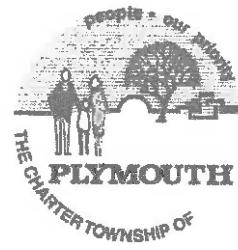


# **CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES REGULAR MEETING**

Tuesday, December 14, 2021  
7:00 PM



**CALL TO ORDER AT \_\_\_\_\_ P.M.**

**A. ROLL CALL:** Kurt Heise\_\_\_\_\_, Mark Clinton\_\_\_\_\_, Chuck Curni\_\_\_\_\_,  
Bob Doroshevitz\_\_\_\_\_, Jerry Vorva\_\_\_\_\_, Audrey Monaghan\_\_\_\_\_,  
John Stewart\_\_\_\_\_

## **B. PLEDGE OF ALLEGIANCE**

## **C. APPROVAL OF AGENDA**

Tuesday, December 14, 2021

## **D. APPROVAL OF CONSENT AGENDA**

### **D.1 Approval of Minutes:**

- a) Special Meeting – Tuesday, November 16, 2021

### **D.2 Acceptance of Reports**

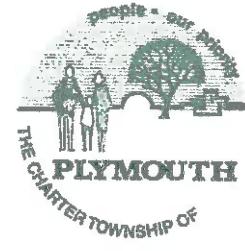
- Building Department Monthly Report - November 2021
- Fire Department Monthly Report - November 2021
- Planning Department Monthly Report - November 2021
- Police Department Monthly Report - November 2021
- FOIA Monthly Report - Clerk's Office - November 2021
- FOIA Monthly Report - Police Department - November 2021

### **D.3 Approval of Township Bills:**

FUND	ACCT	ALREADY PAID	TO BE PAID	TOTAL:
General Fund	101	1,229,645.85	361,666.85	1,591,312.70
Drug Forfeiture Federal	262	.00	795.00	795.00

# CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES REGULAR MEETING

Tuesday, December 14, 2021  
7:00 PM



Drug Forfeiture State	<b>265</b>	<b>.00</b>	<b>.00</b>	<b>.00</b>
Drug Forfeiture IRS	<b>266</b>	<b>.00</b>	<b>.00</b>	<b>.00</b>
Improvement Revolving (Capital)	<b>446</b>	<b>.00</b>	<b>.00</b>	<b>.00</b>
Senior Transportation	<b>588</b>	<b>5,989.47</b>	<b>126.99</b>	<b>6,116.46</b>
Water/Sewer Fund	<b>592</b>	<b>105,579.41</b>	<b>474,420.59</b>	<b>580,000.00</b>
Solid Waste Fund	<b>596</b>	<b>5,402.39</b>	<b>258,918.82</b>	<b>264,321.21</b>
Tax Pool	<b>703</b>	<b>7,410.87</b>	<b>.00</b>	<b>7,410.87</b>
Police Bond Fund	<b>710</b>	<b>3,999.00</b>	<b>.00</b>	<b>3,999.00</b>
Special Assessment Capital	<b>805</b>	<b>.00</b>	<b>9,326.00</b>	<b>9,326.00</b>
<b>TOTALS:</b>		<b>1,358,026.99</b>	<b>1,105,264.25</b>	<b>2,463,281.24</b>

## E. PUBLIC COMMENT (*Limited to 3 Minutes*)

## F. NEW BUSINESS

- Planned Unit Development (PUD) Option Consideration for the Hillside Overlook Apartments (Courthouse Grill Site), **Resolution # 2021-12-14-77**, Supervisor Kurt Heise and Planning Director Laura Haw  
*(full plans available for viewing at Township Hall Planning Dept., or online at [https://www.plymouthtwp.org/government/departments/community\\_development/current\\_projects.php](https://www.plymouthtwp.org/government/departments/community_development/current_projects.php))*

# **CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES REGULAR MEETING**

Tuesday, December 14, 2021  
7:00 PM



2. Extension of Purchase Agreement for Surplus Lands at DPW Yard,  
**Resolution # 2021-12-14-78, Supervisor Kurt Heise**
3. Trash Collection Fee Adjustment for 2022, **Resolution # 2021-12-14-79, Supervisor Kurt Heise and Finance Director Ginger Moriarty**
4. Brief update on 2021 Goals List, *Supervisor Kurt Heise*
5. Salary Adjustments for Deputy Clerk and Deputy Treasurer,  
**Resolution # 2021-12-14-80, Supervisor Kurt Heise and Clerk Jerry Vorva**
6. Salary Adjustments for Elected Officials, **Resolution # 2021-12-14-81, Supervisor Kurt Heise**

## **G. PUBLIC COMMENT (*Limited to 3 Minutes*)**

## **H. BOARD COMMENTS**

## **I. ADJOURNMENT**

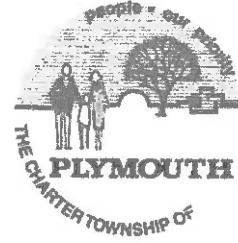
**PLEASE TAKE NOTE:** The Charter Township of Plymouth will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at all Township Meetings, to individuals with disabilities at the Meetings/Hearings upon two weeks' notice to the Charter Township of Plymouth by writing or calling the following: Human Resource Office, 9955 N Haggerty Road, Plymouth, MI 48170. Phone number (734) 354-3202 TDD units: 1-800649-3777 (Michigan Relay Services)

**The public is invited and encouraged to attend all meetings of the Board of Trustees of the Charter Township of Plymouth**

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES SPECIAL MEETING**

**PROPOSED MINUTES**

Tuesday, November 16, 2021  
7:00 PM



**CALL TO ORDER AT 7:00 P.M.**

- A. ROLL CALL:** PRESENT: Kurt Heise, Supervisor  
Jerry Vorva, Clerk,  
Chuck Curmi, Trustee  
Bob Doroshevitz, Trustee  
John Stewart, Trustee  
**VIRTUAL:** Audrey Monaghan, Trustee  
(Plymouth Township, Wayne County)  
**EXCUSED:** Mark Clinton, Treasurer
- ALSO PRESENT:** Dan Phillips, Fire Chief  
Thomas Tiderington, Police Chief  
Dan Kudra, Police Lieutenant  
Kevin Bennett, Township Attorney  
Ginger Moriarty, Director of Finance  
Denisa Terrell, Recording Secretary  
5 Members of the Public

**B. PLEDGE OF ALLEGIANCE** Trustee Curmi

**C. APPROVAL OF AGENDA**

Tuesday, November 16, 2021

Moved by Clerk Vorva and supported by Trustee Doroshevitz to approve the agenda for the Tuesday, November 16, 2021 Board of Trustees special meeting.  
All Ayes.

**D. APPROVAL OF CONSENT AGENDA**

**D.1 Approval of Minutes:** Regular Meeting, Tuesday, October 9, 2021

**D.2 Approval of Township Bills:**

FUND	ACCT	ALREADY PAID	TO BE PAID	TOTAL:
General Fund	101	417,081.28	73,360.72	490,442.00

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES SPECIAL MEETING**

Tuesday, November 16, 2021  
7:00 PM  
PROPOSED MINUTES

Drug Forfeiture Federal	<b>262</b>	.00	00	00
Drug Forfeiture State	<b>265</b>	.00	.00	.00
Drug Forfeiture IRS	<b>266</b>	.00	.00	.00
Improvement Revolving (Capital)	<b>446</b>	.00	.00	.00
Senior Transportation	<b>588</b>	<b>3,149.92</b>	<b>2,370.07</b>	<b>5,519.99</b>
Water/Sewer Fund	<b>592</b>	<b>378,323.93</b>	<b>1,343,028.29</b>	<b>1,721,352.22</b>
Solid Waste Fund	<b>596</b>	<b>2,816.70</b>	.00	<b>2,816.70</b>
Tax Pool	<b>703</b>	<b>4,030.72</b>	00	<b>4,030.72</b>
Police Bond Fund	<b>710</b>	00	.00	.00
Special Assessment Capital	<b>805</b>	.00	<b>14,743.00</b>	<b>14,743.00</b>
<b>TOTALS:</b>		<b>805,402.55</b>	<b>1,433,502.00</b>	<b>2,238,904.63</b>

Moved by Clerk Vorva and supported by Trustee Doroshewitz to approve the consent agenda for the Tuesday, November 16, 2021 Board of Trustees special meeting.  
All Ayes.

**E. PUBLIC COMMENT (*Limited to 3 Minutes*)**

**F. NEW BUSINESS**

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES SPECIAL MEETING**

Tuesday, November 16, 2021  
7:00 PM  
PROPOSED MINUTES

**1. Selection of Firm for Township Auditing Services, *Supervisor Kurt Heise***

The Board of Trustees along with the Director of Finance designated Yeo & Yeo as the auditing firm for the Township.

Moved by Vorva and supported by Doroshevitz that the Board of Trustees approve an agreement with Yeo & Yeo to provide Township Auditing Services and authorize the Supervisor and Clerk to sign any required documentation subject to final review and approval by the Township Attorney.

All Ayes.

**2. Public Hearing for Industrial District Designation (IDD) for "Ridge/5" Property, *Supervisor Kurt Heise and Clerk Jerry Vorva***

Moved by Clerk Vorva and supported by Trustee Curmi to open the Public Hearing at 7:22 p.m.

Roll Call Vote.

All Ayes.

Motioned Carried.

Supervisor Heise advised Ridge 5 was owned by the Township. It is now managed by Hillside Development. The creation of the IDD will incentivize development on the site. The Board of Trustees could approve a six-year tax abatement with the establishment of the IDD.

No public comment.

Moved by Clerk Vorva and supported by Trustee Monaghan to close the Public Hearing at 7:26 p.m.

Roll Call Vote.

All Ayes.

Motion Carried.

**3. Creation of Industrial Development District (IDD) for "Ridge/5" Property, *Resolution #2021-11-16-75, Supervisor Kurt Heise and Clerk Jerry Vorva***

Moved by Clerk Vorva and supported by Trustee Curmi Resolution #2021-11-16-75 to formally create an Industrial Development District pursuant to the provisions of PA 198

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES SPECIAL MEETING**

Tuesday, November 16, 2021  
7:00 PM  
PROPOSED MINUTES

of 1974, as amended, for the site described therein, commonly referred to as the Ridge 5 Development project.

Roll Call Vote.

All Ayes.

4. Renewal of three-year contract with Mayflower Towing, **Resolution #2021-11-16-76, Township Police Lieutenant Daniel Kudra**

Lt. Kudra presented information on Mayflower Towing based in Plymouth Township. He provided an overview of towing rates, comparisons of the cost of other tow companies, and recommended a three-year contract for Mayflower Towing.

Moved by Clerk Vorva and supported by Trustee Monaghan to approve Resolution #2021-11-16-76 to adopt the revised fee schedule and renew the contract for towing services for the Charter Township of Plymouth with Mayflower Towing for another three years.

