens and AULs

Performance was not provided with any title documentation or other documentation indicating the presence of environmental liens or property use restrictions on the subject site.

6.2 Specialized Knowledge

The User did not provide any information regarding specialized knowledge regarding the study property or former property usage. At the time of the site visit, Mr. Krochmal did provide visual observation of historical building plans and blueprints, showing the former heating oil UST system located at the southeast portion of the site. In addition, Mr. Krochmal had copies of waste disposal manifests and indicated he would forward copies to *Performances* attention. Copies of the requested documentation have not been received as of the date of this report.

6.3 Actual Knowledge of the User

The User indicated that he has no actual knowledge regarding the study property. The extent of former known usage included use as the Church of Christ Scientist.

6.4 Valuation Reduction for Environmental Issues

Performance was not provided with any evidence that indicated that a valuation reduction has occurred in this property transaction due to environmental issues at the subject site.

6.5 Commonly Known or Reasonably Ascertainable Information

Performance was not provided with any commonly known or reasonably ascertainable information regarding any environmental issues at the subject site.

6.6 Previous Reports and Other Provided Documentation

Performance was not provided with any previous reports or other documentation regarding the subject site.

7.0 INTERVIEWS

Performance provided an ASTM Transaction Screen Questionnaire to the Client to be forwarded to the current property owner for completion. As of the date of this report, a completed questionnaire has not been completed. At the time of the site visit, an owner/operator representative was not present at the site.

7.1 Interview with Owner

An ASTM Transaction Screen questionnaire was not received. Owner contact information was not provided.

7.2 Interview with User

An ASTM Transaction Screen questionnaire was not received from the User.

7.3 <u>Interview with Site Manager</u>

An ASTM Transaction Screen questionnaire was not received. Site operator contact information was not provided.

7.4 Interviews with Past Owners, Operators and Occupants

An ASTM Transaction Screen questionnaire was not received. Contact information for past owners, operators and/or occupants was not provided.

7.5 Interviews with Others

No interviews, other than those provided in the Phase I ESA, were conducted by *Performance*.

8.0 REGULATORY AGENCY INFORMATION

8.1 Standard Federal, State and Tribal Environmental Database Record Sources

As a part of *Performance's* regulatory record review, an environmental regulatory report was ordered from Environmental Data Resources, Inc. (EDR). The EDR report is a tabulation of data from the federal U.S. Environmental Protection Agency (USEPA), the Michigan Department of Environmental Quality (MDEQ) and the County Environmental Health Department's records. The record review includes, but is not limited to, research and information from the following databases:

- Federal, State and Tribal National Priorities List (NPL) records and delisted records;
- Federal, State and Tribal Comprehensive Environmental Response, Compensation and Liability Index System (CERCLIS) records;
- Federal Cerclis NFRAP list;
- Federal Resource, Conservation and Recovery Act (RCRA) CORRACTS Facilities List;
- Federal RCRA non-CORRACTS TSD facility list;
- Federal RCRA Generators List;
- Federal Institutional Control/Engineering Control registries;
- Federal Emergency Response Notification System (ERNS) list;
- State and Tribal Hazardous Waste Sites (SHWS);
- State and Tribal Landfill and/or solid waste disposal facilities;
- State and Tribal leaking underground storage tanks (LUST);
- State and Tribal registered underground storage tanks (RUST);
- State and Tribal Institutional Control/Engineering Control registries;
- State and Tribal volunteer cleanup sites; and,
- State and Tribal Brownfield Sites.

The EDR report searches government databases in accordance with the ASTM Standard for conducting Phase I Environmental Site Assessments. The ASTM Standard determines the search distances based on the potential of government database sites to impact the study property. A copy of the EDR report can be found in Appendix 4.

Performance reviewed EDR's *Radius Map with GeoCheck®* for the subject site and identified the following sites within the various ASTM radii:

- There are five known RCRA CESQG sites within one-quarter mile of the subject site;
- There are two known RCRA NonGen sites within one-quarter mile of the subject site;
- There are two known Brownfield sites within one-half mile of the subject site;
- There are two known AUL sites within one-half mile of the subject site;
- There are ten known LUST sites within one-half mile of the subject site;
- There are three known UST sites within one-quarter mile of the subject site;
- There are sixteen known INVENTORIES sites within one-half mile of the subject site; including the subject property.
- There are no known Part 201 sites within one-half mile of the subject site;
- There are seven known BEA sites within one-half mile of the subject site;
- The subject property is listed in the WDS database; and,
- There are three EDR Historical Auto Station sites within one-quarter mile of the subject site

Performance's review of the environmental databases considered the potential of contamination from adjoining and nearby sites. To evaluate which of the sites identified in the EDR report present a potential environmental risk to the subject site, *Performance* considered the following criteria: type of database on which the site was identified; location, direction, and distance of the site relative to the subject site; anticipated or known groundwater flow direction and soil conditions in the area; and, surface and subsurface obstructions and diversions present near the property.

The subject property was listed in the EDR database report: WDS and INVENTORY. The INVENTORY listing identified no listing for a BEA submittal, and identified it as a Part 201 Site. No additional information was provided. The WDS database listed the subject property as having an identification number. No additional information was provided regarding type of waste and absence/presence of any violations.

Several properties were identified within one-quarter of a mile from the property. Based on the distance from the site, as well as likely contaminants, these properties do not present an environmental concern to the subject property.

Performance also evaluated the Orphan list as presented in the EDR Radius Report. These are sites identified by EDR as having the potential to impact the subject property, but could not be located because of an incorrect or incomplete addresses. There were no orphan sites identified.

8.1.1 Vapor Migration

ASTM Standard E2600-10, Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, is a reference document in ASTM E1527-13. Vapor migration must also be considered no differently than contaminated groundwater

migration in the Phase I investigation. "Migrate" and "migration" are defined in E1527 as "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface."

In accordance with E2600-10, the screening process includes:

- Identification of any known or suspected contaminated sites with chemicals of concern within the area of concern (search distances are different for sites contaminated with non-petroleum hydrocarbons such as chlorinated volatile organics, versus sites contaminated with petroleum hydrocarbons);
- Evaluate for hydraulic or physical barriers between the subject property and the contaminated site; and
- Evaluate groundwater flow direction information to reduce the area of concern based on location in comparison to the subject property (i.e. up gradient, down gradient, or side gradient).

As discussed in the previous section, the subject property was identified as an Inventory and WDS site. Classification in these databases indicates the use, storage and handling of petroleum products and/or other hazardous materials. The extent of any spills or releases on the subject property is not known at this time.

Based on the absence of any sites of known contamination within the critical distance of the subject property, the potential for vapor migration onto the subject site from an adjoining or nearby site to impact the subject property is minimal.

8.2 Michigan Department of Environmental Quality File Review

The subject property was identified in the EDR Radius Report. *Performance* determined that an MDEQ FOIA file review was necessary for the subject property. *Performance* submitted a request to the Remediation and Redevelopment Division (RRD) and the Resource Management Group (RMG) of the MDEQ to conduct an in-house review of any available files for the subject property.

On Monday, March 16, 2015, an in-house review of available documentation was conducted. Limited file documentation was available. A Site Assessment / Closure Report, generated by Enkon Environmental Services, dated October 31, 1990 was reviewed. According to the report, Enkon was retained to provide site assessment during removal of a 1,000 gallon heating oil UST located at the subject property. The underground storage tank was buried beneath the front lawn, immediately adjacent to the southeast corner of the building.

Subsurface conditions encountered during removal of the former UST indicated a thin layer of topsoil overlying at least four feet of light brown, mixed sand and gravel. The tank was a steel, 1,000 gallon UST with no corrosion protection. It was noted that the steel walls and galvanized product lines were in good shape.

As the tank was uncovered, soil samples were field screened for volatile organic compounds. Evidence of PID readings ranged from 10 ppm to 125 ppm in the overburden soils on top of the former UST. Grab samples collected from the cavity subsequent to tank removed indicated no evidence of VOCs. A total of six soil samples were collected for analysis for BEX and PNAs. Depths of the samples were not provided, but included sidewall and bottom excavation samples. The sidewall samples from the western wall were collected adjacent to the former piping run extending to the building. It was concluded by Enkon that other than the overburden soils (estimated 50 cubic yards), no contamination was encountered.

Performance also evaluated the Waste Data System (WDS) database with the MDEQ. Limited information was available, identifying the site as a liquid industrial waste generator. Based on the known religious use of the site, and limited information available, the WDS listing is likely associated with the former heating oil UST system.

8.3 City of Birmingham Municipal Offices

On March 5, 2015, *Performance* personnel visited the City of Birmingham to review file documentation from the Assessor's Office, Building Department and Fire Department. A Freedom of Information Act request was submitted to the City Clerk requesting to review available files regarding the study property. On March 17, 2015, the Assessing Department provided an email response indicating that since the property has been tax exempt, no assessing documentation is available for review. The Building and Fire Departments provided available documentation for in-house review.

On March 18, 2015, Community Development Department electronic files were evaluated during an in-house scheduled visit with Ms. Sabrina Martin. The files included several permits and plans for signs, plumbing, electrical and other building related items. Included in the files were architectural plans identifying an existing 1,000 gallon fuel oil UST at the southeast corner of the building, with associated piping running west along the southern side of the building.

On March 18, 2015, the Fire Department paper files were evaluated during an in-house scheduled visit. The files included a permit dated October 1990 for the removal of one 1,000 gallon UST. A City of Birmingham Fire Department memorandum also was in the file documenting removal of one 1,000 gallon UST. The tank was removed by D & H Richmond, with "minimal contamination observed".

It is *Performances* opinion that the minimal contamination observed was likely the overburden soils that were excavated from top of the tank and removed for offsite disposal.

A copy of the City of Birmingham municipal documentation is included in Appendix 5.

9.0 SITE HISTORY

A profile of the historical usage of the site was developed by reviewing available historical records where available. *Performance's* evaluation is summarized in the following sections.

9.1 <u>Historical Aerial Photographs</u>

Performance personnel reviewed aerial photographs of the study property from various years between 1937 through 2012 provided by EDR. Oakland County Property Gateway aerial photographs from 1940 through 2014 were also referenced. The photographs were reviewed to aid in determining past site usage and any area(s) where any environmental contamination would be suspected. Refer to Appendix 6 for copies of the EDR and Oakland County Aerial Photographs. Details regarding these photographs can be found in the following table.

Aerial Photographs

YEAR	SCALE	Description/Observations
1937	1"=500′	The subject property appears to be developed, surrounded by trees and what appear to be residential dwellings.
1940	1"=100'	The photograph is blurred preventing observations.
1949	1"=500'	The subject property appears to be developed, surrounded by trees and residential dwellings.
1952	1"=500'	No significant changes from the previous photograph.
1956	1"=500'	The subject property remains similar, adjoined by residential dwellings. The properties east of N. Chester appear to be increasingly commercial.
1963	1"=100'	The church building has expanded. Parking areas are situated east of N. Chester Street.
1967	1"=500'	No significant changes from the previous photograph.
1972	1"=500'	No significant changes from the previous photograph.
1974	1"=100'	No significant changes from the previous photograph.
1980	1"=100'	The subject property remains similar. The adjoining property to the south (east) is vacant grass covered land.
1981	1"=500'	No significant changes from the previous photograph.
1983	1"=500'	The subject property remains similar. The adjoining property to the south is now a commercial building.
1987	1"=500'	No significant changes from the previous photograph.
1990	1"=100'	No significant changes from the previous photograph.
1997	1"=500'	No significant changes from the previous photograph.
1999	1"=500'	No significant changes from the previous photograph.
2000, 2002	1"=100'	No significant changes from the previous photograph.
2005	1"=500'	No significant changes from the previous photograph.
2006, 2008	1"=100'	No significant changes from the previous photograph.
2009, 2010, 2012	1"=500′	The property appears similar to that observed at the time of the site visit.
2014	1"=100'	The property appears similar to that observed at the time of the site visit.

9.2 <u>Historical Topographic Maps</u>

Performance personnel reviewed topographic maps of the study property from various years between 1908 and 1981 provided by EDR. The maps were reviewed to aid in determining past site usage and any area(s) where any environmental contamination would be suspected. Refer to Appendix 7 for copies of the EDR Topographic Maps.

Topographic Maps

YEAR	Мар	Description/Observations		
1908	Rochester Quad;	The City of Birmingham is developed. The surrounding areas are		
1908	15 Min. Series	sparsely developed. The River Rouge is apparent to the west.		
1936	Birmingham Quad;	The subject property is developed as a church. Adjoining properties		
1930	7.5 Min. Series	are also developed, but type of usage is undetermined.		
1945	Birmingham Quad;	No significant changes are observed from the previous topographic		
1943	7.5 Min. Series	map.		
1952	Birmingham Quad;	ngham Quad; The subject area is shaded in pink, indicating heavily developed Urban		
1932	7.5 Min. Series	Land.		
1968	Birmingham Quad;	No significant changes are observed from the previous topographic		
1300	7.5 Min. Series	map.		
1973	Birmingham Quad;	No significant changes are observed from the previous topographic		
13/3	7.5 Min. Series	map.		
	Pirmingham Quad	The subject site is located in a heavily developed area of Birmingham.		
1981	Birmingham Quad; 7.5 Min. Series	Surface elevation is estimated to be 780 feet above mean sea level		
	7.5 Willi. Selles	(MSL). The River Rouge is located northwest of the subject site.		

9.3 Sanborn Fire Insurance Maps

Performance personnel contacted EDR and requested a Sanborn Fire Insurance Map site search for the subject property. Fire insurance maps typically depict the locations of manufacturing and industrial concerns within the city limits and potential fire hazards existing within individual structures. Many times areas of environmental concern, such as the location of underground storage tanks, can be found by referencing fire insurance maps. Performance received a response from EDR indicating Sanborn maps were available for the subject property for years between 1910 and 1960.

Sanborn Maps

YEAR	Description/Observations		
1910	Coverage is not available for the west side of N. Chester Street. The properties east of N. Chester include residential dwellings.		
1915	No significant changes from the previous Sanborn map.		
1921	The subject property is depicted as a residential dwelling. Adjoining properties are residential.		
1926	The subject property is vacant. Adjoining properties remain residential.		
1931	The subject property is developed with the First Church of Christ Scientist.		
1949	No significant changes from the previous Sanborn map.		
1960	The original structure is noted as having been built in 1926. Building additions were added to the south and west, noted as having been constructed in 1953.		

A copy of the Sanborn Maps is provided as an attachment in Appendix 8.

9.4 <u>City Directories</u>

City directories list the names, residence location, and sometimes even the occupation of city residents for a given year. They also frequently contain similar information about commercial establishments, thus providing specific addresses and names of establishments over time. City directories allow a researcher to build a history of a site and surrounding area over time and may give an indication if an area has been occupied by businesses that historically have caused environmental problems.

Performance personnel reviewed a City Directory Abstract provided by EDR. City Directory sources included the Cole Information Services and the Polk's City Directory Company. The information obtained is summarized in the following paragraph. The addresses listed are inferred subject property addresses from referencing Sanborn maps and municipal documentation.

City Directory Addresses

Year	Subject Property	Adjoining South (east)	Adjoining South (west)
1973	First Church of Christ Scientist	Residential	Residential
1977	First Church of Christ Scientist	Residential	Residential
1982	First Church of Christ Scientist	W. Maple Associates	Residential
1987	First Church of Christ Scientist	Commercial offices	Residential
1992	First Church of Christ Scientist	Commercial offices	No Listing
1995	First Church of Christ Scientist	Commercial offices	Residential
1999	First Church of Christ Scientist	Commercial offices	Residential
2003	First Church of Christ Scientist	Commercial offices	Residential
2008	First Church of Christ Scientist	Commercial offices	Occupant Unknown
2013	First Church of Christ Scientist	Commercial offices	Residential

Upon review of the city directories for the study property, it appears that the study property was developed for church use prior to 1973. Adjoining properties to the south included residential and commercial use. No gasoline stations, motor repair facilities, dry cleaners, photo developing laboratories, junkyards or landfills were listed as occupants of the study property or adjoining properties to the south.

A copy of the City Directory Image is included as Appendix 9.

9.5 Title Documentation

A fifty-year title search for the subject property can provide additional information regarding the present and previous owners of the site. The chain of title gives the names of previous owners of the subject property, which <u>may</u> provide information as to the previous uses of the property. The records checked in a title search may also identify long-term lessees who may have occupied the site. *Performance* was not provided with title documentation; *Performance* was unable to evaluate for evidence of environmental concerns or restrictions or identify previous ownership.

9.6 Previous Environmental Reports

Performance was not provided with any previous environmental reports for the subject site.

10.0 EVALUATIONS AND CONCLUSIONS

Performance conducted this Phase I ESA in order to provide a professional opinion of the possible presence of RECs or other possible environmental concerns, if any, associated with the subject site. This Phase I ESA was conducted in general conformance with the ASTM E 1527-13, Standard Practice for Conducting Environmental Site Assessments and is intended to comply with USEPA AAI guidelines.

10.1 Findings

Based on historical documentation, the first developed use of the property appears to be residential, with date of development sometime prior to 1921. The subject property was developed for religious use in the 1920's. The church building has been expanded and remolded over time, with current use remaining a religious institution. A review of historical documentation and municipal records did not identify any use, storage and/or handling of petroleum products or other hazardous materials at the subject property, with the exception of a former heating oil UST system formerly located on the property.

Performance submitted a Freedom of Information Act request to the Remediation Redevelopment Division (RRD) of the Michigan Department of Environmental Quality (MDEQ). Limited file documentation was available, including a Site Assessment / Closure Report, generated by Enkon Environmental Services, dated October 31, 1990. According to the report, Enkon was retained to provide site assessment during removal of a 1,000 gallon heating oil UST located at the subject property. The underground storage tank was buried beneath the front lawn, immediately adjacent to the southeast corner of the building. The report noted that the steel walls and galvanized product lines were in good shape based on observations at the time of removal.

As the tank was uncovered, soil samples were field screened for volatile organic compounds. Evidence of PID readings ranged from 10 ppm to 125 ppm. Grab samples collected from the cavity subsequent to tank removed indicated no evidence of VOCs. A total of six soil samples were collected for analysis for BEX and PNAs. Depths of the samples were not provided, but

included sidewall and bottom excavation samples. It was concluded by Enkon that other than the overburden soils (estimated 50 cubic yards), no contamination was encountered. The contaminated soils were disposed of offsite.

Based on available environmental site assessment research obtained and reviewed and visual observations of the study property and surrounding properties, *Performance* concludes there are no known recognized environmental conditions (REC's) on the study property or on adjoining properties with the potential to impact the study property.

Site assessment activities were conducted associated with the former UST system. Evidence of minimal contamination was observed at the time of removal in overburden soils formerly located on top of the former UST, which were apparently removed and disposed offsite. Subsequent excavation verification samples collected from the excavation bottom and sidewalls indicated no evidence of contamination was present. A Closure Report / Site Assessment Report was prepared concluding no further assessment was necessary to address the former heating oil UST system.

10.2 Opinions

In accordance with ASTM Standard 1527-13, no evidence of current recognized environmental conditions (REC) or Controlled RECs at or adjoining the subject site. The heating oil UST is considered a Historical REC (HREC). A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Based on the sampling conducted and associated laboratory analysis, the HREC does not present a current REC.

10.3 Recommendations

Based on available environmental site assessment research obtained and reviewed and visual observations of the study property and surrounding properties, *Performance* concludes there are no known REC's on the study property or on adjoining properties with the potential to impact the study property. The presence of a former heating oil UST is a Historical REC (HREC). However, site assessment activities were conducted at the time of removal with no evidence of soil contamination encountered in closure verification sampling.

10.4 Non Scope Considerations

Based on the age of the structure, *Performance* recommended performing an asbestos survey of the structure on the study property before any renovation, demolition or any maintenance activities that may disturb the building materials. The results of the survey are submitted under separate cover.

Performance personnel observed fluorescent lighting and other electrical equipment in the study property building. Performance personnel did not inspect the light ballasts or other electrical equipment to determine if any were PCB containing. However, due to age of the building, Performance considers the light ballasts and other electrical equipment within the study property building to have potential to contain PCB fluids. Performance recommends testing the light ballasts and other electrical equipment before disposal to determine if they contain PCB fluids. If the items contain PCB fluids, special handling and disposal procedures may be required.

10.5 Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

Signature of Environmental Professional

April 2, 2015 Date

Julie Anna Pratt

Printed Name of Environmental Professional

11.0 QUALIFICATIONS

Performance personnel conducted these professional services in accordance with customary principles and practices in the area of environmental science and engineering, and in general conformance with the American Society for Testing Materials (ASTM) E 1527-13, Standard Practice for Conducting Environmental Site Assessments and is intended to comply with USEPA All Appropriate Inquiry (AAI) guidelines. Performance has made appropriate inquiry with regard to the presence of hazardous materials or petroleum products in the environments at the study property based upon the Scope of Work. The conclusions presented in the report were based solely on the services described herein and not on scientific tasks or procedures beyond the scope of work or on the time or budgetary constraints imposed by the client. Performance is not to be held responsible for the independent findings, opinions or recommendations made by others based on the field inspection and regulatory and title search data documented by this report.

Please note that all environmental assessments conducted by surficial evaluation are ultimately limited to the context that conclusions are developed and recommendations are made from data drawn from limited research, research time and site inspection. Subsurface conditions were not field investigated as part of this study. In addition, as time progresses, a change may occur in the environmental conditions at the study property and at the surrounding properties.

In preparing this report, *Performance* relied on specific information provided by federal, state, county, and/or local officials and other parties referenced herein and on available information reviewed in the files of federal, state, county, and/or local officials made available to *Performance* personnel at the time and under the conditions noted. *Performance* did not attempt to independently verify the accuracy or completeness of the information received or reviewed during the course of this investigation.

In preparing this report, *Performance* did not make any specific attempts to check on the compliance of past or present previous owners of the site with respect to any federal, state, county, and/or local laws or regulations, environmental or otherwise. Compliance issues are most accurately addressed with the completion of a Regulatory Compliance Audit, which is outside the scope of work for this investigation.

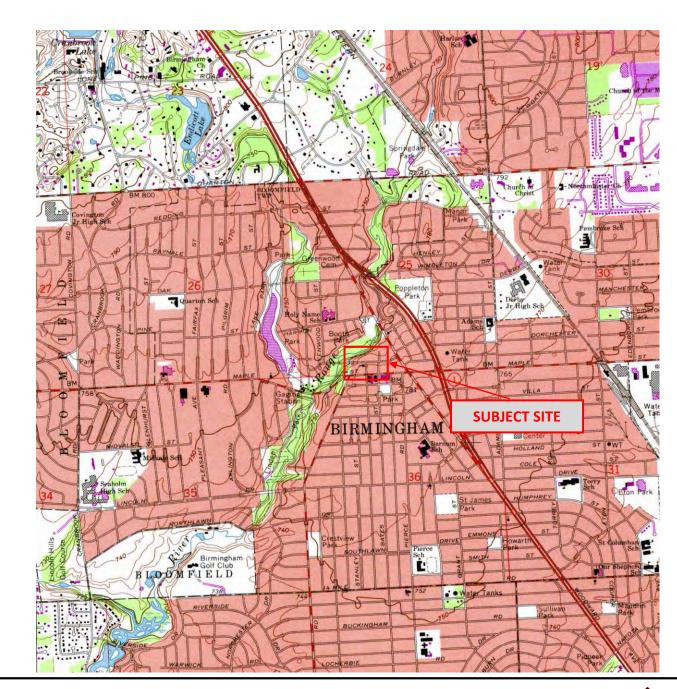
As noted within the scope of work, *Performance* personnel conducted a survey for the potential of suspect asbestos-containing materials (ACMs). The survey was conducted separately from the scope of work included in the Phase I ESA, and is available under separate cover.

Client agrees that in the event information regarding environmental or other hazardous waste issues at the study property that were known by the client or that come to the attention of the client or client's agent upon completion of this investigation, such information will be brought to the attention of *Performance*. *Performance* reserves the right to evaluate such information and based on this evaluation, modify the conclusions stated in the report.

12.0 REFERENCES

- 1) U.S. Geological Survey Topographic Maps, provided by Environmental Data Resources, Inc., Milford, Connecticut (EDR).
- 2) Aerial Photographs provided by EDR.
- 3) Radius Map with GeoCheck®, provided by EDR under date of March 5, 2015.
- 4) City Directory Abstract, 1973 through 2013, provided by EDR.
- 5) City of Birmingham Assessor, Building, and Fire Department Records for the subject site.
- 6) Historical Sanborn Fire Insurance, provided by EDR.
- 7) Google and Bing Aerial Photographs and Maps.

Appendix 1 Figures



REFERENCE

USGS 7.5 MIN TOPOGRAPHIC QUADRANGLE BIRMINGHAM, MICHIGAN QUADRANGLE DATED: 1981 PHOTOREVISED FROM 1968 SCALE: 1: 24,000



N

FIGURE 1: SITE LOCATION MAP

Commercial Property

191 N. Chester Road Birmingham, Oakland County, MI **PROJECT**: 151226

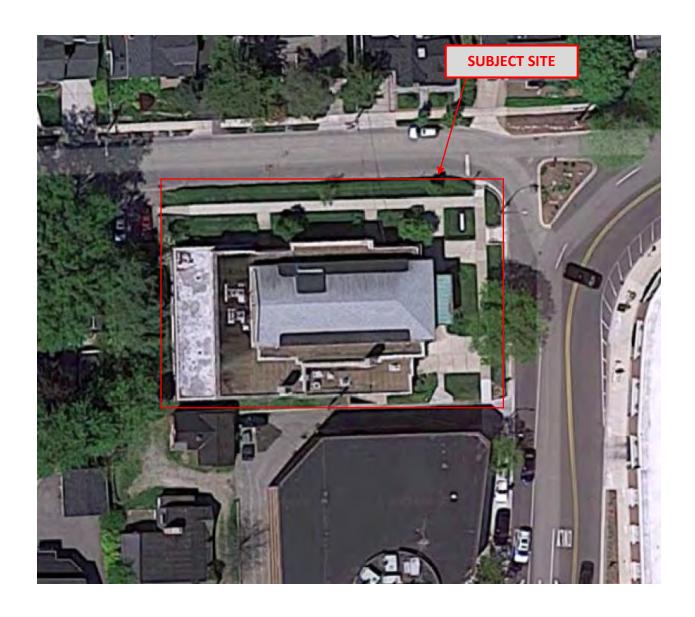
DATE: 3/15/15

PREPARED BY: JAP

30553 Wixom Road, Suite 500 Wixom, Michigan 48393

Voice: 248.926.3800 Fax: 248.926.3838





Legend



Approximate Property Boundary

FIGURE 2: AERIAL SITE MAP

Commercial Property

191 N. Chester Road Birmingham, Oakland County, MI **PROJECT**: 151226 **DATE:** 3/15/15

PREPARED BY:

30553 Wixom Road, Suite 500 Wixom, Michigan 48393

Voice: 248.926.3800 JAP Fax: 248.926.3838



Appendix 2 Photographs



Near northeast corner of the property looking at the east building elevation.



Near northeast corner of the property looking west along Willits Street.



Near the northwest corner of the building looking east.



Near the northwest corner of the building looking south.



At the southeast corner of the building looking north.



At the southeast corner of the building looking west.



Near the southwest corner of the building looking east along southern property boundary.



Near the southwest corner of the building looking north along the west building elevation.



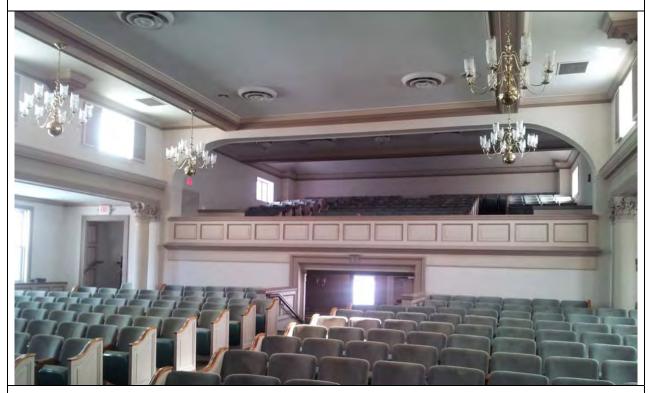
Interior view.



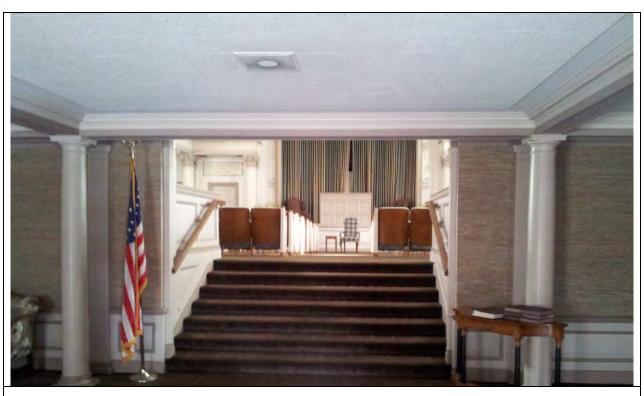
Interior view.



Interior view.



Interior view.



Interior view.



Interior view.

PERFORMANCE ENVIRONMENTAL SERVICES, INC. 30553 WIXOM ROAD, SUITE 500 WIXOM, MICHIGAN



Interior view.



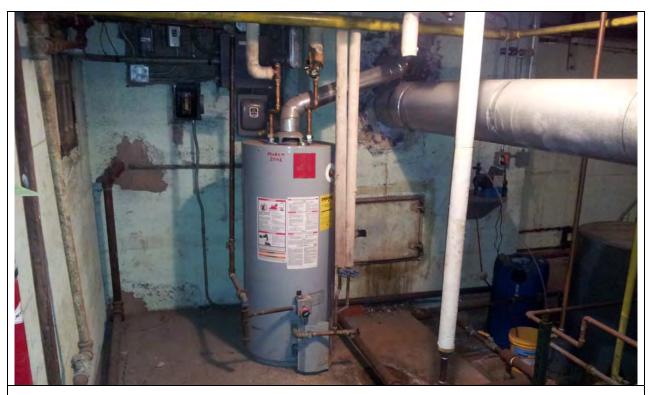
Interior view.



Interior view (oil turbine for pipe organs).



Interior view.



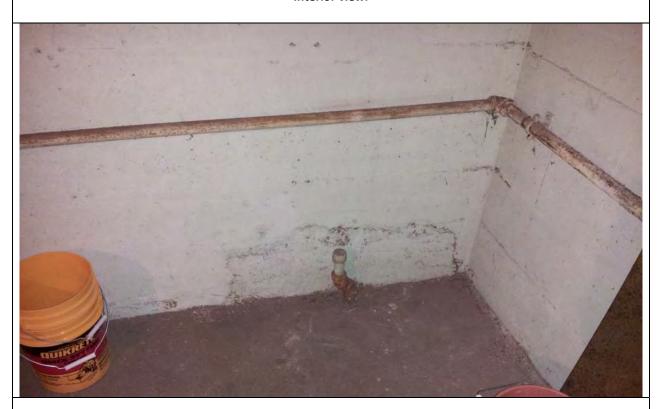
Interior view.



Unexplained sump in utility room.



Interior view.



Interior view, unexplained capped steel pipe.



Adjoining commercial building to the south.



Adjoining commercial building with parking to the east across N. Chester.



Residential dwellings north of Willits Street.



Residential dwelling adjoining west.

Appendix 3 Questionnaires, Title Documentation

No Questionnaires Provided to *Performance* as of Date of Report

No Title Documentation Provided to *Performance* as of Date of Report

Appendix 4 Environmental Regulatory Report

191 N. Chester 191 N. Chester Birmingham, MI 48009

Inquiry Number: 4225651.2s

March 05, 2015

The EDR Radius Map™ Report with GeoCheck®

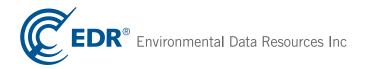


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Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

191 N. CHESTER OAKLAND County, MI 48009

COORDINATES

Latitude (North): 42.5472000 - 42° 32' 49.92" Longitude (West): 83.2187000 - 83° 13' 7.32"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 317826.1 UTM Y (Meters): 4712705.5

Elevation: 782 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42083-E2 BIRMINGHAM, MI

Most Recent Revision: 1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120629, 20120702

Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
FIRST CHURCH OF CHRIST 191 N. CHESTER ST. BIRMINGHAM, MI 48009	INVENTORY	N/A
FIRST CHURCH OF CHRIST 191 N CHESTER ST BIRMINGHAM, MI 48009	WDS	N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	
Proposed NPL	Proposed National Priority List Sites
INI L LILINO	Trederal Superiulid Liens
Federal Delisted NPL site lis	st
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
CERCLIS	. Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY	Federal Facility Site Information listing
Federal CERCLIS NFRAP si	te List
CERC-NFRAP.	CERCLIS No Further Remedial Action Planned
Federal RCRA CORRACTS	facilities list
CORRACTS	Corrective Action Report
Federal RCRA non-CORRA	CTS TSD facilities list
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
Federal RCRA generators lis	st
RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
Federal institutional control	s / engineering controls registries
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
LUCIS	Land Use Control Information System
Federal ERNS list	
ERNS	Emergency Response Notification System
State- and tribal - equivalent	
SHWS	This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facilities Database

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Aboveground Tanks

INDIAN UST...... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields and UST Site Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI...... Open Dump Inventory

HIST LF..... Inactive Solid Waste Facilities

SWRCY..... Recycling Facilities

INDIAN ODI_____ Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL...... Clandestine Drug Labs

PART 201..... Part 201 Site List

DEL PART 201..... Delisted List of Contaminated Sites

CDL...... Clandestine Drug Lab Listing

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LIENS.....Lien List

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS Pollution Emergency Alerting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data

DOD...... Department of Defense Sites FUDS..... Formerly Used Defense Sites

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision UMTRA..... Uranium Mill Tailings Sites US MINES..... Mines Master Index File

TRIS....... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

FTTS......FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System PADS...... PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System RAATS______RCRA Administrative Action Tracking System

RMP..... Risk Management Plans

UIC...... Underground Injection Wells Database

DRYCLEANERS Drycleaning Establishments NPDES..... List of Active NPDES Permits AIRS..... Permit and Emissions Inventory Data

INDIAN RESERV...... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing US AIRS...... Aerometric Information Retrieval System Facility Subsystem

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

COAL ASH DOE..... Steam-Electric Plant Operation Data PRP..... Potentially Responsible Parties 2020 COR ACTION........... 2020 Corrective Action Program List PCB TRANSFORMER...... PCB Transformer Registration Database

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

Financial Assurance Information Listing

LEAD SMELTERS..... Lead Smelter Sites COAL ASH...... Coal Ash Disposal Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants EDR US Hist Cleaners EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST...... Recovered Government Archive Leaking Underground Storage Tank RGA PART 201...... Recovered Government Archive State Hazardous Waste Facilities List

RGA LF...... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2014 has revealed that there are 5 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CENTRAL PARKING SYSTEM	180 CHESTER ST	SSE 0 - 1/8 (0.090 mi.)	В3	7
BALDWIN HOUSE	200 CHESTER ST	SSE 0 - 1/8 (0.097 mi.)	B5	9
MICHIGAN BELL TELEPHONE COMPAN	155 HENRIETTA ST	ESE 1/8 - 1/4 (0.150 mi.)	C8	13
FULLER CENTRAL PARK PROPERTIES	111 S OLD WOODWARD	E 1/8 - 1/4 (0.236 mi.)	16	20
Lower Elevation	Address	Direction / Distance	Map ID	Page
JFK INVESTMENT COMPANY LLC	280 N OLD WOODWARD A	VE ENE 1/8 - 1/4 (0.180 mi.)	12	17

State and tribal leaking storage tank lists

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 12/02/2014 has revealed that there are 10 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PROPOSED BALDWIN HOUSE SITE Release Status: Closed	200 CHESTER	SSE 0 - 1/8 (0.099 mi.)	В6	11
Lower Elevation	Address	Direction / Distance	Map ID	Page
BIRMINGHAM PUBLIC SCHOOLS Release Status: Open	550 W MERRILL	SSW 1/8 - 1/4 (0.164 mi.)	9	15
SUNOCO #0008-4178 Release Status: Closed	35001 WOODWARD AVE	E 1/4 - 1/2 (0.361 mi.)	G20	24

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHELL - HUNTER Release Status: Open Release Status: Closed	34977 WOODWARD AVE	E 1/4 - 1/2 (0.374 mi.)	F22	27
MOBIL #03-K9Q Release Status: Open Release Status: Closed	1065 W MAPLE RD	WSW 1/4 - 1/2 (0.400 mi.)	J31	40
JAX KAR WASH #048 Release Status: Open	34745 WOODWARD	ESE 1/4 - 1/2 (0.416 mi.)	L34	48
SPEEDWAY LLC Release Status: Closed	34750 WOODWARD AVE	ESE 1/4 - 1/2 (0.449 mi.)	36	50
SIMON LAND DEVELOPMENT GROUP L Release Status: Open	35975 WOODWARD AVE	N 1/4 - 1/2 (0.464 mi.)	M37	55
ESTATE MOTORS Release Status: Closed	464 S WOODWARD AVE	SE 1/4 - 1/2 (0.466 mi.)	39	60
GHAFARI PROPERTIES INC Release Status: Closed	36101 WOODWARD AVE	N 1/4 - 1/2 (0.472 mi.)	40	60

State and tribal registered storage tank lists

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 12/02/2014 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WABEEK ASSOC GEN PARTNERSHIP	280 WEST MAPLE RD	ESE 0 - 1/8 (0.096 mi.)	4	9
PROPOSED BALDWIN HOUSE SITE	200 CHESTER	SSE 0 - 1/8 (0.099 mi.)	B6	11
BIRMINGHAM CO (M57110)	155 HENRIETTA	ESE 1/8 - 1/4 (0.149 mi.)	C7	12

State and tribal institutional control / engineering control registries

AUL: A listing of sites with institutional and/or engineering controls in place.

A review of the AUL list, as provided by EDR, and dated 11/23/2014 has revealed that there are 2 AUL sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CATALYST DEVELOPMENT CO 8 LLC	34977 WOODWARD AVE	E 1/4 - 1/2 (0.374 mi.)	F23	31
MOBIL #03-K9Q	1065 WEST MAPLE ROAD	WSW 1/4 - 1/2 (0.400 mi.)	J30	39

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/22/2014 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEISS SAMONA	34901 WOODWARD AVENUE	E ESE 1/4 - 1/2 (0.392 mi.)	128	34
GREEN'S ART SUPPLY	400 SOUTH OLD WOODWAR	DESE 1/4 - 1/2 (0.408 mi.)	K32	42

Local Lists of Hazardous waste / Contaminated Sites

INVENTORY: The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

A review of the INVENTORY list, as provided by EDR, and dated 01/27/2015 has revealed that there are 15 INVENTORY sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BIRMINGHAM PUBLIC SCHOOLS	550 W MERRILL	SSW 1/8 - 1/4 (0.164 mi.)	9	15
COMERICA BANK BIRMINGHAM	322 N. OLD WOODWARD	ENE 1/8 - 1/4 (0.171 mi.)	D11	16
CATALYST DEVELOPMENT CO. 8, LL	34977 WOODWARD AVENUE	E 1/4 - 1/2 (0.359 mi.)	F19	24
SUNOCO GASOLINE STATION (FORME	35001 WOODWARD AVENUE	E 1/4 - 1/2 (0.361 mi.)	G21	27
SHELL - HUNTER	34977 WOODWARD AVE	E 1/4 - 1/2 (0.374 mi.)	F22	27
WOODWARD BROWN ASSOCIATES, LLC	34901 WOODWARD AVENUE	ESE 1/4 - 1/2 (0.390 mi.)	24	33
CHINESE RESTAURANT	856 NORTH OLD WOODWARD	ON 1/4 - 1/2 (0.391 mi.)	H26	33
WOODWARD BROWN ASSOC LLC	34901 WOODWARD	ESE 1/4 - 1/2 (0.392 mi.)	129	39
MOBIL #03-K9Q	1065 W MAPLE RD	WSW 1/4 - 1/2 (0.400 mi.)	J31	40
GREEN'S ART SUPPLY	400 SOUTH OLD WOODWARD	DESE 1/4 - 1/2 (0.408 mi.)	K33	47
JAX KAR WASH #048	34745 WOODWARD	ESE 1/4 - 1/2 (0.416 mi.)	L34	48
JAX KAR WASH	34745 WOODWARD AVENUE	ESE 1/4 - 1/2 (0.416 mi.)	L35	50
SIMON LAND DEVELOPMENT GROUP L	35975 WOODWARD AVE	N 1/4 - 1/2 (0.464 mi.)	M37	55
GASOLINE STATION	35975 WOODWARD AVENUE	N 1/4 - 1/2 (0.464 mi.)	M38	59
GHAFARI PROPERTIES INC	36101 WOODWARD AVE	N 1/4 - 1/2 (0.472 mi.)	40	60

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2014 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOLLYWOOD SHERIDAN ASSOCIATES	185 OAKLAND AVE	ENE 1/8 - 1/4 (0.212 mi.)	E14	19
DAKOTA	280 HARMON ST	N 1/8 - 1/4 (0.238 mi.)	17	22

BEA: A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

A review of the BEA list, as provided by EDR, and dated 08/21/2013 has revealed that there are 7 BEA sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROWN STREET OFFICE BUILDING	200 EAST BROWN	SE 1/4 - 1/2 (0.315 mi.)	18	23
SUNOCO #0008-4178	35001 WOODWARD AVE	E 1/4 - 1/2 (0.361 mi.)	G20	24
CATALYST DEVELOPMENT CO 8 LLC	34977 WOODWARD AVE	E 1/4 - 1/2 (0.374 mi.)	F23	31
CHINESE RESTAURANT	856 NORTH OLD WOODWARD	DN 1/4 - 1/2 (0.391 mi.)	H25	33
WOODWARD BROWN ASSOCIATES, LLC	34901 WOODWARD AVENUE	ESE 1/4 - 1/2 (0.392 mi.)	127	34
JAX KAR WASH #048	34745 WOODWARD	ESE 1/4 - 1/2 (0.416 mi.)	L34	48
SIMON LAND DEVELOPMENT GROUP L	35975 WOODWARD AVE	N 1/4 - 1/2 (0.464 mi.)	M37	55

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 3 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

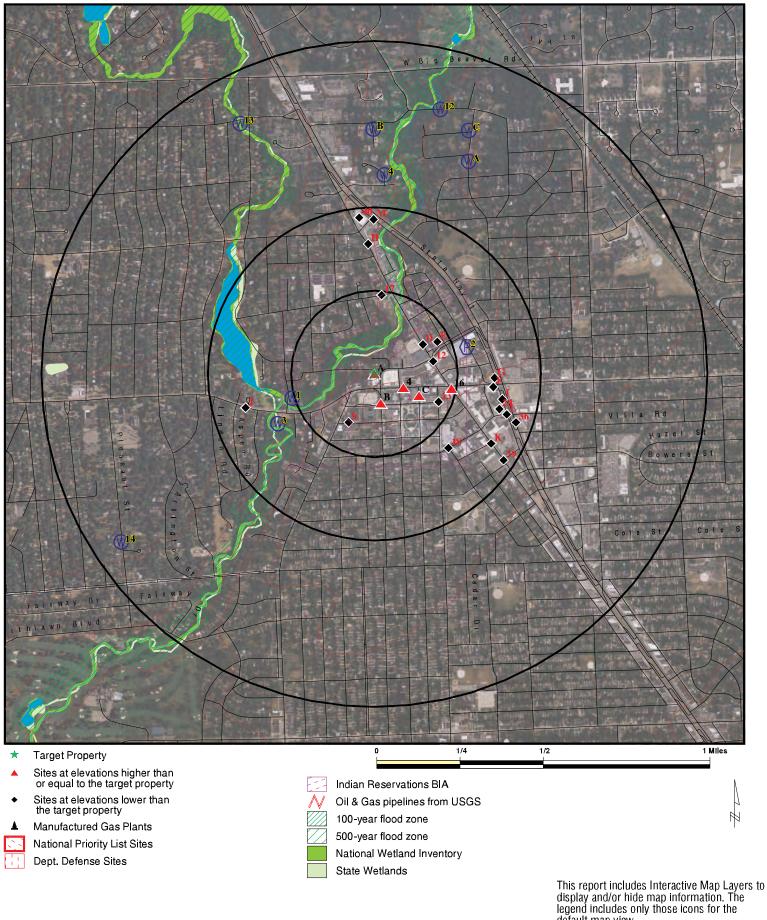
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	322 N OLD WOODWARD AVE	ENE 1/8 - 1/4 (0.171 mi.)	D10	16

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	199 PIERCE ST	ESE 1/8 - 1/4 (0.210 mi.)		18
Not reported	180 OAKLAND AVE	ENE 1/8 - 1/4 (0.221 mi.)		20

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4225651.2S



display and/or hide map information. The legend includes only those icons for the default map view.