All Ayes.

5. Acknowledgement of State Brownfield Loan for Courthouse Grille Apartment Project, *Supervisor Kurt Heise and Township Planner Laura Haw*

Supervisor Heise advised the redevelopment of the Courthouse Grille Planned Unit Development (PUD) consists of a Brownfield Plan. As part of the project proposal process of obtaining a grant and loan from Environment, Great Lakes, and Energy, it is necessary to obtain support and acknowledgment from the local governing Township to move forward. The Township is not approving the grant. If the grant is approved it would benefit the Township.

Moved by Trustee Doroshewitz and supported Trustee Monaghan to approve and support the initiation of EGLE's Brownfield Redevelopment Grant and Loan Program by District Capital Detroit for the Courthouse Grille PUD.

All Ayes.

**G. PUBLIC COMMENT (*Limited to 3 Minutes*)**

Steven Birmingham gave three points of opposition to the Court House Grille Project including environmental impact, the quality of life of the area, and upsetting the balance of nature and the convenience of the city.

**H. BOARD COMMENTS**

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES SPECIAL MEETING**

Tuesday, November 16, 2021

7:00 PM

**PROPOSED MINUTES**

- Supervisor Heise advised the next meeting for the Board of Trustees is December 14, 2021.
- Trustee Stewart thanked Mr. Birmingham for his comments.
- Trustee Curmi requested debriefing on what the Township is doing to protect from ransomware security issues. He asked for information on the dog park pilot. He also asked for documentation from a building official on Green Meadows grading enforcement.

**I. CLOSED SESSION**

Moved by Supervisor Heise and supported by Clerk Vorva at 7:54 p.m. that a Closed Session be called for the purpose of an Attorney consultation on specific pending litigation (Lakos v. Plymouth Township) and settlement strategy in accordance with the Michigan Open Meetings Act, Section 8(e), MCL 15.268(8).

**J. RETURN TO OPEN SESSION**

Moved by Trustee Stewart and supported by Trustee Doroshewitz that the Board return to Open Session at 8:35 p.m.

**K. ADJOURNMENT**

Moved by Clerk Vorva and seconded by Trustee Curmi to adjourn the Board of Trustees meeting at 8:38 p.m. Ayes all.

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## **CHARTER TOWNSHIP OF PLYMOUTH**

### **DEPARTMENT OF BUILDING & CODE ENFORCEMENT**



#### **MONTHLY REPORT**

**November  
2021**

## New Commercial Building for 2021

Company Name	Property Address	Type of Work	Construction Value	Status	Month
HFHS Out Lot A	40815 Ann Arbor RD	Shell/foundation	987,500	Issued	January
Stow & Go Self Storage	9270 General Dr.	New Build	2,475,900	Issued	February
EZ Storage	14415 Sheldon	New Build	9,070,754	Issued	March
Quick Pass Car Wash	39550 Ann Arbor Rd.	New Build	900,000	Issued	September
Total Construction Value			13,434,154		

## New Commercial Additions/Alterations for 2021

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Adient	49200 Halyard	Interior remodel	262,000	Issued	January
VIP Smoke Shop	47311 5 Mile RD	Tenant finish	10,000	Issued	January
K & D Investments	985 Ann Arbor RD	White box	9,000	Issued	January
The Garage Cuts & Coffee	40800 Ann Arbor TR	Tenant finish	30,000	Issued	January
Euro Stars	15155 Fogg ST	Gym Pits	8,000	Issued	January
Hidden Spirits	47019 5 Mile Rd.	Tenant Improvement	15,000	Issued	February
All American Gutter	47011 5 Mile Rd.	Tenant Finish	15,000	Issued	February
SME	43980 Plymouth Oaks Blvd.	Interior Renovation	3,000,000	Issued	February
Panera Bread	47411 Five Mile Rd.	Tenant Finish	701,000	Issued	March
Burroughs (Robo Tire)	41100 Plymouth Rd. B1 320	Tenant Finish	6,000	Issued	March
Burroughs (Symmetri)	41100 Plymouth Rd. B1 310	Tenant Finish	40,000	Issued	March
Adient	49200 Halyard Dr.	Bathroom Remodel	600,000	Issued	March
Stow & Go	41999 Ann Arbor Rd.	Interior Remodel	105,000	Issued	March
Burroughs (141, 150, 160, 170)	41100 Plymouth RD B2 140	Interior Remodel	70,000	Issued	April
Adient	49200 Halyard	Phase III (Foyer)	2,000,000	Issued	April
Ivy Rehab	47635 5 Mile RD	Tenant finish	80,000	Issued	April
Zuko Orthodontics	49477 Ann Arbor RD	Tenant finish	212,500	Issued	April
St. John's Monastery	44045 5 Mile RD	Atrium (HVAC remodel)	100,000	Issued	April
Adient	49200 Halyard	Lab Phase 21.2	1,800,000	Issued	April
Eotech	46900 Port	Tenant finish Phase I	675,000	Issued	April
MJ Cabinet	541 Ann Arbor Rd	Tenant finish	5,000	Issued	April
Burroughs (Robo Tire)	41100 Plymouth RD B1 370	Tenant finish	55,000	Issued	April
Farrow Realty	45657 Port St.	High Rack Storage	21,344	Issued	May

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Phoenix Mill	15000 Edward Hines Dr.	Tenant Finish	1,025,000	Issued	May
Amazon	9075 Haggerty	Warehouse	8,177,691	Issued	May
Roman Foods LLC.	9115 General Ct.	Interior Remodel	12,000	Issued	May
Titanium	14555 Jlb St.	High Rack Storage	30,000	Issued	May
Titanium	14555 Jlb St.	Interior Alteration	8,700	Issued	May
Adient	49200 Haalyard	Interior Renovation 21.3	1,800,000	Issued	June
TGR Tech Center	47200 Port St.	Replace Sidewalks	9,600	Issued	June
Bank of Ann Arbor	1333 Ann Arbor Rd.	Parking Lot & Landscaping	17,000	Issued	June
Amazon	9075 Haggerty	Addition Phase II	2,100,000	Issued	June
Ilmor Engineering Inc.	43939 Plymouth Oaks Blvd.	Parking Lot Expansion	421,000	Issued	June
Suburban	40475 Ann Arbor Rd.	Phase II Interior Finish	415,000	Issued	June
Eotech	46900 Port St.	Interior Remodel Phase II	200,000	Issued	June
Suburban	40475 Ann Arbor Rd.	Phase II (Bathrooms)	415,000	Issued	July
Amazon	9075 Haggerty	Phase II (Conveyor Equipment)	16,800,000	Issued	July
Comcast Corp	41112 Concept Dr.	Bathroom Renovation (10)	469,780	Issued	July
Advanced Family Dentistry	44644 Ann Arbor Rd.	1,000 Sq. Ft. Expansion	65,000	Issued	August
Webasto	14200 Haggerty Rd.	Mezzanine & Bathroom	1,500,000	Issued	August
Burroughs (Stellar Rod & Design)	41100 Plymouth Rd. B2 150	Tenant Finish	25,000	Issued	August
Optimeyes	40895 Ann Arbor Rd.	Tenant Finish	108,000	Issued	September
Michigan Life Science & Innovation	46701 Commerce Center Dr.	Parking Lot Renovation	189,995	Issued	September
Chipotle	40815 Ann Arbor Rd.	Demising Wall	80,740	Issued	September
Pure Sleep	41504 Ann Arbor Rd.	2 White Boxes	60,000	Issued	October
Sr. John's Inn Monastery	44045 Five Miled Rd.	Atrium Renovation	200,000	Issued	October
Smoker Depot	41628 Ann Arbor Rd.	Tenant Finish	30,000	Issued	October
JP Holdings	47015 Five Mile Rd.	Tenant Finish	15,000	Issued	October
Chipotle	40815 Ann Arbor Rd.	Tenant Finish	400,000	Issued	October
Red Olive Banquet Room	1059 Ann Arbor Rd.	Interior Remodel	30,000	Issued	October
Metro Opportunities	45000 Helm	Phase II Tenant Finish	1,000,000	Issued	October
St. Kenneth Church	14951 Haggerty	Remodel Social Hall	618,760	Issued	October
SEMA	14655 Jlb	Tenant Finish	1,200,000	Issued	November
Mumbafo Market	1472 Sheldon	Tenant Remodel	4,500	Issued	November
Nu-Step	47700 Halyard Rd.	Interior Remodel Phase II	32,270	Issued	November
<b>Total Construction Value</b>			<b>47,279,880</b>		
<b>Grand Total Construction Value</b>			<b>60,714,034</b>		

\* Operating on COVID-19 orders

## Building Department 2021

<u>Classification</u>	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	2021 Totals
<b>Total Building Permits</b>	72	59	126	144	118	136	124	129	83	93	81		1165
<b>Trade Permits</b>													
Electrical	41	34	42	45	36	64	40	41	50	56	46		497
Mechanical	58	47	67	53	63	80	81	72	63	73	60		697
Plumbing	26	18	28	31	23	22	33	26	28	24	25		284
Sewer & Water	6	7	3	14	2	15	12	8	9	10	8		94
<b>Total Trade Permits</b>	203	165	286	287	244	317	270	276	233	256	220	0	2737
<b>Miscellaneous</b>													
Special Inspections	0	0	0	0	0	0	0	0	0	0	0		0
Temp Certificate of Occupancy	2	1	4	1	0	3	4	1	0	4	3		23
Re-Occupancy	0	1	0	2	2	1	0	1	1	2	1		11
Plan Review	9	2	12	18	8	19	17	18	9	13	7		132
ZBA	0	3	1	4	3	2	3	2	5	0	0		23
Re-inspection fees	8	1	8	8	3	3	5	4	4	4	4		52
Vacant Land Registration	0	0	0	0	0	0	0	0	0	0	0		0
<b>Total Miscellaneous</b>	19	8	26	33	16	28	28	26	19	23	16	0	241
<b>Application Fee's</b>													
Building	62	48	114	129	105	123	105	122	74	77	76		1035
Electrical	46	39	35	52	42	63	39	44	54	63	51		528
Mechanical	65	46	64	54	62	85	66	71	65	74	61		713
Plumbing	28	17	25	35	29	18	32	25	29	26	23		287
<b>Total Misc/License/Application</b>	220	158	263	303	264	317	271	288	241	263	226	0	2604
<b>Grand Total</b>	423	323	529	590	496	634	541	584	474	519	446	0	5541
<b>Staffing Levels</b>													
Chief Building Official	1	1	1	1	1	1	1	1	1	1	1		1
Full Time Building Inspector	1	1	1	1	2	1	1	1	1	1	1		1
Full Time Building Coordinator	1	1	1	1	1	1	1	1	1	1	1		1
Full Time Building Administrator	1	1	1	1	1	1	1	1	1	1	1		1
Part-time Time Ordinance Officer	1	1	1	1	1	1	1	1	1	1	1		1

## Residential Housing 2021

### Single Family Detached

	Total # Buildings	Total # Dwelling	Total Value Construction	Total Square Feet
January	1	1	490,418	3,706
February	0	0	-	-
March	0	0	-	-
April	5	5	1,623,730	12,150
May	1	1	366,100	2,541
June	4	4	1,453,824	10,995
July	5	5	1,875,393	14,128
August	0	0	-	-
September	1	1	319,978	2,217
October	2	2	573,810	4,296
November	1	1	245,000	2,235
December				
<b>Totals</b>	<b>20</b>	<b>20</b>	<b>\$ 6,948,253</b>	<b>52,268</b>

### Single Family Attached (Townhouses/ Row Houses)

	Total # Buildings	Total # Dwelling	Total Value Construction	Total Square Feet
January	0	0	-	-
February	0	0	-	-
March	0	0	-	-
April	0	0	-	-
May	0	0	-	-
June	0	0	-	-
July	0	0	-	-
August	0	0	-	-
September	0	0	-	-
October	0	0	-	-
November	0	0	-	-
December	0	0	-	-
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>-</b>

### Two-Family Buildings (Duplex)

	Total # Buildings	Total # Dwelling	Total Value Construction	Total Square Feet
January	0	0	-	-
February	0	0	-	-
March	0	0	-	-
April	0	0	-	-
May	0	0	-	-
June	0	0	-	-
July	0	0	-	-
August	0	0	-	-
September	0	0	-	-
October	0	0	-	-
November	0	0	-	-
December	0	0	-	-
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>-</b>

### Three-or-more Family Building (Apartments/Stacked Condos)

	Total # Buildings	Total # Dwelling	Total Value Construction	Total Square Feet
January	0	0	-	-
February	0	0	-	-
March	0	0	-	-
April	0	0	-	-
May	0	0	-	-
June	0	0	-	-
July	0	0	-	-
August	0	0	-	-
September	0	0	-	-
October	0	0	-	-
November	0	0	-	-
December	0	0	-	-
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>-</b>

Total #      Total #      Value      Square  
 Buildings   Dwelling   Construction   Feet

**Totals all categories**      **20**      **20**      **\$ 6,948,253**      **52,268**

Plymouth Township, Michigan  
DODGE REPORT  
RESIDENTIAL BUILDING PERMIT  
ISSUANCE REPORT  
Plymouth Township

*November 2021*

**Building**

Date Issued	Parcel Address	Category	Contractor Information	Const. Value
11/08/21 PB21-1034	8890 NORTHERN	b. Single-family, attached and detache	Joss Construction LLC. 4902 Dewitt Rd. STE. 101 Canton MI 48188 (734) 812 6238	\$245,000



## Revenue Breakdown Report

Page: 1 of 31

12/02/2021

Filter: All Records, Transaction.DateToPostOn in <Previous month> [11/01/21 - 11/30/21] AND  
Transaction.TransactionNumber Not = 67,079 AND  
Transaction.TransactionNumber Not = 67,078

### Unit Totals

Unit Name	Records	Revenue
	220	118,313.42
<b>TOTAL</b>	<b>220</b>	<b>118,313.42</b>

### Record Type Totals

Unit	Records	Revenue
Permit	220	118,313.42
<b>UNIT TOTAL:</b>	<b>220</b>	<b>118,313.42</b>

### Record Type Breakdowns

Unit	Record Type	Records	Revenue
	Permit		
Building		81	73,947.00
Electrical		46	18,453.00
Mechanical		60	9,977.00
Plumbing		25	5,644.00
Sewer & Water		8	10,292.42
<b>TOTAL:</b>		<b>220</b>	<b>118,313.42</b>

108,021.00

### Record Categories By Type

Unit	Type	Building	
	Permit		
Basement Finish		3	1,380.00
Deck		7	2,335.00
Demolition - house		1	265.00
Demolition - other		1	280.00
Fence		3	585.00
Ind/Comm-alt/add		4	50,985.00
Ind/Comm-new		2	1,400.00
Mobile Home		3	855.00
Parking Lot		1	970.00
Re-Occupancy		1	140.00
Residential-alt/add		6	1,425.00
Residential-new		1	4,682.00
Roof		22	4,125.00
Sign - Flagpole		4	535.00
Windows/Siding		22	3,985.00
<b>TOTAL:</b>		<b>81</b>	<b>73,947.00</b>

Permit	Type	Electrical
Electrical		42
Fire Alarm		4
<b>TOTAL:</b>		<b>46</b>
		<b>18,453.00</b>

Permit	Type	Mechanical
Fire Suppression		3
Gas Piping		9
Heating		46
Pre-fab		2
<b>TOTAL:</b>		<b>60</b>
		<b>9,977.00</b>

## Certificate of Occupancy List

12/02/2021

1/1

CofO Number	Status	Issued To	Address	CofO and Permit Dates	
OF21-0068 <u>Permit Number</u> PB18-1004	ISSUED (FINAL)	Tuscany Reserve <u>Applicant Name</u> M/I Homes of Michigan LLC	11909 Tuscany CT <u>Contractor</u> M/I Homes of Michigan LLC	<u>CO Date Apply:</u> 11/05/2021	<u>CO Date Finaled:</u> 11/05/2021
OF21-0069 <u>Permit Number</u> PB21-0940	ISSUED (FINAL)	Andover Business Park (Phase I) <u>Applicant Name</u> Hillside Investments	47015 5 Mile RD <u>Contractor</u> Hillside Investments	<u>CO Date Apply:</u> 11/18/2021	<u>CO Date Finaled:</u> 11/18/2021
OF21-0070 <u>Permit Number</u> PB21-0144	ISSUED (FINAL)	ADIENT US LLC <u>Applicant Name</u> RONNISCH CONSTRUCTION CO	49200 HALYARD DR (CTU) <u>Contractor</u> RONNISCH CONSTRUCTI	<u>CO Date Apply:</u> 11/05/2021 <u>Permit Date Apply:</u> 10/04/2021 <u>Permit Date Apply:</u> 03/11/2021	<u>CO Date Finaled:</u> 11/05/2021 <u>Permit Date Issued:</u> 0/14/2021 <u>Permit Date Issued:</u> 4/26/2021

All Records  
Co.DateFinaled in <Previous month> [11/01/21 - 11/30/21]

Number of CofO's: 3



# Plymouth Township Fire Department

## Monthly Report

November 2021

### Response Information:

The Plymouth Township Fire Department responded to 311 emergencies this month.

There was an average of 10.36 runs per day this month.

PTFD's average response time was 5 min 10 sec to the scene. This includes all responses including non-emergent.

### Mutual Aid:

Plymouth Township Fire Department is a member of the Western Wayne County Mutual Aid Association.

	Mutual Aid Received	Mutual Aid Given
Canton Township	0	4
HMRT	0	1
Northville City	4	0
Northville Township	5	3

### Fire Loss:

There were 6 fires this month that accounted for 240,600.00 worth of damage to possessions and property. We prevented the destruction of 9,000,000.00 in property.

### EMS Information:

HVA transported 106 patients to the hospital.

Plymouth Township Fire transported 48 patients to the hospital.

Plymouth transports billed out 10,093.29 this month, received 27,836.91 and have 4,741.70 in outstanding bills over 180 days.

### Fire Prevention:

Plymouth Township Fire Department provided 29 comprehensive fire inspections to businesses within Plymouth Township.

This month the Department conducted 3 Special Events with a total of 70 participants.

**1. Summary of a 12 month/year report vs previous year**

**Reports Included:**

**CLEMIS Reports**

*Incidents Section*

- Incident Summary by Incident type
  - Incident Type
  - Type count
  - Property Loss
  - Property Value
- Mutual Aid by Department
  - Mutual aid Received
  - Mutual Aid Given

*Local Section*

- Fire Department Response Times
  - Turnout Time
  - Response Time

**Health EMS**

***Agency Productivity***

- Agency Activity Summary
  - Patients Transported by HVA
  - Patients Transported by PTFD

**Billing Summary**

**Inspection Report**

Total count for Public Education – **Review Fire Modules Calendar**

**Programs – include your training modules**

# Incident Type Count

For Dates 11/1/21 - 11/30/21



Incident Type and Description	Count	% Type / % Total
111 - Building fire	1	16.67 %
112 - Fires in structures other than in a building	1	16.67 %
113 - Cooking fire, confined to container	1	16.67 %
114 - Chimney or flue fire, confined to chimney or flue	1	16.67 %
115 - Incinerator overload or malfunction, fire confined	1	16.67 %
150 - Outside rubbish fire, other	1	16.67 %
<b>Total - Fires</b>	<b>6</b>	<b>1.93 %</b>
321 - EMS call, excluding vehicle accident with injury	180	90.45 %
321C - EMS call, possible COVID-19	2	1.01 %
322 - Vehicle accident with injuries	12	6.03 %
324 - Motor vehicle accident with no injuries	3	1.51 %
352 - Extrication of victim(s) from vehicle	1	0.50 %
381 - Rescue or EMS standby	1	0.50 %
<b>Total - Rescue &amp; Emergency Medical Service Incidents</b>	<b>199</b>	<b>63.99 %</b>
400 - Hazardous condition, other	1	9.09 %
411 - Gasoline or other flammable liquid spill	1	9.09 %
412 - Gas leak (natural gas or LPG)	5	45.45 %
424 - Carbon monoxide incident	2	18.18 %
440 - Electrical wiring/equipment problem, other	2	18.18 %
<b>Total - Hazardous Conditions (No fire)</b>	<b>11</b>	<b>3.54 %</b>
500 - Service Call, other	4	9.76 %
551 - Assist police or other governmental agency	1	2.44 %
554 - Assist invalid	34	82.93 %
561 - Unauthorized burning	2	4.88 %
<b>Total - Service Call</b>	<b>41</b>	<b>13.18 %</b>
600 - Good intent call, other	2	9.09 %
611 - Dispatched & cancelled en route	11	50.00 %
6111 - Hospice Death	5	22.73 %
611E - EMS: Dispatched & cancelled en route	2	9.09 %
622 - No incident found on arrival at dispatch address	2	9.09 %
<b>Total - Good Intent Call</b>	<b>22</b>	<b>7.07 %</b>
700 - False alarm or false call, other	20	71.43 %
736 - CO detector activation due to malfunction	2	7.14 %
740 - Unintentional transmission of alarm, other	1	3.57 %
743 - Smoke detector activation, no fire - unintentional	1	3.57 %
745 - Alarm system sounded, no fire - unintentional	2	7.14 %
746 - Carbon monoxide detector activation, no CO	2	7.14 %