191 N. Chester 191 N. Chester SITE NAME: ADDRESS:

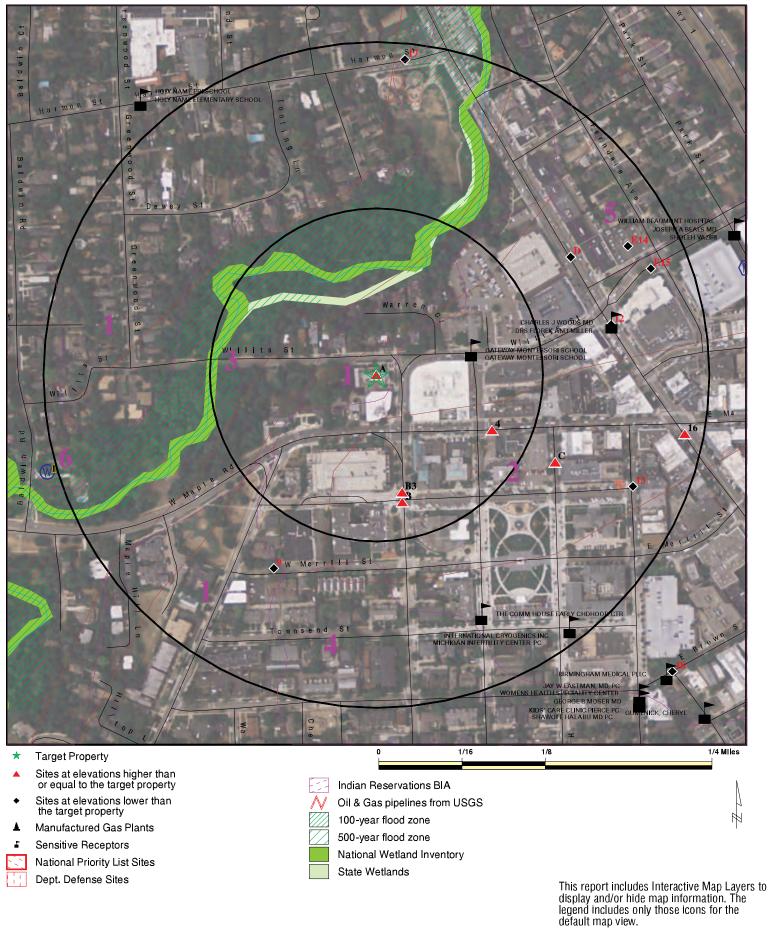
Birmingham MI 48009 LAT/LONG: 42.5472 / 83.2187

CLIENT: CONTACT: Performance Environmental Julie Pratt

INQUIRY #: 4225651.2s

March 05, 2015 3:56 pm DATE:

DETAIL MAP - 4225651.2S



SITE NAME: 191 N. Chester

ADDRESS: 191 N. Chester

Birmingham MI 48009

LAT/LONG: 42.5472 / 83.2187

CLIENT: Performance Environmental

CONTACT: Julie Pratt

INQUIRY #: 4225651.2s

DATE: March 05, 2015 3:57 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 2	0 0 3	NR NR NR	NR NR NR	NR NR NR	0 0 5
Federal institutional controls / engineering controls registries								
US ENG CONTROLS US INST CONTROL LUCIS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST INDIAN LUST	0.500 0.500		1 0	1 0	8 0	NR NR	NR NR	10 0
State and tribal registered storage tank lists								
UST	0.250		2	1	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST INDIAN UST FEMA UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	2	NR	NR	2
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	2	NR	NR	2
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9 ODI HIST LF SWRCY INDIAN ODI	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL INVENTORY PART 201 DEL PART 201 CDL US HIST CDL	TP 0.500 1.000 1.000 TP TP	1	NR 0 0 0 NR NR	NR 2 0 0 NR NR	NR 13 0 0 NR NR	NR NR 0 0 NR NR	NR NR NR NR NR NR	0 16 0 0 0
Local Land Records								
LIENS 2 LIENS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Records of Emergency Release Reports								
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Records								
RCRA NonGen / NLR DOT OPS DOD FUDS CONSENT	0.250 TP 1.000 1.000 1.000		0 NR 0 0	2 NR 0 0	NR NR 0 0	NR NR 0 0	NR NR NR NR NR	2 0 0 0 0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ROD UMTRA US MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS PADS MLTS RADINFO FINDS RAATS RMP UIC DRYCLEANERS NPDES AIRS BEA INDIAN RESERV SCRD DRYCLEANERS US AIRS US FIN ASSUR EPA WATCH LIST COAL ASH DOE PRP 2020 COR ACTION PCB TRANSFORMER COAL ASH EPA Financial Assurance WDS	1.000 0.500 0.250 TP TP TP TP TP TP TP TP TP TP TP TP TP	Property	000 R R R R R R R R R R R R R R R R R R		0 0 NR NR R R R R R R R R R R R R R R R		_	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LEAD SMELTERS COAL ASH	TP 0.500		NR 0	NR 0	NR 0	NR NR	NR NR	0 0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP EDR US Hist Auto Stat EDR US Hist Cleaners	1.000 0.250 0.250		0 0 0	0 3 0	0 NR NR	0 NR NR	NR NR NR	0 3 0
EDR RECOVERED GOVERN	IMENT ARCHI	/ES						
Exclusive Recovered Go	vt. Archives							
RGA LUST RGA PART 201 RGA LF	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

A1 FIRST CHURCH OF CHRIST INVENTORY S114028648
Target 191 N. CHESTER ST. N/A

Target 191 N. CHESTER ST.
Property BIRMINGHAM, MI 48009

Site 1 of 2 in cluster A

Actual: INVENTORY:

782 ft. Bea Number: Not reported

Township: Birmingham
District: Southeast MI
Data Source: Part 201
Latitude: 42.54709
Longitude: -83.21811

A2 FIRST CHURCH OF CHRIST WDS S111964802

Target 191 N CHESTER ST Property BIRMINGHAM, MI 48009

Site 2 of 2 in cluster A

Actual: WDS:

782 ft. Site ld: MIG000025741 WMD ld: 450284

Site Specific Name: FIRST CHURCH OF CHRIST

Mailing Address: 191 N CHESTER ST

Mailing City/State/Zip: 48009

Mailing City/State/Zip: 48009
Mailing County: OAKLAND

B3 CENTRAL PARKING SYSTEM RCRA-CESQG 1010321290
SSE 180 CHESTER ST MIK937473619

SSE 180 CHESTER ST < 1/8 BIRMINGHAM, MI 48009

0.090 mi.

476 ft. Site 1 of 3 in cluster B

Relative: RCRA-CESQG:

Higher Date form received by agency: 03/02/2006

Facility name: CENTRAL PARKING SYSTEM

Actual: Facility address: 180 CHESTER ST

Actual: Facility address: 180 CHESTER ST 783 ft. BIRMINGHAM MI

 Page 16.
 BIRMINGHAM, MI 48009

 EPA ID:
 MIK937473619

 Contact:
 CATHERINE BURCH

Contact: CATHERINE BURCH
Contact address: 180 CHESTER ST
BIRMINGHAM, MI 48009

Contact country: US

Contact telephone: (248) 540-9690 Contact email: Not reported

EPA Region: 0

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;

or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

hazardous waste during any calendar month, and accumulates at any

N/A

Map ID MAP FINDINGS
Direction

Distance Elevation

tion Site Database(s) EPA ID Number

CENTRAL PARKING SYSTEM (Continued)

1010321290

EDR ID Number

time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: CITY OF BIRMINGHAM

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported

Owner/operator telephone: Not reported Legal status: Municipal Owner/Operator Type: Owner Owner/Op start date: 01/02/1989 Owner/Op end date: Not reported

Owner/operator name: CENTRAL PARKING SYSTEM

Owner/operator address: Not reported

Owner/operator country: Not reported Not reported Owner/operator telephone: Not reported

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/02/1989
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: Nο Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: Nο Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001

Waste name: 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.

Violation Status: No violations found

Direction Distance

Elevation Site Database(s) EPA ID Number

4 WABEEK ASSOC GEN PARTNERSHIP UST U003834374
ESE 280 WEST MAPLE RD N/A

ESE 280 WEST MAPLE RD < 1/8 BIRMINGHAM, MI 48084

0.096 mi. 508 ft.

Relative: UST:

 Higher
 Facility ID:
 00034440

 Facility Type:
 CLOSED

Actual: Owner Name: MUTUAL BENEFIT LIFE

783 ft. Owner Address: C/0 MORRIS & BERKE 901 WILSHIRE DR SUITE 370

Owner City, St, Zip: TROY, MI 48084

Owner Country: USA Not reported Owner Contact: (734) 362-6808 Owner Phone: Contact: A LYLE BECKWITH (734) 362-6808 Contact Phone: 01/11/2001 Date of Collection: 100 Accuracy: Accuracy Value Unit: **FEET** Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.54669 Longitude: -83.21687

Tank ID:

Tank Status: Removed from Ground

Capacity: Not reported FUEL OIL Product: 01/01/1928 Install Date: Remove Date: 12/02/1993 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Unknown Piping Material: **Gravity Fed?** Piping Type: Construction Material: Unknown Impressed Device: No

B5 BALDWIN HOUSE RCRA-CESQG 1014925103
SSE 200 CHESTER ST MIK756294448

SSE 200 CHESTER ST < 1/8 BIRMINGHAM, MI 48009

0.097 mi.

Actual:

514 ft. Site 2 of 3 in cluster B

Relative: RCRA-CESQG:

Higher Date form received by agency: 04/12/2011

Facility name: BALDWIN HOUSE Facility address: 200 CHESTER ST

782 ft.

BIRMINGHAM, MI 48009

EPA ID: MIK756294448

Contact: DON DURR

Contact address: DON DORR

Contact address: Not reported

Not reported

Contact country: US

Contact telephone: (248) 540-4555

Contact email: SEAN.KELLY@WASTE365.COM

EPA Region: 05

EDR ID Number

Map ID MAP FINDINGS
Direction

Distance Elevation Si

Site Database(s) EPA ID Number

BALDWIN HOUSE (Continued)

1014925103

EDR ID Number

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: BALDWIN HOUSE - DON DURR

Owner/operator address: Not reported

Not reported

Owner/operator country:

Owner/operator telephone:
Legal status:
Owner/Operator Type:
Owner/Op start date:

Not reported
Private
Operator
Operator
04/11/2011

Owner/Op start date: 04/11/2011
Owner/Op end date: Not reported

Owner/operator name: BALDWIN HOUSE - DON DURR

Owner/operator address: Not reported

Not reported Not reported

Owner/operator country:
Owner/operator telephone:
Legal status:
Owner/Operator Type:
Owner/Op start date:
Owner/Op end date:
Not reported
Not reported
Owner
Owner
Owner
Owner
Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001

Direction Distance

Elevation Site Database(s) EPA ID Number

BALDWIN HOUSE (Continued)

1014925103

U001777213

N/A

LUST

UST

WDS

EDR ID Number

Waste name: 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.

Violation Status: No violations found

B6 PROPOSED BALDWIN HOUSE SITE

SSE 200 CHESTER

< 1/8 BIRMINGHAM, MI 48034

0.099 mi.

522 ft. Site 3 of 3 in cluster B

Relative:

Higher

LUST:

Facility ID: 00037464

Source: STATE OF MICHIGAN

Actual: Owner Name: Birmingham Ltd Divided Assc Ptn 782 ft. Owner Address: 29777 Telegraph Rd Ste 2100

Owner City, St, Zip: Southfield, MI 48034-7637

Owner Contact: Not reported
Owner Phone: (313) 358-2323

Country: USA

District: Region 1 - SE Michigan District Office

Site Name: Baldwin House Site

 Latitude:
 42.54567

 Longitude:
 -83.21853

 Date of Collection:
 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0628-93
Release Date: 05/19/1993
Substance Released: Heating Oil
Release Status: Closed
Release Closed Date: 03/23/1995

UST:

Facility ID: 00037464 Facility Type: CLOSED

Owner Name: BIRMINGHAM LTD DIVIDED ASSC PTN
Owner Address: 29777 TELEGRAPH RD STE 2100
Owner City,St,Zip: SOUTHFIELD, MI 48034-7637

Owner Country: USA

Owner Contact: Not reported
Owner Phone: (313) 358-2323
Contact: Mary Rubin
Contact Phone: (313) 358-2323
Date of Collection: 01/11/2001
Accuracy: 100

Accuracy Value Unit: FEET Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Direction Distance

Database(s) Elevation Site **EPA ID Number**

PROPOSED BALDWIN HOUSE SITE (Continued)

U001777213

EDR ID Number

Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.54567 Longitude: -83.21853

Tank ID:

Closed in Ground Tank Status: Capacity: Not reported Product: UNK Install Date: Not reported 01/01/1969 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Unknown Piping Type: Not reported Construction Material: Unknown Impressed Device: No

WDS:

MIK756294448 Site Id: WMD Id: 489340

Site Specific Name: **BALDWIN HOUSE** Mailing Address: 200 CHESTER ST

Mailing City/State/Zip: 48009 Mailing County: OAKLAND

C7 UST U003322266 **BIRMINGHAM CO (M57110)**

ESE 155 HENRIETTA 1/8-1/4 **BIRMINGHAM, MI 75202**

0.149 mi.

Site 1 of 2 in cluster C 788 ft. UST:

Relative:

Higher

Facility ID: 00011669 Facility Type: **ACTIVE**

Actual: 783 ft.

AT&T MICHIGAN Owner Name: 308 S AKARD STE 1700 Owner Address: Owner City,St,Zip: DALLAS, TX 75202

Owner Country: USA

Owner Contact: Lisa Espinosa Owner Phone: (877) 648-2073 Rayshell Wamsley Contact: Contact Phone: (214) 464-5394 Date of Collection: 01/11/2001 Accuracy: 100

Accuracy Value Unit: **FEET** Horizontal Datum: NAD83

STATE OF MICHIGAN Source:

Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.54619 Longitude: -83.21589

Tank ID:

Tank Status: **Currently In Use** N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BIRMINGHAM CO (M57110) (Continued)

U003322266

Capacity: 4000 Product: Diesel Install Date: 05/08/1969 Not reported Remove Date:

Tank Release Detection: Automatic Tank Gauging, Manual Tank Gauging Pipe Realease Detection: Interstitial Monitoring/Second Containment

Piping Material: Unknown

Piping Type: Suction: Valve at Tank Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: Currently In Use

Capacity: 4000 Product: Diesel 05/08/1969 Install Date: Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Manual Tank Gauging Pipe Realease Detection: Interstitial Monitoring/Second Containment

Piping Material: Unknown

Piping Type: Suction: Valve at Tank Fiberglass Reinforced plastic Construction Material:

Impressed Device:

Tank ID:

Tank Status: Currently In Use

Capacity: 4000 Product: Diesel 05/08/1969 Install Date: Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Manual Tank Gauging Pipe Realease Detection: Interstitial Monitoring/Second Containment

Piping Material: Unknown

Piping Type: Suction: Valve at Tank Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

C8 MICHIGAN BELL TELEPHONE COMPANY

ESE 155 HENRIETTA ST 1/8-1/4 **BIRMINGHAM, MI 48009**

0.150 mi.

793 ft. Site 2 of 2 in cluster C

RCRA-CESQG: Relative:

Date form received by agency: 12/05/2002 Higher

MICHIGAN BELL TELEPHONE COMPANY Facility name:

Actual: Facility address: 155 HENRIETTA ST 783 ft. BIRMINGHAM, MI 48009

MIT270013519

36 S FAIRVIEW - 4TH FLOOR Mailing address:

PARK RIDGE, IL 60068

Contact: ZANKHANA SHAH Contact address: 155 HENRIETTA ST

BIRMINGHAM, MI 48009

Contact country: US

Contact telephone: (847) 384-5694 1000237764

MIT270013519

RCRA-CESQG

FINDS

Direction Distance Elevation

tion Site Database(s) EPA ID Number

MICHIGAN BELL TELEPHONE COMPANY (Continued)

1000237764

EDR ID Number

Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: MICH BELL TELEPHONE

Owner/operator address: Not reported

Not reported

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Owner

Owner/Op start date:

Owner/Op end date:

Not reported

Not reported

Not reported

Owner/operator name: MICH BELL TELEPHONE

Owner/operator address: Not reported

Not reported

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Owner/Op start date:

Owner/Op end date:

Not reported

Not reported

Operator

Operator

Of/21/1998

Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Direction Distance

Elevation Site Database(s) EPA ID Number

MICHIGAN BELL TELEPHONE COMPANY (Continued)

1000237764

EDR ID Number

Historical Generators:

Date form received by agency: 06/01/1981

Site name: MICHIGAN BELL TELEPHONE COMPANY

Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001

Waste name: 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.

Waste code: D001

Waste name: 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.

Violation Status: No violations found

FINDS:

Registry ID: 110003719183

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

events and activities related to facilities that generate, transport,

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

BIRMINGHAM PUBLIC SCHOOLS INVENTORY

9 BIRMINGHAM PUBLIC SCHOOLS SSW 550 W MERRILL

1/8-1/4 BIRMINGHAM, MI 99999

0.164 mi. 868 ft.

Relative: INVENTORY:

Lower Bea Number: Not reported Township: Not reported Actual: District: Southeast MI 779 ft. Data Source: Part 213

Data Source: Part 213 Latitude: 42.54593 Longitude: -83.21942

LUST:

Facility ID: 50000584

Source: STATE OF MICHIGAN

Owner Name: Nrt Owner

S102851783

N/A

LUST

Direction Distance

EDR ID Number Database(s) Elevation Site **EPA ID Number**

BIRMINGHAM PUBLIC SCHOOLS (Continued)

S102851783

Owner Address: Unknown

Unknown, MI 99999 Owner City, St, Zip: Owner Contact: Not reported Owner Phone: Not reported Country: USA

District: Region 1 - SE Michigan District Office

Birmingham Public Schools Site Name:

42.54592 Latitude: Longitude: -83.21942 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

C-1462-90 Leak Number: Release Date: 08/08/1990 Substance Released: Not reported Release Status: Open Release Closed Date: Not reported

D10 EDR US Hist Auto Stat 1015424241

322 N OLD WOODWARD AVE N/A

ENE 1/8-1/4 **BIRMINGHAM, MI 48009**

0.171 mi.

Site 1 of 2 in cluster D 901 ft.

EDR Historical Auto Stations: Relative:

LONG LAKE AUTO LLC Name: Lower

Year:

Actual: Address: 322 N OLD WOODWARD AVE 771 ft.

COMERICA BANK BIRMINGHAM D11 **INVENTORY** S114028625

ENE 322 N. OLD WOODWARD **BIRMINGHAM, MI 48009** 1/8-1/4

0.171 mi.

901 ft. Site 2 of 2 in cluster D

INVENTORY: Relative:

Bea Number: Not reported Lower

Birmingham Township: Actual: District: Southeast MI 771 ft. Data Source: Part 201

Latitude: 42.54826 Longitude: -83.2162

N/A

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

12 JFK INVESTMENT COMPANY LLC RCRA-CESQG 1016676570 **ENE** 280 N OLD WOODWARD AVE FINDS MIK244262911

1/8-1/4 0.180 mi. 952 ft.

Actual:

779 ft.

RCRA-CESQG: Relative:

Lower Date form received by agency: 03/10/2014

BIRMINGHAM, MI 48009

JFK INVESTMENT COMPANY LLC Facility name: Facility address: 280 N OLD WOODWARD AVE

BIRMINGHAM, MI 48009

EPA ID: MIK244262911

Mailing address: 43252 WOODWARD AVE

SUTIE 210

BLOOMFIELD HILLS, MI 48302

Contact: RANDY L'HOTE Contact address: Not reported Not reported

Contact country: US

Contact telephone: (248) 763-6483

Contact email: RANDY@JFKINVESTMENTS.COM

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

> month, and accumulates 1000 kg or less of hazardous waste at any time: or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: JFK INVESTMENTS COMPANY LLC

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator

Owner/Op start date: 10/01/1995 Owner/Op end date: Not reported

JFK INVESTMENTS COMPANY LLC Owner/operator name:

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner

Owner/Op start date: 10/01/1995 Owner/Op end date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

JFK INVESTMENT COMPANY LLC (Continued)

1016676570

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

D001 Waste code:

Waste name: 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.

Violation Status: No violations found

FINDS:

Registry ID: 110058887744

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

13 EDR US Hist Auto Stat 1015298290 N/A

ESE 199 PIERCE ST

1/8-1/4 BIRMINGHAM, MI 48009

0.210 mi. 1109 ft.

EDR Historical Auto Stations: Relative:

Name: AUTOMOTIVE ADVISORY PARTNERS LLC Lower

> Year: 2009

Actual: 199 PIERCE ST Address:

781 ft.

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

E14 HOLLYWOOD SHERIDAN ASSOCIATES LLC RCRA NonGen / NLR 1014392513
ENE 185 OAKLAND AVE FINDS MIK674636881

1/8-1/4 BIRMINGHAM, MI 48009

0.212 mi.

1120 ft. Site 1 of 2 in cluster E

Relative: RCRA NonGen / NLR:

Lower Date form received by agency: 06/24/2010

Facility name: HOLLYWOOD SHERIDAN ASSOCIATES LLC

Actual: Facility address: 185 OAKLAND AVE

BIRMINGHAM, MI 48009

EPA ID: MIK674636881

Mailing address: 5700 CROOKS RD

TROY, MI 48098

Contact: JOHN PITRONE
Contact address: 185 OAKLAND AVE

BIRMINGHAM, MI 48009

Contact country: US

Contact telephone: (248) 879-7777 Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: HOLLYWOOD SHERIDAN ASSOCIATES LLC

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/02/1999
Owner/Op end date: Not reported

Owner/operator name: HOLLYWOOD SHERIDAN ASSOCIATES LLC

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private

Owner/Operator Type: Owner
Owner/Op start date: 01/02/1999
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

HOLLYWOOD SHERIDAN ASSOCIATES LLC (Continued)

1014392513

Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: Nο

Hazardous Waste Summary:

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

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.

Violation Status: No violations found

FINDS:

Registry ID: 110044620372

Environmental Interest/Information System

MS-ENSITE (Mississippi - Tools For Environmental Management And Protection Organizations). Mississippi Department of Environmental Quality (MDEQ) Office of Pollution Control's (OPC) maintains enSite. It is the electronic Environmental Site Information System that that regulates compliance assurance, permitting, activity tracking, and maintenance of a single agency interest-link to definition master

file.

EDR US Hist Auto Stat 1015277420

180 OAKLAND AVE N/A

ENE BIRMINGHAM, MI 48009 1/8-1/4

0.221 mi.

E15

1167 ft. Site 2 of 2 in cluster E

EDR Historical Auto Stations: Relative:

CLASSIC AUTO EXCHANGE INC Lower Name:

2004 Year:

Actual: 180 OAKLAND AVE Address: 776 ft.

16 **FULLER CENTRAL PARK PROPERTIES LLC** RCRA-CESQG 1016142307

111 S OLD WOODWARD **East**

1/8-1/4 BIRMINGHAM, MI 48009

0.236 mi. 1244 ft.

RCRA-CESQG: Relative:

Higher Date form received by agency: 03/12/2013

FULLER CENTRAL PARK PROPERTIES LLC Facility name:

Actual: Facility address: 111 S OLD WOODWARD

782 ft. BIRMINGHAM, MI 48009

> EPA ID: MIK478599987 Mailing address: 112 PEABODY ST

BIRMINGHAM, MI 48009

Contact: STEVEN G QUINTAL MIK478599987

FINDS

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

FULLER CENTRAL PARK PROPERTIES LLC (Continued)

1016142307

Contact address: Not reported

Not reported

Contact country: US

Contact telephone: (248) 642-0024

Contact email: STEVE@FULLERCENTRALPARK.COM

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/Op end date:

Owner/operator name: FULLER CENTRAL PARK PROPERTIES LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 06/01/1976

Owner/operator name: FULLER CENTRAL PARK PROPERTIES LLC

Not reported

Owner/operator address: Not reported Not reported Owner/operator country: Not reported

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 06/01/1976 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FULLER CENTRAL PARK PROPERTIES LLC (Continued)

1016142307

Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: Nο

Hazardous Waste Summary:

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

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.

Violation Status: No violations found

FINDS:

Registry ID: 110055448608

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

17 **DAKOTA** North 280 HARMON ST 1/8-1/4 BIRMINGHAM, MI 48009

RCRA NonGen / NLR 1007099707 MIK718658982

0.238 mi. 1255 ft.

RCRA NonGen / NLR: Relative:

Lower Date form received by agency: 06/19/2001 Facility name: DAKOTA

Actual: 280 HARMON ST Facility address: 739 ft. BIRMINGHAM, MI 48009

EPA ID: MIK718658982 Contact: JOE TRIBUZIO Contact address: 280 HARMON ST

BIRMINGHAM, MI 48009

Contact country: US

Contact telephone: (248) 594-6380 Not reported Contact email:

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: DAKOTA Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

DAKOTA (Continued) 1007099707

Legal status: Private Operator Owner/Operator Type: Owner/Op start date: 06/19/2001 Owner/Op end date: Not reported

DAKOTA Owner/operator name: Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 06/19/2001 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: Nο Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

D001 Waste code:

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

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.

Violation Status: No violations found

18 **BROWN STREET OFFICE BUILDING**

SE **200 EAST BROWN** 1/4-1/2 **BIRMINGHAM, MI**

0.315 mi. 1661 ft.

BEA: Relative:

Secondary Address: Not reported Lower

BEA Number: 3891

Actual: District: Southeast MI 770 ft. Date Received: 05/02/2008

> SMS & Associates, LLC Submitter Name:

Petition Determination: Affirmed Petition Disclosure:

S109094147

N/A

BEA

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BROWN STREET OFFICE BUILDING (Continued)

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: tiernang Division Assigned: RRD

CATALYST DEVELOPMENT CO. 8, LLC F19

34977 WOODWARD AVENUE East

1/4-1/2 OAKLAND (County), MI

0.359 mi.

1895 ft. Site 1 of 3 in cluster F

INVENTORY: Relative:

Bea Number: 200804000LV Lower Birmingham Township: Actual: District: Southeast MI 779 ft.

Data Source: **BEA** Latitude: 42.54663 Longitude: -83.21171

G20 SUNOCO #0008-4178 LUST U003320721 35001 WOODWARD AVE **East** UST N/A

1/4-1/2 **BIRMINGHAM, MI 48009 BEA** 0.361 mi. **WDS**

1907 ft. Site 1 of 2 in cluster G

Relative:

LUST: Lower

Facility ID: 00005935

Source: STATE OF MICHIGAN Actual: Owner Name: Sunoco Inc (R&M) 779 ft. Owner Address: 1735 Market St 12nd Floor Owner City, St, Zip: Philadelphia, PA 19103

> Owner Contact: **Environmental Compliance Officer**

Owner Phone: (215) 246-8513

Country: ÙSA

District: Region 1 - SE Michigan District Office

Site Name: Sunoco #0008-4178

42.54698 Latitude: Longitude: -83.21428 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0924-96 11/07/1996 Release Date: Substance Released: Unknown Release Status: Closed Release Closed Date: 06/08/2010

UST:

Facility ID: 00005935 Facility Type: **CLOSED**

Owner Name: SUNOCO INC (R&M)

Owner Address: 1735 MARKET ST 12ND FLOOR S109094147

INVENTORY \$114029235

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

SUNOCO #0008-4178 (Continued)

U003320721

EDR ID Number

Owner City, St, Zip: PHILADELPHIA, PA 19103

Owner Country: USA

Owner Contact: Environmental Compliance Officer

 Owner Phone:
 (215) 246-8513

 Contact:
 Kathleen McCaney

 Contact Phone:
 (215) 246-8513

 Date of Collection:
 01/11/2001

 Accuracy:
 100

Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.54698 Longitude: -83.21428

Tank ID:

Tank Status: Removed from Ground

Capacity: 6000
Product: Diesel,6
Install Date: 05/05/1982
Remove Date: 04/01/1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Composite(Steel w/Fiberglass), Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 1000
Product: Used Oil
Install Date: 05/05/1970
Remove Date: 04/01/1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Piping Material: Bare Steel, Fiberglass reinforced plastic

Piping Type: Gravity Fed?

Construction Material: Asphalt Coated or Bare Steel, Composite (Steel w/Fiberglass)

Impressed Device: No

Tank ID: 3

Tank Status: Removed from Ground

 Capacity:
 6000

 Product:
 Gasoline

 Install Date:
 05/05/1981

 Remove Date:
 10/01/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control, Tank Tightness Testing

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Composite(Steel w/Fiberglass)

Direction Distance

Elevation Site Database(s) EPA ID Number

SUNOCO #0008-4178 (Continued)

U003320721

EDR ID Number

Tank ID: 4

Tank Status: Removed from Ground

 Capacity:
 8000

 Product:
 Gasoline

 Install Date:
 05/05/1982

 Remove Date:
 10/01/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control, Tank Tightness Testing

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Composite(Steel w/Fiberglass), Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 5

Tank Status: Removed from Ground

 Capacity:
 8000

 Product:
 Gasoline

 Install Date:
 05/05/1982

 Remove Date:
 10/01/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control, Tank Tightness Testing

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 1000

 Product:
 Used Oil

 Install Date:
 04/01/1988

 Remove Date:
 10/14/1998

Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Fiberglass reinforced plastic

Piping Type: Gravity Fed?

Construction Material: Composite(Steel w/Fiberglass)

Impressed Device: No

BEA:

Secondary Address: Not reported BEA Number: 2477

District: Southeast MI
Date Received: 07/30/2004

Submitter Name: Birmingham Property, LLC

Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: mitchelf

Division Assigned: Environmental Response Division

WDS:

Site Id: MID087750204

Direction Distance

Elevation Site Database(s) **EPA ID Number**

SUNOCO #0008-4178 (Continued) U003320721

WMD Id: 397695

HORTONS BIRMINGHAM SUNOCO NUMBER 84178 Site Specific Name:

Mailing Address: 1801 MARKET STREET

Mailing City/State/Zip: 19103 Mailing County: Not reported

G21 SUNOCO GASOLINE STATION (FORMER) **INVENTORY** S114038915

East 35001 WOODWARD AVENUE

1/4-1/2 OAKLAND (County), MI 48009

0.361 mi.

1907 ft. Site 2 of 2 in cluster G

INVENTORY: Relative:

200402477LV Bea Number: Lower Township: Birmingham Actual: District: Southeast MI 779 ft.

Data Source: BEA

> Latitude: Not reported Longitude: Not reported

INVENTORY F22 **SHELL - HUNTER** U003319719 34977 WOODWARD AVE LUST East N/A 1/4-1/2 BIRMINGHAM, MI 49007 UST

0.374 mi.

1977 ft. Site 2 of 3 in cluster F

INVENTORY: Relative:

Bea Number: Lower

Not reported Township: Actual: District: Southeast MI 778 ft. Data Source: Part 213

42.53925 Latitude: -83.20683 Longitude:

LUST:

00002267 Facility ID:

Not reported

STATE OF MICHIGAN Source: Catalyst Development Co LLC Owner Name: Owner Address: 100 W Michigan Ave Ste 300

Owner City, St, Zip: Kalamazoo, MI 49007 Owner Contact: Not reported Owner Phone: (269) 492-6811

Country: USA

District: Region 1 - SE Michigan District Office

Shell - Hunter Site Name: 42.53925 Latitude: Longitude: -83.20683 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0274-08 **EDR ID Number**

N/A

Direction
Distance

Elevation Site Database(s) EPA ID Number

SHELL - HUNTER (Continued)

U003319719

EDR ID Number

Release Date: 12/10/2008
Substance Released: Used Oil
Release Status: Open
Release Closed Date: Not reported

Leak Number:C-0480-89Release Date:12/08/1989Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:05/23/2000

Leak Number:C-1061-89Release Date:12/08/1989Substance Released:GasolineRelease Status:ClosedRelease Closed Date:05/23/2000

Leak Number: C-1336-98
Release Date: 12/30/1998
Substance Released: Unknown,Unknown

Release Status: Closed
Release Closed Date: 08/04/1999

UST:

Facility ID: 00002267 Facility Type: CLOSED

Owner Name: CATALYST DEVELOPMENT CO LLC
Owner Address: 100 W MICHIGAN AVE STE 300

Owner City,St,Zip: KALAMAZOO, MI 49007

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (269) 492-6811
Contact: Ms Patti Ownes
Contact Phone: (269) 492-6811
Date of Collection: 01/11/2001
Accuracy: 100

Accuracy Value Unit: FEET Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.53925 Longitude: -83.20683

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 8000

 Product:
 Gasoline

 Install Date:
 09/01/1971

 Remove Date:
 12/07/1999

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Line Tightness Testing
Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Direction Distance

Elevation Site Database(s) EPA ID Number

SHELL - HUNTER (Continued)

U003319719

EDR ID Number

Tank ID: 2

Tank Status: Removed from Ground

 Capacity:
 10000

 Product:
 Gasoline

 Install Date:
 12/01/1982

 Remove Date:
 12/07/1999

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Line Tightness Testing
Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 3

Tank Status: Removed from Ground

 Capacity:
 10000

 Product:
 Gasoline

 Install Date:
 12/01/1982

 Remove Date:
 12/07/1999

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Line Tightness Testing
Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 550
Product: Used Oil
Install Date: 04/15/1949
Remove Date: 10/13/1989
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 5

Tank Status: Removed from Ground

 Capacity:
 15000

 Product:
 Gasoline

 Install Date:
 12/01/1999

 Remove Date:
 10/29/2003

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled

Piping

Piping Material: Double Walled, ENVIRON GEOFLEX

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Direction Distance

Elevation Site Database(s) EPA ID Number

SHELL - HUNTER (Continued)

U003319719

EDR ID Number

Tank ID: 6

Tank Status: Removed from Ground

Capacity: 12000

Product: Gasoline, Diesel Install Date: 12/01/1999 Remove Date: 10/29/2003

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled

Piping

Piping Material: Double Walled, ENVIRON GEOFLEX

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 9

Tank Status: Removed from Ground

 Capacity:
 1000

 Product:
 Used Oil

 Install Date:
 12/01/1989

 Remove Date:
 12/07/1999

Tank Release Detection: Inter Monitoring Double Walled Tank

Pipe Realease Detection: ,GroundWater Monitoring,Interstitial Monitoring/Second

Containment, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic Piping Type: Gravity Fed?, Pressure

Construction Material: Double Walled, Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 10

Tank Status: Removed from Ground

Capacity: Not reported Product: Kerosene Install Date: Not reported Remove Date: 12/01/1998 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Bare Steel

Piping Type: Suction: Valve at Tank
Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 1

Tank Status: Removed from Ground

Capacity: 500
Product: Used Oil
Install Date: Not reported
Remove Date: 02/09/2009
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Direction Distance

Elevation Site **EPA ID Number** Database(s)

F23 **CATALYST DEVELOPMENT CO 8 LLC** SPILLS S104912434 N/A

East 34977 WOODWARD AVE AUL 1/4-1/2 **BIRMINGHAM, MI 48104 BEA WDS**

0.374 mi.

1977 ft. Site 3 of 3 in cluster F

PEAS: Relative:

12/23/2000 Incident Date: Lower

Office Status: Not reported Actual: Initials of Incoming Operator: Not reported 778 ft. Time Received by DNRE Staff: Not reported Time Occur: Not reported

12/23/2000 Date Of PEAS Call:

Complainant / Company: Sgt. Henry w/Michigan State Police

Complainant Address: Unknown Company Involved: Foster's Oil, Inc. DEQ Division Involved: SWQD/ State Police

Incident Description: into a storm drain. The Birmingham Fire Department is on the scene.A

gas tanker delivering gasoline accidentally pumped 103 gallons of

gasoline

Description: Not reported

AUL:

Status: Pending Site Name: Not reported Property: On-site location

Land Use Restriction Type: RC Program Type: Part 213 Program Support Assigned User: Not reported Program Support Assigned Date: Not reported Legal Description Of Property: Not reported Based On The Deq Ref #: 11121309003 MDEQ Reference Number: RC-RRD-213-09-003

Property Or Description Restricted Area: Not reported Lead Division: **RRD**

File Name Of Hyperlinked Legal Doc: Not reported

Mapped Polygons Area In Acres: 0.299999999999999

Mapped Polygons Area In Square Miles: Not reported Not reported Date Data Entry Started: Date Data Entry Finished: Not reported

Individual Or Staff Assoc With The Mapping: Not reported Program Used To Map Restricted Features: Not reported Date Legal Paperwork Stamped/Filed/Register Of Deeds: 01/12/2009

Commercial I Land Use Restriction: Commercial li Land Use Restriction: 0 Commercial lii Land Use Restriction: 0 Commercial Iv Land Use Restriction: 0 Industrial Land Use Restriction: 0 Residential Land Use Restriction: 1 Recreational Land Use Restriction: 0 0 Multiple Land-Use Restrictions: Site Specific Restrictions: 0 Groundwater Consumption Restrictions: 0 **Groundwater Contact Restrictions:** Special Well Construction Requirements: 0 Special Building Restrictions:

Excavation And Soil Movement Restrictions: 0 Soil Movement Requirements: 0 0 There Is A Restriction On All Construction:

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CATALYST DEVELOPMENT CO 8 LLC (Continued)

S104912434

Monitoring Well Protected, No Tampering Or Removal: 0 0 There Is An Exposure Barrier In Place: There Is A Health And Safety Plan: 0 There Is A Permanent Marker On The Site: 0

Map Comments: Not reported

Gas Station, Birmingham Services Inc Comment:

BEA:

Secondary Address: (FORMERLY 120 S. HUNTER STREET)

BEA Number: 1071

Southeast MI District: Date Received: 02/07/2000 Submitter Name: ANDREW BOJI Petition Determination: No Request

Petition Disclosure: 0

Same Hazardous Substance(s) Category:

Determination 20107A: No Request Reviewer: temppm

Division Assigned: Storage Tank Division

Secondary Address: Not reported BEA Number: 4000 District: Southeast MI 09/12/2008 Date Received:

Submitter Name: Catalyst Development Co. 8, LLC

Petition Determination: No Request

Petition Disclosure:

Category: Same Hazardous Substance(s)

Determination 20107A: No Request Reviewer: tiernang

Storage Tank Division Division Assigned:

Secondary Address: (Formerly 120 Hunter)

BEA Number: 2187

District: Southeast MI Date Received: 11/05/2003

Submitter Name: Fuller Central Park Properties IV, LLC

Petition Determination: Affirmed

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: Affirmed Reviewer: mitchelf

Division Assigned: Storage Tank Division

WDS:

Site Id: MIR000044230

WMD Id: 413573

CATALYST DEVELOPMENT CO 8 LLC Site Specific Name:

Mailing Address: 34977 WOODWARD AVE

Mailing City/State/Zip: 48104 Mailing County: OAKLAND

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

INVENTORY

S114029255

N/A

24 **WOODWARD BROWN ASSOCIATES, LLC**

ESE 34901 WOODWARD AVENUE 1/4-1/2 OAKLAND (County), MI 48073

0.390 mi. 2060 ft.

INVENTORY: Relative:

201004572LV Lower Bea Number:

Township: Birmingham Actual: District: Southeast MI 773 ft. Data Source: BEA

Latitude: 42.54567 Longitude: -83.21134

H25 **CHINESE RESTAURANT** S108236717 **BEA** N/A

856 NORTH OLD WOODWARD AVENUE North

1/4-1/2 BIRMINGHAM, MI 48009

0.391 mi.

2063 ft. Site 1 of 2 in cluster H

BEA: Relative:

Secondary Address: Not reported Lower

BEA Number: 3364

Actual: District: Southeast MI 751 ft. 11/17/2006 Date Received:

Grant Perry Development Company Submitter Name:

Petition Determination: No Request

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request mitchelf Reviewer:

Division Assigned: Storage Tank Division

H26 **CHINESE RESTAURANT** INVENTORY S114033310 N/A

North **856 NORTH OLD WOODWARD AVENUE**

OAKLAND (County), MI 48009 1/4-1/2

0.391 mi.

2063 ft. Site 2 of 2 in cluster H

INVENTORY: Relative:

Bea Number: 200603364LV Lower

Township: Birmingham Actual: District: Southeast MI

751 ft. Data Source: **BEA**

> Latitude: Not reported Longitude: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

127 **WOODWARD BROWN ASSOCIATES, LLC BEA** S110624723 **ESE**

34901 WOODWARD AVENUE N/A

1/4-1/2 BIRMINGHAM, MI 48073

0.392 mi.

2069 ft. Site 1 of 3 in cluster I

BEA: Relative:

Lower Secondary Address: Not reported

BEA Number: 4572

Actual: District: Southeast MI 775 ft. 09/16/2010 Date Received:

> Submitter Name: Woodward Brown Associates, LLC

Petition Determination: No Request

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: berakr Division Assigned: **RRD**

US BROWNFIELDS 128 **WEISS SAMONA** 1016357344 34901 WOODWARD AVENUE **ESE FINDS** N/A

1/4-1/2 BIRMINGHAM, MI 48009

0.392 mi.

2071 ft. Site 2 of 3 in cluster I

US BROWNFIELDS: Relative:

Recipient name: Oakland County Lower Grant type: Assessment

Actual: Property name: WEISS SAMONA 775 ft. Property #: Not reported Parcel size: .52

> Property Description: The Property was developed as a feed mill in 1915. From at least 1921

to at least 1931 the Property was used as a lumber and coal yard, with up to nine buildings and several areas labeled as lumber piles. By 1944 the northern portion of the Property was developed with a bowling alley and by 1949 the southwest corner of the Property was developed with a hand laundry building. The southern portion of the Property was occupied by a used car lot by 1960. The bowling alley reportedly operated until at least 1973 when it was occupied for retail uses. A commercial strip mall building was constructed by 1974 and occupied the southern portion of the Property until 2005. Since the demolition of the buildings in 2005, the Property has been used

as a parking lot.

Latitude: Not reported Not reported Longitude: Not reported HCM label: Map scale: Not reported Point of reference: Not reported Datum: Not reported ACRES property ID: 115761 Start date: Not reported Not reported Completed date: Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding: 2800

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding: Not reported Not reported Redev. funding source: Redev. funding entity name: Not reported

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WEISS SAMONA (Continued)

1016357344

EDR ID Number

Redevelopment start date: Not reported

Assessment funding entity: **EPA**

Not reported Cleanup funding entity:

Grant type: Н

Accomplishment type: Phase I Environmental Assessment

Accomplishment count:

00E92301 Cooperative agreement #: Ownership entity: Private Not reported Current owner: Did owner change: Not reported Cleanup required: Unknown Video available: Not reported

Photo available: Yes Institutional controls required:

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported Not reported IC cat. gov. controls: IC cat. enforcement permit tools: Not reported IC in place date: Not reported IC in place: Not reported State/tribal program date: Not reported State/tribal program ID: Not reported Not reported State/tribal NFA date: Air contaminated: Not reported Not reported Air cleaned: Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported

Groundwater affected:

Groundwater cleaned: Not reported

Lead contaminant found:

Not reported Lead cleaned up: No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported

Other metals found: Υ

Other metals cleaned: Not reported Other contaminants found: Not reported Not reported Other contams found description: PAHs found: Not reported Not reported PAHs cleaned up: Not reported PCBs found: PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected:

Soil cleaned up: Not reported Surface water cleaned: Not reported

VOCs found:

VOCs cleaned: Not reported Not reported Cleanup other description: Num. of cleanup and re-dev. jobs: Not reported Map ID MAP FINDINGS
Direction

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

WEISS SAMONA (Continued) 1016357344

Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: .52

Not reported Past use industrial acreage: Future use greenspace acreage: Not reported Not reported Future use residential acreage: Future use commercial acreage: Not reported Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported Arsenic cleaned up: Not reported Cadmium cleaned up: Not reported Chromium cleaned up: Not reported Not reported Copper cleaned up: Iron cleaned up: Not reported Not reported mercury cleaned up: nickel cleaned up: Not reported Not reported No clean up: Pesticides cleaned up: Not reported Selenium cleaned up: Not reported Not reported SVOCs cleaned up: Not reported Unknown clean up: Not reported Arsenic contaminant found: Cadmium contaminant found: Not reported Chromium contaminant found: Not reported Not reported Copper contaminant found: Iron contaminant found: Not reported Mercury contaminant found: Not reported Nickel contaminant found: Not reported Not reported No contaminant found: Pesticides contaminant found: Not reported Selenium contaminant found: Not reported Not reported SVOCs contaminant found: Unknown contaminant found: Not reported Not reported Future Use: Multistory Media affected Bluiding Material: Not reported Media affected indoor air: Not reported Building material media cleaned up: Not reported Indoor air media cleaned up: Not reported Unknown media cleaned up: Not reported Not reported Past Use: Multistory

Recipient name:
Grant type:
Assessment
Property name:
WEISS SAMONA
Property #:
Not reported

Parcel size: .52

Property Description: The Property was developed as a feed mill in 1915. From at least 1921

to at least 1931 the Property was used as a lumber and coal yard, with up to nine buildings and several areas labeled as lumber piles. By 1944 the northern portion of the Property was developed with a bowling alley and by 1949 the southwest corner of the Property was developed with a hand laundry building. The southern portion of the Property was occupied by a used car lot by 1960. The bowling alley reportedly operated until at least 1973 when it was occupied for retail uses. A commercial strip mall building was constructed by 1974 and occupied the southern portion of the Property until 2005. Since

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WEISS SAMONA (Continued)

1016357344

EDR ID Number

the demolition of the buildings in 2005, the Property has been used

as a parking lot. Not reported

Latitude: Longitude: Not reported HCM label: Not reported Not reported Map scale: Point of reference: Not reported Not reported Datum: ACRES property ID: 115761 Start date: Not reported Completed date: Not reported Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding:

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Not reported Redevelopment funding: Redev. funding source: Not reported Redev. funding entity name: Not reported Redevelopment start date: Not reported

Assessment funding entity: **EPA**

Not reported Cleanup funding entity:

Grant type: Н

Accomplishment type: Phase II Environmental Assessment

Accomplishment count:

Cooperative agreement #: 00E92301 Ownership entity: Private Current owner: Not reported Did owner change: Not reported Cleanup required: Unknown Video available: Not reported

Photo available: Yes Institutional controls required:

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported Not reported IC cat. gov. controls: IC cat. enforcement permit tools: Not reported IC in place date: Not reported IC in place: Not reported State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Not reported Air cleaned: Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected:

Groundwater cleaned: Not reported

Lead contaminant found:

Not reported Lead cleaned up: No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WEISS SAMONA (Continued) Other metals found:

Sediments found:

Sediments cleaned:

1016357344

EDR ID Number

Not reported Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: PAHs found: Not reported Not reported PAHs cleaned up: PCBs found: Not reported Not reported PCBs cleaned up: Petro products found: Not reported Petro products cleaned: Not reported

Soil affected:

Soil cleaned up: Not reported Surface water cleaned: Not reported

Not reported

Not reported

Not reported Not reported

Not reported

Not reported Not reported

Not reported

Not reported

Not reported

VOCs found:

VOCs cleaned: Not reported Cleanup other description: Not reported Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: .52

Not reported Past use industrial acreage: Future use greenspace acreage: Not reported Future use residential acreage: Not reported Not reported Future use commercial acreage: Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported Arsenic cleaned up: Not reported Cadmium cleaned up: Not reported Chromium cleaned up: Not reported Not reported Copper cleaned up: Iron cleaned up: Not reported Not reported mercury cleaned up: nickel cleaned up: Not reported No clean up: Not reported Pesticides cleaned up: Not reported Selenium cleaned up: Not reported SVOCs cleaned up: Not reported Not reported Unknown clean up: Not reported Arsenic contaminant found: Cadmium contaminant found: Not reported Not reported Chromium contaminant found: Not reported Copper contaminant found: Iron contaminant found: Not reported Mercury contaminant found: Not reported Nickel contaminant found: Not reported

No contaminant found:

Pesticides contaminant found: Selenium contaminant found:

SVOCs contaminant found:

Media affected indoor air:

Unknown contaminant found: Future Use: Multistory

Media affected Bluiding Material:

Building material media cleaned up: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WEISS SAMONA (Continued) 1016357344

Indoor air media cleaned up: Not reported Not reported Unknown media cleaned up: Past Use: Multistory Not reported

FINDS:

Registry ID: 110043085050

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)

is an federal online database for Brownfields Grantees to

electronically submit data directly to EPA.

WOODWARD BROWN ASSOC LLC INVENTORY S114029254 129 N/A

ESE 34901 WOODWARD 1/4-1/2 BIRMINGHAM, MI 48009

0.392 mi.

2071 ft. Site 3 of 3 in cluster I

INVENTORY: Relative:

Bea Number: Not reported Lower Township: Birmingham Actual: District: Southeast MI

775 ft. Data Source: Part 201 Latitude: 42.54567 Longitude: -83.21134

Pending

J30 MOBIL #03-K9Q AUL S117057666 1065 WEST MAPLE ROAD wsw N/A

BIRMINGHAM, MI 48009 1/4-1/2

0.400 mi.

Lower

Site 1 of 2 in cluster J 2113 ft.

AUL: Relative: Status:

Site Name: Not reported Actual: Property: on-site 740 ft. Land Use Restriction Type: RC

> Program Type: Part 213 Program Support Assigned User: Not reported Not reported Program Support Assigned Date: Legal Description Of Property: Not reported Based On The Deq Ref #: 11121314091 MDEQ Reference Number: RC-RRD-213-14-091

Property Or Description Restricted Area: Not reported

Lead Division: RD

Not reported File Name Of Hyperlinked Legal Doc: Mapped Polygons Area In Acres: Not reported Mapped Polygons Area In Square Miles: Not reported Date Data Entry Started: Not reported Date Data Entry Finished: Not reported

Individual Or Staff Assoc With The Mapping: Not reported Program Used To Map Restricted Features: Not reported Date Legal Paperwork Stamped/Filed/Register Of Deeds: Not reported

Commercial I Land Use Restriction:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MOBIL #03-K9Q (Continued) S117057666

Commercial li Land Use Restriction: 0 0 Commercial lii Land Use Restriction: Commercial Iv Land Use Restriction: 0 Industrial Land Use Restriction: 0 Residential Land Use Restriction: 0 Recreational Land Use Restriction: 0 Multiple Land-Use Restrictions: 0 Site Specific Restrictions: 0 Groundwater Consumption Restrictions: 0 **Groundwater Contact Restrictions:** Special Well Construction Requirements: 0 Special Building Restrictions:

Excavation And Soil Movement Restrictions: 0 Soil Movement Requirements: 0 There Is A Restriction On All Construction: 0 Monitoring Well Protected, No Tampering Or Removal: 0 There Is An Exposure Barrier In Place: 0 There Is A Health And Safety Plan: 0 There Is A Permanent Marker On The Site: 0

Map Comments: Not reported

Comment: April 24, 2014 consultant requested DEQ reference #.

J31 MOBIL #03-K9Q **WSW** 1065 W MAPLE RD 1/4-1/2 **BIRMINGHAM, MI 48009**

0.400 mi.

2113 ft. Site 2 of 2 in cluster J

INVENTORY: Relative:

Bea Number: Not reported Lower Township: Not reported

Actual: District: Southeast MI 740 ft. Part 213 Data Source: Latitude: 42.54759 Longitude: -83.20581

LUST:

00016689 Facility ID:

Source: STATE OF MICHIGAN Owner Name: Hannawa & Adams LLC Owner Address: 1065 E Maple Rd Owner City, St, Zip: Birmingham, MI 48009 Kyle Hannawa Owner Contact:

Owner Phone: Not reported Country: USA

District: Region 1 - SE Michigan District Office

Site Name: Mobil SS #03-K9Q Latitude: 42.54758

Longitude: -83.20580 Date of Collection: 10/04/2007

GPS Code Meas. Standard Positioning Service SA Off Method of Collection:

100 Accuracy: Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight) **INVENTORY**

LUST

UST

U004117527

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MOBIL #03-K9Q (Continued)

U004117527

Leak Number: C-0322-04 Release Date: 07/15/2004

Substance Released: Gasoline, Gasoline, Used Oil

Release Status: Open Release Closed Date: Not reported

Leak Number: C-0571-93 Release Date: 05/12/1993 Substance Released: Used Oil, Gasoline

Release Status: Closed Release Closed Date: 07/31/1996

Leak Number: C-1693-91 Release Date: 08/19/1991 Substance Released: Unknown Release Status: Closed Release Closed Date: 07/31/1996

Leak Number: C-1748-91 Release Date: 08/26/1991 Substance Released: Unknown Release Status: Closed Release Closed Date: 07/31/1996

UST:

Facility ID: 00016689 Facility Type: **ACTIVE**

Owner Name: HANNAWA & ADAMS LLC Owner Address: 1065 E MAPLE RD Owner City, St, Zip: BIRMINGHAM, MI 48009

Owner Country: USA

Owner Contact: Kyle Hannawa Owner Phone: Not reported Contact: Kyle Hannawa Contact Phone: (248) 755-2509 Date of Collection: 10/04/2007 Accuracy: 100 Accuracy Value Unit: **FEET**

Horizontal Datum: NAD83

STATE OF MICHIGAN Source:

Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Latitude: 42.54758 Longitude: -83.20580

Tank ID:

Currently In Use Tank Status:

10000 Capacity: Product: Gasoline Install Date: 04/21/1984 Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

MOBIL #03-K9Q (Continued)

U004117527

Tank ID:

Currently In Use Tank Status:

Capacity: 8000 Product: Gasoline Install Date: 04/21/1984 Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: **Currently In Use**

6000 Capacity: Product: Gasoline Install Date: 04/21/1984 Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Fiberglass reinforced plastic Piping Material:

Piping Type: Pressure

Construction Material: Fiberglass Reinforced plastic

Impressed Device: Nο

Tank ID:

Tank Status: Removed from Ground

Capacity: 1000 Product: Used Oil Install Date: 06/01/1984 Remove Date: 06/01/2005

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Fiberglass reinforced plastic Piping Material:

Piping Type: Gravity Fed?

Composite(Steel w/Fiberglass), Epoxy Coated Steel, Fiberglass Reinforced Construction Material:

plastic

Impressed Device: No

K32 **GREEN'S ART SUPPLY US BROWNFIELDS** 1016603767 **400 SOUTH OLD WOODWARD AVENUE ESE** N/A

1/4-1/2 **BIRMINGHAM, MI 48009** 0.408 mi.

2156 ft. Site 1 of 2 in cluster K

US BROWNFIELDS: Relative:

Oakland County Michigan Recipient name: Lower

Grant type: Assessment

Actual: GREEN'S ART SUPPLY Property name:

767 ft. 19-36-205-042 Property #:

Parcel size:

Property Description: Original development of the subject property occurred prior to 1921

with four residential dwellings. The former northern dwelling was converted into a vulcanizing operation between 1921 and 1926, which operated at the property until the structure was demolished in 1930.

Direction Distance

Elevation Site Database(s) EPA ID Number

GREEN'S ART SUPPLY (Continued)

1016603767

EDR ID Number

The eastern dwelling was redeveloped as a plumbing supply company between 1921 and 1926, which operated (and included several additions) until the early 1950s when the building was demolished. The central dwelling was demolished in 1930, and the northern and central portions of the subject property were redeveloped with a gasoline filling station and automotive service garage in late 1930. The former western dwelling was demolished between 1931 and 1940, and

the area was converted into a parking lot. The northern and central

portions of the property were occupied by Sternals Auto

Supply/Service until 1957 and Standard Oil Company in at least 1945.

The southern warehouse portion of the current building was constructed between 1949 and 1952, and was historically utilized as offices for an Edsel automotive dealership until approximately 1957. The building was redeveloped for retail use in 1958 and the northern portion of the building was expanded between 1963 and 1967 to include the current layout. The property has been occupied by Greens Art

Supply since 1958.

Latitude: 42.543816 Longitude: -83.21211

HCM label: Address Matching-House Number

Map scale: Not reported

Point of reference: Entrance Point of a Facility or Station
Datum: North American Datum of 1983

ACRES property ID: 170095

Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported
Assessment funding: 9900

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding:
Redev. funding source:
Redev. funding entity name:
Redevelopment start date:
Assessment funding entity:
Cleanup funding entity:

Not reported
Not reported
Not reported
Not reported
Not reported

Grant type: F

Accomplishment type: Phase II Environmental Assessment

Accomplishment count: 0

Cooperative agreement #: 00E01208
Ownership entity: Not reported
Current owner: Not reported
Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: N

IC Category proprietary controls:
IC cat. info. devices:
IC cat. gov. controls:
IC cat. enforcement permit tools:
IC in place date:

Not reported
Not reported
Not reported
Not reported

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported

Map ID MAP FINDINGS
Direction

Elevation Site

Distance

Database(s)

GREEN'S ART SUPPLY (Continued)

1016603767

EDR ID Number

EPA ID Number

Air contaminated: Not reported Not reported Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Controled substance found: Not reported Not reported Controled substance cleaned: Not reported Drinking water affected: Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found:

Lead cleaned up: Not reported No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported Other metals found: Not reported Not reported Other metals cleaned: Other contaminants found: Not reported Other contams found description: Not reported PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported

Soil affected: Y
Soil cleaned up: Not reported
Surface water cleaned: Not reported

VOCs found:

Sediments cleaned:

VOCs cleaned:

Cleanup other description:

Num. of cleanup and re-dev. jobs:

Past use greenspace acreage:

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Past use commercial acreage: .58

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported Not reported Future use commercial acreage: Not reported Future use industrial acreage: Greenspace acreage and type: Not reported Not reported Superfund Fed. landowner flag: Not reported Arsenic cleaned up: Cadmium cleaned up: Not reported Chromium cleaned up: Not reported Copper cleaned up: Not reported Iron cleaned up: Not reported Not reported mercury cleaned up: nickel cleaned up: Not reported No clean up: Not reported Pesticides cleaned up: Not reported Not reported Selenium cleaned up: SVOCs cleaned up: Not reported Unknown clean up: Not reported Arsenic contaminant found: Not reported Map ID MAP FINDINGS
Direction

Distance
Elevation Site Database(s)

GREEN'S ART SUPPLY (Continued)

1016603767

EDR ID Number

EPA ID Number

Cadmium contaminant found: Not reported Not reported Chromium contaminant found: Not reported Copper contaminant found: Not reported Iron contaminant found: Mercury contaminant found: Not reported Not reported Nickel contaminant found: Not reported No contaminant found: Pesticides contaminant found: Not reported Not reported Selenium contaminant found: SVOCs contaminant found: Not reported Not reported Unknown contaminant found:

Future Use: Multistory 0

Media affected Bluiding Material:
Media affected indoor air:
Not reported

Recipient name: Oakland County Michigan

Grant type: Assessment

Property name: GREEN'S ART SUPPLY

Property #: 19-36-205-042

Parcel size: .58

Property Description: Original development of the subject property occurred prior to 1921

with four residential dwellings. The former northern dwelling was converted into a vulcanizing operation between 1921 and 1926, which operated at the property until the structure was demolished in 1930. The eastern dwelling was redeveloped as a plumbing supply company between 1921 and 1926, which operated (and included several additions) until the early 1950s when the building was demolished. The central dwelling was demolished in 1930, and the northern and central portions of the subject property were redeveloped with a gasoline filling station and automotive service garage in late 1930.

The former western dwelling was demolished between 1931 and 1940, and

the area was converted into a parking lot. The northern and central

portions of the property were occupied by Sternals Auto

Supply/Service until 1957 and Standard Oil Company in at least 1945.

The southern warehouse portion of the current building was constructed between 1949 and 1952, and was historically utilized as offices for an Edsel automotive dealership until approximately 1957. The building was redeveloped for retail use in 1958 and the northern portion of the building was expanded between 1963 and 1967 to include the current layout. The property has been occupied by Greens Art

Supply since 1958.

Latitude: 42.543816 Longitude: -83.21211

HCM label: Address Matching-House Number

Map scale: Not reported

Point of reference: Entrance Point of a Facility or Station

Datum: North American Datum of 1983

ACRES property ID: 170095
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported

Direction Distance Elevation

ance EDR ID Number vation Site Database(s) EPA ID Number

GREEN'S ART SUPPLY (Continued)

1016603767

Assessment funding: 1200

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding:
Redev. funding source:
Redev. funding entity name:
Redevelopment start date:
Assessment funding entity:

Not reported
Not reported
EPA

Cleanup funding entity: Not reported

Grant type: F

Accomplishment type: Phase I Environmental Assessment

Accomplishment count: 1

Cooperative agreement #: 00E01208
Ownership entity: Not reported
Current owner: Not reported
Did owner change: Not reported

Cleanup required: No
Video available: No
Photo available: Yes
Institutional controls required: N
IC Category proprietary controls: Not reported

IC cat. info. devices:
IC cat. gov. controls:
IC cat. enforcement permit tools:
IC in place date:
IC in place:
Not reported
Not reported
Not reported
No

State/tribal program date:
State/tribal program ID:
Not reported
State/tribal NFA date:
Not reported
Air contaminated:
Not reported
Not reported
Not reported
Not reported
Not reported

Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Not reported Drinking water affected: Not reported Drinking water cleaned: Groundwater affected: Not reported Groundwater cleaned: Not reported

Lead contaminant found: Y

Lead cleaned up: Not reported No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported Not reported Other metals found: Not reported Other metals cleaned: Other contaminants found: Not reported Other contams found description: Not reported PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Not reported Petro products cleaned: Sediments found: Not reported Sediments cleaned: Not reported

Soil affected: Y

Soil cleaned up: Not reported

Direction Distance Elevation

Site Database(s) **EPA ID Number**

Not reported

GREEN'S ART SUPPLY (Continued)

Surface water cleaned:

VOCs found:

1016603767

EDR ID Number

VOCs cleaned: Not reported Not reported Cleanup other description: Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported Past use commercial acreage: 58 Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Not reported Future use residential acreage: Not reported Future use commercial acreage: Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported Arsenic cleaned up: Not reported Cadmium cleaned up: Not reported Chromium cleaned up: Not reported Copper cleaned up: Not reported Iron cleaned up: Not reported Not reported mercury cleaned up: nickel cleaned up: Not reported No clean up: Not reported Pesticides cleaned up: Not reported Selenium cleaned up: Not reported Not reported SVOCs cleaned up: Unknown clean up: Not reported Arsenic contaminant found: Not reported Cadmium contaminant found: Not reported Chromium contaminant found: Not reported Copper contaminant found: Not reported Iron contaminant found: Not reported Mercury contaminant found: Not reported Nickel contaminant found: Not reported Not reported No contaminant found: Pesticides contaminant found: Not reported Selenium contaminant found: Not reported SVOCs contaminant found: Not reported Unknown contaminant found: Not reported Future Use: Multistory Media affected Bluiding Material: Not reported Media affected indoor air: Not reported Building material media cleaned up: Not reported Not reported Indoor air media cleaned up: Not reported Unknown media cleaned up: Past Use: Multistory Not reported

> INVENTORY S116710702 N/A

K33 **GREEN'S ART SUPPLY 400 SOUTH OLD WOODWARD ESE** 1/4-1/2 OAKLAND (County), MI 48009 0.408 mi.

2156 ft. Site 2 of 2 in cluster K

INVENTORY: Relative:

Bea Number: 201406069LV Lower Township: Birmingham Actual: Southeast MI District: 767 ft.

Data Source: **BEA**

Direction Distance

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

GREEN'S ART SUPPLY (Continued)

Latitude: Not reported Longitude: Not reported

ESE 34745 WOODWARD LUST 1/4-1/2 BIRMINGHAM, MI 48011 UST

0.416 mi.
2195 ft. Site 1 of 2 in cluster L

Relative: INVENTORY:

Lower Bea Number: Not reported Township: Not reported Actual: District: Southeast MI 771 ft. Data Source: Part 213

Latitude: 42.53949 Longitude: -83.20706

LUST:

Facility ID: 00001952

Source: STATE OF MICHIGAN
Owner Name: Jax Kar Wash #048
Owner Address: 34745 Woodward
Owner City,St,Zip: Birmingham, MI 48011

Owner Contact: Not reported Owner Phone: Not reported

Country: USA

District: Region 1 - SE Michigan District Office

Site Name: Jax Kar Wash #048

 Latitude:
 42.53949

 Longitude:
 -83.20706

 Date of Collection:
 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0859-00
Release Date: 10/27/2000
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00001952 Facility Type: CLOSED

Owner Name: JAX KAR WASH #048
Owner Address: 34745 WOODWARD
Owner City,St,Zip: BIRMINGHAM, MI 48011

Owner Country: USA
Owner Contact: Not reported
Owner Phone: Not reported
Contact: Abdeem Shakoor
Contact Phone: (781) 231-9300
Date of Collection: 01/11/2001
Accuracy: 100

Accuracy Value Unit: FEET

S116710702

BEA

WDS

Direction Distance

Elevation Site Database(s) EPA ID Number

JAX KAR WASH #048 (Continued)

U003319644

EDR ID Number

Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.53949 Longitude: -83.20706

Tank ID:

Tank Status: Removed from Ground

Capacity: 10000
Product: Gasoline
Install Date: 01/01/1966
Remove Date: 10/27/2000
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 10000
Product: Gasoline
Install Date: 01/01/1966
Remove Date: 10/27/2000
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

BEA:

Secondary Address: Not reported 1459
District: Southeast MI Date Received: 08/08/2001

Submitter Name: BMW CAR WASH, L.L.C.

Petition Determination: No Request

Petition Disclosure: 0

Category: Same Hazardous Substance(s)

Determination 20107A: No Request

Reviewer: cokt

Division Assigned: Storage Tank Division

WDS:

Site Id: MIG000026887 WMD Id: 429618 Site Specific Name: WASH DEPOT

Mailing Address: 34745 WOODWARD AVE

Mailing City/State/Zip: 48009
Mailing County: OAKLAND

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

L35 **JAX KAR WASH INVENTORY** S114035933 **ESE**

34745 WOODWARD AVENUE N/A OAKLAND (County), MI 48009

1/4-1/2 0.416 mi.

2195 ft. Site 2 of 2 in cluster L

INVENTORY: Relative:

200101459LV Bea Number: Lower

Township: Birmingham Actual: District: Southeast MI

771 ft. Data Source: **BEA**

Latitude: Not reported Not reported Longitude:

36 **SPEEDWAY LLC** RCRA-CESQG 1000844604

34750 WOODWARD AVE **ESE** 1/4-1/2 **BIRMINGHAM, MI 48009**

0.449 mi. 2372 ft.

FINDS MID985666387 LUST UST

RCRA-CESQG: Relative:

Date form received by agency: 08/20/2012 Lower

Facility name: SPEEDWAY LLC

Actual: Facility address: 34750 WOODWARD AVE 768 ft. BIRMINGHAM, MI 48009

EPA ID: MID985666387

Mailing address: PO BOX 1500

SPRINGFIELD, OH 45501

Contact: CHARLES A BESSE

Contact address: Not reported Not reported

Contact country: US

Contact telephone: (937) 863-6272

CABESSE@SPEEDWAY.COM Contact email:

EPA Region:

Conditionally Exempt Small Quantity Generator Classification:

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

SPEEDWAY LLC Owner/operator name: Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator

Direction Distance

Elevation Site Database(s) EPA ID Number

SPEEDWAY LLC (Continued) 1000844604

Owner/Op start date: 06/10/1999
Owner/Op end date: Not reported

Owner/operator name: SPEEDWAY LLC
Owner/operator address: Not reported

Owner/operator country:
Owner/operator telephone:
Legal status:
Owner/Operator Type:
Owner/Operator Type:
Owner/Op start date:
Owner/Op end date:

Not reported
Not reported
Not reported
Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: Nο Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: Nο Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 06/03/2005

Site name: SPEEDWAY SUPERAMERICA LLC

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/17/1998

Site name: SPEEDWAY SUPERAMERICA LLC

Classification: Not a generator, verified

Date form received by agency: 09/02/1993

Site name: SPEEDWAY SUPERAMERICA LLC

Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: 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.

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

SPEEDWAY LLC (Continued)

1000844604

EDR ID Number

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.

Waste code: D001

Waste name: 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.

Waste code: D001

Waste name: 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.

Violation Status: No violations found

FINDS:

Registry ID: 110003685968

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

LUST:

Facility ID: 00016370

Source: STATE OF MICHIGAN
Owner Name: Speedway LLC
Owner Address: PO Box 1500

Owner City,St,Zip: Springfield, OH 45501
Owner Contact: Not reported
Owner Phone: (937) 864-3000

Country: USA

District: Region 1 - SE Michigan District Office

 Site Name:
 Total #2528

 Latitude:
 42.54488

 Longitude:
 -83.20977

 Date of Collection:
 04/06/2007

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83

Direction Distance

Elevation Site Database(s) EPA ID Number

SPEEDWAY LLC (Continued)

1000844604

EDR ID Number

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number:C-1633-91Release Date:08/27/1991Substance Released:UnknownRelease Status:ClosedRelease Closed Date:02/09/1996

UST:

Facility ID: 00016370
Facility Type: ACTIVE
Owner Name: SPEEDWAY LLC

Owner Address: PO BOX 1500 Owner City,St,Zip: SPRINGFIELD, OH 45501

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (937) 864-3000
Contact: Toby Rickabaugh
Contact Phone: (937) 864-3000
Date of Collection: 04/06/2007

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Latitude: 42.54488 Longitude: -83.20977

Tank ID:

Tank Status: Removed from Ground

Capacity: 6000
Product: Gasoline
Install Date: 04/21/1972
Remove Date: 03/02/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 12000
Product: Gasoline
Install Date: 04/21/1974
Remove Date: 03/01/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SPEEDWAY LLC (Continued)

Tank ID:

Removed from Ground Tank Status:

Capacity: 12000 Product: Diesel Install Date: 04/21/1974 Remove Date: 03/01/1992 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Asphalt Coated or Bare Steel Construction Material:

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 1000 **FUEL OIL** Product: Install Date: 04/22/1959 03/01/1992 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported

Piping Material: COPPER, Galvanized Steel

Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: Nο

Tank ID:

Tank Status: Removed from Ground

Capacity: 550 Product: Used Oil Install Date: 04/22/1959 Remove Date: 03/01/1992 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Currently In Use Tank Status:

Capacity: 12000 Product: Gasoline Install Date: 05/01/1992 Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Cathodically Protected Steel Construction Material:

Impressed Device: No

Tank ID: 7 1000844604

Direction Distance

Elevation Site Database(s) **EPA ID Number**

SPEEDWAY LLC (Continued)

1000844604

EDR ID Number

Tank Status: **Currently In Use**

10000 Capacity: Product: Gasoline Install Date: 05/01/1992 Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Cathodically Protected Steel

Impressed Device: No

Tank ID:

Tank Status: **Currently In Use**

Capacity: 10000 Product: Gasoline 05/01/1992 Install Date: Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass reinforced plastic

Pressure Piping Type:

Construction Material: Cathodically Protected Steel

Impressed Device: No

Tank ID:

Tank Status: **Currently In Use**

8000 Capacity: Product: Diesel Install Date: 05/01/1992 Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Fiberglass reinforced plastic Piping Material:

Piping Type: Pressure

Construction Material: Cathodically Protected Steel

Impressed Device: No

M37 SIMON LAND DEVELOPMENT GROUP LLC

35975 WOODWARD AVE North BIRMINGHAM, MI 48084 1/4-1/2

0.464 mi. 2451 ft.

Site 1 of 2 in cluster M

INVENTORY: Relative:

Not reported Lower Bea Number:

Township: Not reported Actual: District: Southeast MI 747 ft. Data Source: Part 213

Latitude: 42.55355 Longitude: -83.21936

LUST:

Facility ID: 00005681

STATE OF MICHIGAN Source:

U003320634

N/A

INVENTORY

LUST

UST

BEA

WDS

Direction Distance

Elevation Site Database(s) EPA ID Number

SIMON LAND DEVELOPMENT GROUP LLC (Continued)

Owner Name: Simon Land Development Group LLC

Owner Address: 1826 Northwood Dr Owner City,St,Zip: Troy, MI 48084 Owner Contact: Fawzi Simon Owner Phone: (248) 688-9625

Country: USA

District: Region 1 - SE Michigan District Office

 Site Name:
 Amoco #5791

 Latitude:
 42.55354

 Longitude:
 -83.21935

 Date of Collection:
 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0008-89
Release Date: 01/13/1989
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00005681
Facility Type: CLOSED

Owner Name: SIMON LAND DEVELOPMENT GROUP LLC

Owner Address: 1826 NORTHWOOD DR

Owner City,St,Zip: TROY, MI 48084

Owner Country: USA

Owner Contact: Fawzi Simon
Owner Phone: (248) 688-9625
Contact: Faiz Simon
Contact Phone: (313) 292-5500
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET

Accuracy Value Unit: FEET Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Latitude: 42.55354 Longitude: -83.21935

Tank ID:

Tank Status: Removed from Ground

Capacity: 6000
Product: Diesel
Install Date: 04/26/1962
Remove Date: 02/09/1989
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel, Lined Interier

Impressed Device: No

EDR ID Number

U003320634

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SIMON LAND DEVELOPMENT GROUP LLC (Continued)

U003320634

Tank ID:

Removed from Ground Tank Status:

Capacity: 6000 Product: Gasoline Install Date: 04/26/1962 12/01/1988 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel, Lined Interier

Impressed Device:

Tank ID:

Tank Status: Removed from Ground

Capacity: 6000 Product: Gasoline Install Date: 04/26/1962 12/01/1988 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Asphalt Coated or Bare Steel, Lined Interier Construction Material:

Impressed Device: Nο

Tank ID:

Removed from Ground Tank Status:

6000 Capacity: Product: Gasoline Install Date: 04/26/1962 Remove Date: 12/01/1988 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Asphalt Coated or Bare Steel, Lined Interier Construction Material:

Impressed Device: No

Tank ID:

Removed from Ground Tank Status:

Capacity: 8000 Product: Gasoline Install Date: 04/26/1970 Remove Date: 12/01/1988 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Asphalt Coated or Bare Steel, Lined Interier Construction Material:

Impressed Device: No

Tank ID: 6

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SIMON LAND DEVELOPMENT GROUP LLC (Continued)

Tank Status: Removed from Ground

560 Capacity: Product: Used Oil Install Date: 04/27/1959 Remove Date: 11/10/1989 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Construction Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 12000 Product: Gasoline 04/26/1986 Install Date: Remove Date: 10/11/2007

Tank Release Detection: Automatic Tank Gauging Pipe Realease Detection: Automatic Line Leak Detectors Piping Material: Fiberglass reinforced plastic

Pressure Piping Type:

Construction Material: Cathodically Protected Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

12000 Capacity: Product: Gasoline Install Date: 04/26/1986 Remove Date: 10/11/2007

Tank Release Detection: Automatic Tank Gauging Pipe Realease Detection: Automatic Line Leak Detectors Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Cathodically Protected Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 12000 Product: Gasoline 04/26/1986 Install Date: Remove Date: 10/11/2007

Tank Release Detection: Automatic Tank Gauging Pipe Realease Detection: Automatic Line Leak Detectors Piping Material: Fiberglass reinforced plastic

Piping Type: Pressure

Construction Material: Cathodically Protected Steel

Impressed Device: No

Tank ID: 10

Tank Status: Removed from Ground U003320634

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SIMON LAND DEVELOPMENT GROUP LLC (Continued)

U003320634

Capacity: 560 Product: Used Oil Install Date: 11/10/1989 Remove Date: 11/01/2007

Tank Release Detection: Automatic Tank Gauging Pipe Realease Detection: Automatic Line Leak Detectors Piping Material: Fiberglass reinforced plastic, Vent.

Piping Type: Not reported

Construction Material: Cathodically Protected Steel

Impressed Device: No

BEA:

Secondary Address: Not reported BEA Number: 3735 District: Southeast MI Date Received: 11/21/2007

35975 Woodward, LLC Submitter Name:

Petition Determination: No Request

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request mitchelf Reviewer:

Division Assigned: Storage Tank Division

Not reported Secondary Address: **BEA Number:** 3161 Southeast MI District: Date Received: 05/31/2006

Submitter Name: Simon Land Development Group, LLC

Petition Determination: No Request

Petition Disclosure:

Category: Same Hazardous Substance(s)

Determination 20107A: No Request schlaufi Reviewer:

Storage Tank Division Division Assigned:

WDS:

MID985606458 Site Id: WMD Id: 404537

Site Specific Name: A & G AUTO CARE Mailing Address: 35975 WOODWARD AVE

Mailing City/State/Zip: 48009 Mailing County: OAKLAND

GASOLINE STATION INVENTORY S114035253

M38 North 35975 WOODWARD AVENUE 1/4-1/2 OAKLAND (County), MI 48009

0.464 mi.

2451 ft. Site 2 of 2 in cluster M

INVENTORY: Relative:

200703735LV Bea Number: Lower

Township: Birmingham Actual: District: Southeast MI

747 ft. BEA Data Source:

> Latitude: Not reported Longitude: Not reported

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

39 ESTATE MOTORS LUST U003330063 SE 464 S WOODWARD AVE WDS N/A

1/4-1/2 0.466 mi. 2463 ft.

Relative: LUST:

Lower Facility ID: 00015180

BIRMINGHAM, MI 99999

Source: STATE OF MICHIGAN

Actual: Owner Name: OWNER ADDRESS UNKNOWN 765 ft. Owner Address: Not Recorded

Owner Address: Not Recorded
Owner City,St,Zip: Not Recorded, XX 99999

Owner Contact: Not reported
Owner Phone: Not reported

Country: USA

District: Region 1 - SE Michigan District Office

Site Name: Estate Motors
Latitude: 42.54384
Longitude: -83.21181
Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: FEET

Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-1669-91
Release Date: 08/09/1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: 01/06/1993

Leak Number: C-2071-92
Release Date: 11/20/1992
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 06/30/1994

WDS:

Site Id: MID040571135

WMD Id: 395465

Site Specific Name: ESTATE MOTORS LTD
Mailing Address: ESTATE MOTORS LTD
464 S OLD WOODWARD AVE

Mailing City/State/Zip: 48009
Mailing County: OAKLAND

40 GHAFARI PROPERTIES INC INVENTORY

1/4-1/2 0.472 mi. 2490 ft.

North

Relative: INVENTORY:

Lower Bea Number: Not reported

36101 WOODWARD AVE

BIRMINGHAM, MI 48009

Township: Not reported Southeast MI 757 ft. Data Source: Part 213

Latitude: 42.5543 Longitude: -83.21976 U003426133

N/A

LUST

UST

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

GHAFARI PROPERTIES INC (Continued)

U003426133

EDR ID Number

LUST:

Facility ID: 00034940

Source: STATE OF MICHIGAN
Owner Name: Ghafari Properties LLC
Owner Address: 36101 Woodward Ave
Owner City, St, Zip: Birmingham, MI 48009

Owner Contact: Not reported
Owner Phone: (248) 647-0020

Country: USA

District: Region 1 - SE Michigan District Office

 Site Name:
 Mobil #03-kxn

 Latitude:
 42.55429

 Longitude:
 -83.21976

 Date of Collection:
 01/05/2007

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number:C-0276-89Release Date:06/29/1989Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:06/12/1996

Leak Number:C-0301-90Release Date:02/21/1990Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:04/04/1996

Leak Number: C-0323-04 Release Date: 07/15/2004

Substance Released: Gasoline, Gasoline, Gasoline, Gasoline

Release Status: Closed Release Closed Date: 01/02/2013

UST:

Facility ID: 00034940 Facility Type: ACTIVE

Owner Name: GHAFARI PROPERTIES LLC
Owner Address: 36101 WOODWARD AVE
Owner City,St,Zip: BIRMINGHAM, MI 48009

Owner Country: USA

Owner Contact: Not reported
Owner Phone: (248) 647-0020
Contact: Sejaan Ghafari
Contact Phone: (248) 647-0020
Date of Collection: 01/05/2007
Accuracy: 100
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

NAD83

Point Line Area: POINT

Horizontal Datum:

Desc Category: Plant Entrance (Freight)

Direction Distance

Elevation Site Database(s) EPA ID Number

GHAFARI PROPERTIES INC (Continued)

U003426133

EDR ID Number

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Latitude: 42.55429 Longitude: -83.21976

Tank ID:

Tank Status: Removed from Ground

Capacity: 12000
Product: Gasoline
Install Date: Not reported
Remove Date: 09/13/1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Piping Material: Fiberglass reinforced plastic

Piping Type: Not reported

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 10000
Product: Gasoline
Install Date: Not reported
Remove Date: 09/13/1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Piping Material: Fiberglass reinforced plastic

Piping Type: Not reported

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 3

Tank Status: Removed from Ground

Capacity: 6000
Product: Gasoline
Install Date: Not reported
Remove Date: 09/13/1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Piping Material: Fiberglass reinforced plastic

Piping Type: Not reported

Construction Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 4

Tank Status: Currently In Use

Capacity: 10000
Product: Gasoline
Install Date: 09/13/1990
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Flexible Piping Piping Type: Pressure, Pressure, Pressure Construction Material: Fiberglass Reinforced Plastic

Direction Distance

Elevation Site Database(s) EPA ID Number

GHAFARI PROPERTIES INC (Continued)

U003426133

EDR ID Number

Impressed Device: No

Tank ID: 5

Tank Status: Currently In Use

Capacity: 10000
Product: Gasoline
Install Date: 09/13/1990
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Fiberglass Reinforced Plastic

Piping Type: Pressure

Construction Material: Lined Interior, Double Walled

Impressed Device: No

Tank ID: 6

Tank Status: Currently In Use

Capacity: 10000
Product: Gasoline
Install Date: 09/13/1990
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Flexible Piping

Piping Type: Pressure

Construction Material: Fiberglass Reinforced Plastic

Impressed Device: No

Tank ID:

Tank Status: Currently In Use

Capacity: 10000
Product: Gasoline
Install Date: 09/13/1990
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Flexible Piping Piping Type: Gravity Fed?, Pressure Construction Material: Fiberglass Reinforced Plastic

Impressed Device: No

Tank ID:

Tank Status: Currently In Use

Capacity: 6000
Product: Water
Install Date: 11/22/2011
Remove Date: Not reported
Tank Release Detection: Not reported

Pipe Realease Detection: Automatic Line Leak Detectors Piping Material: Double Walled, Flexible Piping

Piping Type: Not reported

Construction Material: Fiberglass Reinforced Plastic, Double Walled

Impressed Device: No

Count: 0 records. ORPHAN SUMMARY

City EDR ID Site Name Site Address Zip Database(s)

NO SITES FOUND

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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) and regional EPA offices.

Date of Government Version: 12/16/2014 Source: EPA
Date Data Arrived at EDR: 01/08/2015 Telephone: N/A

Number of Days to Update: 32 Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014 Source: EPA
Date Data Arrived at EDR: 01/08/2015 Telephone: N/A

Number of Days to Update: 32 Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by 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 received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267

Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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: 12/16/2014 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: EPA Telephone: N/A

Last EDR Contact: 01/08/2015

Next Scheduled EDR Contact: 04/20/2015 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

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: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 02/27/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014 Date Data Arrived at EDR: 10/07/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 01/09/2015

Next Scheduled EDR Contact: 04/20/2015 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 02/27/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2014 Date Data Arrived at EDR: 12/29/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 31

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014 Date Data Arrived at EDR: 12/29/2014 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 31

Telephone: 312-886-6186 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Quarterly

Source: Environmental Protection Agency

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2014 Date Data Arrived at EDR: 12/29/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014 Date Data Arrived at EDR: 12/29/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/18/2014 Date Data Arrived at EDR: 09/19/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/26/2015

Next Scheduled EDR Contact: 06/15/2015 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014 Date Data Arrived at EDR: 09/19/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/26/2015

Next Scheduled EDR Contact: 06/15/2015 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/03/2014 Date Data Arrived at EDR: 12/12/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 48

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/16/2015

Next Scheduled EDR Contact: 06/01/2015 Data Release Frequency: Varies

Bata Noicase Proquent

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/29/2014 Date Data Arrived at EDR: 09/30/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 37

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list. This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/31/2013
Date Made Active in Reports: 11/20/2013

Number of Days to Update: 20

Source: Dept of Environmental Quality

Telephone: 517-284-5103 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: No Update Planned

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities Database

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: 12/29/2014 Date Data Arrived at EDR: 12/30/2014 Date Made Active in Reports: 01/20/2015

Number of Days to Update: 21

Source: Dept of Environmental Quality

Telephone: 517-335-4035 Last EDR Contact: 12/30/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

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: 12/02/2014 Date Data Arrived at EDR: 12/04/2014 Date Made Active in Reports: 01/20/2015

Number of Days to Update: 47

Source: Dept of Environmental Quality

Telephone: 517-373-9837 Last EDR Contact: 02/16/2015

Next Scheduled EDR Contact: 06/01/2015 Data Release Frequency: Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 01/08/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/06/2014 Date Data Arrived at EDR: 10/29/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 19

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/03/2014 Date Data Arrived at EDR: 11/05/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 12

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/10/2014 Date Data Arrived at EDR: 11/14/2014 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 87

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/04/2014 Date Data Arrived at EDR: 11/07/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 10

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013

Number of Days to Update: 184

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/30/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014 Date Data Arrived at EDR: 08/12/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Facility List

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: 12/02/2014
Date Data Arrived at EDR: 12/04/2014
Date Made Active in Reports: 01/19/2015

Number of Days to Update: 46

Source: Dept of Environmental Quality

Telephone: 517-335-4035 Last EDR Contact: 02/16/2015

Next Scheduled EDR Contact: 06/01/2015 Data Release Frequency: Annually

UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 01/28/2015 Date Data Arrived at EDR: 01/29/2015 Date Made Active in Reports: 02/20/2015

Number of Days to Update: 22

Source: Dept of Environmental Quality Telephone: 517-335-7211

Last EDR Contact: 01/19/2015

Next Scheduled EDR Contact: 05/04/2015 Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 12/11/2014 Date Data Arrived at EDR: 12/12/2014 Date Made Active in Reports: 01/19/2015

Number of Days to Update: 38

Source: Dept of Environmental Quality Telephone: 517-373-8168 Last EDR Contact: 02/27/2015

Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: No Update Planned

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 01/27/2014

Number of Days to Update: 271

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/30/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014 Date Data Arrived at EDR: 08/12/2014 Date Made Active in Reports: 08/22/2014

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/03/2014 Date Data Arrived at EDR: 11/05/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 12

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/06/2014 Date Data Arrived at EDR: 10/29/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 8

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/04/2014 Date Data Arrived at EDR: 11/07/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 10

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/13/2014 Date Data Arrived at EDR: 11/18/2014 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 83

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/10/2014 Date Data Arrived at EDR: 11/14/2014 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 87

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 01/12/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 11/23/2014 Date Data Arrived at EDR: 12/01/2014 Date Made Active in Reports: 01/20/2015

Number of Days to Update: 50

Source: Dept of Environmental Quality

Telephone: 517-373-4828 Last EDR Contact: 03/03/2015

Next Scheduled EDR Contact: 06/15/2015 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014 Date Data Arrived at EDR: 10/01/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 36

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 12/31/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 07/27/2012 Date Data Arrived at EDR: 07/31/2012 Date Made Active in Reports: 09/20/2012

Number of Days to Update: 51

Source: Dept of Environmental Quality Telephone: 517-373-4805 Last EDR Contact: 01/26/2015 Next Scheduled EDR Contact: 01/22/2015

Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detrot Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007 Date Data Arrived at EDR: 04/10/2007 Date Made Active in Reports: 05/01/2007

Number of Days to Update: 21

Source: Economic Development Corporation

Telephone: 888-522-0103 Last EDR Contact: 02/26/2015

Next Scheduled EDR Contact: 06/15/2015 Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014 Date Data Arrived at EDR: 12/22/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 38

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 12/22/2014

Next Scheduled EDR Contact: 04/06/2015 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009 Number of Days to Update: 137 Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004

Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997 Date Data Arrived at EDR: 02/28/2003 Date Made Active in Reports: 03/06/2003

Number of Days to Update: 6

Source: Dept of Environmental Quality

Telephone: 517-335-4034 Last EDR Contact: 02/28/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 07/11/2014 Date Data Arrived at EDR: 07/11/2014 Date Made Active in Reports: 08/11/2014

Number of Days to Update: 31

Source: Dept of Environmental Quality

Telephone: 517-241-5719 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 02/02/2015

Next Scheduled EDR Contact: 05/18/2015 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/10/2014 Date Data Arrived at EDR: 12/01/2014 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 70

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/03/2015

Next Scheduled EDR Contact: 06/15/2015 Data Release Frequency: Quarterly

INVENTORY: Inventory of Facilities

The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 01/27/2015 Date Data Arrived at EDR: 01/28/2015 Date Made Active in Reports: 02/20/2015 Number of Days to Update: 23

Source: Department of Environmental Quality Telephone: 517-284-5136 Last EDR Contact: 01/28/2015 Next Scheduled EDR Contact: 05/11/2015

Data Release Frequency: Quarterly

PART 201: Part 201 Site List

A Part 201 Listed site is a location that has been evaluated and scored by the DEQ using the Part 201 scoring model. The location is or includes a "facility" as defined by Part 201, where there has been a release of a hazardous substance(s) in excess of the Part 201 residential criteria, and/or where corrective actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use. The Part 201 List does not include all of the sites of contamination that are subject to regulation under Part 201 because owners are not required to inform the DEQ about the sites and can pursue cleanup independently. Sites of environmental contamination that are not known to DEQ are not on the list, nor are sites with releases that resulted in low environmental

Date of Government Version: 10/01/2013 Date Data Arrived at EDR: 10/03/2014 Date Made Active in Reports: 10/03/2014

Number of Days to Update: 0

Source: Department of Environmental Quality Telephone: 517-284-5103

Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: No Update Planned

DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion. A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/01/2013 Date Made Active in Reports: 09/11/2013 Number of Days to Update: 41

Source: Dept of Environmental Quality Telephone: 517-373-9541

Last EDR Contact: 01/26/2015 Next Scheduled EDR Contact: 05/11/2015

Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing A listing of clandestine drug lab locations.

> Date of Government Version: 10/20/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 11/21/2008

Number of Days to Update: 3

Source: Department of Community Health Telephone: 517-373-3740 Last EDR Contact: 01/26/2015 Next Scheduled EDR Contact: 05/11/2015

Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/10/2014 Date Data Arrived at EDR: 12/01/2014 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 70

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/03/2015

Next Scheduled EDR Contact: 06/15/2015

Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 01/30/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 12/12/2014 Date Data Arrived at EDR: 01/21/2015 Date Made Active in Reports: 02/20/2015

Number of Days to Update: 30

Source: Dept of Environmental Quality Telephone: 517-241-7603

Last EDR Contact: 01/19/2015

Next Scheduled EDR Contact: 05/04/2015 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 10/01/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 36

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 12/30/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Annually

PEAS: Pollution Emergency Alerting System

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 11/30/2014 Date Data Arrived at EDR: 12/12/2014 Date Made Active in Reports: 01/20/2015

Number of Days to Update: 39

Source: Dept of Environmental Quality Telephone: 517-373-8427

Last EDR Contact: 12/05/2014

Next Scheduled EDR Contact: 03/23/2015 Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2014 Date Data Arrived at EDR: 12/29/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 02/03/2015

Next Scheduled EDR Contact: 05/18/2015 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Source: USGS

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Telephone: 888-275-8747 Last EDR Contact: 01/15/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 8

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 12/12/2014

Next Scheduled EDR Contact: 03/23/2015 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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: 12/31/2013 Date Data Arrived at EDR: 01/24/2014 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 12/24/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Varies

ROD: Records Of Decision

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: 11/25/2013 Date Data Arrived at EDR: 12/12/2013 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 74

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 12/12/2014

Next Scheduled EDR Contact: 03/23/2015 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 02/27/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014 Date Data Arrived at EDR: 12/31/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 12/30/2014

Next Scheduled EDR Contact: 03/16/2015 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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: 12/31/2011 Date Data Arrived at EDR: 07/31/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 44

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 01/29/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 14

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/22/2014

Next Scheduled EDR Contact: 04/06/2015 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA,

TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 02/23/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667 Last EDR Contact: 02/23/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008

Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2014 Date Data Arrived at EDR: 10/29/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 01/09/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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: 07/01/2014 Date Data Arrived at EDR: 10/15/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 33

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 01/16/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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: 12/29/2014 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 21

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 12/04/2014

Next Scheduled EDR Contact: 03/23/2015 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/07/2014 Date Data Arrived at EDR: 10/08/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 02/27/2015

Next Scheduled EDR Contact: 04/20/2015 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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: 08/16/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: EPA

Telephone: (312) 353-2000 Last EDR Contact: 02/27/2015

Next Scheduled EDR Contact: 03/23/2015 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2014 Date Data Arrived at EDR: 08/12/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015

Data Release Frequency: Varies

BRS: Biennial Reporting System

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: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013

Number of Days to Update: 52

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 02/24/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 01/30/2015 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 02/20/2015

Number of Days to Update: 21

Source: Dept of Environmental Quality

Telephone: 517-241-1515 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 01/21/2015 Date Data Arrived at EDR: 01/22/2015 Date Made Active in Reports: 02/20/2015

Number of Days to Update: 29

Source: Dept of Environmental Quality

Telephone: 517-335-4586 Last EDR Contact: 01/19/2015

Next Scheduled EDR Contact: 05/04/2015 Data Release Frequency: Annually

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 01/06/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 01/20/2015

Number of Days to Update: 12

Source: Dept of Environmental Quality

Telephone: 517-241-1300 Last EDR Contact: 01/08/2015

Next Scheduled EDR Contact: 04/20/2015

Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data Permit and emissions inventory data.

Date of Government Version: 09/26/2014 Date Data Arrived at EDR: 09/26/2014 Date Made Active in Reports: 11/19/2014

Number of Days to Update: 54

Source: Dept of Environmental Quality Telephone: 517-373-7074

Last EDR Contact: 12/18/2014

Next Scheduled EDR Contact: 04/06/2015 Data Release Frequency: Varies

BEA: Baseline Environmental Assessment Database

A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 08/21/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 09/12/2013

Number of Days to Update: 20

Source: Dept of Environmental Quality Telephone: 517-373-9541 Last EDR Contact: 02/16/2015

Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: No Update Planned

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 01/15/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/18/2015

Next Scheduled EDR Contact: 06/01/2015 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/12/2014

Next Scheduled EDR Contact: 03/23/2015 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/19/2014 Date Data Arrived at EDR: 11/21/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 69

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 02/16/2015

Next Scheduled EDR Contact: 06/01/2015 Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 01/30/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/09/2015 Date Data Arrived at EDR: 01/16/2015 Date Made Active in Reports: 02/20/2015

Number of Days to Update: 35

Source: Dept of Environmental Quality

Telephone: 517-335-6610 Last EDR Contact: 01/05/2015

Next Scheduled EDR Contact: 04/20/2015

Data Release Frequency: Varies

WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous

Waste, and Liquid Industrial Waste programs.