## Incident Type Count

Incident Type and Description	Count	% Type / % Total
Total - False Alarm & False Call	28	9.00 %
900 - Special type of incident, other	2	50.00 %
9001 - Dispatch Error	2	50.00 %
Total - Special Incident Type	4	1.29 %
	311	

## Municipal Response Times Report

For Dates Beginning 11/1/21 Ending 11/30/21

Incident Types selected for analysis: All

For All Priority Types



Time in Minutes	Alarm to Dispatch	Cumulative												
		Percent Total	Responses Percent											
0 - 1	141	48.29	141	48.29	131	47.46	131	47.46	17	6.32	17	6.32	10	3.55
1 - 2	112	38.36	253	86.64	93	33.70	224	81.16	19	7.06	36	13.38	5	1.77
2 - 3	28	9.59	281	96.23	33	11.96	257	93.12	65	24.16	101	37.55	10	3.55
3 - 4	7	2.40	288	98.63	12	4.35	269	97.46	52	19.33	153	56.88	28	9.93
4 - 5	1	0.34	289	98.97	1	0.36	270	97.83	52	19.33	203	76.21	37	13.12
5 - 6	1	0.34	290	99.32	4	1.45	274	99.28	25	9.29	230	85.50	45	15.96
6 - 7	1	0.34	291	99.66	0	0.00	274	99.28	12	4.46	242	89.96	47	16.67
7 - 8	0	0.00	291	99.66	1	0.36	275	99.64	15	5.58	257	95.54	39	13.83
8 - 9	0	0.00	291	99.66	0	0.00	275	99.64	3	1.12	260	96.65	20	7.09
9 - 10	0	0.00	291	99.66	1	0.36	276	100.00	3	1.12	263	97.77	20	7.09
10 +	1	0.34	292	100.00	0	0.00	276	100.00	6	2.23	269	100.00	21	7.45

Incident  
Total\*:

292

### Average Times per Incident

Average PSAP Processing Time: 1 minute(s) 10 second(s)  
(Alarm to Dispatch)

Percent less than or equal to 60 Seconds: 48.29  
Percent less than or equal to 90 Seconds: 73.97

Average Fire Department Turn Out Time 1 minute(s) 18 second(s)  
(Dispatch to Enroute)

Average Fire Department Turn Out and Travel Time 5 minute(s) 10 second(s)  
(Dispatch to Arrive)

Average Municipal Response Time 6 minute(s) 18 second(s)  
(Alarm to Arrive)

### Percentile Response Times in Accordance with NFPA Standards

PSAP Processing Time less than 60 seconds: 48.29%  
(Alarm to Dispatch)

Fire Department Turn Out Time less than 60 seconds: 47.46%  
(Dispatch to Enroute)

Fire Department Travel Time less than 4 minutes: 56.88%  
(Enroute to Arrive)

The Incident Total reflects Incidents that have an Alarm Time and a Dispatch Time.  
It does not include Incidents where no apparatus have been assigned.

## **Listing of Mutual Aid Responses by Mutual Aid Department**



**Time Period: 11/1/21 - 11/30/21**

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### **Department: Canton Twp FD**

#### **Mutual aid given**

210002728	11/8/21	10:56:03AM	3	08204	47081 ASHLEY CT
210002730	11/8/21	12:05:01PM	3	08204	I275
210002828	11/17/21	4:46:21PM	3	08204	2207 VANDERBILT RD

*Subtotal Mutual aid given* 3

#### **Automatic aid given**

210002824	11/17/21	11:46:57AM	4	08204	5969 N CANTON CENTER
					<i>Subtotal Automatic aid given</i> 1
					<i>Subtotal Canton Twp FD</i> 4

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### **Department: Hazardous Materials Response Team**

#### **Mutual aid given**

210002758	11/10/21	3:00:09PM	3	WWMA	16099 MICHIGAN AVE
					<i>Subtotal Mutual aid given</i> 1
					<i>Subtotal Hazardous Materials Response Team</i> 1

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### **Department: Northville City FD**

#### **Mutual aid received**

210002675	11/2/21	6:17:41AM	1	08232	43955 PLYMOUTH OAKS BLVD
210002759	11/10/21	7:53:47PM	1	08232	43955 PLYMOUTH OAKS BLVD
210002839	11/18/21	1:34:44PM	1	08232	46260 BARRINGTON RD

*Subtotal Mutual aid received* 3

#### **Automatic aid received**

210002878	11/20/21	12:14:57PM	2	08232	50958 NORTH VIEW
					<i>Subtotal Automatic aid received</i> 1
					<i>Subtotal Northville City FD</i> 4

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### **Department: Northville Twp FD**

#### **Mutual aid received**

210002675	11/2/21	6:17:41AM	1	08255	43955 PLYMOUTH OAKS BLVD
210002759	11/10/21	7:53:47PM	1	08255	43955 PLYMOUTH OAKS BLVD
210002839	11/18/21	1:34:44PM	1	08255	46260 BARRINGTON RD

**Time Period: 11/1/21 - 11/30/21**

210002939	11/27/21	12:13:24PM	1	08255	STATE HWY
				<i>Subtotal Mutual aid received</i>	4
<b>Automatic aid received</b>					
210002878	11/20/21	12:14:57PM	2	08255	50958 NORTH VIEW
				<i>Subtotal Automatic aid received</i>	1
<b>Mutual aid given</b>					
210002734	11/8/21	4:52:09PM	3	08255	15700 HAGGERTY RD
210002886	11/21/21	5:38:05PM	3	08255	20649 WOODBEND DR
210002943	11/27/21	6:35:04PM	3	08255	15400 SHELDON RD
				<i>Subtotal Mutual aid given</i>	3
				<i>Subtotal Northville Twp FD</i>	8
<b>Total</b>					13

# Incident Summary by Incident Type

For Dates: 11/1/21 - 11/30/21



Incident Type	Incident Count	Average Response Time	Total Loss	Total Value
<b>Shift: A</b>				
<b>Station: ST1</b>				
Rescue & Emergency Medical Service Incidents	30	00:06:32	\$ 0.00	\$ 0.00
Service Calls	4	00:04:04	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	6	00:03:44	\$ 0.00	\$ 0.00
Special Incident Types	2	00:03:41	\$ 0.00	\$ 0.00
<b>Total for Station: ST1</b>	<b>43</b>	<b>00:05:38</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>
<b>Station: ST2</b>				
Rescue & Emergency Medical Service Incidents	17	00:06:26	\$ 0.00	\$ 0.00
Service Calls	3	00:06:18	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:05:02	\$ 0.00	\$ 0.00
<b>Total for Station: ST2</b>	<b>21</b>	<b>00:06:21</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>
<b>Station: ST3</b>				
Fires	1	00:09:33	\$ 80,000.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	22	00:07:48	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	3	00:07:51	\$ 0.00	\$ 0.00
Service Calls	3	00:09:29	\$ 0.00	\$ 0.00
Good Intent Calls	2	00:02:26	\$ 0.00	\$ 0.00
False Alarm & False Calls	6	00:07:35	\$ 0.00	\$ 0.00
<b>Total for Station: ST3</b>	<b>37</b>	<b>00:07:40</b>	<b>\$ 80,000.00</b>	<b>\$ 0.00</b>
<b>Total for Shift: A</b>	<b>101.00</b>	<b>00:06:31</b>	<b>\$ 80,000.00</b>	<b>\$ 0.00</b>
<b>Shift: B</b>				
<b>Station: ST1</b>				
Rescue & Emergency Medical Service Incidents	18	00:06:39	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	4	00:05:42	\$ 0.00	\$ 0.00
Service Calls	8	00:06:29	\$ 0.00	\$ 0.00
Good Intent Calls	4	00:02:06	\$ 0.00	\$ 0.00
False Alarm & False Calls	2	00:05:44	\$ 0.00	\$ 0.00
Special Incident Types	1	00:00:01	\$ 0.00	\$ 0.00
<b>Total for Station: ST1</b>	<b>37</b>	<b>00:05:47</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>
<b>Station: ST2</b>				
Rescue & Emergency Medical Service Incidents	16	00:05:29	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:00:12	\$ 0.00	\$ 0.00
Service Calls	8	00:07:27	\$ 0.00	\$ 0.00
False Alarm & False Calls	2	00:05:40	\$ 0.00	\$ 0.00
<b>Total for Station: ST2</b>	<b>27</b>	<b>00:05:53</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>
<b>Station: ST3</b>				
Fires	2	00:04:16	\$ 600.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	28	00:06:55	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:07:11	\$ 0.00	\$ 0.00

## Incident Summary by Incident Type

Incident Type	Incident Count	Average Response Time	Total Loss	Total Value
Service Calls	3	00:07:02	\$ 0.00	\$ 0.00
Good Intent Calls	6	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	6	00:04:29	\$ 0.00	\$ 0.00
<b>Total for Station: ST3</b>	<b>46</b>	<b>00:05:36</b>	<b>\$ 600.00</b>	<b>\$ 0.00</b>
<b>Total for Shift: B</b>	<b>110.00</b>	<b>00:05:44</b>	<b>\$ 600.00</b>	<b>\$ 0.00</b>
<b>Shift: C</b>				
<b>Station: MA</b>				
Fires	1	00:10:02	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:22:18	\$ 0.00	\$ 0.00
<b>Total for Station: MA</b>	<b>2</b>	<b>00:16:10</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>
<b>Station: ST1</b>				
Fires	1	00:09:59	\$ 80,000.00	\$ 9,000,000.00
Rescue & Emergency Medical Service Incidents	19	00:04:26	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:06:05	\$ 0.00	\$ 0.00
Service Calls	3	00:07:09	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
<b>Total for Station: ST1</b>	<b>25</b>	<b>00:04:52</b>	<b>\$ 80,000.00</b>	<b>\$ 9,000,000.00</b>
<b>Station: ST2</b>				
Rescue & Emergency Medical Service Incidents	20	00:05:17	\$ 0.00	\$ 0.00
Service Calls	3	00:05:25	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
<b>Total for Station: ST2</b>	<b>24</b>	<b>00:05:05</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>
<b>Station: ST3</b>				
Fires	1	00:06:33	\$ 80,000.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	29	00:06:52	\$ 0.00	\$ 0.00
Service Calls	6	00:08:01	\$ 0.00	\$ 0.00
Good Intent Calls	7	00:00:53	\$ 0.00	\$ 0.00
False Alarm & False Calls	5	00:07:47	\$ 0.00	\$ 0.00
Special Incident Types	1	00:04:51	\$ 0.00	\$ 0.00
<b>Total for Station: ST3</b>	<b>49</b>	<b>00:06:12</b>	<b>\$ 80,000.00</b>	<b>\$ 0.00</b>
<b>Total for Shift: C</b>	<b>100.00</b>	<b>00:05:48</b>	<b>\$ 160,000.00</b>	<b>\$ 9,000,000.00</b>
<b>Total</b>	<b>311.00</b>	<b>00:06:01</b>	<b>\$ 240,600.00</b>	<b>\$ 9,000,000.00</b>