Date of Government Version: 12/08/2014 Date Data Arrived at EDR: 12/08/2014 Date Made Active in Reports: 01/20/2015

Number of Days to Update: 43

Source: Dept of Environmental Quality

Telephone: 517-284-6562 Last EDR Contact: 02/23/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 10/15/2014 Date Data Arrived at EDR: 10/16/2014 Date Made Active in Reports: 11/26/2014

Number of Days to Update: 41

Source: Dept of Environmental Quality

Telephone: 586-753-3754 Last EDR Contact: 01/05/2015

Next Scheduled EDR Contact: 04/20/2015 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 02/09/2015

Next Scheduled EDR Contact: 05/25/2015 Data Release Frequency: Quarterly

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 02/13/2015

Next Scheduled EDR Contact: 05/25/2015 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 02/13/2015

Next Scheduled EDR Contact: 05/25/2015 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014 Date Data Arrived at EDR: 11/26/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 01/05/2015

Next Scheduled EDR Contact: 04/20/2015 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites

may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management,

Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 01/15/2015

Next Scheduled EDR Contact: 04/27/2015

Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 02/06/2015

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 02/06/2015

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Annually

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/05/2011 Date Data Arrived at EDR: 01/07/2011 Date Made Active in Reports: 02/14/2011

Number of Days to Update: 38

Source: Dept of Environmental Quality

Telephone: 517-335-4034 Last EDR Contact: 12/29/2014

Next Scheduled EDR Contact: 04/13/2015 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 01/15/2015

Next Scheduled EDR Contact: 04/27/2015

Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR. Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Quality Telephone: N/A Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environmental Quality Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA PART 201: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013

Source: Department of Environmental Quality

Telephone: N/A

Date Made Active in Reports: 12/24/2013

Number of Days to Update: 176

Next S

Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

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.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013 Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/17/2014

Number of Days to Update: 45

Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/19/2012 Date Made Active in Reports: 08/28/2012

Number of Days to Update: 40

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 01/12/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 01/01/2015 Date Data Arrived at EDR: 02/04/2015 Date Made Active in Reports: 02/27/2015

Number of Days to Update: 23

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 02/04/2015

Next Scheduled EDR Contact: 05/18/2015 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/21/2014 Date Made Active in Reports: 08/25/2014

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 01/19/2015

Next Scheduled EDR Contact: 05/04/2015 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/15/2014 Date Made Active in Reports: 08/13/2014

Number of Days to Update: 29

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/23/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 06/20/2014 Date Made Active in Reports: 08/07/2014

Number of Days to Update: 48

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/12/2014

Next Scheduled EDR Contact: 03/30/2015 Data Release Frequency: Annually

Oil/Gas Pipelines: 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.

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.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 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 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

191 N. CHESTER 191 N. CHESTER BIRMINGHAM, MI 48009

TARGET PROPERTY COORDINATES

Latitude (North): 42.5472 - 42° 32' 49.92" Longitude (West): 83.2187 - 83° 13' 7.32"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 317826.1 UTM Y (Meters): 4712705.5

Elevation: 782 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 42083-E2 BIRMINGHAM, MI

Most Recent Revision: 1981

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

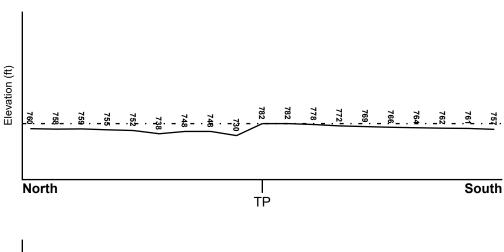
TOPOGRAPHIC INFORMATION

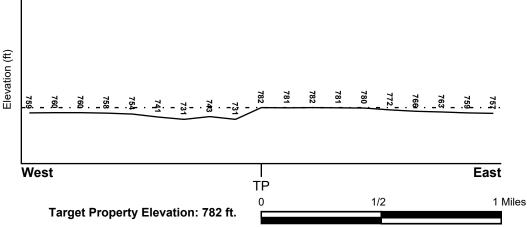
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County OAKLAND, MI

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

26125C - FEMA DFIRM Flood data

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

BIRMINGHAM

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

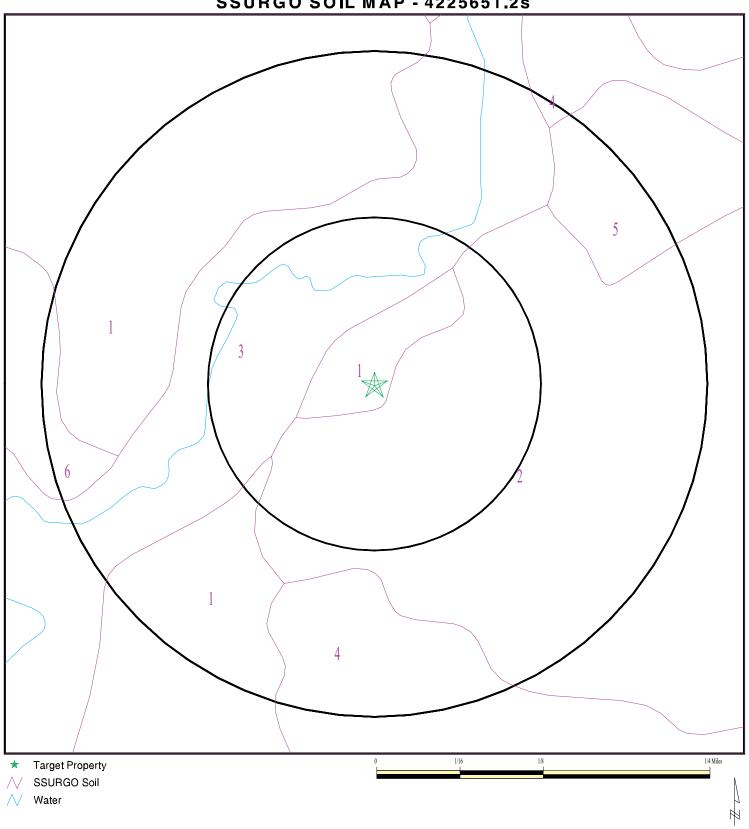
Era: Paleozoic Category: Stratified Sequence

System: Devonian
Series: Upper Devonian

Code: D3 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4225651.2s



SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham MI 48009 42.5472 / 83.2187 LAT/LONG:

Performance Environmental

CLIENT: Performance CONTACT: Julie Pratt INQUIRY#: 4225651.2s

DATE: March 05, 2015 3:58 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID	:	1
-------------	---	---

Soil Component Name: Urban land

Soil Surface Texture:

Hydrologic Group: Not reported

Soil Drainage Class: Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture:

Hydrologic Group: Not reported

Soil Drainage Class: Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Cohoctah

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Boundary			Classification		Saturated	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	11 inches	48 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
3	48 inches	59 inches	gravelly sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 8.4 Min: 7.4

Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class:

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: Urban land

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class: Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 130 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Urban land

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class:

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000482179	1/4 - 1/2 Mile WSW
3	USGS40000482170	1/4 - 1/2 Mile WSW
13	USGS40000482207	1/2 - 1 Mile NNW

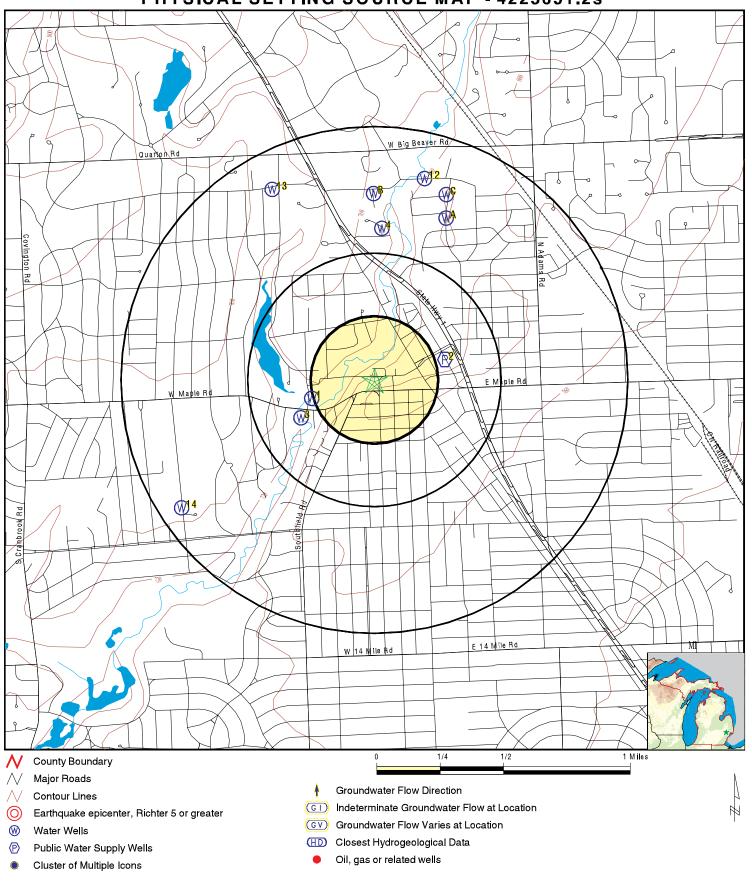
FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	MI3000000095906	1/2 - 1 Mile North
A5	MI300000095936	1/2 - 1 Mile NNE
B6	MI300000096235	1/2 - 1 Mile North
A7	MI300000096148	1/2 - 1 Mile NNE
B8	MI300000096406	1/2 - 1 Mile North
B9	MI300000096414	1/2 - 1 Mile North
C10	MI300000096323	1/2 - 1 Mile NNE
C11	MI300000096345	1/2 - 1 Mile NNE
12	MI300000096524	1/2 - 1 Mile NNE
14	MI300000092595	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 4225651.2s



SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham MI 48009 LAT/LONG: 42.5472 / 83.2187

Performance Environmental

CLIENT: Performan CONTACT: Julie Pratt INQUIRY #: 4225651.2s

DATE: March 05, 2015 3:58 pm

Map ID Direction Distance

Elevation Database EDR ID Number

. WSW FED USGS USGS40000482179

1/4 - 1/2 Mile Lower

Org. Identifier: USGS-MI

Formal name: USGS Michigan Water Science Center

Monloc Identifier: USGS-423246083132501 Monloc name: 02N 10E 36BBBA 01

Monloc type: Well

Monloc desc: Not Reported

04090004 Drainagearea value: Not Reported Huc code: Not Reported Contrib drainagearea: Not Reported Drainagearea Units: Contrib drainagearea units: Not Reported 42.5461456 Latitude: Longitude: -83.2235418 Sourcemap scale: Not Reported Horiz Acc measure: 5 Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 725 Vert measure units: feet Vertacc measure val: 10

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Sand and gravel aquifers (glaciated regions)

Formation type: Pleistocene Series

Aquifer type: Not Reported

Construction date: 19210101 Welldepth: 96

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1921-01-01 20.00

2 ENE FRDS PWS MI2080663

ENE 1/4 - 1/2 Mile Lower

PWS ID: MI2080663

Date Initiated: 7706 Date Deactivated: Not Reported

PWS Name: HUNTER & OAK SHELL SERVICE

980 N HUNTER BLVD BIRMINGHAM 48012

Addressee / Facility: System Owner/Responsible Party

LARRY TROY

S

Facility Latitude: 42 32 54 Facility Longitude: 083 12 48

City Served: Not Reported

Treatment Class: Untreated Population: 00000035

Violations information not reported.

Map ID Direction Distance

Elevation Database **EDR ID Number**

3 WSW **FED USGS** USGS40000482170 1/4 - 1/2 Mile

Lower

Lower

Org. Identifier: USGS-MI

Formal name: USGS Michigan Water Science Center

USGS-423242083132801 Monloc Identifier: 02N 10E 36BBBC 01 Monloc name:

Well Monloc type:

Monloc desc: Not Reported

04090004 Drainagearea value: Not Reported Huc code: Not Reported Contrib drainagearea: Not Reported Drainagearea Units: Contrib drainagearea units: Not Reported 42.5450345 Latitude: Longitude: -83.2243751 Sourcemap scale: Not Reported Horiz Acc measure: 5 Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

NAD83 Horiz coord refsys: Vert measure val: 725 Vert measure units: feet Vertacc measure val: 10

Vert accmeasure units:

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 US Countrycode:

Aquifername: Not Reported Formation type: Not Reported Aquifer type: Not Reported

Construction date: Not Reported

Welldepth: 207 Wellholedepth: Not Reported

Welldepth units: Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

North 1/2 - 1 Mile **MI WELLS** MI300000095906

Import id:

Township:

63000004238 Wellid: Oakland County: Town range: 02N 10E

Section: SCOTT J SELIGMAN TR Owner name:

73 JUDY Well addr: Well depth: 150 Well type: Household Wssn:

Well num: Not Reported Driller id: 1967-12-26 00:00:00.000 Case type: Const date:

Case dia: 4 Case depth: 146 Screen frm: 146 150 Screen to: Swl: 10 Test depth: 144 Test hours: 3

Test rate: 40 Test methd: Unknown Grouted: Λ Pmp cpcity: 0

Latitude: 42.55586365 Longitude: -83.21811452

TC4225651.2s Page A-12

63028025002

Bloomfield

25

131

Unknown

Methd coll: Elevation:	Address Matching-House Number 748	er	
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		•
Swl flag:	Not Reported		
Elev dem:	748	Elev dif:	0
Elev miv:	748	Aq code:	Drift Well
Aq flag:	Not Reported	•	
Pct aq:	31		
Pct aq d:	31	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	27
Pct cm d:	27	Pct cm r:	0
Pct pcm:	43	Pct pcm d:	43
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	40	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	140	A pct aq2:	29
A pct maq2:	0	A pct pcm2:	46
A pct cm2:	26	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc Imod1:	Fine	A sc Imaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc Imod2:	Not Reported	A sc Imaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	30
Pct maq 1:	0	Pct cm 1:	70
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	30
Pct pcm 3:	70	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0 100	Pct cm 5: Pct na 5:	0
Pct pcm 5: Pct ag 6:	60	Pct maq 6:	0
Pct aq 0.	0	Pct pcm 6:	40
Pct na 6:	0	Pct aq 7:	100
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct ag 10:	0	Pct mag 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct ag 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct ag 12:	0	Pct mag 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0

Within sec: Y Loc match: Y

 Aq code 1:
 D

 Hit swl:
 F

 Athk2:
 140

 Horiz Conduct:
 7.1488

 Vert Conduct:
 .00035

 T2:
 1000.8326

 D50plek:
 243.77624

25

0

0

0

37

43

Unknown

1/2 - 1 Mile Higher

 Wellid:
 6300004244
 Import id:
 63028025008

 County:
 Oakland
 Township:
 Bloomfield

 Town range:
 02N 10E
 Section:
 25

Owner name: DR SAMIR M RAGHEB

Well addr: 1130 OXFORD

Well depth: 116
Well type: Household
Wssn: 0

Well num: Not Reported Driller id:
Const date: 1969-02-05 00:00:00.000 Case type:

 Case dia:
 6

 Case depth:
 113.3

 Screen frm:
 111

 Screen to:
 116

 Swl:
 48

 Test depth:
 100

 Test hours:
 5

Test rate: 55 Test methd: Unknown Grouted: 0 Pmp cpcity: 0

Latitude: 42.55599085 Longitude: -83.21317482

Methd coll: Address Matching-House Number

Elevation: 748

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Pct aq r:

Pct cm:

Pct cm r:

Pct pcm d:

Pct maq d:

Elev flag: ELEV DIF > 20 feet -- Abs(Elevation feet DEM Elevation) > 20 feet

Swl flag: Not Reported

Elev dem: 777 Elev dif: 29
Elev miv: 748 Aq code: Drift Well

Aq flag: Not Reported

Pct aq: 20 Pct aq d: 20 Pct maq: 0 Pct mag r: 0 Pct cm d: 43 Pct pcm: 37 0 Pct pcm r: Pct na d: 0 Pct flag: Not Reported

0 Pct na: 0 Pct na r: Rock top: -1 D r type: Not Reported Spc cpcity: 0 A thicknes: 6 A pct aq: 100 A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 68 A pct aq2: 9

A pct maq2:	0
A pct cm2:	56
A hit swl:	F
A hit rock:	F
A sc Imod1:	Fine To Medium
A sc lpct1:	80
A sc Imod2:	Not Reported
A sc lpct2:	20
Pct maq 1:	0
Pct pcm 1:	15
Pct aq 2:	0
Pct cm 2:	20
Pct na 2:	0
Pct maq 3:	0
Pct pcm 3:	0
Pct aq 4:	0
Pct cm 4:	100
Pct na 4:	0
Pct mag 5:	0
Pct pcm 5:	70
Pct aq 6:	0
Pct cm 6:	0
Pct na 6:	0
Pct maq 7:	0
Pct pcm 7:	0
Pct aq 8:	0
Pct cm 8:	0
Pct na 8:	0
Pct maq 9:	0
Pct pcm 9:	0
Pct aq 10:	0
Pct cm 10:	0
Pct na 10:	0
Pct mag 11:	0
Pct pcm 11:	0
Pct aq 12:	0
Pct cm 12:	0
Pct na 12:	0
	0
Pct maq 13:	0
Pct pcm 13:	Y
Within sec:	•
Aq code 1:	D F
Hit swl:	-
Athk2:	68
Horiz Conduct:	1.50359
Vert Conduct:	.00018
T2:	102.2438
D50plek:	13.77063

A pct pcm2: 35 A pct na2: 0 F A hit top: A sc lith1: Sand A sc Imaq1: AQ A sc lith2: Gravel A sc Imaq2: AQ Pct aq 1: 85 Pct cm 1: 0 Pct na 1: 0 Pct maq 2: 0 Pct pcm 2: 80 Pct aq 3: 0 Pct cm 3: 100 Pct na 3: 0 Pct maq 4: 0 0 Pct pcm 4: Pct aq 5: 0 Pct cm 5: 30 Pct na 5: 0 Pct maq 6: 0 0 Pct pcm 6: 0 Pct aq 7: 0 Pct cm 7: Pct na 7: 0 Pct maq 8: 0 Pct pcm 8: 0 0 Pct aq 9: 0 Pct cm 9: Pct na 9: 0 0 Pct maq 10: 0 Pct pcm 10: 0 Pct aq 11: Pct cm 11: 0 Pct na 11: 0 0 Pct maq 12: Pct pcm 12: 0 Pct aq 13: 0 Pct cm 13: 0 Pct na 13: 0 Loc match: Υ

MI WELLS MI300000096235

B6 North 1/2 - 1 Mile Lower

Wellid: 63000004241 63028025005 Import id: County: Oakland Township: Bloomfield Town range: 02N 10E Section: 25 RICHARD J PERRY Owner name: 94 MANOR CT Well addr: Well depth: 70 Well type: Household Wssn: 25 Not Reported Well num: Driller id: Unknown Const date: 1984-06-03 00:00:00.000 Case type: Case dia: Case depth: 68.5 Screen frm: 68.5 Screen to: 70 0 Swl: 30 Test depth: Test hours: 1.5 20 Test methd: Unknown Test rate: Grouted: n Pmp cpcity: 0 Latitude: 42.55732465 Longitude: -83.21866952 Methd coll: Address Matching-House Number Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Swl flag: SWL = 03 Elev dem: 751 Elev dif: Drift Well 748 Elev miv: Aq code: Aq flag: Not Reported Pct aq: 3 Pct aq d: 3 Pct ag r: 0 Pct maq: 0 Pct maq d: 0 0 81 Pct maq r: Pct cm: 81 0 Pct cm d: Pct cm r: Pct pcm: 16 Pct pcm d: 16 Pct pcm r: 0 Pct na: 0 Pct na d: 0 0 Pct na r: Pct flag: Not Reported Rock top: -1 D r type: Not Reported Spc cpcity: 0 A thicknes: 3 A pct ag: 80 A pct maq: 0 A pct pcm: 0 0 20 A pct cm: A pct na: 70 3 A thickns2: A pct aq2: 0 16 A pct maq2: A pct pcm2: A pct cm2: 81 A pct na2: 0 A hit swl: F A hit top: F A hit rock: F A sc lith1: Sand & Gravel Not Reported A sc Imaq1: AQ A sc Imod1: A sc lpct1: 67 A sc lith2: Clay A sc Imod2: Not Reported A sc Imaq2: CM 33 A sc lpct2: Pct aq 1: 0 0 Pct maq 1: Pct cm 1: 100 0 Pct pcm 1: Pct na 1: 0 Pct aq 2: 0 Pct maq 2: 0 Pct cm 2: 100 Pct pcm 2: 0 Pct na 2: 0 Pct aq 3: 0 Pct cm 3: 45 Pct maq 3: 0 Pct pcm 3: 55 Pct na 3: 0 Pct aq 4: 0 Pct maq 4: 0 0 0 Pct cm 4: Pct pcm 4: 0 Pct na 4: 0 Pct aq 5: 0 Pct maq 5: 0 Pct cm 5: Pct na 5: Pct pcm 5: 0

Pct aq 6:	0	Pct maq 6:
Pct cm 6:	0	Pct pcm 6:
Pct na 6:	0	Pct aq 7:
Pct maq 7:	0	Pct cm 7:
Pct pcm 7:	0	Pct na 7:
Pct aq 8:	0	Pct maq 8:
Pct cm 8:	0	Pct pcm 8:
Pct na 8:	0	Pct aq 9:
Pct maq 9:	0	Pct cm 9:
Pct pcm 9:	0	Pct na 9:
Pct aq 10:	0	Pct maq 10:
Pct cm 10:	0	Pct pcm 10:
Pct na 10:	0	Pct aq 11:
Pct maq 11:	0	Pct cm 11:
Pct pcm 11:	0	Pct na 11:
Pct aq 12:	0	Pct maq 12:
Pct cm 12:	0	Pct pcm 12:
Pct na 12:	0	Pct aq 13:
Pct maq 13:	0	Pct cm 13:
Pct pcm 13:	0	Pct na 13:
Within sec:	Υ	Loc match:
Aq code 1:	D	
Hit swl:	F	
Athk2:	70	
Horiz Conduct:	.02907	
Vert Conduct:	.00012	
T2:	2.0347	
D50plek:	.37006	

A7 NNE 1/2 - 1 Mile MI WELLS MI300000096148

63028025007 Wellid: 63000004243 Import id: Bloomfield County: Oakland Township: Town range: 02N 10E Section: 25

Owner name: ANDREW P TRESTRAIL

Higher

Longitude:

Well addr: 1250 OXFORD Well depth: 118

Well type: Household Wssn: 0

Well num: Not Reported Driller id: 414 Const date: 1988-03-16 00:00:00.000 Case type: Steel-black Case dia:

Case depth: 118 Screen frm: 113 Screen to: 118 Swl: 34 Test depth: 52 Test hours: 4 Test rate: 35 Test methd: Unknown

-83.21311792

Grouted: Pmp cpcity: 1 Latitude: 42.55690875

TC4225651.2s Page A-17

Methd coll: Elevation:	Address Matching-House Number 748	er	
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV DIF > 20 feet Abs(Eleva		
Swl flag:	Not Reported	_ ,	
Elev dem:	781	Elev dif:	33
Elev miv:	748	Aq code:	Drift Well
Aq flag:	Not Reported	·	
Pct aq:	45		
Pct aq d:	45	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	42
Pct cm d:	42	Pct cm r:	0
Pct pcm:	13	Pct pcm d:	13
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	16	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	84	A pct aq2:	24
A pct maq2:	0	A pct pcm2:	18
A pct cm2:	58	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc Imod1:	Wet/Moist	A sc Imaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc Imod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	65	Pct maq 2:	0
Pct cm 2:	35	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	20	Pct maq 4:	0
Pct cm 4:	80	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	35
Pct pcm 5:	65	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7: Pct pcm 7:	0	Pct cm 7: Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct mag 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct ag 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct ag 12:	0	Pct mag 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct mag 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
•			

Within sec: Y Loc match: Y

 Aq code 1:
 D

 Hit swl:
 F

 Athk2:
 84

 Horiz Conduct:
 2.57327

 Vert Conduct:
 .00017

 T2:
 216.1549

 D50plek:
 34.39996

B8
North
MI WELLS MI300000096406
1/2 - 1 Mile

Lower

 Wellid:
 6300004239
 Import id:
 63028025003

 County:
 Oakland
 Township:
 Bloomfield

 Town range:
 02N 10E
 Section:
 25

Owner name: STEPHEN E GLAZEK

Well addr: STEPHEN E GLAZEN

Well addr: 85 MANOR RD

Well depth: 98

Well type: Household

Wssn: 0

 Well num:
 Not Reported
 Driller id:
 25

 Const date:
 1967-05-24 00:00:00.000
 Case type:
 Unknown

 Case dia:
 4

 Case depth:
 95.9

 Screen frm:
 93

 Screen to:
 98

 Swl:
 14

 Test depth:
 88

Test hours: 5

Test rate: 12 Test methd: Unknown Grouted: 0 Pmp opcity: 0

Latitude: 42.55809805 Longitude: -83.21941132

Methd coll: Address Matching-House Number

Elevation: 748

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: Not Reported

Swl flag: Not Reported

 Elev dem:
 758
 Elev dif:
 10

 Elev miv:
 748
 Aq code:
 Drift Well

Pct aq r:

Pct cm:

Pct na:

Pct cm r:

Pct pcm d:

Pct maq d:

Aq flag: Not Reported

Pct aq: 23 Pct aq d: 23 Pct maq: 0 Pct mag r: 0 57 Pct cm d: Pct pcm: 11 0 Pct pcm r: Pct na d: 0 Pct flag: Not Reported

0 Pct na r: Rock top: -1 D r type: Not Reported Spc cpcity: 0 A thicknes: 30 A pct aq: 70 A pct maq: 0 A pct pcm: 0 10 A pct cm: A pct na: 20 A thickns2: 84 A pct aq2: 27

0

0

57

0

11

0

A pct maq2:	0	A pct pcm2:	13
A pct cm2:	52	A pct na2:	7
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc Imod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	80	A sc lith2:	Clay
A sc Imod2:	Not Reported	A sc lmaq2:	CM
A sc lpct2:	20	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	90
Pct pcm 1:	0	Pct na 1:	10
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	10
Pct maq 3:	0	Pct cm 3:	75
Pct pcm 3:	15	Pct na 3:	0
Pct aq 4:	50	Pct maq 4:	0
Pct cm 4:	10	Pct pcm 4:	40
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct mag 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct ag 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct mag 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct ag 11:	0
Pct mag 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct mag 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct ag 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		
	-		

B9 North 1/2 - 1 Mile Lower

MI WELLS MI300000096414

Wellid: 63000004240 63028025004 Import id: County: Oakland Township: Bloomfield Town range: 02N 10E Section: 25 SHERYL RYAN Owner name: 86 MANOR RD Well addr: Well depth: 255 Well type: Household Wssn: 25 Not Reported Well num: Driller id: Unknown Const date: 1979-01-08 00:00:00.000 Case type: Case dia: Case depth: 203.8 Screen frm: 0 Screen to: 0 25 Swl: Test depth: 150 Test hours: 9 Test methd: Test rate: 11 Unknown Grouted: n Pmp cpcity: 0 42.55813405 Latitude: Longitude: -83.21818952 Methd coll: Address Matching-House Number Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Swl flag: Not Reported 0 Elev dem: 748 Elev dif: 748 Rock Well Elev miv: Aq code: Aq flag: Not Reported Pct aq: 27 Pct aq d: 9 Pct ag r: 68 Pct maq: 0 Pct maq d: 0 0 64 Pct maq r: Pct cm: 78 32 Pct cm d: Pct cm r: Pct pcm: 9 Pct pcm d: 13 Pct pcm r: 0 Pct na: 0 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: 179 D r type: Not Reported Spc cpcity: 0 A thicknes: 0 A pct ag: 0 A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: 0 0 A thickns2: A pct aq2: 0 0 A pct maq2: A pct pcm2: A pct cm2: 0 A pct na2: 0 A hit swl: F A hit top: A hit rock: A sc lith1: Not Reported Not Reported Not Reported A sc Imod1: A sc Imaq1: A sc lpct1: A sc lith2: Not Reported A sc Imod2: Not Reported A sc Imaq2: Not Reported 0 A sc lpct2: Pct aq 1: 0 0 Pct maq 1: Pct cm 1: 100 0 Pct pcm 1: Pct na 1: 0 Pct aq 2: 0 Pct maq 2: 0 Pct cm 2: 100 Pct pcm 2: 0 Pct na 2: 0 Pct aq 3: 0 Pct cm 3: 100 Pct maq 3: 0 Pct pcm 3: 0 Pct na 3: 0 Pct aq 4: 15 Pct maq 4: 0 0 Pct cm 4: 85 Pct pcm 4: Pct na 4: 0 Pct aq 5: 30 Pct maq 5: 0 Pct cm 5: 70 Pct na 5: Pct pcm 5: 0

Pct maq 6: Pct pcm 6: Pct aq 7: Pct cm 7:	0 0 24 76
Pct na 7: Pct maq 8:	0
Pct pcm 8:	0
Pct aq 9:	0
Pct cm 9:	0
Pct na 9:	0
Pct maq 10:	0
Pct pcm 10:	0
Pct aq 11:	0
Pct cm 11:	0
Pct na 11:	0
Pct maq 12:	0
Pct pcm 12:	0
Pct aq 13:	0
Pct cm 13:	0
Pct na 13:	0
Loc match:	Υ

C10 NNE 1/2 - 1 Mile Higher

 Wellid:
 6300004237
 Import id:
 63028025001

 County:
 Oakland
 Township:
 Bloomfield

 Town range:
 02N 10E
 Section:
 25

Owner name: THOMAS A HILBORN

Well addr: 290 HARROW

Well depth: 147

Well type: Household

Wssn: 0

Well num: Not Reported Driller id: 25
Const date: 1976-03-01 00:00:00.000 Case type: Unknown

 Case dia:
 6

 Case depth:
 136

 Screen frm:
 136

 Screen to:
 147

 Swl:
 24

 Test depth:
 133

 Test hours:
 3

 Test rate:
 20

Test rate: 20 Test methd: Unknown

Grouted: 0 Pmp cpcity: 0

Latitude: 42.55772835 Longitude: -83.21330562 MI WELLS

MI300000096323

Methd coll: Address Matching-House Number Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: ELEV DIF > 20 feet -- Abs(Elevation feet DEM Elevation) > 20 feet Swl flag: Not Reported Elev dem: 777 Elev dif: Elev miv: 748 Aq code: Drift Well Aq flag: Not Reported Pct aq: 13 Pct aq r: 0 13 Pct aq d: Pct maq: 0 0 Pct maq d: Pct mag r: 0 Pct cm: 76 Pct cm d: 76 Pct cm r: 0 8 Pct pcm: 8 Pct pcm d: 0 Pct pcm r: 0 Pct na: 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: -1 D r type: Not Reported 0 Spc cpcity: A thicknes: 11 A pct aq: 100 A pct pcm: A pct mag: 0 0 A pct cm: 0 0 A pct na: A thickns2: 123 A pct aq2: 15 A pct maq2: 0 A pct pcm2: 10 A pct cm2: 75 0 A pct na2: F A hit swl: F A hit top: A hit rock: F A sc lith1: Sand A sc Imod1: Fine A sc Imaq1: AQ 64 Sand A sc lpct1: A sc lith2: A sc Imod2: Very Fine A sc Imaq2: AQ A sc lpct2: 36 Pct aq 1: 0 Pct mag 1: 0 Pct cm 1: 75 Pct pcm 1: 0 Pct na 1: 25 0 0 Pct maq 2: Pct aq 2: Pct cm 2: 100 Pct pcm 2: 0 Pct na 2: 0 Pct aq 3: 0 Pct maq 3: 0 Pct cm 3: 100 Pct pcm 3: Pct na 3: 0 0 Pct maq 4: 0 Pct aq 4: 40 Pct cm 4: 0 60 Pct pcm 4: Pct na 4: 0 Pct aq 5: 0 Pct maq 5: 0 Pct cm 5: 100 0 Pct na 5: Pct pcm 5: 0 Pct aq 6: 0 Pct maq 6: 0 Pct cm 6: 4 96 Pct pcm 6: Pct na 6: 0 Pct aq 7: 0 Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 0 Pct maq 8: Pct aq 8: 0 0 0 Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 0 Pct aq 9: 0 0 Pct maq 9: Pct cm 9: 0 0 Pct pcm 9: Pct na 9: 0 Pct ag 10: 0 Pct mag 10: Pct cm 10: 0 Pct pcm 10: 0 Pct na 10: 0 Pct aq 11: 0 Pct maq 11: 0 Pct cm 11: 0 Pct pcm 11: 0 Pct na 11: 0 Pct aq 12: 0 Pct mag 12: 0 Pct cm 12: 0 Pct pcm 12: 0 0 0 Pct na 12: Pct aq 13: 0 Pct maq 13: 0 Pct cm 13: Pct pcm 13: 0 Pct na 13: 0

Within sec: Y Loc match: Y

 Aq code 1:
 D

 Hit swl:
 F

 Athk2:
 123

 Horiz Conduct:
 .11019

 Vert Conduct:
 .0002

 T2:
 13.5536

 D50plek:
 3.7634

C11
NNE
MI WELLS
MI300000096345
1/2 - 1 Mile

Higher

 Wellid:
 6300004245
 Import id:
 63028025009

 County:
 Oakland
 Township:
 Bloomfield

 Town range:
 02N 10E
 Section:
 25

Owner name: BETTIANN ALESSANDRI

Well addr: 1360 OXFORD

Well depth: 124

Well type: Household

Wssn: 0

Well num: Not Reported Driller id: 414
Const date: 1997-05-10 00:00:00.000 Case type: Steel-black

 Case dia:
 5

 Case depth:
 116

 Screen frm:
 116

 Screen to:
 124

 Swl:
 25

 Test depth:
 110

 Test hours:
 2

Test rate: 12 Test methd: Unknown Grouted: 1 Pmp cpcity: 0

Latitude: 42.55785745 Longitude: -83.21296502

Methd coll: Address Matching-House Number

Elevation: 748

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Pct aq r:

Pct cm:

Pct cm r:

Pct pcm d:

Pct maq d:

Elev flag: ELEV DIF > 20 feet -- Abs(Elevation feet DEM Elevation) > 20 feet

Swl flag: Not Reported

 Elev dem:
 781
 Elev dif:
 33

 Elev miv:
 748
 Aq code:
 Drift Well

Aq flag: Not Reported

Pct aq: 11 Pct aq d: 11 Pct maq: 0 Pct mag r: 0 Pct cm d: 32 Pct pcm: 17 0 Pct pcm r: 0 Not Reported

0 Pct na: Pct na r: 0 Pct na d: Pct flag: Rock top: -1 D r type: Not Reported 0 Spc cpcity: A thicknes: 46 A pct aq: 30 A pct maq: 0 A pct pcm: 0 0 70 A pct cm: A pct na: A thickns2: 99 A pct aq2: 14

0

0

32

0

17

A pct maq2:	0	A pct pcm2:	21
A pct cm2:	32	A pct na2:	32
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc Imod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc Imod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	15
Pct pcm 1:	0	Pct na 1:	85
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct mag 3:	0	Pct cm 3:	85
Pct pcm 3:	15	Pct na 3:	0
Pct aq 4:	0	Pct mag 4:	0
Pct cm 4:	0	Pct pcm 4:	90
Pct na 4:	10	Pct aq 5:	0
Pct mag 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	0	Pct mag 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct mag 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
·	0	Pct na 9:	0
Pct pcm 9:	0		0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:		Pct aq 11:	
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Υ	Loc match:	Υ
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

12 NNE MI WELLS 1/2 - 1 Mile Lower

MI300000096524

Wellid: 63000004242 63028025006 Import id: County: Oakland Township: Bloomfield Town range: 02N 10E Section: 25 Owner name: MASAT IZU 265 MANOR RD Well addr: Well depth: 94 Well type: Household Wssn: 25 Not Reported Well num: Driller id: Unknown Const date: 1976-05-21 00:00:00.000 Case type: Case dia: 6 Case depth: 87.7 Screen frm: 88 Screen to: 93 18 Swl: 50 Test depth: Test hours: 4 80 Test methd: Test rate: Unknown Grouted: n Pmp cpcity: 0 42.55870845 Latitude: Longitude: -83.21481572 Methd coll: Address Matching-House Number Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Swl flag: Not Reported 3 Elev dem: 751 Elev dif: Drift Well 748 Elev miv: Aq code: Aq flag: Not Reported Pct aq: 19 Pct aq d: 19 Pct ag r: 0 Pct maq: 0 Pct maq d: 0 0 39 Pct maq r: Pct cm: 39 0 Pct cm d: Pct cm r: Pct pcm: 32 Pct pcm d: 32 Pct pcm r: 0 Pct na: 0 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: -1 D r type: Not Reported Spc cpcity: 0 A thicknes: 15 A pct ag: 47 A pct maq: 0 A pct pcm: 0 0 A pct cm: 53 A pct na: A thickns2: 75 9 A pct aq2: 31 A pct maq2: 0 A pct pcm2: A pct cm2: 49 A pct na2: 11 A hit swl: F A hit top: F A hit rock: A sc lith1: Lithology Unknown Not Reported A sc Imaq1: A sc Imod1: NA A sc lpct1: 100 A sc lith2: Not Reported A sc Imod2: Not Reported A sc Imaq2: Not Reported 0 55 A sc lpct2: Pct aq 1: 0 0 Pct maq 1: Pct cm 1: 0 Pct pcm 1: 45 Pct na 1: Pct aq 2: 0 Pct maq 2: 0 Pct cm 2: 0 Pct pcm 2: 100 Pct na 2: 0 Pct aq 3: 0 0 Pct cm 3: Pct maq 3: 95 Pct pcm 3: 5 Pct na 3: 0 Pct aq 4: 10 Pct maq 4: 0 0 Pct cm 4: 90 Pct pcm 4: 0 Pct na 4: 0 Pct aq 5: 0 Pct maq 5: 0 Pct cm 5: Pct na 5: Pct pcm 5: 0

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Υ	Loc match:	Υ
Aq code 1:	Not Reported		
Hit swl:	Not Reported		

13 NNW 1/2 - 1 Mile

Athk2:

T2:

D50plek:

Horiz Conduct:

Vert Conduct:

FED USGS USGS40000482207

Org. Identifier: USGS-MI

Formal name: USGS Michigan Water Science Center

Monloc Identifier: USGS-423329083133601 Monloc name: 02N 10E 26AADA 01

0

0

0

0

0

Monloc type: Well

Monloc desc: Not Reported

04090004 Huc code: Drainagearea value: Not Reported Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Contrib drainagearea units: Not Reported 42.5580898 Latitude: Longitude: -83.2265978 Sourcemap scale: Not Reported Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 745
Vert measure units: feet Vertacc measure val: 10

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Sand and gravel aquifers (glaciated regions)

Formation type: Pleistocene Series

Aquifer type: Not Reported

Construction date: 19290101 Welldepth: 81

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Surface Sealevel

Date Surface Sealevel

1929-03-01 6.00

14
WSW MI WELLS MI300000092595
1/2 - 1 Mile

Lower

 Wellid:
 6300004316
 Import id:
 63028035001

 County:
 Oakland
 Township:
 Bloomfield

 Town range:
 02N 10E
 Section:
 35

Owner name: RICHARD M & LYDIA G WALLACE

Well addr: 860 PLEASANT

Well depth: 103
Well type: Irrigation
Wssn: 0

 Well num:
 Not Reported
 Driller id:
 25

 Const date:
 1970-03-24 00:00:00.000
 Case type:
 Unknown

 Case dia:
 4

 Case depth:
 97

 Screen frm:
 98

 Screen to:
 103

 Swl:
 20

 Test depth:
 95

 Test hours:
 4

Test rate: 10 Test methd: Unknown Grouted: 0 Pmp opcity: 0

Latitude: 42.53988755 Longitude: -83.23359602

Methd coll: Address Matching-House Number

83

Elevation: 735

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: Not Reported Swl flag: Not Reported

Elev dem: 741 Elev dif: 6

Elev miv: 735 Aq code: Drift Well

Pct aq r:

A pct aq2:

Aq flag: Not Reported

Pct aq: 7
Pct aq d: 7
Pct mag: 0

A thickns2:

Pct maq d: 0 0 Pct maq: Pct maq r: 0 Pct cm: 54 Pct cm d: 54 Pct cm r: 0 20 20 Pct pcm: Pct pcm d: 0 Pct na: Pct pcm r: 3 0 Pct na d: 3 Pct na r: Pct flag: Not Reported -1 Rock top: D r type: Not Reported Spc cpcity: 0 A thicknes: 21 A pct aq: 24 0 A pct maq: A pct pcm: 0 A pct na: A pct cm: 0 76

0

A pct maq2:	0
A pct cm2:	52
A hit swl:	F
A hit rock:	F
A sc Imod1:	W/Silt
A sc lpct1:	100
A sc Imod2:	Not Reported
A sc lpct2:	0
Pct maq 1:	0
Pct pcm 1:	15
Pct aq 2:	0
Pct cm 2:	100
Pct na 2:	0
Pct maq 3:	0
Pct pcm 3:	0
Pct aq 4:	5
Pct cm 4:	15
Pct na 4:	0
Pct maq 5:	0
Pct pcm 5:	10
Pct aq 6:	0
Pct cm 6:	0
Pct na 6:	0
Pct maq 7:	0
Pct pcm 7:	0
Pct aq 8:	0
Pct cm 8:	0
Pct na 8:	0
Pct maq 9:	0
Pct pcm 9:	0
Pct aq 10:	0
Pct cm 10:	0
Pct na 10:	0
Pct maq 11:	0
Pct pcm 11:	0
Pct aq 12:	0
Pct cm 12:	0
Pct na 12:	0
Pct maq 13:	0
Pct pcm 13:	0
Within sec:	Υ

Not Reported

Not Reported

0

0

0

0

Aq code 1:

Horiz Conduct:

Vert Conduct:

Hit swl:

Athk2:

T2: D50plek: A pct pcm2: 22 A pct na2: 19 A hit top: F A sc lith1: Sand & Gravel A sc Imaq1: AQ A sc lith2: Not Reported A sc Imaq2: Not Reported Pct aq 1: 65 Pct cm 1: Pct na 1: 15 Pct maq 2: 0 Pct pcm 2: 0 0 Pct aq 3: Pct cm 3: 100 Pct na 3: 0 Pct maq 4: 0 Pct pcm 4: 80 Pct aq 5: 10 Pct cm 5: 0 Pct na 5: 80 Pct maq 6: 0 0 Pct pcm 6: 0 Pct aq 7: 0 Pct cm 7: Pct na 7: 0 Pct maq 8: 0 0 Pct pcm 8: 0 Pct aq 9: 0 Pct cm 9: Pct na 9: 0 0 Pct maq 10: 0 Pct pcm 10: 0 Pct aq 11: Pct cm 11: 0 Pct na 11: 0 0 Pct maq 12: Pct pcm 12: 0 Pct aq 13: 0 Pct cm 13: 0 Pct na 13: 0 Υ Loc match:

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
	-		
48009	4/21/2007		1.5
48009	1/14/2008		1.5
48009	7/14/2004		1.5
48009	4/7/2004		1.5
48009	4/12/2002		1.4
48009	7/29/2004		1.4
48009	7/27/2009		1.5
48009	10/19/2009		1.5
48009	5/29/2001		1.4
48009	1/29/2009		1.4
48009	4/7/2006		1.4
48009	12/4/2006		1.4
48009	5/28/2003		1.3
48009	1/24/2009		1.3
48009	1/6/1997		1.2
48009	8/22/2002		1.2
48009	5/24/2002		1.2
48009	3/26/2004		1.2
48009	3/26/2004		1.2
48009	3/26/2004		1.2
48009	2/8/2005		1.2
48009	10/13/1995		1.1
48009	7/1/1998		1.1
48009	5/10/2002		1.1
48009	5/31/2002		1.1
48009	2/24/2003		1.1
48009	1/27/2009		1.2
48009	1/24/2009		1.2
48009	2/17/2009		1.2
48009	2/14/2009		1.2
48009	2/2/2009		1.1
48009	3/22/2004		1.1
48009	3/7/2008		1.1
48009	6/8/2002		1.0
48009	2/2/2009		1.1
48009	7/3/1995		1.0
48009	2/26/1999		1.0
48009	2/16/2005		1.9
48009	2/2/2006		1.9
48009	11/15/2001		1.9
48009	4/20/1998		1.9
48009	3/11/2003		1.8
48009	10/13/2008		1.9
48009 48009	10/27/2000 2/27/2009		1.9 1.9
48009 48009	4/3/2009 4/3/2009		1.9
48009	4/3/2009		1.8
70003			

AREA RADON INFORMATION

	1/13/1996		1.8
48009	2/21/1995		1.8
48009	11/20/2007		1.8
48009	10/13/1995		1.7
48009	7/29/2003		1.7
48009	4/29/2002		1.7
48009	10/31/2002		1.7
48009	1/18/2003		1.7
48009	1/28/2003		1.7
48009	11/22/2003		1.6
48009	12/30/2003		1.6
48009	2/7/2009		1.7
48009	1/29/2009		1.7
48009	5/11/2007	<	0.3
48009	5/7/2005	`	0.5
48009	3/8/2004		0.5
48009	1/29/2004	<	0.3
48009	1/12/2004	<	0.3
48009	4/7/2004	<	0.3
48009	6/2/2004	<	0.3
48009	3/21/2007		0.5
48009	8/30/1999		0.5
48009	11/16/2004	<	0.3
	3/18/1994		0.5
48009			
48009	3/18/1994 9/26/1998		0.5 0.3
48009		<	
48009	2/18/1999	< <	0.3
48009	1/22/2008	<	0.3
48009	5/20/2003		0.3
48009	5/10/2002	<	0.3
48009	5/23/2002	<	0.3
48009	4/15/2002	<	0.3
48009	1/15/2007	<	0.3
48009	1/20/1998		0.8
48009	7/3/1995		0.8
48009	3/15/2004		0.7
48009	3/19/2003		0.8
48009	3/29/2004		0.8
48009	4/17/2004		0.6
48009	3/24/2006		0.8
48009	10/9/2004		0.9
48009	2/9/2004		0.9
48009	2/21/2004		0.9
48009	11/10/2006		0.9
48009	1/21/2008		0.6
48009	1/15/2008		0.6
48009	1/29/2009		0.6
48009	3/13/2009		0.7
48009	2/20/2009		0.6
48009	1/24/2009		0.8
48009	2/7/2009		0.8
48009	1/24/2009		0.6
48009	2/3/2009		0.9
48009	7/1/1998		0.7
48009	3/19/2003		0.6
48009	4/13/2002		0.6
48009			

AREA RADON INFORMATION

	4/1/2002		0.6
48009	1/26/2009		0.0
48009	4/24/2002		0.9
48009	4/22/2003		0.5
48009	1/26/2009		2.6
48009	1/22/2009		2.8
48009	1/7/2002		2.5
48009	11/23/2007		2.4
48009	11/9/2007		2.4
48009	9/28/1999		2.4
48009	10/30/2006		2.2
48009	3/23/2009		2.4
48009	1/26/2009		2.3
48009	12/3/1994		2.2
48009	4/23/2002		2.2
48009	4/29/2002		2.2
48009	2/7/2003		2.2
48009	1/8/2007		2.3
48009	2/25/2002		2.1
48009	12/2/2002		2.7
48009	11/14/2003		2.6
48009	6/10/2002		2.7
48009	1/13/2006		2.6
48009	10/31/2009		3.0
48009	1/3/2004		2.8
48009	11/3/2007		2.7
48009	11/7/2007		3.8
48009	7/28/2008		3.6
48009	5/21/2004		3.5
48009	4/28/2003		3.5
48009	1/2/2010		3.5
48009	9/8/2009		3.5
48009	11/6/2008		3.4
48009	2/25/2004		3.2
48009	4/9/2004		3.3
48009	11/10/2007		3.2
48009	1/24/2009	<	0.3
48009	11/11/2003		3.7
48009	1/25/2010	<	0.3
48009	1/4/1997		3.8
48009	1/14/2002		3.8
48009	6/9/2003		3.8
48009	11/22/1997		3.6
48009	7/16/2007		5.6
48009	7/16/1999		5.5
48009	1/24/2009		5.9
48009	6/12/2004		4.7
48009	10/20/2008		5.0
48009	9/29/2007		5.0
48009	3/13/2002		4.6
48009	5/27/2002		4.6
48009	6/9/2008		6.7
48009	7/6/2007		7.7
48009	4/12/2002		2.0
48009	5/8/2002		2.0
48009	9/17/2001		22.4
48009	J: 1112001		44.4
70003			

AREA RADON INFORMATION

	3/5/2009	14.4
48009	2/7/2009	12.6
48009	5/27/2002	8.0
48009	6/24/2002	10.8
48009	7/24/1999	8.6
48009	1/24/2009	2.1
48009	11/7/2008	4.2
48009	10/10/2006	4.2
48009	8/19/2008	4.1
48009	2/1/2008	4.5
48009	10/23/2007	4.5

Federal EPA Radon Zone for OAKLAND County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 48009

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.780 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 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 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

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 wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551 Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by

Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

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 Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix 5 Local Documentation



OAKLAND COUNTY EXECUTIVE L. BROOKS PATTERSON

HEALTH DIVISION

Kathleen Forzley, Manager (248) 858-1280 | health@oakgov.com

March 19, 2015

JULIE PRATT
PERFORMANCE ENVIRONMENTAL SERVICES INC
30553 WIXOM ROAD SUITE 500
WIXOM MI 48393

RE: FOIA REQUEST

191 N CHESTER

BIRMINGHAM, OAKLAND COUNTY, MI

PARCEL #: 19-25-356-023

Dear Ms. Pratt:

Your request is approved in part and denied in part. Per your request and a review of our records, the Oakland County Health Division (OCHD) has no information regarding on-site sewage disposal permits, well logs, or water well permits for the captioned property. This Division does not maintain files for LUSTs, ASTs or USTs for this site. There are no known landfills on this property.