# Agency Activity Summary

## Plymouth Township Fire Dept

Agency: Plymouth Township Fire Dept | Service Date: From 11/01/2021 Through  
11/30/2021 | Run Disposition: All Transports, Treated and Transferred Care

**Total Number of ePCRs: 154**

**Total Number of Incidents: 152**

### By Branch

01 Station 1 = 46

02 Station 2 = 49

03 Station 3 = 59

### Run Disposition

	#	%		#	%
Treated/Transported	48	31.2%	Dead Prior To Arrival	N/A	N/A
Treated / Transferred Care	106	68.8%	Dead After Arrival	N/A	N/A
Treated/No Transport (AMA)	N/A	N/A	Treat/Transported by Private Veh.	N/A	N/A
Treated / No Transport (Per Protocol)	N/A	N/A	Assist	N/A	N/A
Transported / Refused Care	N/A	N/A	Other	N/A	N/A
No Transport / Refused Care	N/A	N/A	No Patient Found	N/A	N/A
Cancelled	N/A	N/A			
Left Blank	N/A	N/A			

### Run Type

	#	%		#	%
Emergency Runs	154	100.0%	Non-Emergency Runs	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	1	0.6%	Mutual Aid	N/A	N/A
Interfacility	N/A	N/A	Interfacility	N/A	N/A
Intercept	N/A	N/A	Intercept	N/A	N/A
Emergency Runs (Scheduled)	N/A	N/A	Non-Emergency Runs (Scheduled)	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	N/A	N/A	Mutual Aid	N/A	N/A
Interfacility	N/A	N/A	Interfacility	N/A	N/A
Intercept	N/A	N/A	Intercept	N/A	N/A

*Emergency Type Left Blank: 0*

### Runs by Unit

Unit	Total Runs	Treat/Transp	Treat/Transfer	Treat/No Transp(AMA)	Treat/No Transp(PP)	Transp/Ref. Care	Dead Cancelled	Dead Prior Arr	Dead After Arr	T/T Priv Veh	No Trans/Ref. Care	Assist Other	No Pat. Found
ENG2	2	0	2	0	0	0	0	0	0	0	0	0	0
RES1	48	15	33	0	0	0	0	0	0	0	0	0	0
RES2	45	22	23	0	0	0	0	0	0	0	0	0	0
RES3	59	11	48	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>154</b>	<b>48</b>	<b>106</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### Runs by Service Level

Dispatched Service Level	#	%	Recommended Service Level	#	%
BLS	5	3.2%	BLS	108	70.1%
ALS	149	96.8%	ALS1	44	28.6%
SCT	N/A	N/A	ALS2	2	1.3%
			SCT	N/A	N/A
			Rotary Wing	N/A	N/A
			Fixed Wing	N/A	N/A

**Runs by Insurance Type with Service Level** (*Multiple insurance types may have been marked on a run*)

Type	BLS	%	ALS1	%	ALS2	%	SCT	%	Rotary Wing	%	Fixed Wing	%	Total	%
None	108	70.1%	44	28.6%	2	1.3%	N/A	N/A	N/A	N/A	N/A	N/A	154	100.0%

**Runs by Primary PI**

Description	#	%
Abdominal Pain	3	1.9%
Alt. Level Conscious	12	7.8%
Anxiety	4	2.6%
Asthma Symptoms	1	0.6%
Back Pain (No Trauma)	4	2.6%
Behavioral Disorder	3	1.9%
CVA/Stroke	3	1.9%
Cardiac Arrest	2	1.3%
Cardiac Symptoms	2	1.3%
Chest Pain	10	6.5%
Depression (acute)	2	1.3%
Dizziness	7	4.5%
Dyspnea-SOB	9	5.8%
Elevated Temp/Fever	2	1.3%
Flu Symptoms	2	1.3%
Malaise	1	0.6%
Monitoring Required	1	0.6%
Nausea	1	0.6%
No Medical Problem	3	1.9%
Psychiatric Emerg.	8	5.2%
Seizure	2	1.3%
Syncope/Fainting	1	0.6%
Trauma Injury	25	16.2%
Unconscious	2	1.3%
Unknown Medical	3	1.9%
Urinary Bleeding	1	0.6%
Urination Problem	2	1.3%
Vomiting	2	1.3%
Weakness	36	23.4%
Left Blank	0	0.0%
<i>Total</i>	154	100.0%

**Runs by Dispatch (EMD) Code**

Description	#	%
1 Abdominal Pain	2	1.3%
10 Chest Pain [non-traumatic]	12	7.8%
12 Convulsions/Seizures	2	1.3%
13 Diabetic	1	0.6%
17 Falls	26	16.9%
18 Headache	1	0.6%
19 Heart Problems A.I.D.C	1	0.6%
23 Overdose/poisoning	3	1.9%
25 Psychiatric/Abnormal behavior/Suicide Attempt	9	5.8%
26 Sick Person	51	33.1%
28 Stroke [CVA]	4	2.6%
29 Traffic/Accidents	7	4.5%
30 Traumatic Injuries	6	3.9%
31 Unconscious/Fainting	8	5.2%
32 Unknown Problem	4	2.6%
5 Back Pain	3	1.9%
6 Breathing Problems	14	9.1%
<i>Left Blank</i>	0	0.0%
<b>Total</b>	<b>154</b>	<b>100.0%</b>

**Transport From (Category)**

	#	%
--Left Blank--	154	100.0%
<i>Total</i>	154	100.0%

**Transport From (Facility)**

	#	%
--Left Blank--	154	100.0%
<i>Total</i>	154	100.0%

**Transport To (Destination Facility)**

	#	%
St Mary Livonia ER	123	79.9%
St Joe Ann Arbor ER	11	7.1%
Providence Park ER-Nov	7	4.5%
UNIVERSITY OF MICHIGAN ER	7	4.5%
C.S. Mott Children's Hospital	3	1.9%
VA ANN ARBOR ER	2	1.3%
Henry Ford West Bloomfield	1	0.6%
<i>Total</i>	154	100.0%

**PLYMOUTH CHARGE SUMMARY**  
**PLYMOUTH MONTHLY CHARGE REPORT**  
**REPORT AS OF NOVEMBER 30, 2021**

<u>ID</u>	<u>Description</u>	<u>QTY</u>	<u>QTY %</u>	<u>Charge</u>	<u>Charge</u>	<u>Total Charge</u>	
				<u>Count</u>	<u>Count</u>	<u>Charges</u>	<u>%</u>
427	ALS EMERGENCY	8	6.88	8	26.67	6200	51.52
429	BLS EMERGENCY	7	6	7	23.33	3500	34.68
0425MC	CMS MILEAGE	49.7	42.58	10	33.33	680.88	6.75
425	MILEAGE	52	44.56	5	16.67	712.4	7.08
<b>Totals</b>		<b>116.7</b>		<b>30</b>		<b>10933.29</b>	

**PLYMOUTH CREDIT SUMMARY**  
**PLYMOUTH MONTHLY CREDIT REPORT**  
**REPORT AS OF NOVEMBER 30, 2021**

<u>ID</u>	<u>Description</u>	<u>Credits</u>	<u>QTY %</u>	<u>Amount</u>	<u>Amount %</u>
2	Adjustment	58	24.58	12584.71	26.14
1	Other Payment	147	62.29	24430.3	50.76
6	Patient Payment	16	6.78	3406.61	7.08
5	Write Off	15	6.36	7713.88	16.03
<b>Totals</b>		<b>236</b>		<b>48135.6</b>	

**PLYMOUTH AGING SUMMARY**  
**PLYMOUTH MONTHLY AGING REPORT**  
**REPORT AS OF NOVEMBER 30, 2021**

<u>ID</u>	<u>Description</u>	<u>Calls</u>	<u>Current</u>	<u>31 to 60</u>	<u>61 to 90</u>	<u>91 to 120</u>	<u>121 to 150</u>	<u>151 to 180</u>	<u>Over 180</u>	<u>Total</u>
1CONS	PAPER - CONTRACT	1	0	0	0	0	0	0	548	548
1MRP	PAPER - MEDICARE	2	558.91	576.72	0	0	0	0	0	1135.63
APPL	APPEAL PATIENT 30	4	0	554.8	0	732.2	0	568.5	230	2086.6
BCAP	APPEAL BCBS	1	0	0	0	0	0	0	732.2	732.2
BCBS	ELECT BCBS	2	184.89	0	0	0	0	0	0	184.89
CAID	ELECT MEDICAID	2	0	0	0	1047.52	0	0	0	1047.52
CAIP	PAPER MEDICAID R	1	0	0	0	0	674.66	0	0	674.66
CARE	ELECT - MEDICARE	5	1972.62	1473.89	0	0	0	0	0	3446.61
CAREBL	ELECT MEDICARE P	1	547.95	0	0	0	0	0	0	547.95
INSU	PAPER INS PRIMAR	3	0	568.5	0	732.2	75.96	0	0	1376.66
NEIC	ELECT INS NEIC	2	103.63	0	0	0	585.9	0	0	689.53
NEICCARE	ELECT INS NEIC ME	3	0	1288.74	0	0	718.5	0	0	2008.24
PCAR	PAPER MEDICARE	1	0	738.31	0	0	0	0	0	736.31
PRV2	PAPER - PRIVATE P	52	3125.34	15887.18	0	2497.49	10.24	250	-93.87	21866.38
REVIEW	REVIEW	21	1273.3	588.5	0	3807.35	2074	3236.63	795.89	11755.67
SINS	PAPER INS SECOND	4	213.98	98.14	0	86.24	0	0	0	398.36
TIME	TIME PAY ACCOUNT	2	0	0	0	0	0	0	168	168
U	MHR HOLD FOR MH	1	0	0	0	114.32	0	0	0	114.32
ZIR	ZIRMED 2	2	0	718.5	0	732.2	0	0	0	1450.7
ZIRCAID	ELECT MEDICAID ZI	8	0	0	0	1183.58	568.5	0	1801.2	3553.28
ZIRMED	ELECT INS ZIRMED	3	0	1382.9	0	0	0	0	560.28	1943.18
<b>Totals</b>		<b>119</b>	<b>7980.42</b>	<b>23935.28</b>	<b>0</b>	<b>10933.1</b>	<b>4717.76</b>	<b>4055.13</b>	<b>4741.7</b>	<b>56263.38</b>

**Inspection Volume**

11/30/2021 3:38:18 PM

**Filters:**

- Inspection Source: Internal Department Only
- Start Date: 11/1/2021 12:00:00 AM
- End Date: 11/30/2021 11:59:59 PM
- Inspector: -all-
- Occupancy Type: -all-
- IFC Occupant Class: -all-
- Occupancy Number: -all-
- Zip Code: -all-
- Address: -all-
- Street Name: -all-
- Inspection Type: -all Fire Safety types-
- Census: -all-
- District: -all-
- Section: -all-
- Station: -all-
- Zone: -all-