Your request for information regarding "...not limited to..." and "...hazardous material usage..." is denied for the reason that it fails to meet conditions of MCL 15.233(1) of the Freedom of Information Act, Act 442 of 1976 (FOIA), in that it does not describe a public record sufficiently to enable the public body to find the public record.

If you wish to modify your request by providing a complete list of specific concerns and properties, with date ranges for the information you desire, OCHD will provide available information in compliance with the FOIA.

It is recommended that you contact the Michigan Department of Licensing and Regulatory Affairs and the Michigan Department of Environmental Quality as those agencies have regulatory authority over certain environmental pollutants and monitoring activities. Similarly, it is advised that you contact the local water supply and sewer agencies as they may have authority over certain aspects of the captioned property. If you have any questions, please contact this Division at (248) 858-1312.

YOUR FURTHER LEGAL RIGHTS

To the extent that this response, in your opinion, constitutes a denial of your FOIA rights under the Michigan Freedom of Information Act, your statutory remedies under MCL 15.240, as required to be provided to you by the statute, are as follows:

MCL 15.240

- (1) If a public body makes a final determination to deny all or a portion of a request, the requesting person may do 1 of the following at his or her option:
 - (a) Submit to L. Brooks Patterson, Oakland County Executive, a written appeal that specifically states the word "appeal" and identifies the reason or reasons for reversal of the denial.
 - (b) Commence an action in the circuit court to compel the public body's disclosure of the public records within 180 days after a public body's final determination to deny the request.
- (2) Within 10 days after receiving a written appeal pursuant to subsection (1)(a), the head of the public body shall do one of the following:
 - (a) Reverse the disclosure denial.
 - (b) Issue a written notice to the requesting person upholding the disclosure denial.
 - (c) Reverse the disclosure denial in part and issue a written notice to the requesting person upholding the disclosure denial in part.
 - (d) Under unusual circumstances, issue a notice extending for not more than 10 business days the period during which the head of the public body shall respond to the written appeal. The head of the public body shall not issue more than one notice of extension for a particular written appeal.
- (3) A board or commission that is the head of a public body is not considered to have received a written appeal under subsection (2) until the first regularly scheduled meeting of that board or commission following submission of the written appeal under subsection (1)(a). If the head of the public body fails to respond to a written appeal pursuant to subsection (2), or if the head of the public body upholds all or a portion of the disclosure denial that is the subject of the written appeal, the requesting person may seek judicial review of the nondisclosure by commencing an action in the circuit court under subsection (1)(b).
- (4) In an action commenced under subsection (1)(b), a court that determines a public record is not exempt from disclosure shall order the public body to cease withholding or to produce all or a portion of a public record wrongfully withheld, regardless of the location of the public record. The circuit court of the county in which the complainant resides or has his or her principal place of business, or the circuit court for the county in which the public record or an office of the public body is located has venue over the action. The court shall determine the matter de novo and the burden is on the public body to sustain its denial. The court, on its own motion, may view the public record in controversy in private before reaching a decision. Failure to comply with an order of the court may be punished as contempt of court.
- (5) An action commenced under this section and appeal from an action commenced under this section shall be assigned for hearing and trial or for argument at the earliest practicable date and expedited in every way.
- (6) If a person asserting the right to inspect, copy, or to receive a copy of all or a portion of a a:\hs\191\text{NChester.docfoia}

public record prevails in an action commenced under to this section, the court shall award reasonable attorneys' fees, costs, and disbursements. If the person or the public body prevails in part, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. The award shall be assessed against the public body liable for damages under subsection.

(7) If the circuit court determines in an action commenced under this section that the public body has arbitrarily and capriciously violated this act by refusal or delay in disclosing or providing copies of a public record, the court shall award, in addition to any actual or compensatory damages, punitive damages in the amount of \$500.00 to the person seeking the right to inspect or receive a copy of a public record. The damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body, that is not an individual and that kept or maintained the public record as a part of its public function.

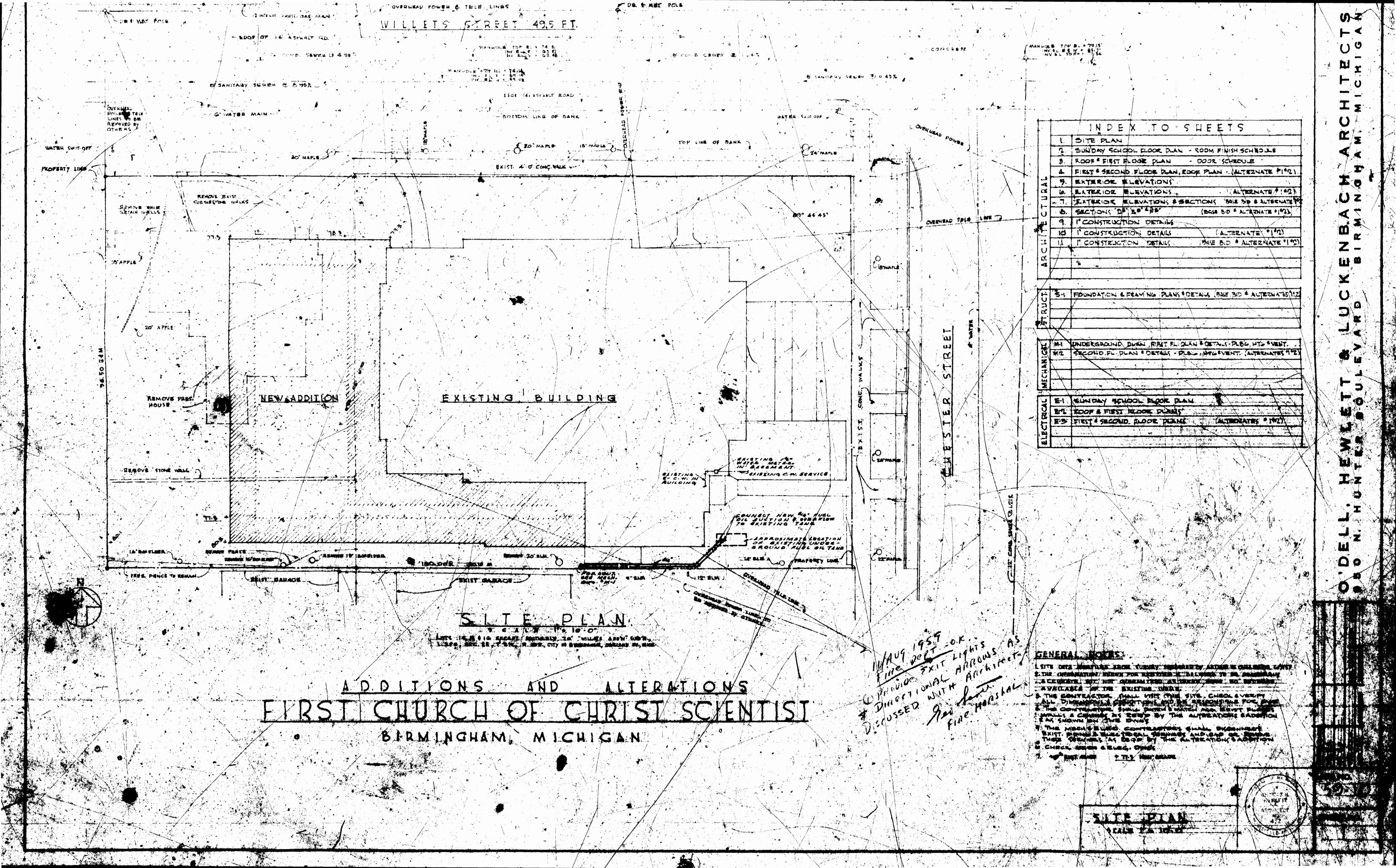
Sincerely,

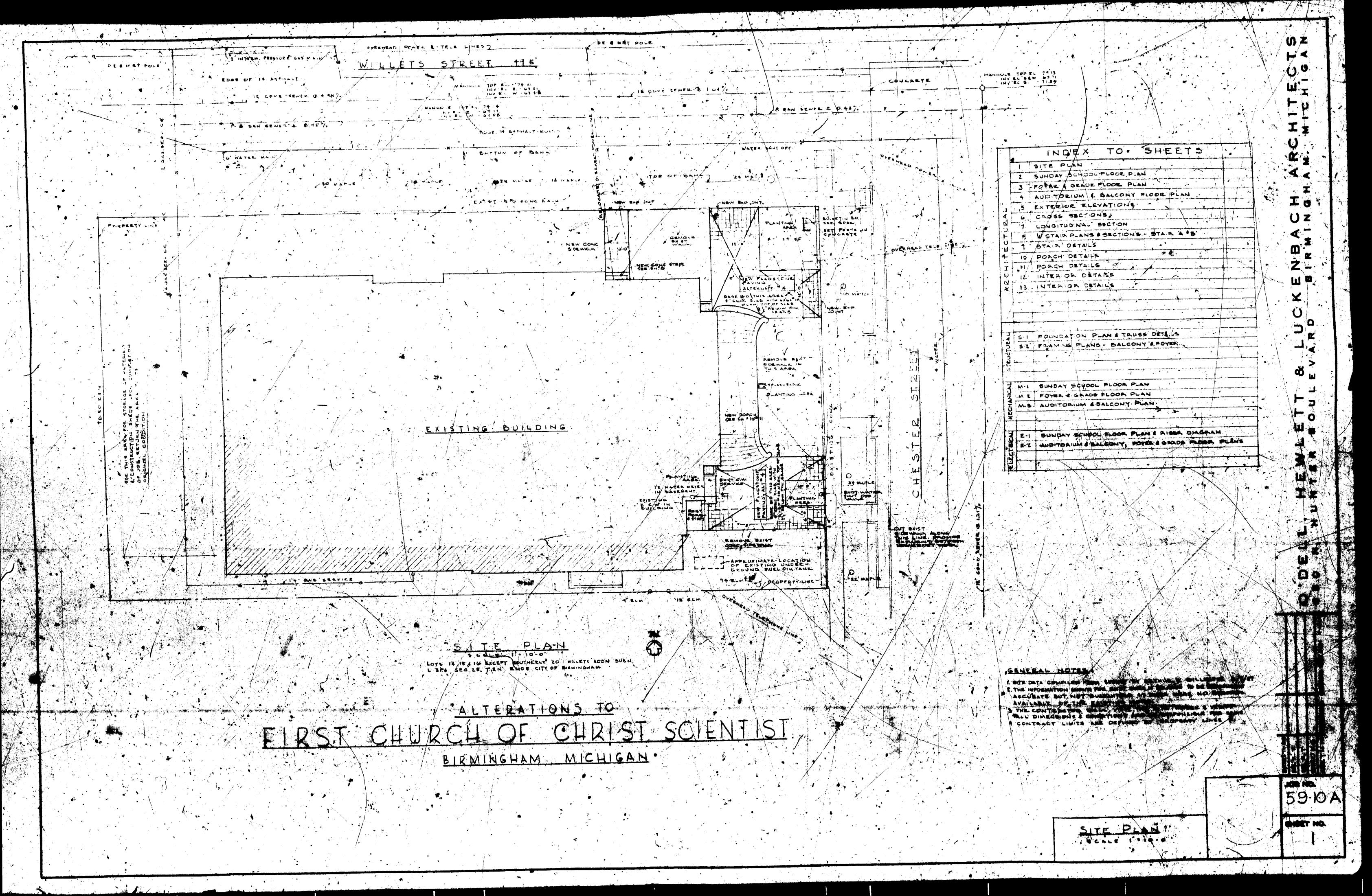
OAKLAND COUNTY HEALTH DIVISION Department of Health and Human Services

Richard C. Peresky, R.E.H.S. M.S.

Senior Public Health Sanitarian Environmental Health Services

cc: Anthony Drautz, R.S., M.S.A., Administrator, Environmental Health Services





#101-000.00-502.000

City of Birmingham, Michigan FIRE AND BUILDING INSPECTION DEPARTMENTS PERMIT

No 09368

- 10.00	PERMIT	Date 10/17/90
Fee\$ 10.00 191 N. Chester,	Birmingham, MI 48009	
	Street and Number ations under this permit shall conform to the requ	Permit No. uirements of the Birmingham City Code.
A permit is hereby granted for:		
The use of explosives		
The installation of tanks for	flammable liquids	
er e	d Detroleum Gas Systems	
The installation of Dry-Cle Removing one 1,0	oning or Dry-dveing equipment	
	17205	MacArthur, Redford, MI 4824
D& H Richman	,	Address
7) Ot 37 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Permit grant	ed to	
	ed to	



ENVIRONMENTAL SERVICES, INC.

D. Rex Bleeker Environmental Engineer

9382 Lilley Road Plymouth, MI 48170

(313) 454-9280 FAX (313) 454-9281

sam fire Department

2 SOUTH ADAMS ROAD INGHAM, MICHIGAN 48009

JEFFREY L. SLY
Assistant Fire Chief

BUSINESS (313) 646-1127 (313) 646-1128

DAVID G. EDGINTON

Underground Storage Tank

FICE M 71 10-17-90

NAME CHRISTIAN Science CHURCH	
ADDRESS 191 N. CHESTER	
ENVIRONMENTAL ENGINEER D REF BIECKER	

FILE

TANK 1

TANK 2

TANK 3

TANK 4

PRODUCT:

FUEL OIL

SERIAL NO:

665 606

SIZE -

IF KNOWN:

1000 991

IS TANK
REPLACED:

NO.

MINIMAL CONTAMINATION OBSERVED.

TANKS Remarks By Of H RICHMAN

(248 - 90)

1/2/2

2894-15

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

REQUEST FOR DISCLOSURE OF DEQ RECORDS

Under The Freedom Of Information Act
This information is required under 1976 PA 442, as amended, in order to request public records.

PD, RMD-SEMDO duel- 3-17-15

ALL INFORMATION MUST BE TYPED OR PRINTED EXCEPT FOR WRITTEN SIGNATURES								
Porformanco Environmental Convince	Company's Project/Reference Number 151226							
Requester's First Name Julie	Requester's Last Name Pratt			Da	Daytime Phone # (include Area Code) 586-424-7355			
Address (Street and Number) 30553 Wixom F					Fax # (include Area Code) 248-926-3838			
^{City} wixom	State mi Zip Code 48393				E-mail: julie.pratt@perform-env.com			
This request is for records from 🔳 Lansing Central and/or 🔳 District Office								
SUBMISSION DATE 3/9/15 I wish to review the records listed below I wish to receive a copy of the records listed below I wish to receive an estimate for the cost of fulfilling my request								
NOTE: To refine the searching process, you may wish to narrow down your request by calling the Environmental Assistance Center (1-800-662-9278) for assistance, or checking specific boxes related to particular divisions. If you do not see what you are looking for in the list below, please feel free to use the additional comments field. For additional program information, please click here. Programs: If you are only requesting the available information from certain programs, then please list the site number (i.e., Site 1, 2, etc. or "ALL") in the appropriate form field(s) provided below. (see division acronyms in site table below).								
AQD - Permits			OWMRP (RMG)- Hazardous Waste, ID#:					
RRD - BEA Only	1		OWMRP (RMG)- Solid Waste/Scrap Tires/Medical Waste / /					/ /
RRD - Environmental Remediation	11		OOGM - Oil, Gas and Minerals					
RRD - Leaking Underground Storage Tanks (Part	213) 1		WRD -Groundwater					
RRD -Superfund			WRD - Water Permits					
Storage Tanks (Part 211)- Jim Lucas – Lucasi@michigan.gov		BMIT to ARA	WRD - Stormwater					
ODWMA (RMG)- Public Water Supply			WRD - Wetlands					
Check boxes for each Division you are requesting files from (You must provide the section, township, range for oil, gas and minerals records)								
Description Provide a detailed description of materials being requested. At a minimum, include the Facility Name, Street Address, City and County					Oil, Gas & Minerals (OOGM)	Remediation & Redevelopment (RRD)	Resource Management (RMG)	Water Resources (WRD)
Site 1 191 N. Chester, Birmingham, MI	nate in all their lights had the ear the presence	utiminist network i militari	Oakland	in a section of the sec	Seed to the seed and	<u></u>		September 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18
Site 2			Oakland					
Site 3	201		COUNTY					
Site 4	'n°	213	COUNTY					
Site 5			COUNTY					
Additional Comments:								
Please contact me to schedule an on-site file review of available documentation.								



SITE ASSESSMENT / CLOSURE REPORT

1-1,000 Gallon Heating Oil U.S.T

FIRST CHURCH OF CHRIST SCIENCE

Located at 191 North Chester Street Birmingham, MI 48009



Prepared for Martha Moyer

FIRST CHURCH OF CHRIST SCIENCE
191 North Chester Street
Birmingham, MI 48009

BY

ENKON ENVIRONMENTAL SERVICES, INC.

October 31, 1990

AUTHORIZATION

ENKON Environmental Services, Inc. was retained by Ms. Martha Moyer of The First Church of Christ Science to perform the site assessment/closure report for a 1,000 gallon heating oil underground storage tank (U.S.T) which was located at the First Church of Christ Science in Birmingham, Michigan.

SCOPE OF WORK

The scope of work consisted of the following tasks:

- o Conduct a visual survey of the vicinity, examining for: surrounding populations and land usage; locations and distance to nearby surface water structures; locations and distance to any drinking water or other types of water wells; locations and distance to any subsurface sewers, conduits, other UST's, and other buried structures on the property.
 - o Perform a visual examination of the exterior surface of the underground storage tank; checking for signs of deterioration or other potential exit points which may have allowed the stored product to escape.
 - o Analyze the air inside the interior chamber of the exhumed tank to ensure the absence of any residual flammable liquids or explosive organic vapor concentrations using on-site analytical techniques.
 - o Perform a visual inspection on the excavation zone walls and floor after the tank was exhumed; examining for signs of contamination from the product in the storage tank.
 - o Remove selected soil "grab" samples from the walls and floor of the excavation zone and conduct a "head space" analysis on them; examining for the presence of "volatile organic compounds" using on-site analytical techniques.
 - o Perform random spot checks of the ambient air around the excavation zone during the act of removing the contaminated soil; examining for the presence of released "volatile organic compounds" using on-site analytical techniques.

- o Monitor the soil removal with an ORGANIC VAPOR ANALYZER to insure that only contaminated soils are stockpiled for later off-site disposal.
- o After completing the removal of the contaminated soil which surrounded the underground storage tank, obtain the required soil samples for off-site laboratory analysis.

ANALYTICAL METHODOLOGY

On-site sample analysis was performed using a Foxboro Model 128 Organic Vapor Analyzer/Gas Chromatograph (OVA/GC). Two different analysis procedures were used; direct ambient air vapor analysis and analysis of samples which have been prepared using a modified version of the "head space" organic vapor development procedure. A complete discussion of both the Model 128 OVA/GC and the modified "head space" sample preparation procedure are attached in Appendix C of this document.

Canton Analytical Laboratory, Inc. in the city of Ypsilanti, Michigan was used to perform the required off-site sample analyses.

SITE CLIMATOLOGICAL CONDITIONS

The city of Birmingham is located in the humid continental climatic zone of lower Southeast Michigan. Birmingham's climate is controlled by 1) its proximity to Lake St. Clair, and 2) the many small natural lakes which are north and west of the city. The mean annual temperature is 48.5° F with the mean summer and winter temperatures being 70.9° F and 25.3° F respectively. The area receives an average of 30.35 inches of rain distributed across an average of 67 days each year. The mean annual wind is from the southwest at 10.0 miles per hour. An average October day has a typical high temperature of 63.7° F and a typical low temperature of 42.7° F. The day that the tank was removed, the weather was sunny, 70° F, with 20 MPH southwesterly winds.

SITE VICINITY CONDITIONS

The property consists of a sixty feet wide by one hundred fifty feet deep parcel of land located at 191 North Chester Street in the city of Birmingham. It is bordered on the west by a single family residence, on the north by Willits Street, on the east by North Chester Street, and on the south by a paved alley. There is a single ten thousand (estimated) square feet building located on the property. The underground storage tank was buried beneath the front lawn immediately adjacent to the southeast corner of the building. A drawing depicting the location of the heating oil U.S.T. is included in Appendix A of this report. The entire parcel of land and the building is used as a place of worship and study.

The property is located along the northwestern edge of downtown Birmingham. The neighborhood surrounding this piece of property is used for both residential and office and commercial purposes. The closest residential dwellings were approximately two hundred fifty feet both north and west of the excavation zone. No potable or other use water wells were observed within a 1000 feet radius of the excavation zone. The closest surface water structure was a stream which ran through a park approximately one half-mile to the west.

North Chester Street is a major, four lane, vehicular artery which is part of the traffic diversion loop around downtown Birmingham. It experiences heavy traffic during the normal commuting and working hours of each work day.

The church building is connected to the municipal potable water supply and sewage system. No storm drains, or sewer manhole covers were observed within 1000 of the excavation zone.

SITE GROUNDWATER CONDITIONS

During the period of time that the UST was being removed, the excavation zone did not display any groundwater activity.

SOIL DESCRIPTION

The typical wall profile consists of four inches of sod above an eighteen inch layer of black sandy loam topsoil. The soil below the topsoil horizon consists of at least four feet of light brown mixed sand and gravel.

TANK DESCRIPTION

The tank was a standard, single wall, steel 1,000 gallon underground storage tank (UL Serial # 665606). Except for the asphalt coating, the tank did not have any corrosion protection. A thorough examination of the tank failed to uncover any signs of corrosion or other potential points of product release. The steel walls of the tank, as well as the galvanized product lines were all in excellent shape. The tank was inspected by Mr. David Edginton, Fire Marshal for the city of Birmingham.

ON-SITE SOIL ANALYSIS

ENKON arrived on-site and discovered that the contractor, (D & H Richmond), had already exposed the top of the tank. Soil from the exposed edges of the tank were sampled and analyzed on-site for entrained "volatile organic compounds" (VOC). The initial readings were: north side, 125 parts per million (ppm); east side, 10 ppm; south side, 15 ppm; west side, 25 ppm.

After the tank was removed ENKON collected samples from the excavation walls and floor and analyzed them on-site for the presence of VOCs. None of these samples contained any entrained VOCs.

Upon completion of the sampling and on-site analysis of the excavation zone soil surfaces, the final soil samples were collected for submittal to Canton Analytical Laboratory.

The analytical results for these samples are summarized in the table below. A copy of the laboratory analytical report is included in Appendix B of this document.

SUMMARY OF THE LABORATORY ANALYSIS OF THE FINAL SOIL SAMPLES							
DIRINA	SS#1 mg/kg (ppm)	SS#2 mg/kg (ppm)	SS#3 mg/kg (ppm)	SS#4 mg/kg (ppm)	SS#5 mg/kg (ppm)	SS#6 mg/kg (ppm)	MDNR Limit (ppm)
BTEX	-0.01	-0.01	-0 01	-0.01	<0.01	<0.01	0.01
Benzene Ethylbenzene Toluene	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01	<0.01 <0.01	<0.01 <0.01	0.01 0.01
Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
610 POLYNUCLEAR AROMATICS							
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04 <0.06	<0.04 <0.06	0.04
Acenaphthylene Acenaphthene	<0.06 <0.04	<0.06 <0.04	<0.06 <0.04	<0.06 <0.04	<0.04	<0.04	0.04
Fluorene Phenathrene	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	0.02
Anthracene Fluoranthene	<0.02 <0.02	<0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02	0.02
Pyrene Benzo(a)anthracene	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	0.02
Chrysene Benzo(b)fluoranthene	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	0.02
Benzo(k)fluoranthene Benzo(a)pyrene	<0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	0.02 0.02 0.02
Dibenzo(a,h)anthracen Benzo(ghi)perylene Indeno(1,2,3-cd)pyren	<0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	0.02

SS#1 = Excavation zone; north wall composite
SS#2 = Excavation zone; east wall composite
SS#3 = Excavation zone; south wall composite
SS#4 = Excavation zone; west wall composite

SS#5 = Excavation floor; 1,000 gallon heating oil tank; north end SS#6 = Excavation floor; 1,000 gallon heating oil tank; south end

MDNR = Michigan Department of Natural Resources Type A Criteria Limits

PLATE 1

CONCLUSION

As shown by the off-site analytical laboratory results, all the exposed soil surfaces of the U.S.T excavation zone at the First Church of Christian Science meet the Michigan Department of Natural Resources Underground Storage Tank Type "A" Closure Criteria.

It is the opinion of ENKON Environmental Services, Inc. that, no residual potential environmental impact to the surrounding soil and groundwater from the removal of the 1,000 gallon heating oil underground storage tank and approximately fifty cubic yards of soil from the First Church of Christian Science facility in Birmingham, Michigan appears evident.

Sincerely, ENKON Environmental Services, Inc.

D. Rex Bleeker

Environmental Engineer

APPENDIX A - - -

MAPS & DRAWINGS

I Site Location

II Soil Sample Locations



SITE LOCATION 200 MELBORNE 3 VILLA TOSE WITE COMMENCE HUMPHE BIRETICHAM BERTICANDS STANLEY BES-GRECTON CHAPIN SOUTH! MITH MARGUERITE SPHINGER TOARS LINOA ELIZABETH MADOLINE MIK OVER SARONER . KESH SA LONE BLM TONDE WOO Project: First Church of Christ Science - 191 North Chester



Main Entrance Stairs Concrete Sidewalk 55#1 _ _ _ 55#1 _ _ _ 55#1_ Remote Fill Line (End was capped) Soil Profile Ø55#4 4" Sod = Black Sandy Loam Topsoil 1,000 Gallon B Brown Fuel Oil Tank S Light Brown 14 e 55#2 ?" Mixed Sand i and Gravel (Crabapple ATree B SS # 2 Excavation Zone 15' Long by 8' Wide by 6' Deep 3 Lines; 2 Product 1 Vent Paved Alleyway Project: 1st Church of Chris. Sci. Date: 10/18/90 Scale: None

APPENDIX B - - -

LABORATORY ANALYTICAL RESULTS

Ι	Dei	fin:	iti	ons

II EP Toxicity Limits

III TCLP Limits

IV MDNR Petroleum Hydrocarbon Limits

V Published Laboratory Results

= EXPLANATION OF THE SYMBOLS USED =

BTEX = An acronym for benzene, toluene, ethyl benzene, xylenes. EPTOX = Extraction Procedure Toxicity; a 24 hour acidic water extraction procedure followed by analysis of the extract for pH, corrosivity, 10 metals, and 24 organic compounds. \mathtt{MDL} = Minimum Detection Level; the lowest analytical quantity which can be detected by the instrument. Varies from instrument to instrument and method to method. A series of general quidelines are usually provided for reference. mg/kg = milligrams per kilogram (equivalent to ppm). These units are used with solid (dry weight) materials. = milligrams per Liter (equivalent to ppm). mq/L These units are used with liquid materials. PAH= An acronym for polynuclear aromatic hydrocarbons; a class of multi-ring organic molecules (also called PNA). PNA = See PAH = parts per billion; the number of units out of a total of ppb one billion units (units of weight - usually micrograms). = parts per million; the number of units out of a total of ppmone million units (units of weight - usually milligrams). = Total petroleum hydrocarbons; the combined total of all TPH the analyzed petroleum hydrocarbon concentrations. ug/kg = micrograms per kilogram (equivalent to ppb). These units are used with solid (dry weight) materials. ug/L = micrograms per Liter (equivalent to ppb).

CORROSIVITY = A material with a pH of 2.0 or less or 12.5 or more. The standard is the ability to corrode bare steel at a rate of 1/4 inch or more per year under specific test conditions. FLASH POINT = The temperature at which a liquid or solid gives off enough vapor to form an ignitable mixture with the air above the material's surface.

IGNITABILITY = The temperature at which the material or it's vapors catches fire in an enclosed place and in the presence of a source of ignition (usually expressed as the Flash Point.) pH = A measure of the acidity or alkalinity of a material. It is represented by a number which is the logarithm of the reciprocal of the hydrogen ion concentration of a solution.

REACTIVITY = A partial definition is; a cyanide- or sulfide-bearing material which, when exposed to pH conditions between 2.0 and 12.5 emits toxic fumes in dangerous quantities.

These units are used with liquid materials.

l gram = 1,000 milligrams = 1,000,000 micrograms 1 Liter (H_20) = 1 kilogram = 1,000 grams = 1,000,000 milligrams = 1,000,000,000 micrograms

ENKON Environmental Services, Inc. First Church of Christ Science - Birmingham, Michigan

EP Toxicity Characteristics h	by EPA Method 1310
Analyte	Minimum Maximum Detection Limit for Limit Nonhazardous
Ignitability, F° EPA Method 1010	Not Applicable > 140 F°
Corrosivity, pH Units EPA M 9040 Reactivity; as Cyanide, EPA 9010 Reactivity; as Sulfide, EPA 9030 Arsenic, EP Tox., EPA Meth. 7060 Barium, EP Tox., EPA Method 7080 Cadmium, EP Tox., EPA Meth. 7130 Chromium, EP Tox., EPA Meth 7190 Copper, EP Tox., EPA Method 7210 Lead, EP Tox., EPA Method 7420 Mercury, EP Tox., EPA Meth. 7470 Selenium, EP Tox., EPA Meth 7740 Silver, EP Tox., EPA Method 7760 Zinc, EP Tox., EPA Method 7950	Not Applicable 2.0 <x<12.5 0.01="" 0.05="" 0.10="" 0.2="" 1.0="" 1.00="" 100.0="" 250="" 5.0="" 500="" kg="" kg<="" mg="" td=""></x<12.5>
Endrin EPA Method 8080 (1,2,3,4,10,10-hexachlroro-1,7-Epoxy-1,4,4a,5,6,7,8,8a octahydro 1,4-endo, endo-5.8-dimethanonaphthalene)	0.006 mg/kg 0.020 mg/kg
Lindane EPA Method 8080 (1,2,3,4,5,6-hexa-chlorocyclo-hexane, gamma isomer)	0.076 mg/kg 0.400 mg/kg
Methoxychlor EPA Method 8080 (1,1,1-trichloro-2,2-bis (p-methoxyphenly)ethane)	0.0001 mg/kg 10.0 mg/kg
Toxaphene EPA Method 8080 $(C_{10}H_{10}Cl_8$. Technical chlorinated camphene, 67-69 % Cl)	0.001 mg/kg 0.5 mg/kg
2,4,D EPA Method 8150 2,4-D(2,4-Dichlorophenoxyacetic Acid)	0.001 mg/kg 10.0 mg/kg
2,4,5-TP EPA Method 8150 2,4,5 TP Silvex (2,4,5-Trichloro- phenoxyproprionic acid)	0.001 mg/kg 1.0 mg/kg

ENKON Environmental Services, Inc. First Church of Christ Science - Birmingham, Michigan

TCLP Wa	ste Characterizatio	n ———
	Minimum Detection	Maximum Nonhazardous
	<u>Limit in soil (ppm)</u>	Material Limit (ppm)
GENERAL CHARACTERISTICS		
Flash Point	Not Applicable	140° F
Corrosivity (pH)	Not Applicable	<2.0 or >12.5
Reactivity as Cyanide	1.0	Level determined
Reactivity as Sulfide	1.0	for each case.
METALS (TCLP Extraction)		
Arsenic (As)	0.05	5.0
Barium (Ba)	0.01	100.0
Cadmium (Cd)	0.01	1.0
Chromium (Cr)	0.05	5.0
Lead (Pb)		5.0
Mercury (Hg)	0.01	0.2
Selenium (Se)	0.01	1.0
Copper (Cu) [MDNR only] 0.01	100.0
Zinc (Zn) [MDNR only	0.01	500.0
VOLATILE ORGANIC COMPOUND		
Benzene	0.005	0.5
Carbon Tetrachloride	0.005	0.5
Chlorobenzene	0.005	100.0
Chloroform	0.005	6.0
1,4-Dichlorobenzene	0.005	7.5
1,2-Dichloroethane	0.005	0.5
1,1-Dichloroethylene	0.005	0.7
Methyl Ethyl Ketone	0.050	200.0
Pyridine	Not Detected	5.0
Tetrachloroethylene	0.005	0.7
Trichloroethylene	0.005	0.5
Vinyl Chloride	0.010	0.2
ACID EXTRACTABLES (TCLP E		200 0
o-Cresol	0.660	200.0 200.0
m-Cresol	0.660	200.0
p-Cresol	0.660	200.0
Cresol (total)	0.660 0.660	100.0
Pentachlorophenol	0.660	400.0
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	0.660	2.0
BASE NEUTRAL COMPOUNDS (T		2.0
Hexachlorobenzene	0.660	0.13
Hexachloro-1,3-butadie		0.5
Hexachloroethane	0.660	3.0
Nitrobenzene	0.660	2.0
2,4-Dinitrotoluene	0.660	0.13
PESTICIDES (TCLP Extracti		0.15
Endrin	0.006	0.02
Lindane	0.076	0.4
Methoxychlor	0.017	10.0
Chlordane	0.0017	0.03
Heptachlor	0.0017	0.008
HERBACIDES (TCLP Extracti		
2,4-D	0.001	10.0
2,4,5-TP (Silvex)	0.001	1.0
-, -, \ - , /	- · - · -	

ENKON Environmental Services, Inc. First Church of Christ Science - Birmingham, Michigan

Michigan DNR Recommended Maximum Concentration Levels = Criteria for Petroleum Hydrocarbons in Soil and Water (All values are expressed in parts per million-ppm)

	4 +	" Criteria [*] roundwater		Criteria coundwater
BTEX				
Benzene	0.010	0.001	0.020	0.001
Ethylbenzene	0.010	0.001	0.600	0.030
Toluene	0.010	0.001	0.800	0.040
Xylenes	0.010	0.001	0.400	0.020
MTBE				
Methyl(tert)butylether	0.010	0.001	0.400	0.020
610 POLYNUCLEAR AROMATICS				
Acenaphthene	0.020	0.003	8.000	0.400
Acenaphthylene*	0.060	0.006	0.060	0.006
Anthracene	0.020	0.003	40.000	2.000
Benzo(a)anthracene	0.020	0.003	0.100	0.003
Benzo(a)pyrene	0.020	0.003*	0.100	0.003
Benzo(b)fluoranthene	0.020	0.003 ⁺	0.100	0.003
Benzo(ghi)perylene*	0.020	0.003	0.100	0.003
Benzo(k)fluoranthene	0.020	0.003 ⁺	0.100	0.003
-Chrysené	0.020	0.003+	0.100	0.003
Dibenzo(a,h)anthracene	0.020	0.003*	0.100	0.003
Fluoranthené	0.020	0.003	6.000	0.300
Fluorene	0.020	0.003	6.000	0.300
Indeno(1,2,3-cd)pyrene	0.020	0.003	0.100	0.003
Naphthalene	0.040	0.004	8.000	0.400
Phenathrene*	0.020	0.003	0.020	0.003
Pyrene	0.020	0.003	4.000	0.200
- 4				

^{*} Values are the method of detection's limit.

^{*} When criteria are below method of detection limits, target remediation levels are method of detection limits.



CHAIN OF CUSTODY RECORD	
client: First Church of Christian Science	
Location: 191 North Chester Birmingen 48009	
Investigator: 10 Rex 13 Ceku	

Item #	Date	Time	Grab Comp.	Type of Analysis	Description of Sample
1	16/17	·	C	Blex/PNA	Dorth Wall Composite
2	10/17	aning di Wellynge wang pangalan langgan a	C	RIE+/PNA	East Wall Conysort
3	10/17		C	Bre-/PNA	Sauti Wall Composite
-4	10/17		C	BREX/PNA	West Wall Congruid
5	10/17		G	BIEX IPNA	Exe Flori N Tank End
6	(0/17		G	BTEX/PNA	Erc Floor S Tank & S
7	10/17		c {	8 Floyd Communicate	Resiliety Wash Sail Composite
			. (Bier, DeB	
A TO A STATE OF THE STATE OF TH	CONTRACTOR OF THE PARTY OF THE	a est tea a se n tation de la _{comp} a de la compa	ambellus das succeedente (Asialis neutropicies), psy p	. Se estárológica de presidente con en cual de prima Consectión de la como de se en en el debusé passa accesada	er general commentation of the first financial comment among the delication of the first comment of the delication of th

Dates	10/18/90	Relinquish	Ola Blocker	Recipient	Joseph	Bull
			DROS Bleeker	, ,	DOSEPH	P. SULLIVAN
Date:	10/2/90	Relinquish	Joseph Bull	Recipient	Sard	mien.
			JOSEPH P. SULLIVAN		SANDY	MILLER
Dates		Relinquish		Recipient	······································	
Dates		Relinquish		Recipient		
Dates		Relinquish		Recipient		

ENKON ENVIRONMENTAL SERVICES CAL REPORT# 9935

FIRST CHURCH OF CHRISTIAN SCIENCE NORTH WALL COMPOSITE

FIRST CHURCH OF CHRISTIAN SCIENCE SOUTH WALL COMPOSITE

FIRST CHURCH OF CHRISTIAN SCIENCE EXC. FLOOR N. TANK END

FIRST CHURCH OF CHRISTIAN SCIENCE EAST WALL COMPOSITE

FIRST CHURCH OF CHRİSTIAN SCIENCE WEST WALL COMPOSITE

SAMPL	ES	RECEIVE	ED 1	Ō	/18	790

LAB# 9221405

LAB# 9221406

LAB# 9221407 LAB# 9221408

LAB# 9221409

PAGE 1

LAB# 9221410 FIRST CHU	RCH OF CHRISTIA	AN SCIENCE EX	C. FLOOR S. T	ANK END		
LAB# UNITS	92214 0 5 mg/kg	9221406 mg/kg	9221407 mg/kg	9221408 mg/kg	9221409 mg/kg	9221410 mg/kg
BETX						place place before upon place to be from before to the time of the time.
Benzene	< 0.010	< 0.010	< 0.010	0.010	< 0.010	< 0.010
Ethylbenzene	< 0.010	< 0.010 -	< 0.010	0.010	< 0.010	< 0.010
Toluene	< 0.010	< 0.010	< 0.010	0.010	< 0.010	< 0.010
Xylenes	< 0.010	< 0.010	< 0.010	0.010	< 0.010	< 0.010
610 POLYNUCLEAR AROMATICS				- Andrewson American	•	•
Naphthalene	< 0.04	< 0.04	< 0.04	0.04	< 0.04	< 0.04
Acenaphthylene	< 0.06	< 0.06	< 0.06	0.06	< 0.06	< 0.06
Acenaphthene	< 0.04	< 0.04	< 0.04	0.04	< 0.04	< 0.04
Fluorene	< 0.02	< 0.02	_< 0.02	0.02	< 0.02	< 0.02
Phenanthrene	< 0.02	< 0.02	< 0.02	k 0.02	< 0.02	< 0.02
Anthracene	< 0.02	< 0.02	< 0.02	k 0.02	< 0.02	< 0.02
Fluoranthene	< 0.0%	< 0.02	< 0.02	0.02	< 0.02	< 0.02
	· · · · · · · · · · · · · · · · · · ·					

Canton Analytical Laboratory, Inc. (313) 483-7430 FAX (313) 545-1541

ENKON	ENVI	RONMENTAL	SERVICES
r	Δ1	REPORT#	9935

SAMPL	ES.	RECET	VED.	107	18/90

PAGE 2

LAR# UNITS	9221405 mg/kg	9221406 mg/kg	9221407 mg/kg	9221408 mg/kg	9221409 mg/kg	9221410 mg/kg
Pyrene	(O.O.	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(a)anthracene	< 0.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chrysene	< 0.0₺	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(b)fluoranthene	< 0.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(k)fluoranthene	< 0.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(a)pyrene	< 0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenzó(a,h)anthracene	< 0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(ghi)perylene	< 0.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Indeno(1,2,3-cd)pyrene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Canton Analytical Laboratory, Inc. (313) 483-7430 FAX (313) 545-1541

ENKON ENVIRONMENTAL SERVICES CAL REPORT# 9935

SAMPLES RECEIVED 10/18/90

PAGE 3

LAB# 9221411	FIRST CH	HURCH OF CHRISTIAN	SCIENCE WASTE SOIL	L COMPOSITE	
	=======				

LAE#	9221411	
WASTE CHARACTERIZATION, DNR2		
Ignitibility, Deg. F	> 200*N	
Corrosivity, pH Units	8.3	
REACTIVITY		
As Cyanide, mg/kg	< 0.05	
as Sulfide, mg/kg	< 0.5	
Arsenic, EP Tox., mg/l	< 0.43	
Barium, EP Tox., mg/l	0.12	
Cadmium, EP Tox., mg/l	, 0.02	
Chromium, Tot., EP Tox, mg/l	< 0.02	
Copper, EP Tox., mg/l	< 0.02	
Lead, EP Tox., mg/l	< 0.09	•
Mercury, EP Tox., mg/1-	< 0.003	
Selenium, EP Tox., mg/l	< 0.020	
Silver, EP Tox., mg/l	< 0.03	
Zinc, EP Tox., mg/l	1.6	

"YES/NO, CAPACITY TO SUSTAIN BURNING AFTER BEING FLAMED.

Canton Analytical Laboratory, Inc. (313) 483-7430 FAX (313) 545-1541

		ENKON ENVIRONMENTA CAL REPORT#	L SERVICES 9935
SAMPLES RECEIVED 10/18/90			
LAB# UNITS			9221411 mg/kg
BETX		-	
Benzene			0.11
Ethylbenzene			5.4
Toluene			0.087
Xylenes			2.8
PCB'S BY AROCHLOR			
PCB-1016			< 5.0∗
PCB-1221		•	< 5.0∗
PDB-1232	•-		< 5.0*
PCB-1242	•	-	< 5.0*
PCB-1248			< 5.0*
PCB=1254	•		€ 5.0*
PCB-1260			< 5.0* ~

*Higher level of detection due to matrix interference.

< 5.0*

< 5.0*

PCB-1262

PCB, Total

PAGE 4

ENKON Environmental Services, Inc. First Church of Christ Science - Birmingham, Michigan

APPENDIX C - - -

EQUIPMENT DESCRIPTIONS

- I Organic Vapor Analyzer Instrument Description
- II Procedure for Testing Soil for the Presence of Organic Vapors

ENKON Environmental Services, Inc. First Church of Christ Science - Birmingham, Michigan

= ORGANIC VAPOR ANALYZER INSTRUMENT DESCRIPTION =

The Foxboro Instruments "Century" Model 128 organic vapor ANALYZER is a sensitive instrument designed to measure trace quantities of organic materials in air. It is essentially a flame ionization detector such as utilized in laboratory gas chromatographs and has similar analytical capacities. The flame ionization detector is an almost universal detector for organic compounds with the sensitivity to measure in the parts per million range (V/V) in the presence of such interfering gases such as atmospheric moisture, nitrogen dioxides, carbon monoxide, and carbon dioxide.

In general, the hydrogen flame ionization detector is more sensitive for hydrocarbons than any other class of organic compounds. The response of the detector varies from compound to compound, but gives repeatable results with all types of hydrocarbons; i.e., saturated hydrocarbons (alkanes), unsaturated hydrocarbons, (alkanes and alkynes) and aromatic hydrocarbons.

The instrument consists of a portable, self contained eight inch by twelve inch by sixteen inch case containing the electronics, the sampling air pump, valves, plumbing, hydrogen gas storage cylinder, and flame oxidation chamber. The case has a hand held probe attached to it by an eighteen inch long cable. The hand held probe contains both the sample up-take tube and the analog concentration display meter.

Volatile organic carbon vapors in air are detected when the hand held probe draws them into the instrument using a stream of air. The sampled air is passed through a chamber containing a hydrogen flame. Any combustible organic carbon vapors present in the air stream are burned by the hydrogen flame. The combustion products of most carbon containing vapors (carbon dioxide, carbon monoxide and the FREON family of gases excluded) produce charged ions. The instrument is configured to collect these charged products on a special collector plate located in the combustion chamber. The accumulation of the charged particles on this plate increases the amount of electric current passing through the plate charging circuit, creating an electrical signal which is then

ENKON Environmental Services, Inc. (First Church of Christ Science - Birmingham, Michigan

converted to a meter reading for display on the instrument's dial meter.

The electronics are configured to ensure that there is a direct correlation between the amount of collected ions and the displayed concentration values. This allows the operator to calibrate the meter to provide specific concentration readings for a particular gas. Most of the time methane gas in air (CH_4) is used to perform the calibration. Although other gases can be used.

Prior to operation, the instrument is calibrated as follows. First the indicating dial meter is "zeroed" out by drawing clean air (air passed through an activated charcoal cartridge) through the probe and adjusting the "zero" control. Next a commercially prepared gas mixture (usually 100 ppm methane [CH4] in air) is introduced into the instrument and the "gain" control adjusted until the reading on the dial meter corresponds to the concentration of the gas mixture. Next the linearity is set by switching to the next higher "readout-scale" setting and adjusting the set screw located in the face of the analog display to correspond to the correct reading. This allows the detector to accurately respond to the concentration of volatile organic carbon vapors across three magnitudes of concentration; 1 to 10 ppm, 10 to 100 ppm, and 100 to 1000 ppm.

PROCEDURE FOR TESTING SOIL FOR THE PRESENCE OF ORGANIC VAPORS

The analysis for the presence of organic vapors entrained in a soil or water sample is accomplished by filling a clean pint jar about three quarters full with the material in question. The jar opening is covered with a layer of aluminum foil and the lid loosely replaced on the jar. The sample is then allowed to warm-up for a short period of time (usually a couple of minutes) to allow the material to outgas any entrained vapors. The operator then removes the lid and inserts the tip of the hand held probe through the layer of aluminum foil into the upper portion of the jar and obtains a reading. This process is usually referred to as "Head Space Analysis".

48085 Att

D & H RICHMAN, INC. 1095 Union Lake Road -- Union Lake, MI 48085 Tall-phone #(313)363-3110 Fax No. #(313)363-2308

Fax Transmission

To: Oladipo Cyinsan - Detroit District Supv. for DNR

DATE: October 19, 1990
FAX NO.: 313/953-0243
FROM: Karen Provenzano
SUBJECT: Notice for removal of contaminated soils
REPLY REQUESTED: () YES (x) NO
COMMENTS:
PLEASE ACCEPT THIS AS OUR 48 HOUR NOTICE THAT REMOVAL OF
CONTAMINATED SOILS WILL OCCUR ON OR AFTER TUESDAY, OCTOBER 23, 1990
A. THE FOLLOWING JOBSITES:
MILLER IPMENT - AT 32910 PLYMOUTH ROAD IN LIVONIA
JEANS H. WARP - AT 29950 TWELVE MILE IN FARMINGTON HILLS
METRO REON AT 23544 HOOVER ROAD IN WARREN
US FIRST CHURCH OF CHRIST - AT 191 N. CHESTER IN BIRMINGHAM

NOTE: If any part of this transmission was missing or unreadable please note it on your copy of this cover sheet and fax it back to us for retransmission.

ST. COURTY (CAPEC) - AT 21 AIRPORT DRIVE IN PORT HOLLA

Appendix 6 Aerial Photographs

191 N. Chester 191 N. Chester Birmingham, MI 48009

Inquiry Number: 4225651.9

March 05, 2015

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography March 05, 2015

Target Property:

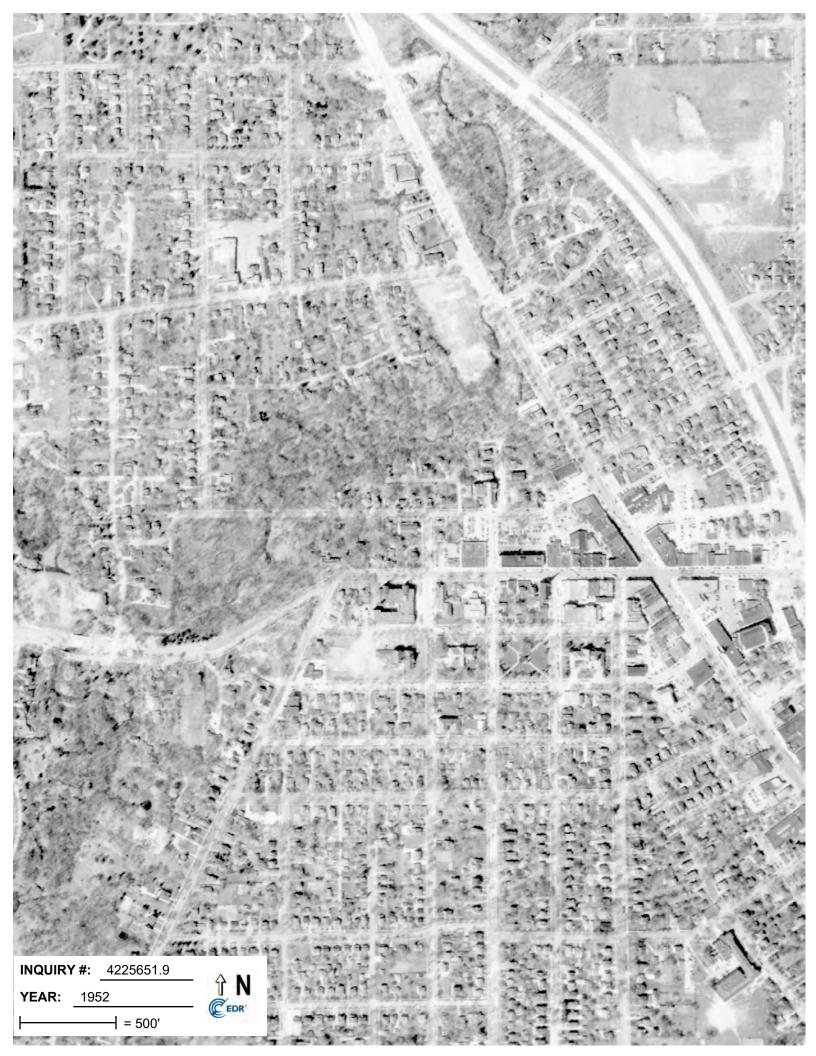
191 N. Chester

Birmingham, MI 48009

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937	EDR
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	USGS
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	USGS
1956	Aerial Photograph. Scale: 1"=500'	Flight Year: 1956	USGS
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	USGS
1972	Aerial Photograph. Scale: 1"=500'	Flight Year: 1972	USGS
1976	Aerial Photograph. Scale: 1"=500'	Flight Year: 1976	USGS
1983	Aerial Photograph. Scale: 1"=500'	Flight Year: 1983	USGS
1987	Aerial Photograph. Scale: 1"=500'	Flight Year: 1987	USGS
1997	Aerial Photograph. Scale: 1"=500'	Flight Year: 1997	USGS
1999	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1999	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

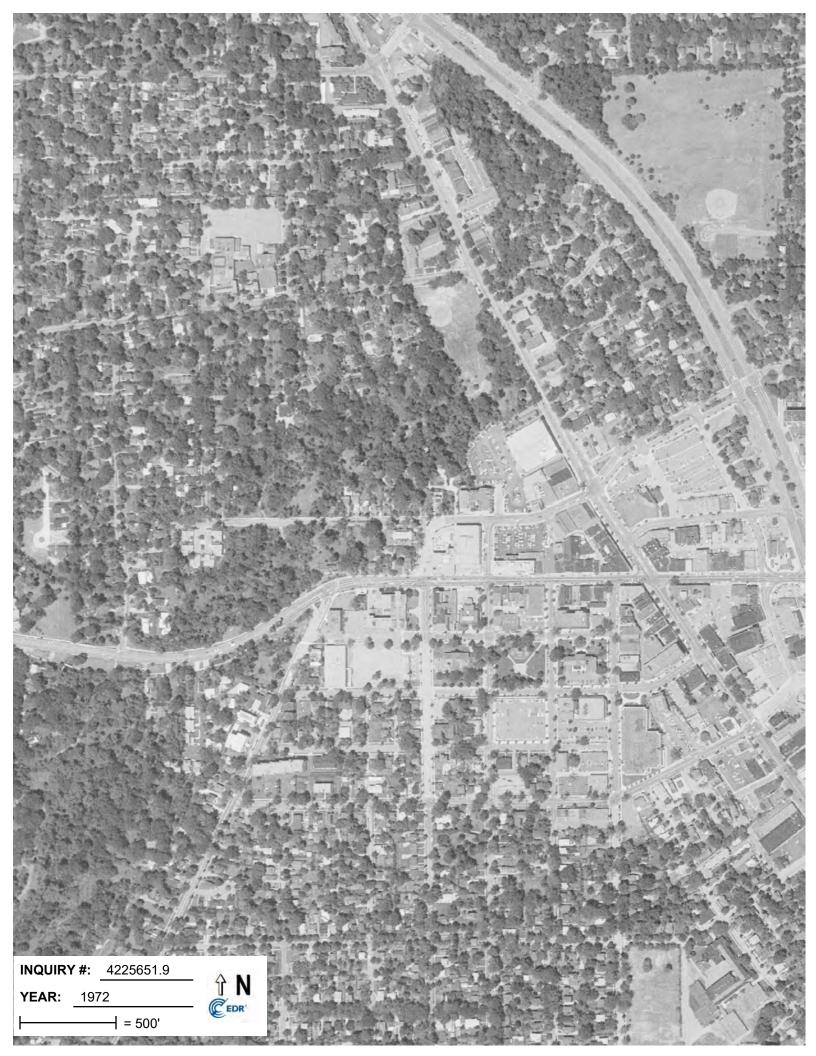


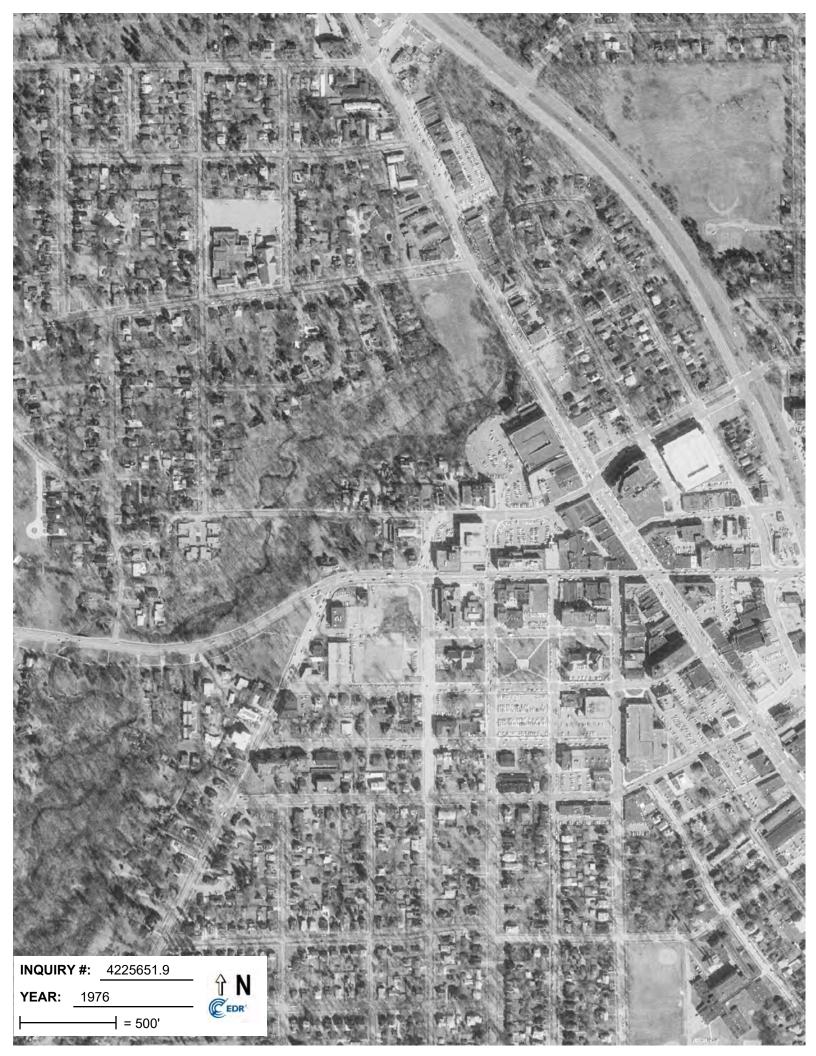




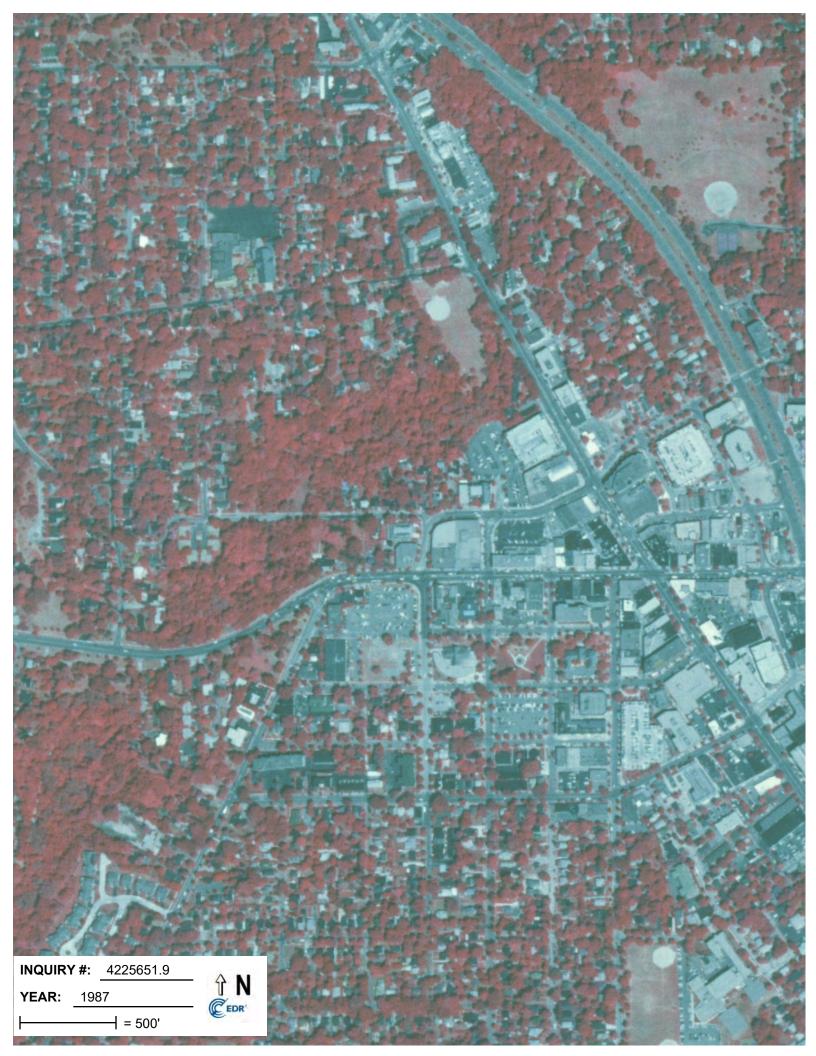


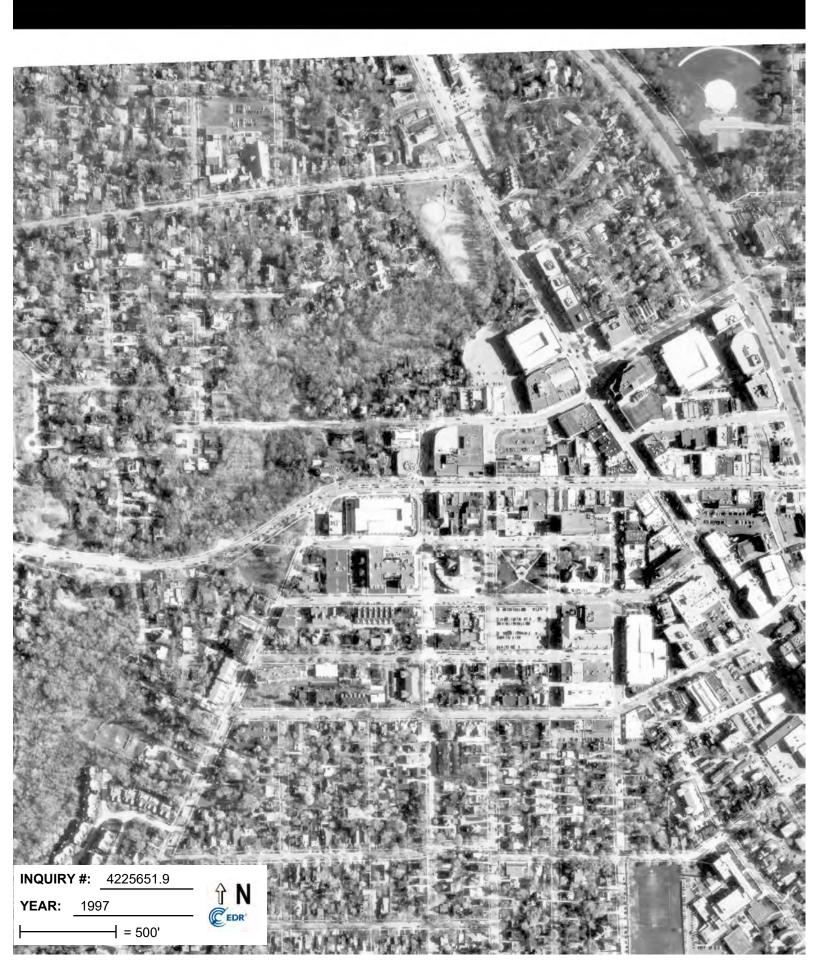








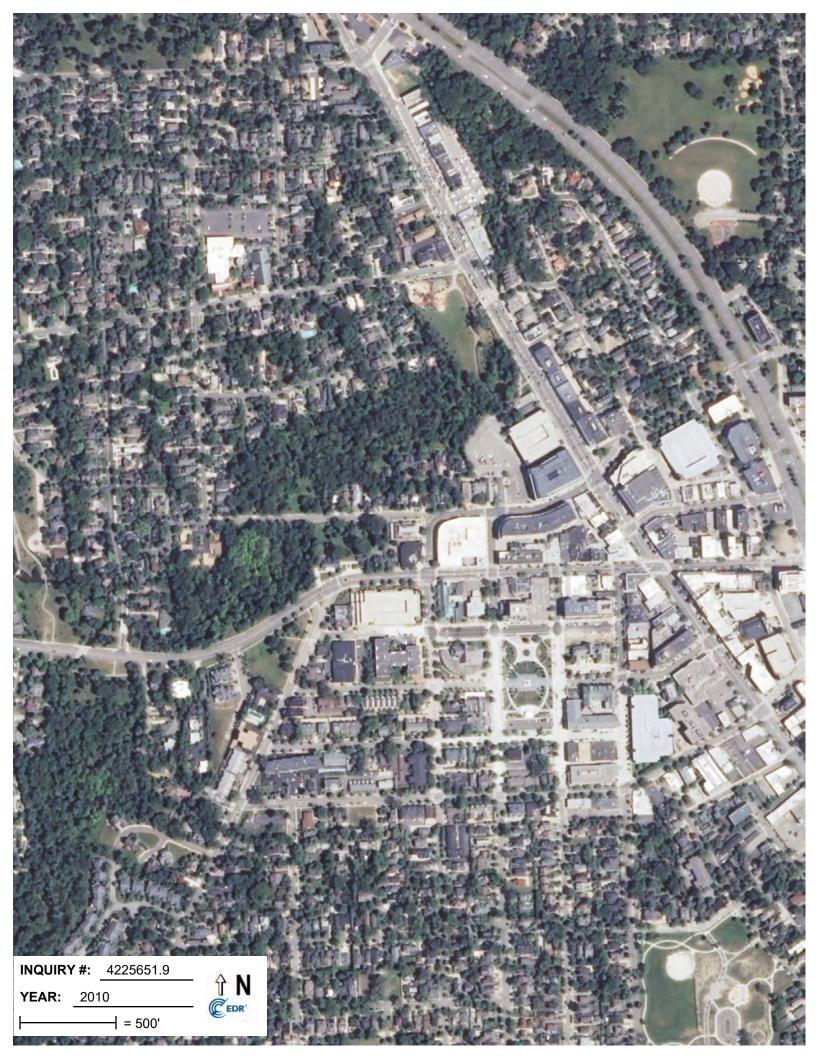














Appendix 7 Topographic Maps

191 N. Chester 191 N. Chester Birmingham, MI 48009

Inquiry Number: 4225651.4

March 05, 2015

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

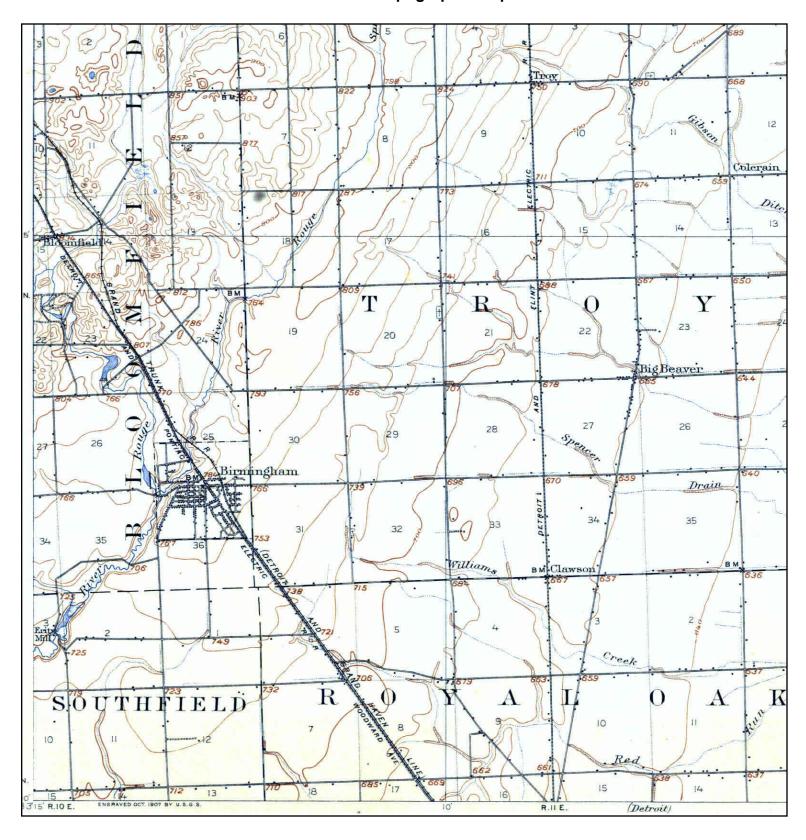
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Historical Topographic Map





TARGET QUAD

NAME: ROCHESTER

MAP YEAR: 1908

SERIES: 15 SCALE: 1:62500 SITE NAME: 191 N. Chester

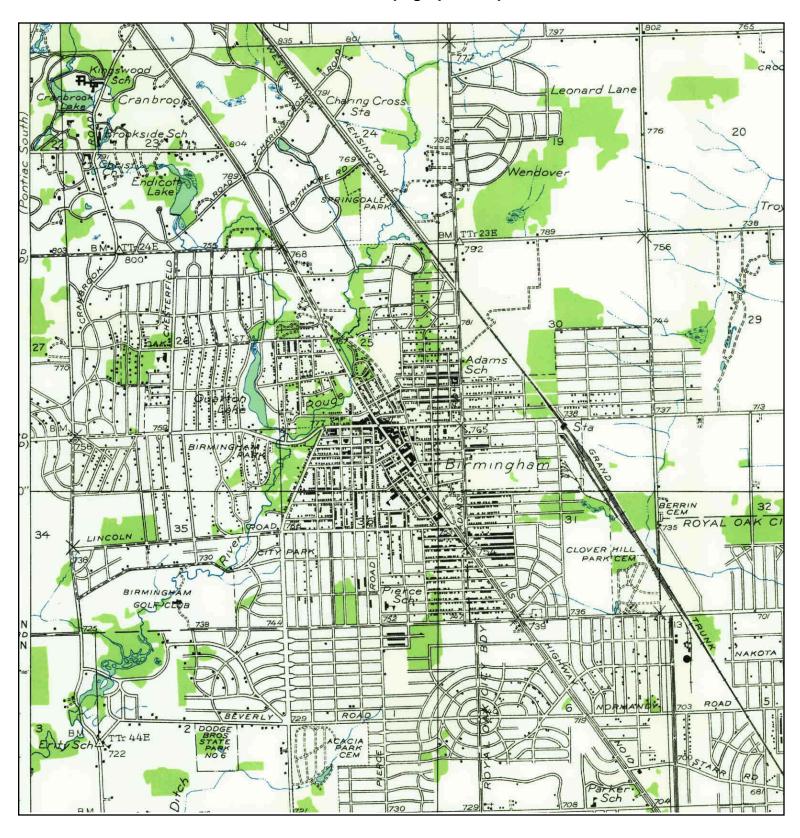
ADDRESS: 191 N. Chester

Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental

CONTACT: Julie Pratt
INQUIRY#: 4225651.4
RESEARCH DATE: 03/05/2015





TARGET QUAD

NAME: BIRMINGHAM

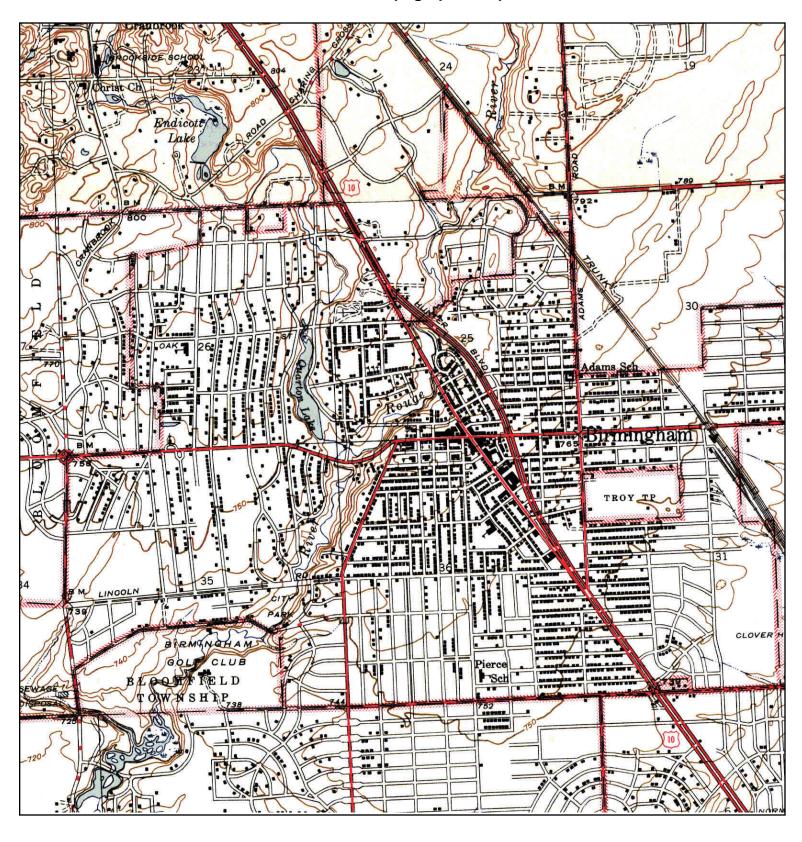
MAP YEAR: 1936

SERIES: 7.5 SCALE: 1:31680 SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental





TARGET QUAD

NAME: BIRMINGHAM

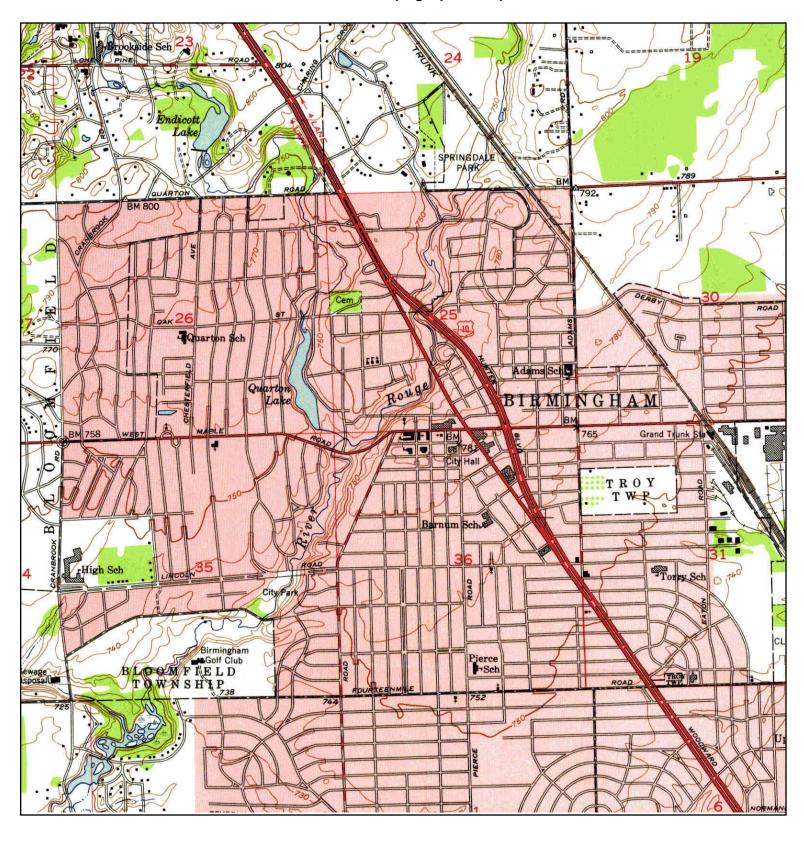
MAP YEAR: 1945

SERIES: 7.5 SCALE: 1:24000 SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

DDRESS: 191 N. Chester
Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental





TARGET QUAD

NAME: BIRMINGHAM

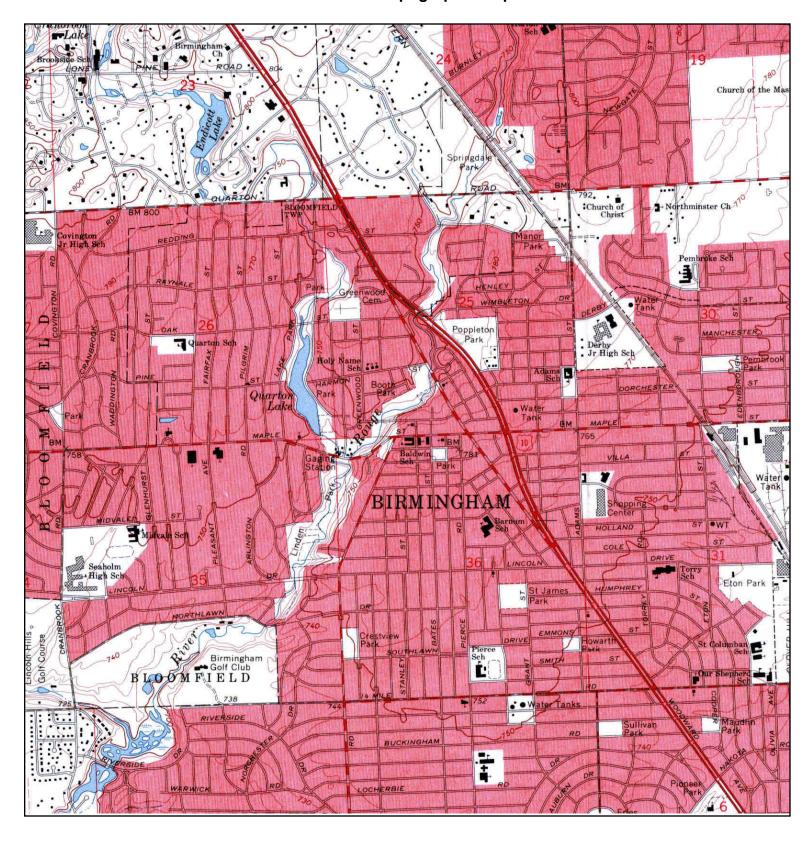
MAP YEAR: 1952

SERIES: 7.5 SCALE: 1:24000 SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental





TARGET QUAD

NAME: BIRMINGHAM

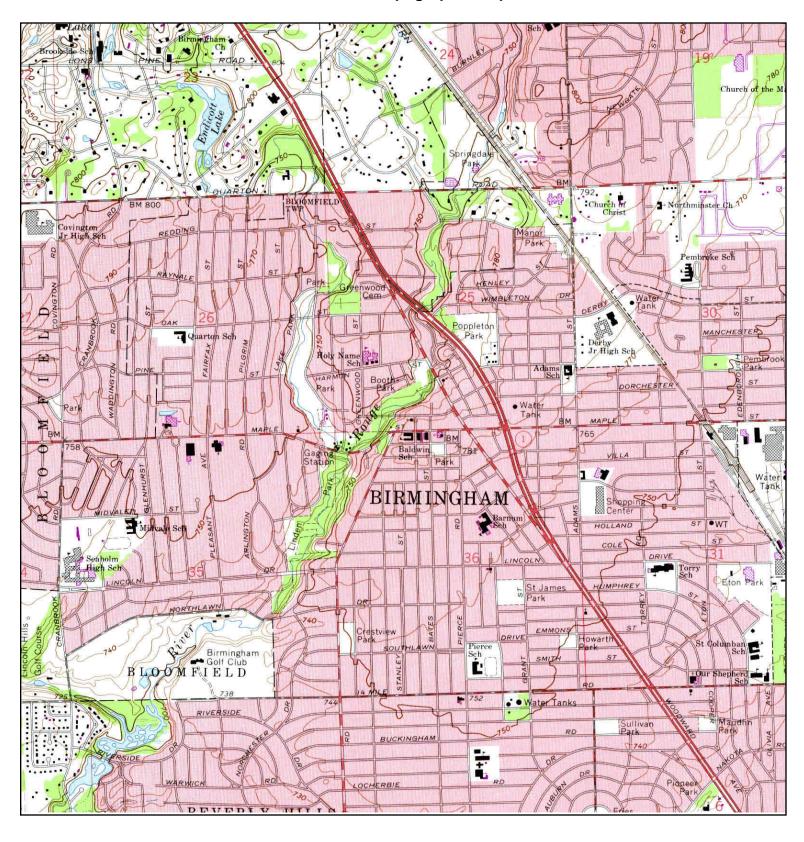
MAP YEAR: 1968

SERIES: 7.5 SCALE: 1:24000 SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental





TARGET QUAD

NAME: BIRMINGHAM

MAP YEAR: 1973

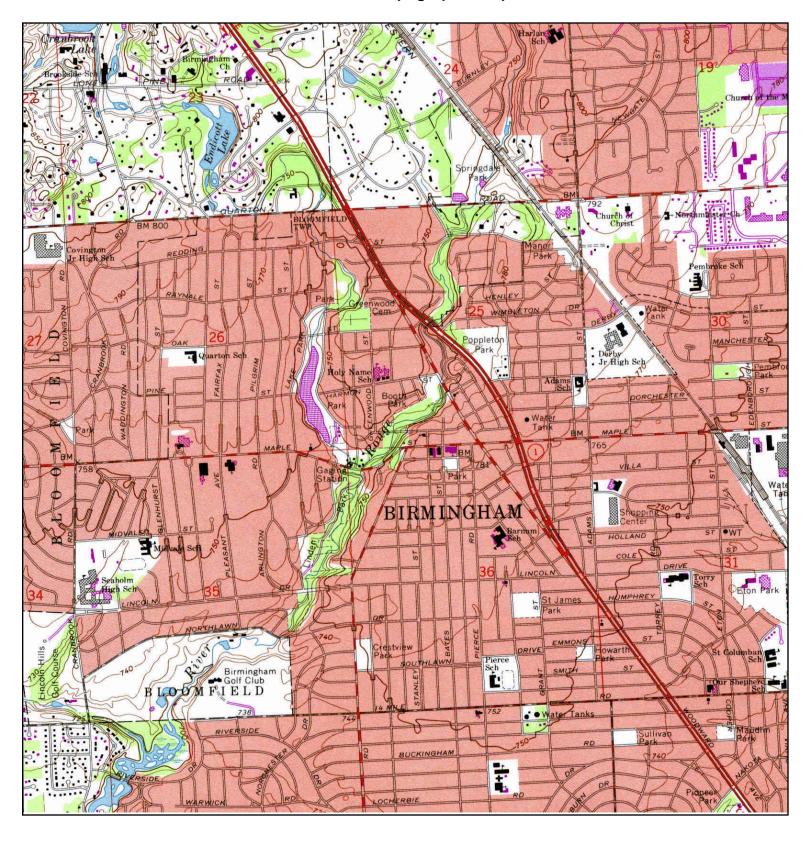
PHOTOREVISED FROM: 1968

SERIES: 7.5 SCALE: 1:24000 SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental





TARGET QUAD

NAME: BIRMINGHAM

MAP YEAR: 1981

PHOTOREVISED FROM: 1968

SERIES: 7.5 SCALE: 1:24000 SITE NAME: 191 N. Chester ADDRESS: 191 N. Chester

Birmingham, MI 48009

LAT/LONG: 42.5472 / -83.2187

CLIENT: Performance Environmental

Appendix 8 Sanborn Maps

191 N. Chester 191 N. Chester Birmingham, MI 48009

Inquiry Number: 4225651.3

March 05, 2015

Certified Sanborn® Map Report



Certified Sanborn® Map Report

3/05/15

Site Name: Client Name:

191 N. Chester Performance Environmental191 N. Chester 30553 Wixom Road

Birmingham, MI 48009 Wixom, MI 48393

EDR Inquiry # 4225651.3 Contact: Julie Pratt



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Performance Environmental were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: 191 N. Chester Address: 191 N. Chester

City, State, Zip: Birmingham, MI 48009

Cross Street:

P.O. # NA Project: 151226

Certification # 9057-411B-BC55

Maps Provided:

1960 1910

1949

1931

1926

1921 1915



Sanborn® Library search results Certification # 9057-411B-BC55

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1960 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 9

1949 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 9

1931 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 9

1926 Source Sheets







Volume 1, Sheet 2

Volume 1, Sheet 4

Volume 1, Sheet 6

1921 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 3

1915 Source Sheets

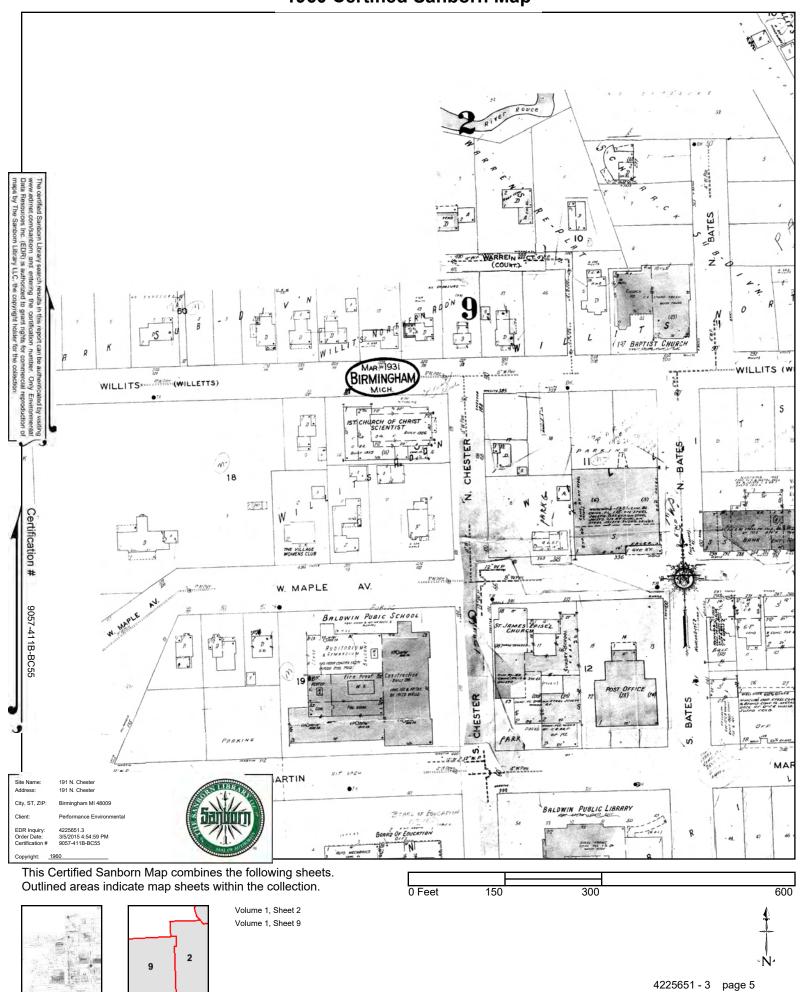


Volume 1, Sheet 2

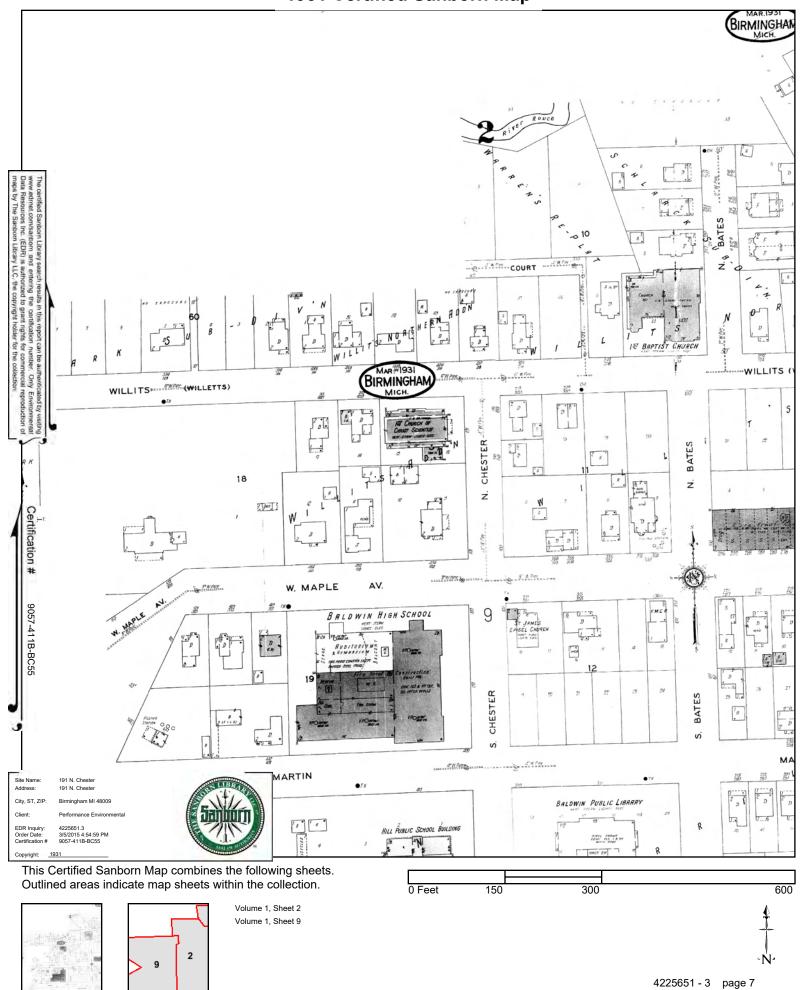
1910 Source Sheets

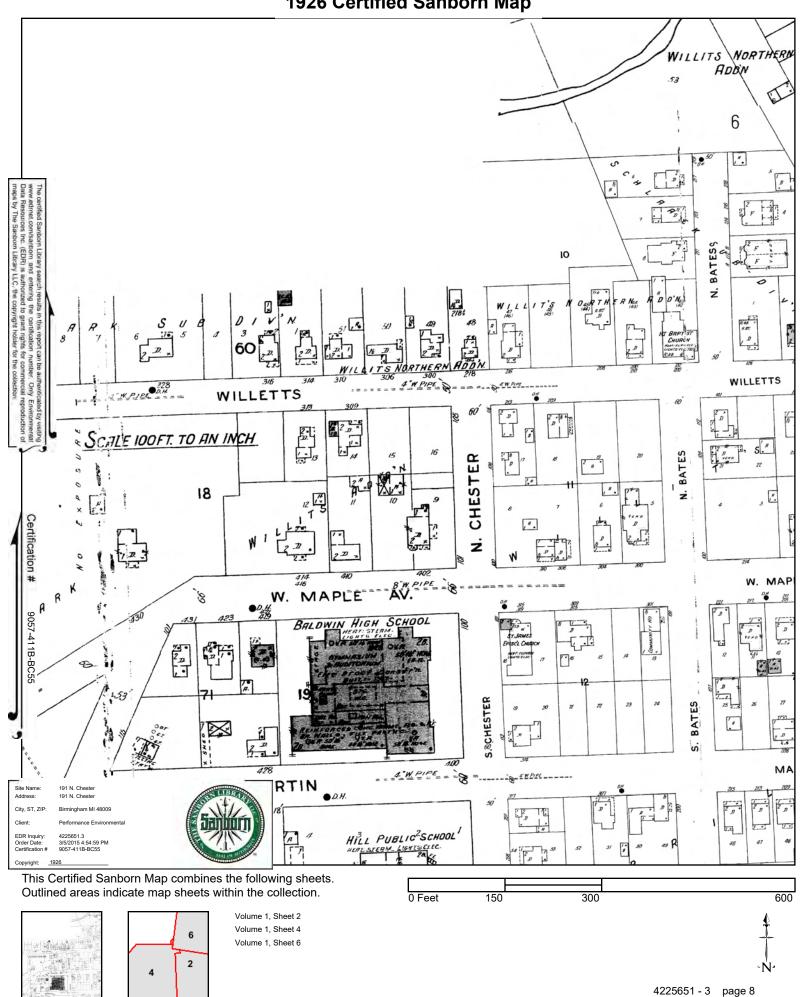


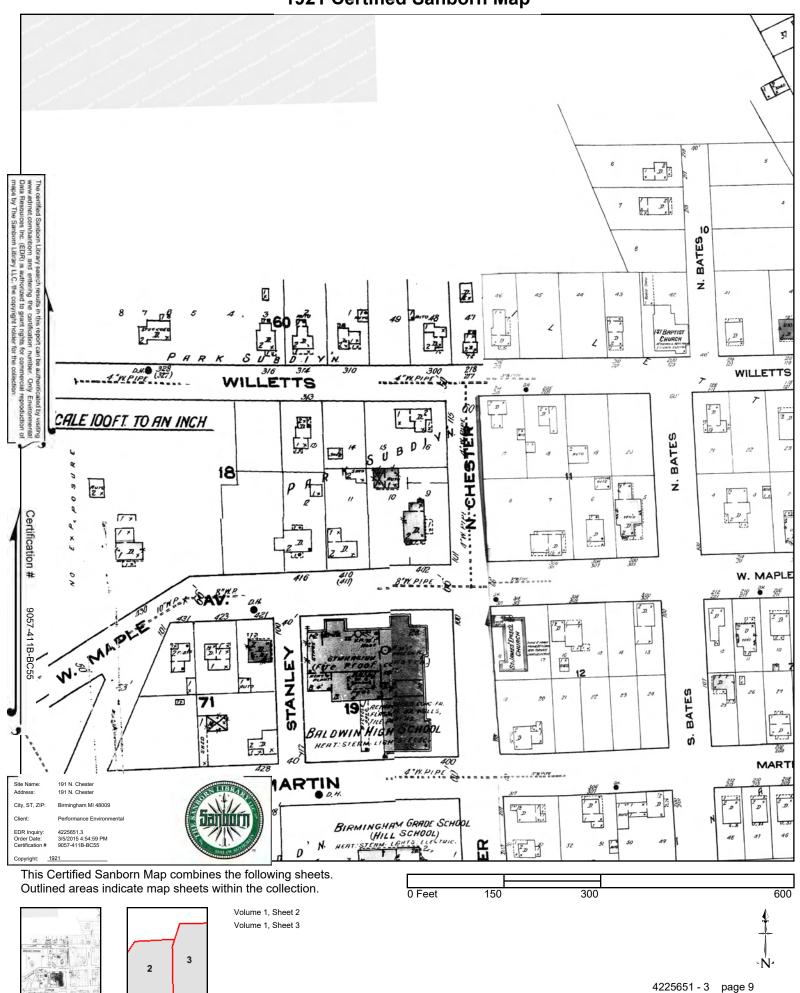
Volume 1, Sheet 1

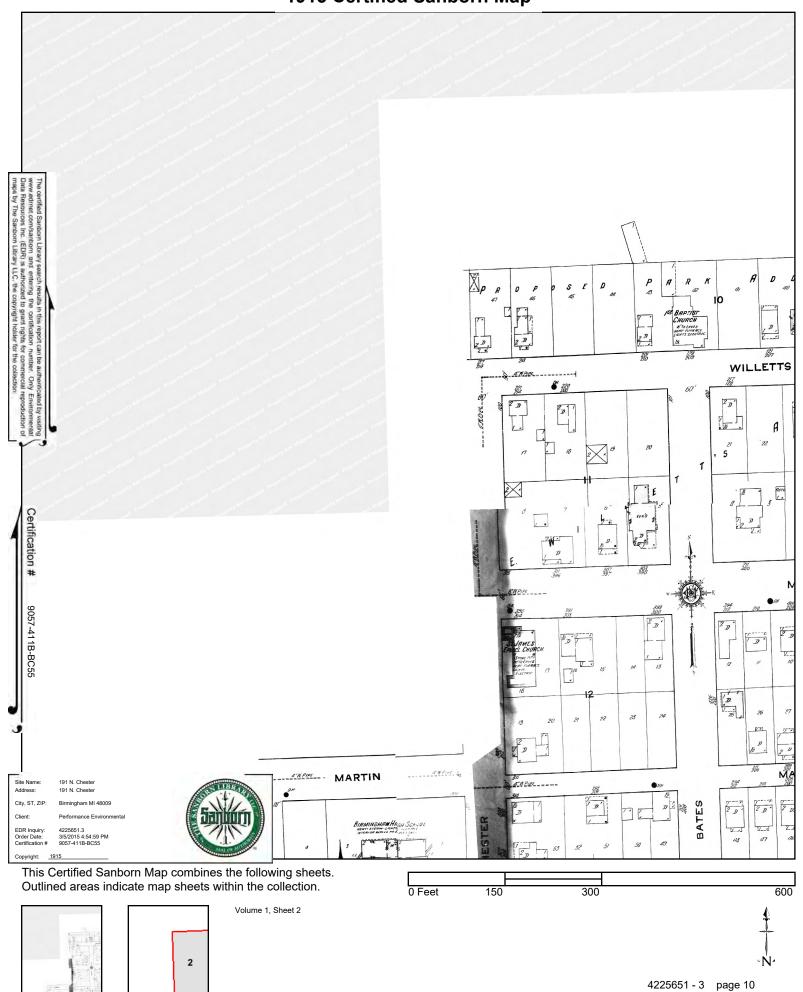


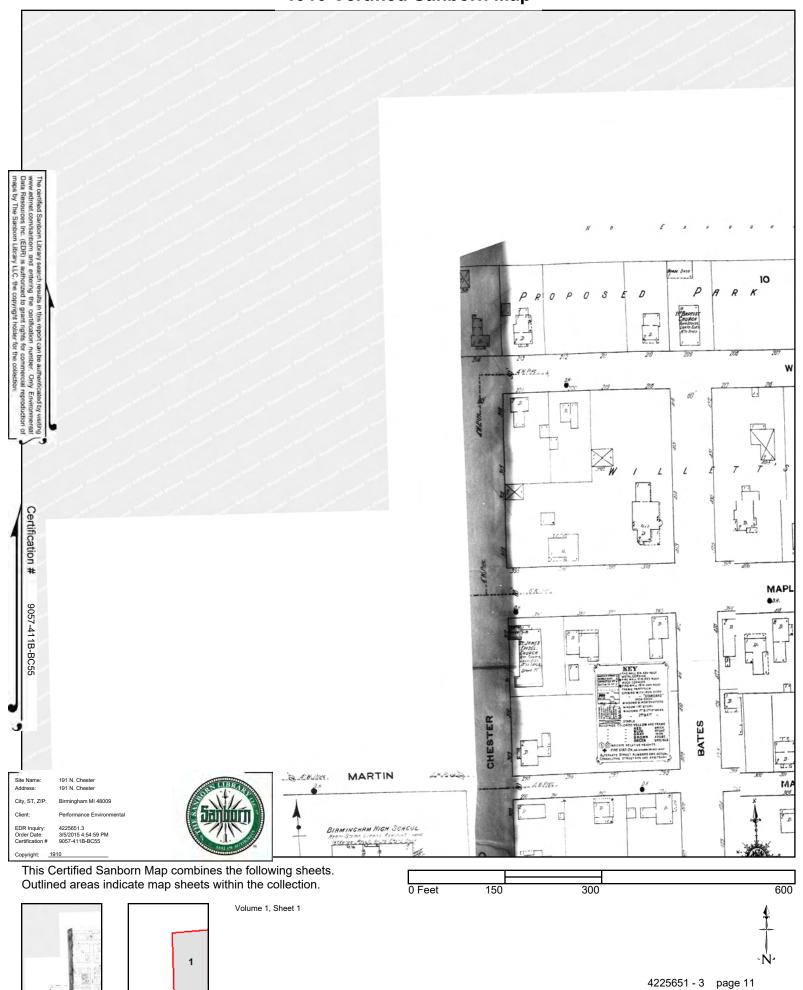












Appendix 9 City Directory Abstract

191 N. Chester 191 N. Chester Birmingham, MI 48009

Inquiry Number: 4225651.5

March 13, 2015

The EDR-City Directory Image Report



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2013		$\overline{\checkmark}$	Cole Information Services
2008		$\overline{\checkmark}$	Cole Information Services
2003		$\overline{\checkmark}$	Cole Information Services
1999		$\overline{\checkmark}$	Cole Information Services
1995		$\overline{\checkmark}$	Cole Information Services
1992		$\overline{\checkmark}$	Cole Information Services
1987		$\overline{\checkmark}$	Bresser's Cross-Index Directory Company
1982	abla	$\overline{\checkmark}$	Bresser's Cross-Index Directory Company
1977	abla	$\overline{\checkmark}$	Bresser's Cross-Index Directory Company
1973	$\overline{\square}$	$\overline{\checkmark}$	Bresser's Cross-Index Directory Company