**Volume by Inspector**

Randall, Jeff	# of Inspections <sup>1</sup>	Violations Cited	Occupant Sq. Ft.
3-Year FS	3		3,800
Annual FS	6		21,000
Certificate of Occupancy FS	1		0
Final Fire Alarm FS	3		0
Fire Alarm Test FS	1		0
Freedom of Information FS	2		17,110
Hydrostratic Test FS	2		500,000
Re-inspect FS	.1		0
Final Fire Alarm (1)			
Total 1 <sup>3</sup>			
Semi-Annual (twice a year) FS	6		5,372
Site Plan/Plan Review FS	2		0
Special Event FS	1		200,000
Special Land Use FS	1		0
Total	29	4	747,282

**Totals**

	# of Inspections <sup>1</sup>	Violations Cited	Violations Cleared <sup>2</sup>	Violations Remaining	Occupant Sq. Ft.
3-Year FS	3				3,800
Annual FS	6				21,000
Certificate of Occupancy FS	1				0
Final Fire Alarm FS	3				0
Fire Alarm Test FS	1				0
Freedom of Information FS	2				17,110
Hydrostratic Test FS	2				500,000
Re-inspect FS	.1				0
Final Fire Alarm (1)					
Total 1 <sup>3</sup>					
Semi-Annual (twice a year) FS	6				5,372
Site Plan/Plan Review FS	2				0
Special Event FS	1				200,000
Special Land Use FS	1				0
Total	29	4	0	4	747,282

<sup>1</sup>This is actually a count for the inspection type. A single inspection with two types will total as two not one.

<sup>2</sup>Cleared violations from re-inspections outside the date range ARE included if initial inspection falls within date range.

<sup>3</sup>One re-inspection can encompass multiple inspection types - this is why the re-inspection type-specific total is frequently greater than the # of inspections.

FS Fire Safety Inspection.

<sup>5</sup>Filtering out portal inspections can cause violations cited to be less than violations cleared (violation cited count comes from both department and portal inspections, while violations cleared only come from department inspections).

# PLYMOUTH TOWNSHIP FIRE DEPARTMENT SPECIAL EVENT



OFFICE USE ONLY: SCAN&SEND COPY \_\_\_\_\_ ENTER ON CALENDAR \_\_\_\_\_

Available to Township based businesses/persons only.

DATE REQUEST MADE 11-10-21 ASSIGNED TO PLATOON#: 2

TYPE OF PROGRAM:

DATE OF PROGRAM: 11-18-21 TIME REQUIRED: 7:00 pm.

ORGANIZATION: Cub Scout dens

LOCATION OF PROGRAM: Station #1

NUMBER OF PEOPLE EXPECTED: 6-9 boys AGE GROUP: 2nd & 4th graders

CONTACT PERSON: Paul Mersino PHONE #: 313-869-2657

Special Instructions:

Boar the station / First Aid

AUTHORIZED BY: X

FIRE CHIEF

DATE:

NUMBER PEOPLE PRESENT: 10

AMOUNT OF TIME REQUIRED: 1 Hr

IF THIS PROGRAM DID NOT TAKE PLACE, WHY NOT? \_\_\_\_\_

COMMENTS: Great Class

PRESENTER'S NAME: Loudon, Pancoast RETURN COMPLETED FORM TO FIRE CHIEF'S OFFICE

Scheduling notes: This program for Plymouth Township residents and groups.

Small Groups -schedule to station covering home/business area.

1. Original to Chief for approval
- 2 Record on Fire Modules calendar
3. Scan and forward to Platoon Officers
4. File original in notebook.

*According to the Michigan Revision Schedule: Keep the completed copy for one year.*

# PLYMOUTH TOWNSHIP FIRE DEPARTMENT SPECIAL EVENT



OFFICE USE ONLY: SCAN&SEND COPY \_\_\_\_\_ ENTER ON CALENDAR \_\_\_\_\_

Available to Township based businesses/persons only.

DATE REQUEST MADE: 11-8-21 ASSIGNED TO PLATOON #: 1

TYPE OF PROGRAM: Dances from Bush Elementary

DATE OF PROGRAM: 11-8-21 TIME REQUIRED: 4:30pm

ORGANIZATION:

LOCATION OF PROGRAM: Station #1

NUMBER OF PEOPLE EXPECTED: \_\_\_\_\_ AGE GROUP: Kindergarten

CONTACT PERSON: Suzie Ventline PHONE #: 313-575-7496

Special Instructions:

Visit the Station / Fire Safety

AUTHORIZED BY: X  DATE: 11-1-21

FIRE CHIEF

NUMBER PEOPLE PRESENT: 10 AMOUNT OF TIME REQUIRED: 1 HR

IF THIS PROGRAM DID NOT TAKE PLACE, WHY NOT? No AIA

COMMENTS:

PRESENTER'S NAME: Culver/Hansen RETURN COMPLETED FORM TO FIRE CHIEF'S OFFICE

Scheduling notes: This program for Plymouth Township residents and groups.

Small Groups - schedule to station covering home business area

1. Original to Chief for approval
2. Record on Fire Modules calendar
3. Scan and forward to Platoon Officers
4. File original in notebook.

*According to the Michigan Retention Schedule: Keep the completed copy for one year.*

# PLYMOUTH TOWNSHIP FIRE DEPARTMENT SPECIAL EVENT



OFFICE USE ONLY: SCAN&SEND COPY ENTER ON CALENDAR

Available to Township based businesses/persons only.

DATE REQUEST MADE 10/6/21 ASSIGNED TO PLATOON# 3

TYPE OF PROGRAM: 1st Grade Class

DATE OF PROGRAM: 11-3-21 TIME REQUIRED:

ORGANIZATION: Bird Elementary 10.10.441

LOCATION OF PROGRAM:

NUMBER OF PEOPLE EXPECTED: 15 AGE GROUP: 1st grade

CONTACT PERSON: Britney Clark PHONE #: 734-751-3775

Special Instructions:

Fire Safety

AUTHORIZED BY: X Beth Ann Full DATE: 11-1-21  
FIRE CHIEF

NUMBER PEOPLE PRESENT: 50 AMOUNT OF TIME REQUIRED: 20 M:~

IF THIS PROGRAM DID NOT TAKE PLACE, WHY NOT? \_\_\_\_\_

COMMENTS: \_\_\_\_\_

PRESENTER'S NAME: Bonader/Su. tv RETURN COMPLETED FORM TO FIRE CHIEF'S OFFICE

Scheduling notes: This program for Plymouth Township residents and groups.

Small Groups - schedule to station covering home/business area

1. Original to Chief for approval
2. Record on Fire Modules calendar
3. Scan and forward to Platoon Officers
4. File original in notebook

*According to the Michigan Revision Schedule: Keep the completed copy for one year.*



# Memorandum

**TO:** Board of Trustees and Planning Commission  
Charter Township of Plymouth, Michigan

**FROM:** Laura Haw, AICP, NCI

**SUBJECT:** Planning, Zoning, Design and Economic Development Report - November, 2021

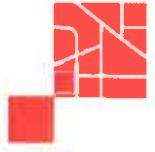
**DATE:** December 2, 2021

McKenna provides day-to-day assistance to the Township, applicants, and the public regarding zoning, planning and economic development matters, including on-site office hours every morning and as-needed.

## PLANNING, ZONING, DESIGN, AND ECONOMIC DEVELOPMENT ACTIVITY

As part of our services to the Township, McKenna reviews Planning Commission applications and provides recommendations on long range planning, land use, zoning, and design. The following is a summary of current and ongoing developments; yellow highlighting indicates new updates for the month.

Planning & Zoning Active Projects		
PROJECT	BACKGROUND	STATUS / NEXT STEPS
#2312 <i>Ponds at Andover</i>	Residential development with 7 single-family, detached units, approved, with conditions, by the Board of Trustees on August 25, 2020.	Recording of the CHO Agreement and final stamp pending.
#2332 <i>Boleski Funeral Home</i>	Tentative site plan approval, with conditions, granted on March 18, 2021. 1-year extension request to expire on March 17, 2022.	Final site plan, with conditions, granted at the July 21, 2021 Planning Commission meeting. Revised plans submitted to the administrative review committee; under review.
#2346 <i>Phoenix Mill</i>	Redevelopment of the former Wayne County Road Yard, adjacent to Hines Park, into an office and event space.	Final site plan granted by the Planning Commission on May 19, 2021; final stamp under review.
#2355 <i>42480 Postiff</i>	Application for two additional professional office buildings. Final site plan approval, with conditions, was granted on March 18, 2020.	1-year extension, to expire on March 17, 2022.
#2377 <i>Home for Mom &amp; Dad</i>	Application submitted for a 20-unit assisted living facility.	Tentative site plan approval granted at the February 17, 2021 Planning Commission meeting. Applicant to submit revised plans for final site plan – project on hold.



## Planning & Zoning Active Projects

PROJECT	BACKGROUND	STATUS / NEXT STEPS
#2379 <i>Lot 23 - Metro Business Park</i>	Site plan consideration for a new ±38,000 SF office and industrial spec building. Tentative and final site plan approval, with conditions, granted at the January 20, 2021 Planning Commission meeting.	Final stamp pending.
#2380 <i>Lot 20 - Plymouth Oaks Business Park</i>	Site plan consideration for a new ±10,000 SF office and industrial spec building.	Final site plan granted by the Planning Commission on May 19, 2021. Final stamp pending.
#2385 <i>Lot 1 - Metro Business Park</i>	Site plan consideration for a new ±24,000 SF office and industrial spec building.	Tentative site plan approval, with conditions, granted at the March 17, 2021 Planning Commission meeting. Applicant to submit for final site plan consideration.
#2386 <i>Lot 14 - Metro Business Park</i>	Site plan consideration for a new ±26,000 SF office and industrial spec building.	Tentative site plan approval, with conditions, granted at the March 17, 2021 Planning Commission meeting. Applicant to submit for final site plan consideration.
#2387 <i>Lots 17-20 - Metro Business Park</i>	Site plan consideration for a new office and industrial spec building.	Tentative site plan approval, with conditions, granted at the April 21, 2021 Planning Commission meeting. Applicant to submit for final site plan.
#2393 <i>Frito Lay</i>	Site plan for a ±40,000 SF manufacturing addition to the existing facility.	Final site plan granted by the Planning Commission on May 19, 2021; final stamp pending.
#2394 <i>Pursell Place CHO</i>	Eight (8) unit residential subdivision at 46200 N. Territorial Road.	Planning Commission approved the site development plan on July 21, 2021; legal documents to be provided to the Twp. Attorney for review by the applicant, when ready.
#2398 <i>14200 N. Haggerty</i>	Parking lot expansion at Webasto.	Final stamp pending.
#2401 <i>9030 General Drive</i>	Minor building addition to an existing industrial facility.	Planning Commission granted final site plan approval on July 21, 2021. Applicant to submit for final stamp when ready.
#2403 <i>1333 Ann Arbor</i>	ARC signage request at the Bank of Ann Arbor.	Wall and monument signage approved; file to be closed.
#2405 <i>Towne Place Rezoning</i>	Rezoning application for the five acres at the northwest corner of McClumpha and Ann Arbor Road from the R-1-H to the R-2-A district.	Request retracted, file to be closed.
#2406 <i>PUD: Elks Redevelopment</i>	Planned Unit Development (PUD) request for the 30+ acres at the former Elk's Lodge into apartments, a club house, and townhomes.	Public hearing held at the October 20, 2021 Planning Commission meeting. Project postponed for up to 90 days to allow time for the applicant to revise the concept plan and represent to the Commission by January 19, 2022.
#2407 <i>47700 Halyard Drive</i>	Administrative review for landscaping enhancements and removal of a parking lot.	Final stamp issued; file closed.