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

191 N. Chester Birmingham, MI 48009

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
N CHESTE	ER ST	
2013	pg A1	Cole Information Services
2008	pg A3	Cole Information Services
2003	pg A5	Cole Information Services
1999	pg A8	Cole Information Services
1995	pg A12	Cole Information Services
1992	pg A16	Cole Information Services
1987	pg A20	Bresser's Cross-Index Directory Company
1982	pg A22	Bresser's Cross-Index Directory Company
1977	pg A24	Bresser's Cross-Index Directory Company
1973	pg A26	Bresser's Cross-Index Directory Company

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FINDINGS

CROSS STREETS

<u>Year</u>	CD Image	<u>Source</u>
<u>W MAPLE</u>	<u>RD</u>	
2013	pg. A2	Cole Information Services
2008	pg. A4	Cole Information Services
2003	pg. A6	Cole Information Services
1999	pg. A10	Cole Information Services
1995	pg. A13	Cole Information Services
1992	pg. A17	Cole Information Services
1987	pg. A21	Bresser's Cross-Index Directory Company
1982	pg. A23	Bresser's Cross-Index Directory Company
1977	pg. A25	Bresser's Cross-Index Directory Company
1973	pg. A27	Bresser's Cross-Index Directory Company

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Target Street	Cross Street	<u>Source</u>
✓	-	Cole Information Services

N CHESTER ST 2013

191	FIRST CHURCH OF CHRIST SCIENTIST BIR

W MAPLE RD 2013

245	OPTIK BIRMINGHAM
250	ADVENTURES IN TOYS
254	QUATRINE MI
268	J MCLAUGHLIN BIRMINGHAM
270	BEYOND JUICE BIRMINGHAM
271	TENDER INC
280	D DEVELOPMENT CORPORATION
	ESSHAKI ENTERPRISES
	MCDONNELL CONLEY
	MCKELVIE DELUCA PC
	MORRIS STEVEN M MD
	SCHIFF BARBARA A
	STREET
	WORLDWIDE MERCHANT SERVICES
282	GNC
	OLD WORLD OLIVE PRESS
284	BACKCOUNTRY NORTH
	SMITH & HAWKEN STORE 835
286	BEAUTY BY RX
299	ELM DESIGN USA LLC
	LINDA DRESSNER NEWYORK
355	ST JAMES EPISCOPAL CHURCH
360	MCCANN ERICKSON
400	400 WEST MAPLE LIMITED
	BERLIN FAMILY LAW GROUP
	BRISTOL CAPITAL GROUP
	CAIN DAVID G
	CARLSON GASKEY & OLDS PC
	COMMUNICATIONS D I A
	HUNTER HOUSE MUSEUM
	INTEGRA REALTY RES
	JAMAL HAMOOD & ASSOCIATES PC
	KNIGHT FIRTH & EDWARDS
	MEDASSIST
	PATRICK PARTNERS LLC
	REISMAN CHARLES P
	RUNCO WILLIAM ATTORNEY
	SPERRY VAN NESS
460	ERIC JIRGENS
484	LINDA BLOCH
556	CITY OF BIRMINGHAM
745	MICHAEL LEWISTON
763	DALE ROBERTS
775	ELLIOTT RUBY

Target Street	Cross Street	<u>Source</u>
✓	=	Cole Information Service

N CHESTER ST 2008

191	THE FIRST CHURCH OF CHRIST SCIENTIST

W MAPLE RD 2008

245	OPTIK BIRMINGHAM
254	QUATRINE FURNITURE INC
268	NICOLE MILLER INC
270	BEYOND JUICE BIRMINGHAM
271	TENDER INC
280	BARBARA A SCHIFF PHD
	BERLONI AMERICA CHICAGO LLC EHRLICH FOLEY & SERWER PC INC
	EPSTEIN STONEMAN & SCHMIER METROWEST
	MCKELVIE DELUCA PC
	STONEMAN & SCHMIER INVESTMENTS PLYMO
	WIRELESS OHIO
299	LINDA DRESNER
330	MEYERS STEIN
330	WHIMSICAL OCCASIONS
355	SAINT JAMES EPISCOPAL CHURCH
000	TEAM
360	FARMER JACK
	MC CANN ERICKSON DETROIT
400	400 WEST MAPLE LIMITED
	BATOR & BERLIN PC
	BRISTOL CAPITAL GROUP
	CARLSON GASKEY & OLDS PC
	CONCEPT WATERHOUSE LLC
	EL CAMINO RESOURCES LTD
	INTEGRATE DEAN APPRAISAL
	JAMAL HAMMOD & ASSOCIATES PC
	PAUL TISDALE
	REISMAN CHARLES P
	SHANNON DEVELOPMENT LLC
	SPERRY VANNESS PROPERTY INVEST
	UPTOWN MORTGAGE INC
460	OCCUPANT UNKNOWN
484	LINDA BLOCH
556	BIRMINGHAM HISTORICAL MUSEUM & PARK
	CITY OF BIRMINGHAM
745	MICHAEL LEWISTON
763	DALE ROBERTS
775	ELLIOTT RUBY
	FRANK STANCZAK

Target Street	Cross Street	<u>Source</u>
✓	-	Cole Information Services

N CHESTER ST 2003

191 FIRST CHURCH OF CHRIST SCNTST	

W MAPLE RD 2003

245	BLOOMFIELD OPTICAL OCCUPANT UNKNOWN
	RAVEN OPTICS INC
247	S & S SHOE CORP SELL TOM
254	MERCHANT OF VINO CELLAR CLCTN
	OCCUPANT UNKNOWN QUATRINE WASHABLE FURNITURE
270	FIBRES
271	TENDER INC
280	EHRLICH RUPP SERWE PESLAR KAREN & DREW FOUNDATION
	RELATED RETAIL CORP
	SHELDON KALISHER
282	OCCUPANT UNKNOWN
284 286	SMITH & HAWKEN OCCUPANT UNKNOWN
200	WILLITS CONSTRUCTION
299	LINDA DRESNER INC
	OCCUPANT UNKNOWN
336	OCCUPANT UNKNOWN
355	OCCUPANT UNKNOWN ST JAMES EPISCOPAL CHURCH
	ST JAMES EPISCOPAL CHURCH ST JAMES PRE SCHOOL
365	ROXIE SALON
400	400 WEST MAPLE LIMITED
	ALAN G EDWARDS AUTOCOM COMMUNICATIONS INC
	BATOR & BERLIN PC
	BATOR & ZARTARIAN PC
	CARLSON GASKEY & OLDS PC
	DEAN APPRAISAL CO
	DOUGLAS A FIRTH FOUR HUNDRED WEST MAPLE LTD
	FRENCH INSTITUTE OF MICHIGAN
	HOME EQUITY ASSOCS INC
	HOSPI HELP INC
	INTEGRA DEAN APPRAISAL
	KNIGHT & FIRTH PC LAW OFFICE OF DAVID CAIN
	ODONNELL J TERENCE ATTY
	PIONEER DEVELOPMENT CO
	REISMAN CHARLES P ATTY
	ROBERT B BAYER
	STONE CO SYLVIA DELIN ATTY AT LAW
	TISDALE PAUL A ATTY
460	SHIRLEY HERSEY
484	OCCUPANT UNKNOWN
500	HUNTER HOUSE MUSEUM

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>
- Cole Information Services

W MAPLE RD 2003 (Cont'd)

		W MAPLE RD	2003	(Cont'd)	
556 679 695 697 745 763 775 1010	SUSANNAH WORTH ROBERT TURECAMO OCCUPANT UNKNOW OCCUPANT UNKNOW MICHAEL LEWISTON DALE ROBERTS ELLIOTT RUBY DONALD MANVEL	O WN WN			

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information Services

N CHESTER ST 1999

	N	I CHESTER ST	1999	
191	FIRST CHURCH OF C	CHRIST SCIENTIST		
200	A DIMARIA			
	A TEACHE			
	A WALTON			
	ALFRED HENSON			
	ALFRED LINDENBAU	M		
	ALTA CAMERON			
	ANDREA GAVEY			
	ARMAND GANDOLFI			
	B BALLNIK			
	B FLANNERY			
	B RICHARDS B WEISE			
	BALDWIN HOUSE			
	BENNETT WRIGHT			
	BETTY LINDEN			
	C BEGGS			
	C BULLIS			
	C LOUSSIA			
	CHARLES CAMPBELL	_		
	CHRIS PEFLEY			
	CLYDE RIEHL			
	D STADWICK			
	DAVID PIGGOTT			
	DENNIS DEMASEK			
	E BURCH			
	E CATALINE			
	E LAIB			
	E MORRIS			
	E ROGERS EDWARD HOBAN			
	FRANCES KONTOS			
	G DAVIS			
	G SHENK			
	GEORGE KOHLHOF			
	GISELA MORRIS			
	H DOSHOIAN			
	H WALTERS			
	HELEN OCONNOR			
	IMCLEOD			
	J HAILEY			
	JOHN CLEMONS			
	JUDSON DECKER			
	K GOLDSWORTHY			
	K KOCH			
	L SMITH LAURA FISHER			
	LEO JESZKE			
	LESLIE CRABB			
	LISBETH RUSSELL			

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information Services

N CHESTER ST 1999 (Cont'd)

200 LOREEN KLAGSTAD

LOUISE DEVOR

LUCILLE MCCORMICK

M GRUNDY

M JONES

M REILLY

MELVIN NIEMAN

NANCY RANKE

NAT CANVASSER

P BARNHART

P WEINNER

PAUL BOULUS

PAUL DUROCHER

PAUL KUEBLER

PHYLLIS FORESMAN

R GARVIN

R KELLY

R SKOCZEK

ROBERT SHAUGHNESSY

ROSE VOLPIANSKI

RUBY CURRIN

S SUTKIN

SAMUEL MANCUSO

SUE ARBOLEDA

SYLVIA CICHY

T CASEY

TAMATHA WILSON

V SWEENEY

VAN CROMAR

WALTER BRENT

WILLIAM GUISINGER

WILMA WOLF

W MAPLE RD 1999

245	BLOOMFIELD OPTICAL
	HERNESKO RONALD OD
247	HANSEL N GRETEL SHOES & DANCEWEAR
	SELL TOM
254	MERCHANT OF VINO WHOLE FOODS MARKET
234	MRCHNT OF VINO MRKTPLC MRCHNT OF VINO CELLAR COLL
074	
271	ANNIE ADGATE
	LEONARD DUCKMAN
	RICHARD HOPCROFT
	TENDER INCORPORATED
	TODDS ROOM
280	EHRLICH JOSEPH H ATTORNEY
	FISH MICHAEL A ATTORNEY
	FOLEY FRED A ATTORNEY
	GREGORY GEORGE W ATTORNEY
	LEE HENRY P PC ATTORNEY
	MAPLE BATES ASSOCIATES
	RUPP EHRLICH FOLEY SERWER & FISH
	SERWER WILLIAM D ATTORNEY
	STERNBERG JEFFREY S ATTORNEY
000	STONEMAN MARTIN ATTORNEY
282	GNC
284	GULIANS
286	KIDDLYWINKS
299	DRESNER LINDA INCORPORATED CLTHR
300	OCCUPANT UNKNOWN
320	DENISE VARNER
336	JACOBSONS
355	ROGER TILDEN
	ST JAMES EPISCOPAL CHURCH
400	400 WEST MAPLE LIMITED
	BATOR ROUALET & BERLIN PC ATTORNEYS
	BAYER ROBERT B
	BERLIN WILLIAM E ATTORNEY
	CAIN DAVID G ATTORNEY
	CAMERON ROWE PLC ATTORNEY
	CAVANAUGH COMPANY THE
	DELIN SYLVIA ATTORNEY AT LAW
	FEMRITE MARCIA E ATTORNEY
	HEALTH SOLUTIONS HARRIS HEALTHTRENDS
	HECK ERMA L ATTORNEY
	HULBERT CATHERINE ATTORNEY
	JOHNSON SHEILA M ATTORNEY
	MEDI ASSIST
	MEGERIAN KATHLEEN A ATTORNEY
	ODONNELL J TERENCE ATTORNEY
	PARKER D ANN PC ATTORNEY
	PIONEER DEVELOPMENT COMPANY
	REISMAN CHARLES P ATTORNEY
	ROBINSON JEFFREY ASSOCIATES INCORPORATED
	NODINOUN JELLINEL AGOUGNIEG INCURFURATED

Target Street Cross Street Source
- Cole Information Services

W MAPLE RD 1999 (Cont'd)

400	ROUALET NANCY J ATTORNEY SCOTT MARTIN A ATTORNEY SCREENVISION CINEMA NETWORK SIEGEL BRUCE G ATTORNEY SILVERMAN ELIZABETH PC ATTORNEY STONE & COMPANY INCORPORATED TISDALE PAUL A ATTORNEY VERSAILLES GROUP LIMITED WARTEL DANIEL CPA WEBB WILLIAM W ATTORNEY ZARTARIAN MARK ATTORNEY
460	CARRIE HERSEY
484	LINDA BLOCH
500	HUNTER HOUSE MUSEUM
556	BIRMINGHAM CITY OF ALLEN HOUSE CUSTODIAN S WORTH
679	OCCUPANT UNKNOWN
681	Q SUTTON
695	OCCUPANT UNKNOWN
697	OCCUPANT UNKNOWN
745	MICHAEL LEWISTON
763	DALE ROBERTS
775	ELLIOTT RUBY
809	ECCENTRIC THE
	OBSERVER & ECCENTRIC NEWSPAPERS THE

Target Street	Cross Street	<u>Source</u>
✓	-	Cole Information Services

N CHESTER ST 1995

191	CHURCH OF CHRIST SCIENTIST

W MAPLE RD 1995

0.45	DI COMETE E OPTIONI OTE
245	BLOOMFIELD OPTICAL CTR
247	HANSEL N GRETEL BY GABE SHOES
254	MERCHANT OF VINO
268	TWIGS
270	
271	MILANO FUR & LEATHER INC
	SEBASTIONSS LEATHER
	SMITH, LINDLEY J
	TENDER INC
280	COMERICA MORTGAGE CORP
	ENTERTAINMENT DIRC
	FISH, MICHAEL A
	FRED A FOLEY
	GEORGE W GREGORY
	JEFFREY S STERNBERG
	LEE & GREGORY
	MICHAEL A FISH
	RUPP EHRLICH FOLEY SERWER
	U S PARCEL & MAIL INTL INC
	WILLIAM D SERWER
282	BENETTON
284	GULIANS
296	ID
	MARK KELLER W END
299	LINDA DRESNER INC
	OCCUPANT UNKNOWNN
320	BLACKTOP PAVING & MAINTENANCE
336	JACOBSON STORES INC
	JACOBSONS BEAUTY SALON
355	OPPORTUNITY SHOP
	ST ANNES GIFT SHOP
	ST JAMES EPISCOPAL CHURCH
	ST JAMES NURSERY SCHOOL
	ST JAMES UNDERCRFT
400	424 ASSOCIATES
	ADCOLE CORP
	ALAN S WORTMAN
	AMTEL SYSTEMS
	BATOR & ZARTARIAN
	BATOR, GREGORY
	BENDER&BORSENIK A
	BERLIN, WILLIAM
	BISDORF, KENNETH J
	BRYAN KNEZ
	C G HATHAWAY ATY
	CAIN, DAVID G
	CAMBELL&ASSOCIATES
	CAMBRIDGE TECHNOLOGY PARTNERS
	CHARLES P REISMAN
	CMPRHNSV SEARCH

W MAPLE RD 1995 (Cont'd)

400 CYNTHIA G HATHAWAY

D ANN PARKER

D H BORSENIK ATY

D L PHILLIPS ATY

DANIEL WARTEL CPA

DAVID A SEBASTIAN & ASSOC

DAVID G CAIN

DESON, SARAH G

E H LERCHEN JR ATY

E SILVERMAN ATY

EL CAMINO RESOURCES LTD

ELDERCARE HOME CARE GROUP INC

ENERGY RESOURCE MANAGEMENT INC

FLAGGMAN, L S

FLD ENTERPRISES INC

FLUITROL TECHNOLOGIES

FOUR TWO FOUR MAPLE ASSOC

G T YOUNG ATY

HALEY WALLACE REED

HALEY, WALLACE R

HARTY, PAUL

HECK & WEBB

HENRY L GOLD

HM SHOWTIME

HOME SHOWTIME

HULBERT, C

J TERENCE ODONNELL

JACOBSON ASSOCIATES

KAY HONIGMAN

KEELER GROUP

KILGORE, LA

LAN HUGHES SYSTEMS INC

LAWRENCE S FLAGGMAN

LEASELINE FINANCIAL

MARCIA E FEMRITE

MARK, SHERI

MORTGAGE BROKERS OF AMERICA

MUELLER FLAGGMAN KILGORE DESON

MUELLER, MICHAEL R

N A BEAMISH ATY

NANCY JOHN ATY

OUTSIDE MAGAZINE

PAUL A TISDALE

PAUL W HARTY

POWER SYSTEMS RESEARCH

PROGRESSIVE FINANCIAL SVC

ROBINSON JEFFREY ASSOC INC

ROUALET, NANCY

S & D MANAGEMENT

S&D MANAGEMENT

W MAPLE RD 1995 (Cont'd)

400	SALON 313 SCREENVISION CINEMA NETWORK
	SHEILA M JOHNSON LAW OFFICES
	STONE & CO
	TED MILLER PUBLIC RELATIONS TOTAL REALTY SVC
	VERNON G LEOPOLD
	VIADUCK PRODUCTIONS
	WARTEL, DANIEL
	WEBB, WILLIAM W
460	HERSEY, SCOTT A
484	DANIELSON, LEN
707	WOHL, JOHN H
500	HUNTER HOUSE MUSEUM
556	ALLEN HOUSE HISTORICAL HOME
679	DELAURA, ROBERT
697	FAIR, PAUL
700	BANNON, KEVIN
745	LEWISTON, MICHAEL B
747	OCCUPANT UNKNOWNN
763	ROBERTS, DALE G
775	FRANK STANCZAK
	RUBY, ELLIOTT J

Target Street	Cross Street	<u>Source</u>
✓	-	Cole Information Service

N CHESTER ST 1992

191	CHURCH CHRIST SCNT

W MAPLE RD 1992

0.45	DI MEI D'ODTIOL ONTD
245	BLMFLD OPTICL CNTR
247	HANSEL N GRETEL SH
	TOM SCHEY ATY
254	MERCHANT OF VINO
268	TWIGS INC
271	MARKO, S
	MILANO FUR&LEATHER
280	A S BROWN DVLPMT
200	ASB ASSET MNGMNT
	DEJAGER CONSTRCTN
	ENTERTAINMENT DIRC
	LONE PINE REALTY
282	BENETTON
284	GULIANS
296	MARK KELLER W END
299	LINDA DRESNER INC
336	JACOBSONS
355	OPPORTUNITY SHOP
000	ST ANNES GIFT SHOP
	ST JAMES EPISC CH
	ST JAMES OPPTY SHP
	ST JAMES UNDERCRET
	ST'JAMES NRSRY SCH
400	1ST CNTNTL REALTY
	A S WORTMAN ATY
	AERIE PRESS INC
	AMTEL SYSTEMS
	BENDER&BORSENIK A
	BHM FAMILY THERAPY
	BLUE STAR FNDTN
	BRYAN KNEZ ATY
	BRYEN, ERIC R
	C G HATHAWAY ATY
	C P REISMAN ATY
	CMPRHNSV SEARCH
	CREATIVE LIFE
	D ANN PARKER
	D H BORSENIK ATY
	D L MORRIS ATY
	D L PHILLIPS ATY
	D WARTEL CPA
	DAVID G CAIN ATY
	DAVID L MORRIS ATY
	DR T L STULBERG
	E H LERCHEN JR ATY
	E R BRYEN PC
	E SILVERMAN ATY
	ENERGY RESOURCE MG
	ERMA L HECK ATY
	EXECUTIVE SUITES
	EVECUTIVE 2011E2

W MAPLE RD 1992 (Cont'd)

400	FLD ENTERPRISES
	FOUR TWO FOUR ASCS
	G T YOUNG ATY
	GREGORY BATOR ATY
	H M BABCOCK ATY
	HECK&WEBB ATY
	HENRY GOLD ATY
	HONIGMAN-SINGER A
	HYMAN&LIPPITT ATY
	J B WOLFE ATY
	JACK B WOLFE ATY
	JACK B WOLFE PC
	KEELER GROUP
	LAWRENCE ASSOCS
	LEASELINE FNCL
	M E WEAVER ATY
	M ZARTARIAN ATY
	MAPLE EXEC SUITES MARK ZARTARIAN ATY
	MAUREEN DUFFY ATY
	MCCUEN&ASSOCS
	MICHL J KINNEY ATY
	MORTGAGE BROKERS
	N A BEAMISH ATY
	P A TISDALE ATY
	PACIFIC WRLD MRTGE
	PAUL LOOCK ATY
	PAUL W HARTY ATY
	PETER E ROBINSON
	R A CAMERON PROF
	ROBINSON-JEFFREY
	ROWE CAMERON
	SCREENVISN CINEMA
	SEMIKRON INC
	STULBERG, TRACEY L
	TAMBRANDS CORP
	V A SAPIENZA ATY
	WARTEL, DANIEL
	WEAVER&DUFFY ATY
	WILLIAM WEBB ATY
	WORLD WIDE FNCL
	WRLD WIDE MORTGAGE
	ZARTARIAN&BATOR A
484	DANIELSON, LEN
	WOHL, JOHN H
500	HUNTER HSE MUSEUM
556	ALLEN HS HSTRCL HM
	CITY ALLEN HOUSE
679	DELAURA, ROBERT
747	PRESKIN, GREGORY

Target Street Cross Street Source
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W MAPLE RD 1992 (Cont'd)

Target Street

Cross Street

<u>Source</u>

Bresser's Cross-Index Directory

N CHESTER ST 1987

•• 100- 199 T 103002 \$A••D 8
125
191*CHURCH CHRIST SCNT 6441020
1 RESIDENCE 1 BUSINESS

W MAPLE RD 1987

••	MAI LE ILD 100	•
	BENETTON H54010	
	LEOTARDS ET CETERA 154064 MARK KELLER W END 54093	
299	*MARK KELLER W END 54093 *SENTRY-WAYS&MEANS 25864	
	WAYS&MEANS 25864	44
336	WAYS&MEANS CAPABL 25864	
	JACOBSONS 64635	11
355	OPPORTUNITY SHOP 64464 ST JAMES EPISC CH 64408	
	ST JAMES OPPTY SHP 64464	42
	ST ANNES GIFT SHOP 54014	
	ST JAMES UNDERCRET 64498 ST JAMES NRSRY SCH 64408	
400	*ACCNTNTS MICROSYS 1164469	
	*AMER GREETNG CORP 54078 *APPLIED BTU INC -64454	
	P D AREDDY ATY 84209	71
	*G BAILEY ATY 54035 *JOHN I BAIN ATY 125807	
	*JAMES R BANDY 64220	80
	*BENDER&ASSOC ATY 64272	30
	*CRAIG W BENDER ATY 64272 *BIRMNGHM CMPTR GRP 54006	40
	"D H BORSENIK AIY 642/2	30
	*DAVID G CAIN ATY 64281 *T CARLESIMO ATY 64212	92
	*TERRY M CARR ATY -25895	55
	*COMMOTY STIAPROSG 25866	10
	*COMPUTERS HOLDING #25893	61
	*COOKIE KITCHEN 54060 *S A CRANE ATY 54060	43
	*ELITE BUSI SERV 25858	50
	*ENVNML ENGNG&TECHN 1164454	
	*EPICUREAN DINING -25828 *ESTES&SCHWEICKERT #64680	80
	*L M FELDMAN ATY 64247	27
	*FINALCO INC -64449 *BUD FINAN ATY 64432	21
	*STEVE FINEGOOD ATY 64517	11
	*FOUR TWO FOUR ASCS 64284 *GRO ACCOUNTING 125894	
	*HENRY GOLD ATY 64228	22
	*GRAPHIC SALES 54036 *HEALTH-CARE RECRTS 1164781	
	*J H HEMMING ATY 64226	46
	*D T HUMPHREY AGCY 1125811	20
	*CLIFFORD JOHNSON #64590 *R D KACZMARCZYK 54095	
	*J M KINNEH ATY 54035	57
	*KINNEY&LOOCK ATY 54035 *D P KOLLY ATY 25861	
	*R KOTTLER INC #54033	177
	*PAUL LOOCK ATY 54035 *MKS INSTRUMENTS 54048	
	*MANHTN COOKIES 54060	40
	*MAPLE LAW CENTER 64415 *MICH MCSI H25893	140
	*A MILLSTEIN ATY 54020	50
	*RICHARD NEHLS INC 54063 *NICHOLS PRTLND DIV 1154055	64
	*VIC OLESEN H25891	14
	*OWENS&SANTE CPA ::25894 *D ANN PARKER 64230	
	*PERSONAL FINANCIAL 64211	
		95
	*C P REISMAN ATY 25855 *ROBERT H ROETHER 54090 *MICHAEL SANTE CPA 1125894	194
	*R SASSAK ARCHT 64511	123
	*R W SCRIPTER ATY -25889 *JAMES R SHEEHAN 64224	
	*GARY D SIEGEL ATY 54080	22
	*G W SMITH&CO 54091	
	*N L STROMAN ATY 125888	386
	*COOKIE KITCHEN 54060	133
	*C F URBAUER&ASSOCS 64457	744
	*D WARTEL CPA 64467	755
	*STEPH M WITTENBERG 125888 *A S WORTMAN ATY 1164405	552
22	*MARK ZARTARIAN ATY 64278	
424		762
400	SCOTT A HERSEY 6446	553
	WARREN HERSEY 6446	531
484	WARREN HERSEY 64469	
	LILLIAN DANIELSON 3 5409!	546
500	JOHN H WOHL 3 5409! *HUNTER HSE MUSEUM 6477!	
515	*E F DELAHUNTE 6444	677
	*E S PANKOTAN SCHL 6444 *PAUL PANKOTAN 6444	677
556	*ALLEN HS HSTRCL HM 6422	817
		817
	*BIRMINGHAM ALLEN 64499 *ROGER SMITH 6422	
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679		723
68	NP	
	E WILSON-DEDERKO #2585	654
69		
69	DALE G ROBERTS 6465	
69	DALE G ROBERTS 6465	939

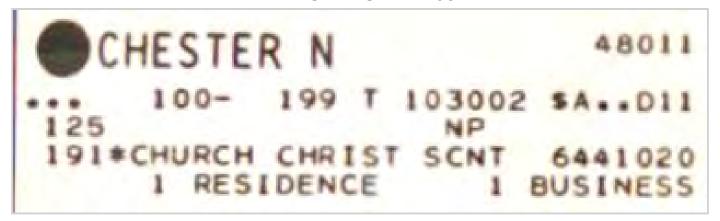
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Cross Street

<u>Source</u>

Bresser's Cross-Index Directory

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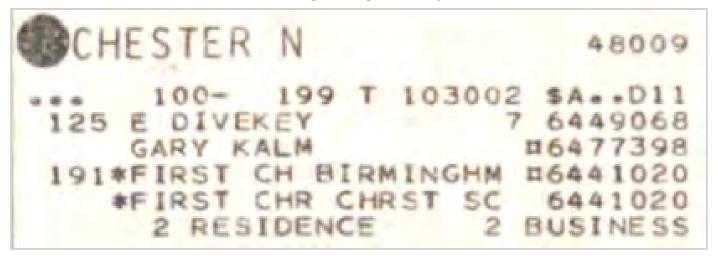
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<u>Source</u>

Bresser's Cross-Index Directory

N CHESTER ST 1977



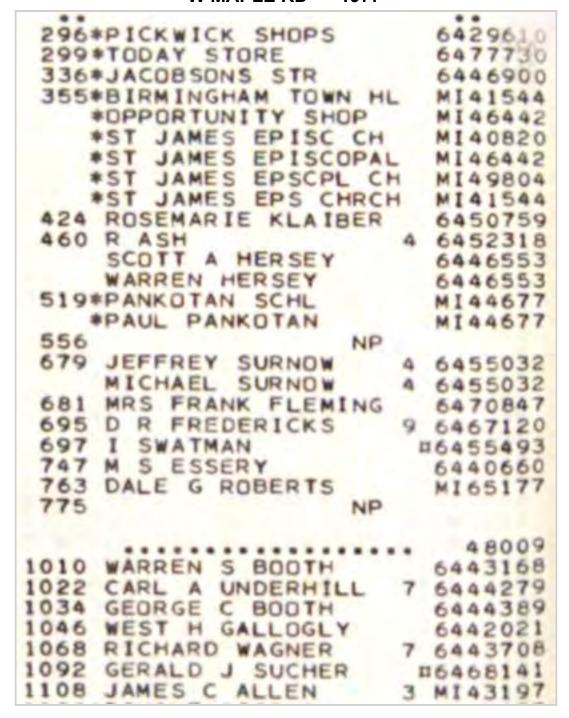
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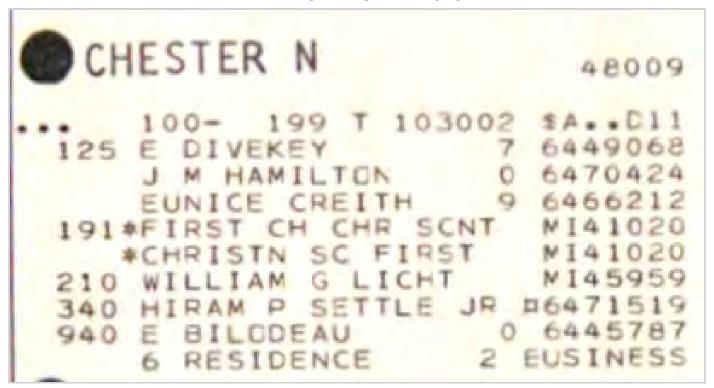
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W MAPLE RD 1977



<u>Source</u> Bresser's Cross-Index Directory

N CHESTER ST 1973



Target Street Source
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Bresser's Cross-Index Directory

W MAPLE RD 1973

294	*ARDELS	NI42142
296	*WABEEK PHARMACY	NI46333
	*GRINNFLL BRCTHERS	MI45135
		6446900
	*OPPORTUNITY SHOP	
	BIRNGH TOWN HALL	NI41544
	ST JAMES EPISC CH	
	*ST JAMES EPSCPL CH	
	ST JAMES EPS CHRCH	
		N14644
	JOHANNA ROEINSON 1	
460		642245
400	THOMAS CLARKE	
	SCOTT A HERSEY	644655
	WARREN HERSEY 6	
404	J H COSTELLO 9	
	*PANKOTAN SCHL BLLT	
	P PANKOTAN STUDIO	
220	HARRY ALLEN	642112
		4800
670	C A LADCCH	4600
	S A LARSON I	1647561
681		647084
695		646712
697	HARRY W RAPP 6	646015
747	MRS WM E ESSERY	644066
763	DALE G ROBERTS	NI6517
775	M D WARTCHOW 2	642542



30553 Wixom Road, Suite 500 • Wixom, Michigan 48393 • Voice: 248.926.3800 • Fax: 248.926.3838 12330 Perry Highway, Suite 240 • Wexford, PA 15090 • Voice: 412.463.6576

Environmental Services, Inc.

March 19, 2015

Mr. Rob Krochmal Chester Street Partners, LLC 320 Martin Street, Suite 100 Birmingham, MI 48009

RE: HAZARDOUS MATERIALS SURVEY REPORT 191 N. CHESTER STREET BIRMINGHAM, MICHIGAN PERFORMANCE PROJECT #151225

Dear Mr. Krochmal:

In accordance with your request, Performance Environmental Services, Inc. conducted a hazardous materials survey of the property located at 191 N. Chester Street in Detroit, Michigan. To complete the survey, an EPA certified and Michigan Department of Licensing and Regulatory Affairs (LARA) accredited Asbestos Building Inspector performed an on-site investigation of the property and collected samples suspected of containing asbestos in accessible areas within the study area. The purpose of the survey was to note the presence of materials that have the potential to become hazardous during demolition and to locate and to identify building materials suspected of containing asbestos. The suspected asbestos-containing samples were analyzed at a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory using Polarized Light Microscopy (PLM).

As a result of our survey and laboratory analysis, <u>the following hazardous and asbestos-containing materials</u> <u>were identified:</u>

Hazardous Material			
Material	~ Quantity	Location	
Exit sign	18	By doors throughout, box in 1 st floor storage room by furnace and boiler rooms	
Thermostat	10	Throughout	
Copy machine	2	East room between boys and girls bathrooms on 1st floor, administrative office by south foyer	
Fluorescent light bulb	200	Sunday school and day care areas, storage rooms	
Fluorescent light ballast	90	Sunday school and day care areas, storage rooms	
Window air conditioning unit	3	Treasurer and board of directors rooms, administrative office off south foyer	
Fire extinguisher	8	Throughout	
Computer monitor	3	East room between boys and girls bathrooms on 1st floor, administrative office by south foyer	
Furnace	4	Boiler and furnace rooms	
Compact fluorescent light bulb	18	In box in storage room between boiler and furnace rooms	

Chester Street Partners Hazardous Material Survey Report 191 N. Chester Street Birmingham, Michigan March 19, 2015 Page 2

Hazardous Material			
Material	~ Quantity	Location	
Lawn mower	1	Storage room between boiler and furnace rooms	
Snow blower	1	Storage room between boiler and furnace rooms	
Gasoline container	2	Storage room between boiler and furnace rooms	
Paint can (gallon)	19	Storage room between boiler and furnace rooms	
Paint can (pint)	1	Storage room between boiler and furnace rooms	
Paint can (quart)	19	Storage room between boiler and furnace rooms, closet by hall to boiler room	
Spray paint can	11	Storage room between boiler and furnace rooms	
Can of paint thinner	1	Storage room between boiler and furnace rooms	
Pesticide spray can	6	Storage room between boiler and furnace rooms, storage closet in hall to boiler room	
Oiling can (small)	1	Storage room between boiler and furnace rooms	
Small engine oil (small bottles)	3	Boiler room	
Tank	1	Boiler room	
Corrosive material (5 gallon)	2	Boiler room	
Underground fuel oil tank	1	Underground NE of boiler room	
WD40 (small can)	1	Closet off hall to boiler room	

HA #	Material Description	Asbestos-Containing Material	Location	~ Quantity
1	9" x 9" Floor tile (green with black and white specks) and black mastic	Floor tile	Treasurer and committee rooms, soloist room closet, closets in corridor west of south foyer	860 ft ²
3	Textured paint on soft plaster	Paint	Men's and women's bathrooms off south corridor in upper level	200 ft ²
4	Carpet glue (yellow) over 9" x 9" floor tile (green with black and white specks) and black mastic	Floor tile	Board of directors and soloist rooms, west and south upper level corridors	750 ft ²
6	Firedoors and/or fireframes	Firedoors and/or fireframes	Office corridor behind main auditorium, north door in west corridor, Sunday school north entrance doors, furnace room door	5 Doors
12	Exterior window glaze	Glaze	Windows throughout	68 Windows (34 ft²)

Chester Street Partners
Hazardous Material Survey Report
191 N. Chester Street
Birmingham, Michigan
March 19, 2015
Page 3

HA #	Material Description	Asbestos-Containing Material	Location	~ Quantity
13	Exterior caulk	Caulk	Window frames,	68
			door frames and	Windows
			vent edges	(34 ft²),
				5 doors
				(2.5 ft²),
				4 vents
				(2 ft ²)
14	Sink undercoating (black)	Sink undercoating	Day care room on	1 sink
			1 st floor	
15	0"-6" O.D. Millboard straight	Insulation	Under auditorium,	475 feet
	run pipe insulation		storage/mechanical room	
			NE of boiler room, furnace	
			room, storage room east of	
			furnace room	
16	0"-6" O.D. Mudded pipe fitting	Fitting insulation	Under auditorium,	60 Fittings
	insulation on Millboard straight		storage/mechanical room	
	run pipe insulation		NE of boiler room, furnace	
			room, storage room east of	
			furnace room	
17	Mud between cloth and tar-	Cloth	Furnace room and storage	380 ft ²
	coated fiberglass duct insulation		room east of furnace room	
20	Sliding firedoor	Firedoor	North boiler room door	1 Door

Attached, please find the Hazardous Materials Survey Report, which includes the complete laboratory data and the chain of custody records. If there are any questions or comments concerning this report or our recommendations, please do not hesitate to contact us.

Respectfully,

PERFORMANCE ENVIRONMENTAL SERVICES, INC.

expens S. Bross

Jeffrey S. Gross

Senior Project Manager

Dennis A. Wood

Senior Project Manager

JSG/DAW:hr

Attachments

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	SURVEY OVERVIEW AND FINDINGS	
	SUMMARY AND RECOMMENDATIONS	
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1.0 INTRODUCTION

Chester Street Partners (Chester) contracted Performance Environmental Services, Inc. (*Performance*) to conduct a hazardous materials survey of the property located at 191 N. Chester Street in Birmingham, Michigan. The purpose of the survey was to note the presence of materials that have the potential to become hazardous during renovation or demolition and to locate and identify building materials suspected of containing asbestos. *Performance* representative Mr. Thomas Carpenter (Accreditation #A34314) conducted the on-site survey and sample collection activities on March 5-6, 2015.

2.0 SCOPE OF WORK

Chester provided locations for the scope of work and the subsequent survey area. An EPA certified and Michigan Department of Licensing and Regulatory Affairs (LARA) accredited Asbestos Building Inspector performed the survey to note the presence of materials that have the potential to become hazardous during renovation or demolition and to locate and sample materials suspected of containing asbestos. *Performance* also provided project review, report preparation and consultation services during the course of this project.

As part of this study, *Performance* completed the following:

- Conducted a survey of accessible areas to note the presence of materials that have the potential
 to become hazardous during renovation or demolition and to locate building materials
 suspected of containing asbestos;
- 2) Collected bulk material samples for subsequent analysis by Polarized Light Microscopy (PLM); and,
- 3) Submitted bulk samples collected during this survey to a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for PLM analysis.

Performance assembled the information collected during the study in this report, which details the laboratory results and locations of sampled materials.

3.0 SURVEY OVERVIEW AND FINDINGS

3.1 SUSPECTED HAZARDOUS AND ASBESTOS-CONTAINING BUILDING MATERIALS

As a result of our survey, *Performance* observed equipment that contained materials that may become hazardous during demolition. The potentially hazardous materials were documented as follows:

Hazardous Material			
Material ~ Quantity Location			
Exit sign	18	By doors throughout, box in 1 st floor storage room by furnace and boiler rooms	
Thermostat	10	Throughout	

Hazardous Material			
Material	~ Quantity	Location	
Copy machine	2	East room between boys and girls bathrooms on 1 st floor, administrative office by south foyer	
Fluorescent light bulb	200	Sunday school and day care areas, storage rooms	
Fluorescent light ballast	90	Sunday school and day care areas, storage rooms	
Window air conditioning unit	3	Treasurer and board of directors rooms, administrative office off south foyer	
Fire extinguisher	8	Throughout	
Computer monitor	3	East room between boys and girls bathrooms on 1 st floor, administrative office by south foyer	
Furnace	4	Boiler and furnace rooms	
Compact fluorescent light bulb	18	In box in storage room between boiler and furnace rooms	
Lawn mower	1	Storage room between boiler and furnace rooms	
Snow blower	1	Storage room between boiler and furnace rooms	
Gasoline container	2	Storage room between boiler and furnace rooms	
Paint can (gallon)	19	Storage room between boiler and furnace rooms	
Paint can (pint)	1	Storage room between boiler and furnace rooms	
Paint can (quart)	19	Storage room between boiler and furnace rooms, closet by hall to boiler room	
Spray paint can	11	Storage room between boiler and furnace rooms	
Can of paint thinner	1	Storage room between boiler and furnace rooms	
Pesticide spray can	6	Storage room between boiler and furnace rooms, storage closet in hall to boiler room	
Oiling can (small)	1	Storage room between boiler and furnace rooms	
Small engine oil (small bottles)	3	Boiler room	
Tank	1	Boiler room	
Corrosive material (5 gallon)	2	Boiler room	
Underground fuel oil tank	1	Underground NE of boiler room	
WD40 (small can)	1	Closet off hall to boiler room	

Performance also observed twenty (20) types of material suspected of containing asbestos. The suspect materials were classified into homogeneous areas. A homogeneous area (HA) is a building material that appears similar in terms of color, texture, and apparent date of application. The materials were assigned HA numbers 1 through 20, and were compiled as follows:

- 1) 9" x 9" Floor tile (green with black and white specks) and black mastic;
- 2) 1' x 1' Glued-on ceiling tile (medium and large holes, uneven) and dark brown gluepods;
- 3) Textured paint on soft plaster;
- 4) Carpet glue (yellow) over 9" x 9" floor tile (green with black and white specks) and black mastic;

- 5) Hard plaster;
- 6) Firedoors and/or fireframes;
- 7) 1' x 1' Glued-on ceiling tile (small holes, uneven) and black gluepods;
- 8) 1' x 1' Glued-on ceiling tile (gouges) and dark brown gluepods;
- 9) 0"-6" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation;
- 10) >6"-12" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation;
- 11) 1' x 1' Glued-on ceiling tile (large, evenly spaced holes) and brown gluepods;
- 12) Exterior window glaze;
- 13) Exterior caulk;
- 14) Sink undercoating (black);
- 15) 0"-6" O.D. Millboard straight run pipe insulation;
- 16) 0"-6" O.D. Mudded pipe fitting insulation on Millboard straight run pipe insulation;
- 17) Mud between cloth and tar-coated fiberglass duct insulation;
- 18) Covebase mastic (brown);
- 19) Carpet glue (yellow) and black mastic; and,
- 20) Sliding firedoor.

3.2 IDENTIFIED ASBESTOS-CONTAINING BUILDING MATERIALS

Performance collected fifty-three (53) bulk material samples of the identified homogeneous areas and submitted them to an NVLAP-accredited laboratory for PLM analysis. As the laboratory results indicate, *asbestos was detected in the following HA numbers:*

HA#	Material Description	Asbestos-Containing Material	Location	Asbestos Content
1	9" x 9" Floor tile (green with black and	Floor tile	Treasurer and committee rooms,	10% Chrysotile/ NAD
	white specks) and black mastic		soloist room closet, closets in corridor west of south foyer	
3	Textured paint on soft plaster	Paint	Men's and women's bathrooms off south corridor in upper level	12% Chrysotile
4	Carpet glue (yellow) over 9" x 9" floor tile (green with black and white specks) and black mastic	Floor tile	Board of directors and soloist rooms, west and south upper level corridors	NAD/ 10% Chrysotile/ NAD
6	Firedoors and/or fireframes	Firedoors and/or fireframes	Office corridor behind main auditorium, north door in west corridor, Sunday school north entrance doors, furnace room door	Assumed
12	Exterior window glaze	Glaze	Windows throughout	0-1.5% Chrysotile
13	Exterior caulk	Caulk	Window frames, door frames and vent edges	2% Chrysotile

HA#	Material Description	Asbestos-Containing Material	Location	Asbestos Content
14	Sink undercoating	Sink undercoating	Day care room on	10% Chrysotile
	(black)		1 st floor	
15	0"-6" O.D. Millboard	Insulation	Under auditorium,	10% Chrysotile
	straight run		storage/mechanical	-
	pipe insulation		room NE of boiler	
			room, furnace room,	
			storage room east of	
			furnace room	
16	0"-6" O.D. Mudded	Fitting insulation	Under auditorium,	0-25%
	pipe fitting insulation		storage/mechanical	Chrysotile
	on Millboard straight		room NE of boiler	-
	run pipe insulation		room, furnace room,	
			storage room east of	
			furnace room	
17	Mud between cloth	Cloth	Furnace room and	20% Chrysotile
	and tar-coated		storage room east of	
	fiberglass		furnace room	
	duct insulation			
20	Sliding firedoor	Firedoor	North boiler	Assumed
			room door	

Refer to the attached Appendix for the complete laboratory data and the Chain of Custody records.

3.3 DISCUSSION

3.3.1 Asbestos Control and Management

Renovation and demolition activities, as well as some maintenance activities have the potential to disturb materials and release asbestos fibers into the environment.

EPA:

The Environmental Protection Agency (EPA), under the National Emission Standards for Hazardous Air Pollutants (NESHAPS), requires notification and procedures for emissions control depending on whether the asbestos material in question falls into the definition of "Regulated Asbestos-Containing Material" (RACM). NESHAPS defines RACM as:

- (a) Friable asbestos material,
- (b) Category I nonfriable ACM that has become friable,
- (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or
- (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The proceeding items summarize basic requirements for demolition and renovation projects according to NESHAPS:

- (1) In a facility being **demolished**, notification requirements and procedures for asbestos emission control apply if the combined amount of RACM is (i) At least 260 linear feet on pipes or at least 160 square feet on other facility components, or (ii) At least 35 cubic feet off facility components where the length or area could not be measured previously.
- (2) In a facility being <u>demolished</u>, only the notification requirements apply, if the combined amount of RACM is (i) <u>Less than</u> 260 linear feet on pipes and less than 160 square feet on other facility components, and (ii) <u>Less than</u> 35 cubic feet off facility components where the length or area could not be measured previously or there is no asbestos.
- (3) If the facility is being <u>demolished</u> under an order of a State or local government agency issued because the facility is structurally unsound and in danger of imminent collapse, specific requirements apply (see NESHAPS for details).
- (4) If the facility is being <u>renovated</u>, notification requirements and procedures for asbestos emission control apply if the combined amount of RACM to be stripped, removed, dislodged, cut, drilled, or similarly disturbed is (i) At least 260 linear feet on pipes or at least 160 square feet on other facility components, or (ii) At least 35 cubic feet off facility components where the length or area could not be measured previously.

Michigan LARA:

According to the Michigan Department of Licensing and Regulatory Affairs (LARA), in a facility where demolition, renovation or encapsulation is to occur, notification requirements and procedures for asbestos emission control apply if the combined amount of RACM is at least 10 linear feet on pipes or at least 15 square feet on other facility components.

3.3.2 Survey Limitations and Miscellaneous Field Notes

Performance noted that was no access to the roof. In addition, above ceiling access was extremely limited and most of the building had plaster ceilings or glued-on ceiling tiles. Damage via bulk sampling was kept to a minimum per the client; therefore, samples that required damage to intact materials were taken in very limited locations to minimize damage.

Performance quantified the visible TSI under the auditorium floor but the entire area was not visible; there might be some TSI that was not visible. In addition, there might be additional TSI under the floors, behind walls and above ceilings that would not have been visible during the survey.

The scope of work for this project did not include the sampling of ceramic tile. Potential asbestos-containing materials associated with ceramic tile include underlying flooring materials and/or mastic.

Although *Performance* made every attempt to locate below floor heating ducts, there may be asbestos-containing heating ducts inside or under the cement slab floor that were not visible or were inaccessible.

Performance made every attempt to sample the chimney stack (if present); however, there may be asbestos-containing material inside the stack that was not visible or was inaccessible.

Remodeling and renovations within buildings often result in asbestos-containing flooring products (flooring and mastics) being covered with non-asbestos flooring products. Although every attempt is made to delineate flooring types during survey activities, due to the limited destructive nature of sampling *Performance* assumes asbestos-containing materials may be present below sampled flooring in areas not inspected. It is imperative that if flooring finishes in an area differ from areas where samples were collected, additional samples are collected and analyzed of the newly uncovered material before disturbance occurs.

Performance did not sample any system that presented a health and safety hazard to the inspector such as energized electrical systems, elevator components, active mechanical systems, or within confined spaces.

Performance has prepared this report for the express use of its clients and their approved agents. Although some of the information included in this report or in portions of this report may be required to be included in notifications to various parties, this report is not intended to be used as an asbestos specification or work plan.

This report is based upon conditions observed at the property at the time of the inspection. This report does not intend to identify all hazards or to indicate that other hazards do not exist at the project site. Environmental conditions and regulations are subject to constant change and reinterpretation.

4.0 SUMMARY AND RECOMMENDATIONS

Hazardous Materials:

The items listed in the hazardous materials table in section 3.1 of this report contain materials that can become hazardous during renovation or demolition. *Performance* recommends removing the hazardous materials before renovation or demolition and properly disposing of the materials according to the applicable laws and regulations.

The scope of work for this project did not include testing for lead-based paint. *Performance* did note that peeling paint was found throughout the structure. Although current regulations do not require removal of lead-based paint prior to renovation or demolition, *Performance* recommends testing for airborne lead during renovation or demolition activities to ensure that worker exposure does not exceed permissible exposure limits. Furthermore, *Performance* recommends avoiding activities that may increase worker exposure to potential airborne lead. Activities that can increase worker exposure include sanding, grinding, cutting, or abrading lead-based painted materials.

Asbestos-Containing Materials:

Friable Materials:

Performance recommends abating the textured paint (HA#3), thermal system insulation materials (HA#15 and HA#16) and mud cloth (HA#17) if they have the potential to be disturbed. If the identified materials are not removed or disturbed, then *Performance* recommends that an Operations and Maintenance Program be prepared to facilitate the in-place management of these asbestos-containing materials.

Category I Nonfriable Materials:

Referring to the definition of RACM in section 3.3.1, EPA NESHAPS requires removal of Category I nonfriable ACM prior to a renovation or demolition if they have become friable or if they will be or have been subjected to sanding, grinding, cutting, or abrading.

If the facility is being renovated, *Performance* recommends abating the flooring materials (HA#1 and HA#4) if it has the potential to be disturbed.

As per EPA and OSHA regulations, if the facility is being demolished, abatement of the flooring materials would not typically be required unless one of the following occurs:

- 1. The flooring material becomes non-intact (ACM has crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix) during the demolition activities;
- 2. The flooring material becomes a RACM (Category I nonfriable that has become friable or that will be or has been subjected to sanding, grinding, cutting, or abrading) through aggressive demolition methods; or,
- 3. The concrete under the flooring must be reclaimed.

However, due to current regulatory interpretation and enforcement which states that standard demolition techniques are resulting in Category I non-friable material becoming either non-intact or friable, *Performance* recommends abating the flooring materials (HA#1 and HA#4) prior to the facility being demolished. Based on the current regulatory stance on Category I non-friable material, if the material is not abated prior to demolition activities, the potential exists for citations and fines for the owner and operator by the regulatory agencies.

If the identified materials are not removed or disturbed and is remaining in place, then *Performance* recommends that an Operations and Maintenance Program be prepared to facilitate the in-place management of these asbestos-containing materials.

Category II Nonfriable Materials:

Referring to the definition of RACM in section 3.3.1, EPA NESHAPS requires removal prior to a renovation or demolition of all Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations. Due to the ambiguous nature of this statement,

Performance recommends abating the exterior window glaze (HA#12), exterior caulk (HA#13) and sink undercoating (HA#14) if they have the potential to be disturbed.

If the identified materials are not removed or disturbed, then *Performance* recommends that an Operations and Maintenance Program be prepared to facilitate the in-place management of these asbestos-containing materials.

Assumed Materials:

The firedoors and/or fireframes (HA#6 and HA#20) are assumed to contain a friable asbestos-containing material and therefore cannot be disturbed (drilled, sawed, etc.) during renovation or demolition activities. *Performance* recommends removing the firedoors intact, with its associated doorframes, before any renovation or demolition activities. If the identified materials are not removed or disturbed, then *Performance* recommends that an Operations and Maintenance Program be prepared to facilitate the in-place management of these asbestos-containing materials.

APPENDIX

SURVEY DOCUMENTATION

CONTENTS

- ► CERTIFICATES OF LABORATORY ANALYSIS
- **▶** CHAIN OF CUSTODY RECORDS





Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Non-Asbestos

Lab ID #: 57569 - 01

Cust. #: 1-1

Material: 9x9 Green w/Black& White Speck FT Location: S. Closet in Large Com.Rm. UL SW End

Appearance: grey, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 01a

Cust. #: 1-1

Material: Mastic

Location: S. Closet in Large Com.Rm. UL SW End

Appearance: black,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 02

Cust. #: 1-2

Material: 9x9 Green w/Black& White Speck FT

Location: S. Closet in Large Com.Rm. UL SW End

Appearance:

Layer: 1 of 2

Asbestos Type/Percent

Asbestos Present: YES

Chrysotile - 10%

Other - 90%

Other - 100%

Asbestos Present: NO

No Asbestos Observed

Asbestos Present:

NOT ANALYZED

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Date Analyzed: 03/11/15 Date Reported: 03/11/15

Sample Information

Non-Asbestos

Other - 100%

Lab ID #: 57569 - 02a

Cust. #: 1-2

Material: Mastic

Location: S. Closet in Large Com.Rm. UL SW End Appearance: black,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 03

Material: 1x1 Glued-On CT-Med & Lrg Holes-Uneven

Cust. #: 2-1

Location: Lrg Committee Rm. By Partition-UL SW End Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 03a

Cust. #: 2-1

Material: Glue Pod

Location: Lrg Committee Rm. By Partition-UL SW End

Appearance: brown,nonfibrous,homogenous

For Layered Samples, each component will be analyzed and reported separately

Layer: 2 of 2

Asbestos Type/Percent

Asbestos Present: **NO**

No Asbestos Observed

Asbestos Present: **NO**

No Asbestos Observed

Other - 10%

Other - 100%

Cellulose - 90%

Asbestos Present: NO

No Asbestos Observed

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

Asbestos Present: **NO**

Asbestos Present: NO

No Asbestos Observed

No Asbestos Observed

No Asbestos Observed

Non-Asbestos

Cellulose - 90%

Other - 10%

Other - 100%

Cellulose - 80%

Other - 20%

Lab ID #: 57569 - 04

Cust. #: 2-2

Material: 1x1 Glued-On CT-Med & Lrg Holes-Uneven Location: Lrg Committee Rm. By Partition-UL SW End

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 04a

Cust. #: 2-2

Material: Glue Pod

Location: Lrg Committee Rm. By Partition-UL SW End

Appearance: brown, nonfibrous, homogenous

Layer: 2 of 2

Lab ID #: 57569 - 05

Cust. #: 2-3

Material: 1x1 Glued-On CT-Med & Lrg Holes-Uneven

Location: Lrg Committee Rm. By Partition-UL SW End

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

For Layered Samples, each component will be analyzed and reported separately

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ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15 Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: **NO**

Asbestos Present: **NO**

Asbestos Present: NO

No Asbestos Observed

No Asbestos Observed

No Asbestos Observed

Non-Asbestos

Other - 100%

Cellulose - 90%

Other - 10%

Other - 100%

Lab ID #: 57569 - 05a

Cust. #: 2-3

Material: Glue Pod

Location: Lrg Committee Rm. By Partition-UL SW End

Appearance: brown,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 06

Cust. #: 2-4

Material: 1x1 Glued-On CT-Med & Lrg Holes-Uneven Location: Small Committee Rm - Upper Level SW End

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 06a

Cust. #: 2-4

Material: Glue Pod

Location: Small Committee Rm - Upper Level SW End

Appearance: brown,nonfibrous,homogenous

Layer: 2 of 2

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Cellulose - 90%

Other - 10%

Other - 100%

Other - 88%

Lab ID #: 57569 - 07

Cust. #: 2-5

Material: 1x1 Glued-On CT-Med & Lrg Holes-Uneven Location: Small Committee Rm - Upper Level SW End

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 07a

Cust. #: 2-5

Material: Glue Pod

Location: Small Committee Rm - Upper Level SW End

Appearance: brown, nonfibrous, homogenous

Layer: 2 of 2

Lab ID #: 57569 - 08

Cust. #: 3-1

Material: Textured Paint on Soft Plaster

Location: SE Men's Bath-Upper Level E. End Window

Appearance: white, fibrous, homogenous

Layer: 1 of 1

Asbestos Present: **NO**

No Asbestos Observed

Asbestos Present: YES

Chrysotile - 12%

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 09

Cust. #: 3-2

Material: Textured Paint on Soft Plaster

NOT ANALYZED

Asbestos Present:

Location: SE Men's Bath-Upper Level W. End Window

Appearance: Layer: of

Lab ID #: 57569 - 10

Asbestos Present:

Cust. #: 3-3

Material: Textured Paint on Soft Plaster

NOT ANALYZED

Location: SE Women's Bath - Upper Lvl by Ctr Vent

Appearance: Layer:

Lab ID #: 57569 - 11

Asbestos Present: NO

Cust. #: 5-1

Material: Hard Plaster - Finish Coat

Location: E. Wall of Balcony of Auditorium Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

Other - 100%

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Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15 Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 11a

Cust. #: 5-1

Material: Base Coat

Location: E. Wall of Balcony of Auditorium

Appearance: grey,fibrous,homogenous

Layer: 2 of 2

POINT COUNT RESULT

Lab ID #: 57569 - 12

Cust. #: 5-2

Material: Hard Plaster - Finish Coat

Location: Attic Organ Above Stage of Audit. E. Wall

Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 12a

Cust. #: 5-2

Material: Base Coat

Location: Attic Organ Above Stage of Audit. E. Wall

Appearance: grey,fibrous,homogenous

Layer: 2 of 2

Asbestos Present: **NO**

Other - 100%

Other - 100%

Other - 99.75%

Chrysotile - Trace

Asbestos Present: **NO**

Asbestos Present: NO

POINT COUNT RESULT

Chrysotile - 0.25%

No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 100%

Other - 100%

Other - 100%

Lab ID #: 57569 - 13

Cust. #: 5-3

Material: Hard Plaster - Finish Coat

Location: Attic Organ Above Stage of Audit. N. Wall

Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 13a

Cust. #: 5-3

Material: Base Coat

Location: Attic Organ Above Stage of Audit. N. Wall

Appearance: grey, fibrous, homogenous

Layer: 2 of 2

Lab ID #: 57569 - 14

Cust. #: 5-4

Material: Hard Plaster - Finish Coat

Location: Chase in Day Care Rm - N. End of 1st FL

Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

Asbestos Present: **NO**

No Asbestos Observed

Chrysotile - Trace

POINT COUNT RESULT

Asbestos Present: **NO**

Asbestos Present: NO No Asbestos Observed

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ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 99.75%

Other - 100%

Other - 99.5%

Lab ID #: 57569 - 14a

Cust. #: 5-4

Material: Base Coat

Location: Chase in Day Care Rm - N. End of 1st FL

Appearance: grey,fibrous,homogenous

Layer: 2 of 2

Chrysotile - 0.25%

Asbestos Present: **NO**

POINT COUNT RESULT

Lab ID #: 57569 - 15

Cust. #: 5-5

Material: Hard Plaster - Finish Coat

Location: Storage/Mech Rm. by NE Stairs-1st FL Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

Asbestos Present: **NO**

No Asbestos Observed

Lab ID #: 57569 - 15a

Cust. #: 5-5

Material: Base Coat

Location: Storage/Mech Rm. by NE Stairs-1st FL

Appearance: grey,fibrous,homogenous

For Layered Samples, each component will be analyzed and reported separately

Layer: 2 of 2

Asbestos Present: **NO**

Chrysotile - 0.25%

POINT COUNT RESULT

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15 Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

Asbestos Present: **NO**

Chrysotile - 0.25% POINT COUNT RESULT

No Asbestos Observed

Non-Asbestos

Other - 100%

Other - 99.75%

Other - 100%

Lab ID #: 57569 - 16

Cust. #: 5-6

Material: Hard Plaster - Finish Coat

Location: Storage/Mech Rm. NE of Boiler RM E. Wall

Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 16a

Cust. #: 5-6

Material: Base Coat

Location: Storage/Mech Rm. NE of Boiler RM E. Wall Appearance: grey, fibrous, homogenous

Layer: 2 of 2

Lab ID #: 57569 - 17

Cust. #: 5-7

Material: Hard Plaster - Finish Coat

Location: Storage/Mech Rm. NE of Boiler RM S. Wall

Appearance: white, nonfibrous, homogenous

Layer: 1 of 2

Asbestos Present: NO

No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

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Date Reported: 03/11/15

Sample Information

Non-Asbestos

Other - 100%

Lab ID #: 57569 - 17a

Cust. #: 5-7

Material: Base Coat

Location: Storage/Mech Rm. NE of Boiler RM S. Wall Appearance: grey,fibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 18

Cust. #: 7-1

Material: 1x1 Glued-On CT - Sm. Holes Uneven Location: SW Corner of Soloist Rm - UL S. End Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 18a

Cust. #: 7-1

Material: Glue Pod

Location: SW Corner of Soloist Rm - UL S. End Appearance: black,nonfibrous,homogenous

Layer: 2 of 2

Asbestos Type/Percent

Asbestos Present: **NO**

Chrysotile - Trace

POINT COUNT RESULT

Asbestos Present: **NO**

No Asbestos Observed

No Asbestos Observed

Cellulose - 90%

Other - 10%

Asbestos Present: NO Other - 100%

For Layered Samples, each component will be analyzed and reported separately

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15-57569

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Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 19

Cust. #: 7-2

Material: 1x1 Glued-On CT - Sm. Holes Uneven Location: SW Corner of Soloist Rm- UL S. End Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Asbestos Present: NO

Cellulose - 90%

No Asbestos Observed

Other - 10%

Lab ID #: 57569 - 19a

Cust. #: 7-2

Material: Glue Pod

Location: SW Corner of Soloist Rm - UL S. End Appearance: black,nonfibrous,homogenous

Layer: 2 of 2

Asbestos Present: **NO**

No Asbestos Observed

Other - 100%

Lab ID #: 57569 - 20

Cust. #: 7-3

Asbestos Present: NO

Cellulose - 90%

No Asbestos Observed

Other - 10%

Material: 1x1 Glued-On CT - Sm. Holes Uneven

Location: SW Corner of Soloist Rm - UL S. End

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 57569 - 20a

Cust. #: 7-3

Material: Glue Pod

Location: SW Corner of Soloist Rm - UL S. End Appearance: black,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 21

Cust. #: 8-1

Material: 1x1 Glued-On Ceiling Tile - Gouges Location: SE End of Main Foyer - Upper Level Appearance: white, fibrous, homogenous

Asbestos Present: **NO**

No Asbestos Observed

Cellulose - 5%

Mineral Wool - 65%

Other - 30%

Other - 100%

Layer: 1 of 2

Lab ID #: 57569 - 21a

Cust. #: 8-1

Material: Glue Pod

Location: SE End of Main Foyer - Upper Level Appearance: brown,nonfibrous,homogenous

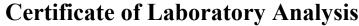
Layer: 2 of 2

Asbestos Present: NO No Asbestos Observed

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Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 22

Cust. #: 8-2

Material: 1x1 Glued-On Ceiling Tile - Gouges Location: SE End of Main Foyer - Upper Level

Appearance: white, fibrous, homogenous

Asbestos Present: NO

No Asbestos Observed

Cellulose - 5%

Mineral Wool - 60%

Layer: 1 of 2

Lab ID #: 57569 - 22a

Cust. #: 8-2

Material: Glue Pod

Location: SE End of Main Foyer - Upper Level Appearance: brown,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 23

Cust. #: 8-3

Material: 1x1 Glued-On Ceiling Tile - Gouges

Location: SE End of Main Foyer - Upper Level

Appearance: white, fibrous, homogenous

Layer: 1 of 2

Other - 35%

Other - 100%

Asbestos Present: **NO**

No Asbestos Observed

Asbestos Present: NO

Cellulose - 5%

No Asbestos Observed

Mineral Wool - 65%

Other - 30%

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.





Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 100%

Lab ID #: 57569 - 23a

Cust. #: 8-3

Material: Glue Pod

Location: SE End of Main Foyer - Upper Level Appearance: brown, nonfibrous, homogenous

Layer: 2 of 2

Asbestos Present: **NO** No Asbestos Observed

Lab ID #: 57569 - 24

Cust. #: 9-1

Material: 0-6"OD Mudded PFI on FG Straight Run PI

Location: AHU-2 Space E. of SE Stairs -Upper Level

Appearance: grey,fibrous,nonhomogenous

Layer: 1 of 1

Asbestos Present: **NO**

No Asbestos Observed

Cellulose - 10%

Mineral Wool - 20%

Other - 70%

Lab ID #: 57569 - 25

Cust. #: 9-2

Material: 0-6"OD Mudded PFI on FG Straight Run PI Location: Chase in Day Care Rm - N. End of 1st FL

Appearance: grey,fibrous,nonhomogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Cellulose - 10%

Mineral Wool - 20%

Other - 70%

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 26

Cust. #: 9-3

Material: 0-6"OD Mudded PFI on FG Straight Run PI

Location: NW End of Boiler Rm/ Hot Water Tank-1st

Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1

Lab ID #: 57569 - 27

Cust. #: 10-1

Material: >6-12"OD Mudded PF/ FG Straight Run PI

Location: SW Corner Storage/Mech NE of Boiler Rm

Appearance: grey, fibrous, homogenous

Layer: 1 of 1

Cust. #: 10-2

Material: >6-12"OD Mudded PFI/ FG Straight Run PI

Location: SW Corner of Boiler Rm by W. Door-1st FL

Appearance: grey,fibrous,homogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Cellulose - 10%

Mineral Wool - 20%

Other - 70%

Asbestos Present: **NO**

No Asbestos Observed

Mineral Wool - 25%

Other - 75%

Lab ID #: 57569 - 28

Asbestos Present:

Mineral Wool - 25%

No Asbestos Observedn%

Other - 75%

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15 Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 70%

Mineral Wool - 30%

Lab ID #: 57569 - 29

 $\frac{1}{2}$ $\frac{1}$

Cust. #: 10-3

Material: >6-12"OD Mudded PFI/ FG Straight Run PI

Location: SE Corner of Boiler Rm - 1st FL Appearance: grey,fibrous,homogenous

Layer: 1 of 1

Lab ID #: 57569 - 30

Asbestos Present: NO

No Asbestos Observed

Cellulose - 80% Other - 20%

Other - 100%

Cust. #: 11-1

Material: 1x1 Glued-On CT (Lrg Evenly Spaced Holes)

Location: N. End of Sunday School Area - 1st FL

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 30a

Asbestos Present: NO

Cust. #: 11-1

. 1 C1 D

No Asbestos Observed

Material: Glue Pod

Location: N. End of Sunday School Area - 1st FL Appearance: brown,nonfibrous,homogenous

Layer: 2 of 2

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

Asbestos Present: **NO**

No Asbestos Observed

No Asbestos Observed

Non-Asbestos

Cellulose - 80%

Other - 20%

Other - 100%

Lab ID #: 57569 - 31

Cust. #: 11-2

Material: 1x1 Glued-On CT (Lrg Evenly Spaced Holes) Location: N. End of Sunday School Area - 1st FL

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 31a

Cust. #: 11-2

Material: Glue Pod

Location: N. End of Sunday School Area - 1st FL Appearance: brown, nonfibrous, homogenous

Layer: 2 of 2

Lab ID #: 57569 - 32

Cust. #: 11-3

Asbestos Present: NO

No Asbestos Observed

Cellulose - 80% Other - 20%

Material: 1x1 Glued-On CT (Lrg Evenly Spaced Holes) Location: N. End of Sunday School Area - 1st FL

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 100%

Lab ID #: 57569 - 32a

Cust. #: 11-3

Material: Glue Pod

Location: N. End of Sunday School Area - 1st FL Appearance: brown,nonfibrous,homogenous

Layer: 2 of 2

Lab ID #: 57569 - 33

Cust. #: 11-4

Material: 1x1 Glued-On CT (Lrg Evenly Spaced Holes) Location: N. End of Sunday School Area - 1st FL

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 33a

Cust. #: 11-4

Material: Glue Pod

Location: N. End of Sunday School Area - 1st FL Appearance: brown,nonfibrous,homogenous

Layer: 2 of 2

Asbestos Present: **NO**

No Asbestos Observed

Asbestos Present: **NO**

No Asbestos Observed

Other - 20%

Other - 100%

Cellulose - 80%

Asbestos Present: NO

No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Cellulose - 80%

Lab ID #: 57569 - 34

Cust. #: 11-5

Material: 1x1 Glued-On CT (Lrg Evenly Spaced Holes) Location: N. End of Sunday School Area - 1st FL

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

Lab ID #: 57569 - 34a

Cust. #: 11-5

Material: Glue Pod

Location: N. End of Sunday School Area - 1st FL Appearance: brown, nonfibrous, homogenous

Layer: 2 of 2

Lab ID #: 57569 - 35

Cust. #: 12-1

Material: Exterior Window Glaze

Location: In Girl's Bathrm. NE of Boiler Rm-1st FL

Appearance: grey,fibrous,homogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Other - 20%

Other - 100%

Cellulose - 3%

Other - 97%

Asbestos Present: NO

Asbestos Present: NO

No Asbestos Observed

No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 36

Asbestos Present: YES

Chrysotile - 1.5%

Other - 98.5%

Cust. #: 12-2

Material: Exterior Window Glaze

Location: Front Window S.of Main Foyer Ent. Doors

Appearance: grey, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 57569 - 37

Asbestos Present: YES

POINT COUNT RESULT

POINT COUNT RESULT

Other - 98.0%

Cust. #: 13-1

Material: Exterior Caulk

Location: NW Door to Sunday School Area - 1st FL

Appearance: grey, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 57569 - 38

Asbestos Present:

Chrysotile - 2.0%

Cust. #: 13-2

Material: Exterior Caulk

NOT ANALYZED

Location: NE Day Care Window - 1st FL

Appearance:

Layer:

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Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

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Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Non-Asbestos

Other - 90%

Lab ID #: 57569 - 39

Cust. #: 14-1

Material: Sink Undercoating - Black Location: Day Care Sink - 1st FL

Appearance: black, fibrous, homogenous

Layer: 1 of 1

Lab ID #: 57569 - 40

Cust. #: 14-2

Material: Sink Undercoating - Black

Location: Day Care Sink - 1st FL

Appearance: Layer:

Asbestos Type/Percent

Asbestos Present: YES

Chrysotile - 10%

Asbestos Present:

NOT ANALYZED

Lab ID #: 57569 - 41

Asbestos Present: YES

Chrysotile - 10%

Other - 90%

Cust. #: 15-1

Material: 0-6"OD Millboard Straight Run PI

Location: Storage/Mech Rm. NE of Boiler Rm S. Ctr Appearance: brown, fibrous, nonhomogenous

Layer: 1 of 1

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 42

Cust. #: 15-2

Material: 0-6"OD Millboard Straight Run PI

NOT ANALYZED

Asbestos Present:

Location: Storage Rm Btwn Boiler/Furnace Rm S. End

Appearance: Layer: of

Lab ID #: 57569 - 43

Asbestos Present:

Cust. #: 15-3

Material: 0-6"OD Millboard Straight Run PI

NOT ANALYZED

Location: Storage Rm Btwn Boiler/Furnace Rm S. End

Appearance: Layer: of

Lab ID #: 57569 - 44

Asbestos Present: NO

Cellulose - 10%

Cust. #: 16-1

No Asbestos Observed

Mineral Wool - 20%

Material: 0-6"OD Mudded PFI/ Millboard Straight Run

Other - 70%

Location: Storage/Mech Rm. NE of Boiler Rm E. End

Appearance: grey,fibrous,nonhomogenous

Layer: 1 of 1

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 45

Asbestos Present: YES

Cellulose - 10%

Cust. #: 16-2

Chrysotile - 25%

Other - 65%

Material: 0-6"OD Mudded PFI/ Millboard Straight Run Location: SW End of Storage Rm Btwn Boiler/Furnace

Appearance: grey,fibrous,nonhomogenous

Layer: 1 of 1

Lab ID #: 57569 - 46

Asbestos Present:

Cust. #: 16-3

Material: 0-6"OD Mudded PFI/ Millboard Straight Run NOT ANALYZED

Location: SW Corner of Furnace Rm Along S. Wall

Appearance: Layer: of

Lab ID #: 57569 - 47

Asbestos Present: YES

Cellulose - 10%

Other - 50%

Cust. #: 17-1

Chrysotile - 20%

Mineral Wool - 20%

Material: Mud Btwn Cloth & Tar-Coated FG Duct Insul

Location: Duct on SW Corner of Furnace F1-b

Appearance: grey,fibrous,homogenous

Layer: 1 of 1

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15 Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 57569 - 48

Cust. #: 17-2

Material: Mud Btwn Cloth & Tar-Coated FG Duct Insul

Location: Duct on SE Corner of Furnace F2

NOT ANALYZED

Asbestos Present:

Appearance: Layer:

Lab ID #: 57569 - 49

Asbestos Present:

Cust. #: 17-3

Material: Mud Btwn Cloth & Tar-Coated FG Duct Insul

Location: Duct on SE Corner of Furnace F2

NOT ANALYZED

Appearance: Layer:

Lab ID #: 57569 - 50

Asbestos Present: NO No Asbestos Observed

Other - 100%

Cust. #: 18-1

Material: Covebase Mastic

Location: N. Closet Lrg Committee Rm UL SW End

Appearance: brown,nonfibrous,homogenous

Layer: 1 of 1

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

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Project: 191 N. Chester St. Project # 151225

Report To:

Mr. Thomas Carpenter

Performance Environmental Services, Inc.

30553 Wixom Rd., Ste. 500

Wixom, MI 48393

ARI Report # 15-57569

Date Collected: 3/5-6/2015

Date Received: 03/09/15

Date Analyzed: 03/11/15

Date Reported: 03/11/15

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

Asbestos Present: **NO**

No Asbestos Observed

No Asbestos Observed

Non-Asbestos

Other - 100%

Cellulose - 1% Other - 99%

Lab ID #: 57569 - 51

Cust. #: 18-2

Just. π. 10-2

Material: Covebase Mastic

Location: N. Closet Lrg Committee Rm UL SW End Appearance: brown,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 57569 - 52

Cust. #: 19-1

Material: Carpet Glue over Black Mastic

Location: E. End of S. Foyer Hall Btwn Doors & Stairs

Appearance: black,fibrous,nonhomogenous

Layer: 1 of 1

Lab ID #: 57569 - 53

Cust. #: 19-2

Material: Carpet Glue over Black Mastic

Location: E. End of S. Foyer Hall by Door - Upper Leve

Appearance: black, fibrous, nonhomogenous

Layer: 1 of 1

·

Asbestos Present: NO

No Asbestos Observed

Cellulose - 1%

Other - 99%

Layer. 1 of 1

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

₹ 57569

Performance

3-3

Textured paint on soft plaster

			I				
Environn	nental Services,	Inc.					
PROJECT #:	151225	CLIENT: Chester Street Partners				DATE COLLECTED:	3/5-6/15
PROJECT:	191 N Chester Street				LOCATION:	Birmingham, Ml	
TECHNICIAN 1		Thomas Carpenter	TECHNICIAN 2:			.com	
		SAMPLES RELINQUISHED BY:		DATE:		SAMPLES ACCEPTED BY:	DATE: VE
Thomas W. Car	penter Skinuty	We Conference		3/7/2015	Mul		MAR 0 9 2015
						AP	EX RESEARC
NOT	FY RESULTS VIA:	labdata@perform-env.com	TURNAROUND TIME:	48 hours		TEST HA LAYERS UNTIL POSITIVE:	Yes
HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLIN	G LOCATION	TEM VERIFY (PLM ≤ 1%)	COMMENTS/RESI	JLTS
1	1-1	$9\ensuremath{^{\circ}} \times 9\ensuremath{^{\circ}}$ Floor tile (green with black and white specks) and black mastic	South closet in large cor SW end	nmittee room - upper level			
1	1-2	9" x 9" Floor tile (green with black and white specks) and black mastic	South closet in large cor SW end	nmittee room - upper level			
2	2-1	1' x 1' Glued-on ceiling tile (medium and large holes, uneven) and dark brown glue pods	Large committee room SW end	by partition - upper level -			
2	2-2	1' x 1' Glued-on ceiling tile (medium and large holes, uneven) and dark brown glue pods	Large committee room SW end	by partition - upper level -			
2	2-3	1' x 1' Glued-on ceiling tile (medium and large holes, uneven) and dark brown glue pods	Large committee room SW end	by partition - upper level -			
2	2-4	1' x 1' Glued-on ceiling tile (medium and large holes, uneven) and dark brown glue pods	Small committee room	- upper level - SW end			
2	2-5	$1' \times 1'$ Glued-on ceiling tile (medium and large holes, uneven) and dark brown glue pods	Small committee room	- upper level - SW end			
3	3-1	Textured paint on soft plaster	SE men's bathroom - up window	oper level - east end of			
3	3-2	Textured paint on soft plaster	SE men's bathroom - up window	oper level - west end of			

PLM LABORATORY CHAIN OF CUSTODY

SE women's bathroom - upper level - by center

Performance

Environmental Services, Inc.

PLM	LABO	RATORY	CHAIN (OF C	CUST	ODY

F	ROJECT#:	151225	CLIENT: Chester Street Partners				DATE COLLECTED:	3/5-6/15
F	ROJECT:	191 N Chester Street				LOCATION:	Birmingham, MI	
1	ECHNICIAN 1:		Thomas Carpenter	TECHNICIAN 2:				out has bed him to a being how
			SAMPLES RELINQUISHED BY:		DATE:	s	AMPLES ACCEPTED BY:	TEGATE: VED
7	homas W. Carp	penter Tumus	W. Cappel		3/7/2015	Mil	2	MAR 0 9 2015 9:30
							AF	EX RESEARCH
	NOTIF	Y RESULTS VIA:	labdata@perform-env.com	TURNAROUND TIME:	48 hours		TEST HA LAYERS UNTIL POSITIVE:	Yes
	HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLIN	IG LOCATION	TEM VERIFY (PLM ≤ 1%)	COMMENTS/RES	ULTS
	5	5-1	Hard plaster	East wall of balcony of auditorium				
1	5	5-2	Hard plaster	Attic organ space above stage of auditorium - east wall				
2	5	5-3	Hard plaster	Attic organ space above stage of auditorium - north wall				
1	5	5-4	Hard plaster	Chase in day care room	- north end of 1st floor			
5	5	5-5	Hard plaster	Storage/mechanical roo	om by NE stairs - 1st floor			
	5	5-6	Hard plaster	Storage/mechanical roo floor - east wall	om NE of boiler room - 1st			
7	5	5-7	Hard plaster	Storage/mechanical roo floor - south wall	om NE of boiler room - 1st			
3	7	7-1	$1^{\prime} \times 1^{\prime}$ Glued-on ceiling tile (small holes, uneven) and black glue pods	SW corner of soloist ro	om - upper level - south end			
	7	7-2	1' x 1' Glued-on ceiling tile (small holes, uneven) and black glue pods	SW corner of soloist ro	om - upper level - south end			
	7	7-3	$1^{\circ} \times 1^{\circ}$ Glued-on ceiling tile (small holes, uneven) and black glue pods	SW corner of soloist ro	om - upper level - south end			

Performance

Environmental Services, Inc.

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	PROJECT #:	151225	CLIENT: Chester Street Partners				DATE COLLECTED: 3	5/5-6/15
	PROJECT:	191 N Chester Street				LOCATION:	Birmingham, MI	
	TECHNICIAN 1:		Thomas Carpenter	TECHNICIAN 2:) EACH / ET
			SAMPLES RELINQUISHED BY:		DATE:	S	AMPLES ACCEPTED BY:	DATE:
	Thomas W. Car	penter Mulau	The Caspirot		3/7/2015	Sink		MAR 0 9 2015 4;
			Viv. Carpens				AP	EX RESEARCH
	NOTI	FY RESULTS VIA:	labdata@perform-env.com	TURNAROUND TIME:	48 hours		TEST HA LAYERS UNTIL POSITIVE:	Yes
	HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLIN	IG LOCATION	TEM VERIFY (PLM ≤ 1%)	COMMENTS/RESU	JLTS
21	8	8-1	1' x 1' Glued-on ceiling tile (gouges) and dark brown glue pods	SE end of main foyer - u	pper level			
22	8	8-2	1' x 1' Glued-on ceiling tile (gouges) and dark brown glue pods	SE end of main foyer - u	pper level			
23	8	8-3	1' x 1' Glued-on ceiling tile (gouges) and dark brown glue pods	SE end of main foyer - u	pper level			
24	9	9-1	0"-6" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation	AHU-2 space east of SE	stairs - upper level			
25	9	9-2	0"-6" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation	Chase in day care room	- north end of 1st floor			
26	9	9-3	0"-6" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation	NW end of boiler room floor	by hot water tank - 1st			
27	10	10-1	> 6"-12" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation	SW corner of storage/n boiler room - 1st floor	nechanical room NE of			
28	10	10-2	> 6"-12" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation	SW corner of boiler roo	m by west door - 1st floor			
29	10	10-3	> 6"-12" O.D. Mudded pipe fitting insulation on fiberglass straight run pipe insulation	SE corner of boiler roor	n - 1st floor			
30	11	11-1	1' x 1' Glued-on ceiling tile (large, evenly spaced holes) and brown glue pods	North end of Sunday so	chool area - 1st floor			

Performance

Environmental Services, Inc.

PLM LABORATORY CHAIN OF CUSTODY

	PROJECT #:	151225	CLIENT: Chester Street Partners			,	DATE COLLECTED: 3	5/5-6/15	
	PROJECT:	191 N Chester Street				LOCATION:	Birmingham, MI		-
	TECHNICIAN 1:		Thomas Carpenter	TECHNICIAN 2:					-
			SAMPLES RELINQUISHED BY:		DATE:	S	AMPLES ACCEPTED BY:	DATE:	ED
	Thomas W. Carp	penter July	yeth Cupul		3/7/2015	Auch		MAR 0 9 2	0157,30
			,					DEVOCA	DVL
	NOTIF	Y RESULTS VIA:	labdata@perform-env.com	TURNAROUND TIME:	48 hours		TEST HA LAYERS UNTIL POSITIVE:	Yes	
	HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLIN	IG LOCATION	TEM VERIFY (PLM ≤ 1%)	COMMENTS/RESU	JLTS	
31	11	11-2	1' x 1' Glued-on ceiling tile (large, evenly spaced holes) and brown glue pods	North end of Sunday sc	hool area - 1st floor				
32	11	11-3	1' x 1' Glued-on ceiling tile (large, evenly spaced holes) and brown glue pods	North end of Sunday school area - 1st floor					
33	11	11-4	$1' \times 1'$ Glued-on ceiling tile (large, evenly spaced holes) and brown glue pods	North end of Sunday school area - 1st floor					
34	11	11-5	1' x 1' Glued-on ceiling tile (large, evenly spaced holes) and brown glue pods	North end of Sunday so	hool area - 1st floor				
35	12	12-1	Exterior window glaze	Window in girl's bathro floor	om NE of boiler room - 1st				
36	12	12-2	Exterior window glaze	Front window south of upper level	main foyer entrance doors -				
37	13	13-1	Exterior caulk	NW door to Sunday sch	ool area - 1st floor				
38	13	13-2	Exterior caulk	NE day care window - 1	st floor				
39	14	14-1	Sink undercoating (black)	Day care sink - 1st floor					
40	14	14-2	Sink undercoating (black)	Day care sink - 1st floor	-				

Performance

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E	nvironm	nental Services,	Inc.					
PR	OJECT #:	151225	CLIENT: Chester Street Partners				DATE COLLECTED:	3/5-6/15
PR	OJECT:	191 N Chester Street				LOCATION:	Birmingham, MI	
TE	CHNICIAN 1:		Thomas Carpenter	TECHNICIAN 2:				
			SAMPLES RELINQUISHED BY:		DATE:		SAMPLES ACCEPTED BY:	DATE: V
Th	omas W. Carı	penter Thoma	& We Cuptul		3/7/2015	Mule		MAR 0 9 2
							4	PEX RESEA
	NOTIF	Y RESULTS VIA:	labdata@perform-env.com	TURNAROUND TIME:	48 hours		TEST HA LAYERS UNTIL POSITIVE:	Yes
	HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLIN	G LOCATION	TEM VERIFY (PLM ≤ 1%)	COMMENTS/RES	ULTS
	15	15-1	0"-6" O.D. Millboard straight run pipe insulation	Storage/mechanical roo floor - south center	m NE of boiler room - 1st			
	15	15-2	0"-6" O.D. Millboard straight run pipe insulation	Storage room between south end - 1st floor	boiler and furnace rooms -			
3	15	15-3	0"-6" O.D. Millboard straight run pipe insulation	Storage room between south end - 1st floor	boiler and furnace rooms -			
	16	16-1	0"-6" O.D. Mudded pipe fitting insulation on Millboard straight run pipe insulation	Storage/mechanical roo floor - east end	om NE of boiler room - 1st			
	16	16-2	0"-6" O.D. Mudded pipe fitting insulation on Millboard straight run pipe insulation	SW end of storage roon furnace rooms near we				
	16	16-3	0"-6" O.D. Mudded pipe fitting insulation on Millboard straight run pipe insulation	SW corner of furnace ro	oom along south wall			
	17	17-1	Mud between cloth and tar-coated fiberglass duct insulation	Duct on SW corner of fu - 1st floor	urnace F1-b in furnace room			
	17	17-2	Mud between cloth and tar-coated fiberglass duct insulation	Duct on SE corner of fu 1st floor	rnace F2 in furnace room -			
	17	17-3	Mud between cloth and tar-coated fiberglass duct insulation	Duct on SE corner of fu 1st floor	rnace F2 in furnace room -			
	18	18-1	Covebase mastic (brown)	North closet in large co	mmittee room - upper level			

PLM LABORATORY CHAIN OF CUSTODY

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Performance

Environmental Services, Inc.

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PROJECT #:	151225	CLIENT: Chester Street Partners				DATE COLLECTED: 3	/5-6/15	-
PROJECT:	191 N Chester Street				LOCATION:	Birmingham, MI		-
TECHNICIAN 1:		Thomas Carpenter	TECHNICIAN 2:			collina and		-
٠.		SAMPLES RELINQUISHED BY:		DATE:	s	AMPLES ACCEPTED BY:	C DATE:	
Thomas W. Car	penter MSM	the Compile		3/7/2015	Aunk	M	AR 0 9 2015	9,30
	<u> </u>	July Cs y				APE	X RESEARC	k .
NOTI	FY RESULTS VIA:	labdata@perform-env.com	TURNAROUND TIME:	48 hours		TEST HA LAYERS UNTIL POSITIVE:	Yes	
HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLIN	NG LOCATION	TEM VERIFY (PLM ≤ 1%)	COMMENTS/RESU	JLTS	
18	18-2	Covebase mastic (brown)	North closet in large co SW end	mmittee room - upper level				
19	19-1	Carpet glue (yellow) over black mastic	East end of south foyer stairs to main foyer - up	hallway between doors and oper level				
19	19-2	Carpet glue (yellow) over black mastic	East end of south foyer level	hallway by door - upper				