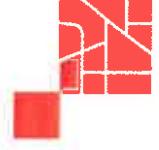


## Planning & Zoning Active Projects

PROJECT	BACKGROUND	STATUS / NEXT STEPS
#2408 <i>Wilcox Residential</i>	Land combination for several single-family residential parcels between Brentwood Drive and Wilcox Road.	Approved; file to be closed.
#2409 <i>Beacon Meadows HOA Sign</i>	Request for new entry improvements and signage for the Beacon Meadows subdivision on N. Territorial Road.	Approved by the Planning Commission at their October 20, 2021 meeting; final stamp issued, file to be closed.
#2410 <i>Plymouth Ridge Rezoning</i>	Request for the Planning Commission to re-hear a rezoning request at the former Northridge residential site.	Planning Commission postponed the agenda item for up to 90 days at their November 17, 2021 meeting.
#2411 <i>41661 Plymouth</i>	PUD Option request for the redevelopment of the former Courthouse Grille property into multiple-family residential.	Recommendation of approval to the Board of Trustees made at the November 17, 2021 Planning Commission meeting. The Board is to consider the PUD Option at their December 14, 2021 meeting.
#2412 <i>SW Corner of Schoolcraft and Haggerty</i>	Special land use request for RV storage.	Approved at the November 17, 2021 Planning Commission meeting. File to be closed, and applicant to submit for site plan review when ready.
#2413 <i>40815 Ann Arbor</i>	ARC sign request for the proposed Chipotle restaurant.	Partially approved at the November 17, 2021 Planning Commission meeting; final stamp pending.

## RECOMMENDATIONS / MISCELLANEOUS PROJECTS

- **CSX Improvements.** CSX provided an update to the Township regarding the proposed improvements to the overpass on Ann Arbor Road; the Township administration met with CSX again on April 6, 2021 and had a productive meeting in the field; revised plans are being submitted to CSX.
- **Ann Arbor Road Traffic Signal Improvements.** The Township has been working with MDOT on the traffic flow and signalization along the Ann Arbor Road Corridor, from I-275 to the CSX bridge, to improve safety and access. Traffic studies are underway and discussions with MDOT continue.
- **I-275 Landscaping / Berming.** The Township met with MDOT regarding the I-275 interchange (as part of the larger I-275 roadway project) to create several berms within the 'cloverleaf' to offer additional noise buffers for the surrounding properties. These areas would be further landscaped, and the Township is also interested in exploring signage to create more of a gateway into the community.
- **Master Plan Update.** Phase 1 and 2 of the Plymouth Township Master Plan are complete. Phase 2 consisted of public engagement, with an online, community-wide survey where over 900 survey responses were collected. A presentation to the Board of Trustees was given on January 12, 2021 regarding the results of the public engagement survey. The Planning Commission discussed the draft Master Plan at a work session on April 10, 2021 and at the April 21, 2021 regular meeting, recommended



the Master Plan update be sent to the Board of Trustees for authorization of the 63-day distribution and public comment period. The Board of Trustees authorized approval of the required 63-day distribution and public comment period on May 11, 2021.

- **Zoning Ordinance Text Amendments in Progress:**

- Review of landscape standards (Article 26).
- Review of subdivision gate standards.
- Review of mixed-use districts.
- Consideration for IND and TAR Districts to expressly permit office and other up and coming uses.
- Township initiated rezoning of the Shearer Cemetery to the Public Lands district recommended; a public hearing to be considered at a future Planning Commission meeting. Text amendment consideration for municipal cemeteries to be designated as a permitted land use in the Public Land district.

- **Joint Board of Trustees and Planning Commission meeting.** A joint meeting was held on August 24, 2021; it was recommended that the Board of Trustees and Planning Commission have another joint meeting in January / February of 2022 and further discuss planning related items, including the vision for Cluster Housing Options.

If you have any questions on the above planning, zoning and design projects or would like additional information, please contact Laura Haw at [Lhaw@mcka.com](mailto:Lhaw@mcka.com). Thank you.



# Plymouth Twp. Police

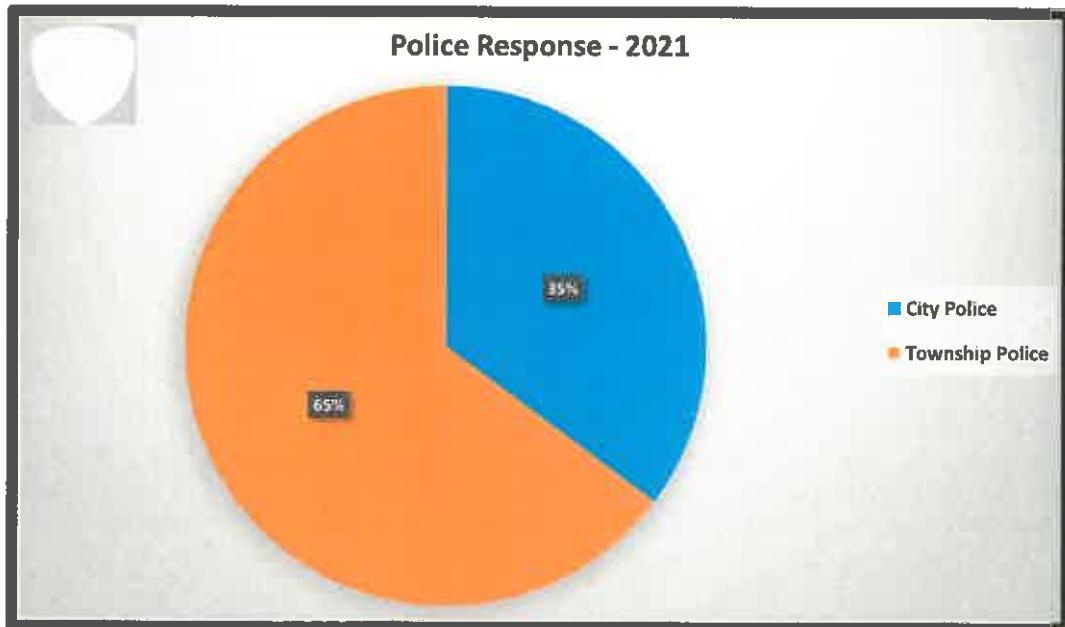
## November 2021

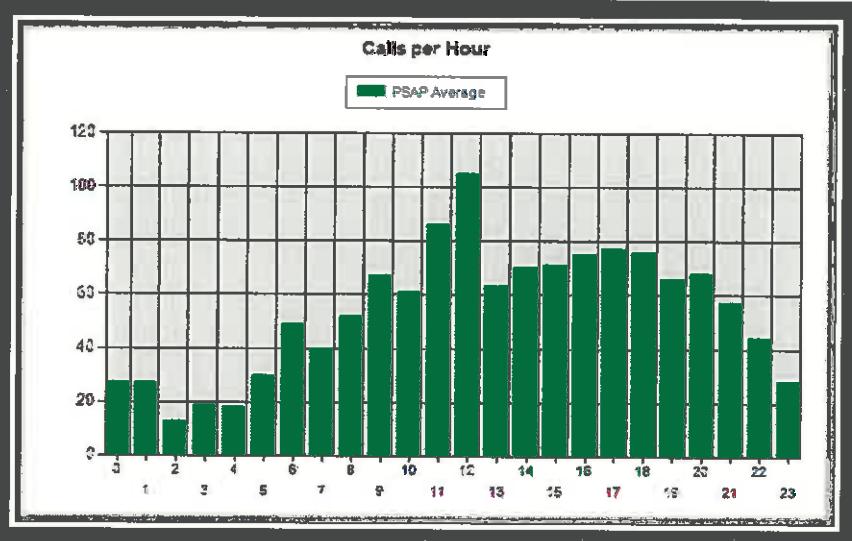
## PART-ONE CRIMES

CLASS	Description	Nov/2021	Nov/2020	% CHG	YTD 2021	YTD 2020	% CHG
10001	KIDNAPPING/ABDUCTION	0	0	0%	1	0	100.0%
11001	SEXUAL PENETRATION PENIS/VAGINA -CSC 1ST DEG	0	0	0%	0	2	-100.0%
11002	SEXUAL PENETRATION PENIS/VAGINA -CSC 3RD DE	2	0	0%	4	1	300.0%
11003	SEXUAL PENETRATION ORAL/ANAL -CSC 1ST DEGRE	1	0	0%	1	0	100.0%
11004	SEXUAL PENETRATION ORAL/ANAL -CSC 3RD DEGR	0	0	0%	1	0	100.0%
11005	SEXUAL PENETRATION OBJECT -CSC 1ST DEGREE	0	0	0%	0	1	-100.0%
11006	SEXUAL PENETRATION OBJECT -CSC 3RD DEGREE	0	0	0%	0	1	-100.0%
11007	SEXUAL CONTACT FORCIBLE -CSC 2ND DEGREE	0	0	0%	2	2	0%
11008	SEXUAL CONTACT FORCIBLE -CSC 4TH DEGREE	1	0	0%	1	0	100.0%
12000	ROBBERY	0	0	0%	3	2	50.0%
13001	NONAGGRAVATED ASSAULT	4	5	-20.0%	72	46	56.5%
13002	AGGRAVATED/FELONIOUS ASSAULT	3	0	0%	14	4	250.0%
13003	INTIMIDATION/STALKING	0	1	-100.0%	10	6	66.7%
20000	ARSON	0	2	-100.0%	1	5	-80.0%
21000	EXTORTION	0	0	0%	4	1	300.0%
22001	BURGLARY -FORCED ENTRY	2	2	0%	10	7	42.9%
22002	BURGLARY -ENTRY WITHOUT FORCE (Intent to Commit)	0	0	0%	5	4	25.0%
23003	LARCENY -THEFT FROM BUILDING	3	3	0%	19	14	35.7%
23005	LARCENY -THEFT FROM MOTOR VEHICLE	2	1	100.0%	26	18	44.4%
23006	LARCENY -THEFT OF MOTOR VEHICLE PARTS/ACCES	0	2	300.0%	42	16	162.5%
23007	LARCENY -OTHER	0	5	-100.0%	33	39	-15.4%
24001	MOTOR VEHICLE THEFT	4	0	0%	24	15	60.0%
24002	MOTOR VEHICLE AS STOLEN PROPERTY	0	0	0%	2	0	200.0%
24003	MOTOR VEHICLE FRAUD	0	0	0%	0	1	-100.0%
25000	FORGERY/COUNTERFEITING	0	0	0%	1	2	-50.0%
26001	FRAUD -FALSE PRETENSE/SWINDLE/CONFIDENCE	4	2	100.0%	37	20	85.0%
26002	FRAUD -CREDIT CARD/AUTOMATIC TELLER MACHINE	2	0	0%	8	3	166.7%
26005	FRAUD -WIRE FRAUD	0	0	0%	4	2	100.0%
26007	FRAUD - IDENTITY THEFT	7	6	16.7%	42	37	-37.3%
27000	EMBEZZLEMENT	0	0	0%	0	3	-100.0%
28000	STOLEN PROPERTY	0	1	-100.0%	1	2	-50.0%
29000	DAMAGE TO PROPERTY	4	5	-20.0%	42	40	5.0%
30001	RETAIL FRAUD -MISREPRESENTATION	0	1	-100.0%	1	1	0%
30002	RETAIL FRAUD -THEFT	1	2	-50.0%	12	15	-20.0%
35001	VIOLATION OF CONTROLLED SUBSTANCE ACT	0	0	0%	10	12	-16.7%
35002	NARCOTIC EQUIPMENT VIOLATIONS	0	0	0%	2	6	-66.7%
37000	OBSCENITY	0	0	0%	0	2	-100.0%

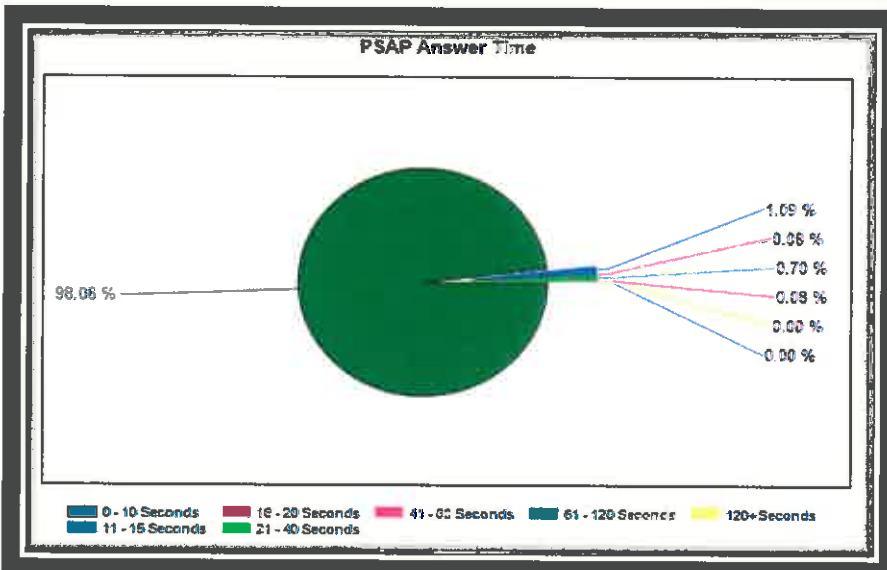
POLICE RESPONSE													
2021	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
City Police	408	348	481	436	482	565	552	551	531	515	465		5,334
Township Police	750	765	953	854	866	916	950	924	1,018	956	890		9,842
Total	1,158	1,113	1,434	1,290	1,348	1,481	1,502	1,475	1,549	1,471	1,355	0	15,176

POLICE RESPONSE													
2020	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
City Police	761	704	513	270	318	446	490	575	447	458	468	338	5,788
Township Police	1,254	1,151	854	438	548	732	939	1,088	896	801	659	666	10,026
Total	2,015	1,855	1,367	708	866	1,178	1,429	1,663	1,343	1,259	1,127	1,004	15,814





2021 DISPATCH	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
# of 911 Calls	1,014	961	805	716	1,151	1,254	1,472	1,538	1,448	1,246	1,159		12,764
# of Non-Emergency Calls	1,751	1,934	2,206	1,824	2,105	2,079	2,254	2,418	2,249	2,055	2,051		22,926
Total	2,765	2,895	3,011	2,640	3,266	3,333	3,726	3,956	3,697	3,301	3,210	0	35,690
2020 DISPATCH	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
# of 911 Calls	1,183	1,027	512	325	362	395	503	480	664	432	1,187	446	7,516
# of Non-Emergency Calls	2,310	2,222	2,184	1,896	2,095	2,253	2,421	2,545	2,295	2,109	2,055	1,835	26,220
Total	3,493	3,249	2,696	2,221	2,457	2,648	2,924	3,025	2,959	2,541	3,242	2,281	33,736



### 2.2.1 Standard for answering 9-1-1 Calls

Ninety percent (90%) of all 9-1-1 calls arriving at the Public Safety Answering Point (PSAP) SHALL be answered within ( $\leq$ ) fifteen (15) seconds. Ninety-five (95%) of all 9-1-1 calls SHOULD be answered within ( $\leq$ ) twenty (20) seconds. A call flow diagram is available in Exhibit A.

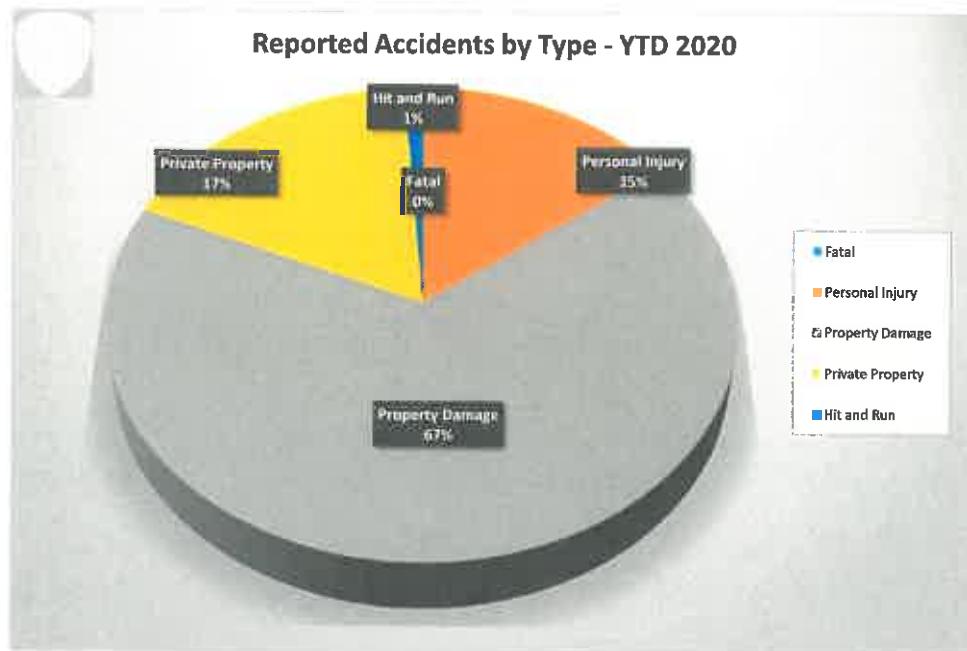
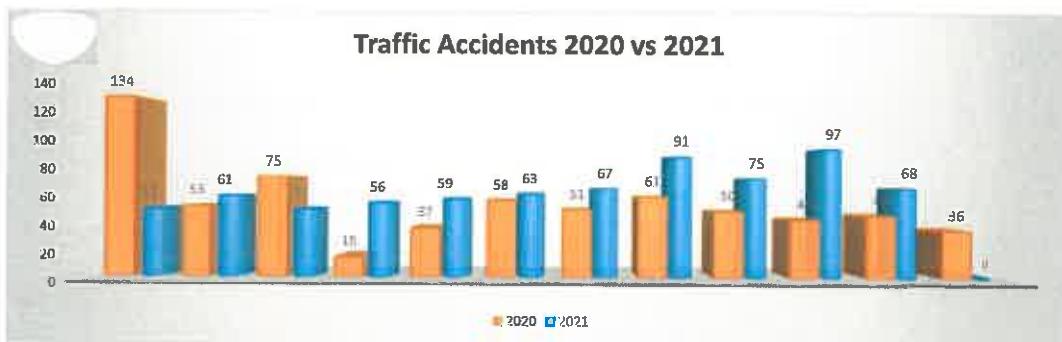
v



% answer time 15 seconds	99.15%
% answer time 20 seconds	99.23%



TRAFFIC ACCIDENT SUMMARY													
2021	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Fatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Injury	9	8	7	8	10	7	13	17	10	13	7		109
Property Damage	37	41	29	35	37	45	42	61	50	67	50		494
Private Property	0	10	15	13	12	11	12	12	15	17	11		128
Hit and Run	5	2	0	0	0	0	0	1	0	0	0		8
Total	51	61	51	56	59	63	67	91	75	97	68	0	739
2020	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Fatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Injury	66	12	36	1	6	12	13	16	15	8	6	4	195
Property Damage	56	40	29	9	20	32	33	35	32	28	37	28	379
Private Property	12	0	10	5	11	14	0	8	1	6	4	4	75
Hit and Run	0	1	0	0	0	0	5	2	2	2	0	0	12
Total	134	53	75	15	37	58	51	61	50	44	47	36	661



## TRAFFIC VIOLATION SUMMARY

**January 1, 2021 through December 31, 2021**

<b>2021</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUNE</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>YTD TOTAL</b>
OWI	3	3	4	4	3	4	2	3	13	3	7		49
Speed	45	16	40	35	30	21	34	25	35	40	42		363
Commercial	0	0	0	0	0	0	0	0	0	0	0		0
Traffic Stops	258	190	294	243	219	237	241	225	286	252	214		2,659

### Number of Arrests

<b>2021</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUNE</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>YTD TOTAL</b>
Felony	5	7	8	4	12	6	4	8	11	4	6		75
Misdemeanor	26	39	26	48	24	28	33	29	50	22	26		351
Citations	114	65	107	121	120	103	112	135	159	131	114		1,281
<b>Total</b>	<b>145</b>	<b>111</b>	<b>141</b>	<b>173</b>	<b>156</b>	<b>137</b>	<b>149</b>	<b>172</b>	<b>220</b>	<b>157</b>	<b>146</b>	<b>0</b>	<b>1,707</b>

**January 1, 2020 through December 31, 2020**

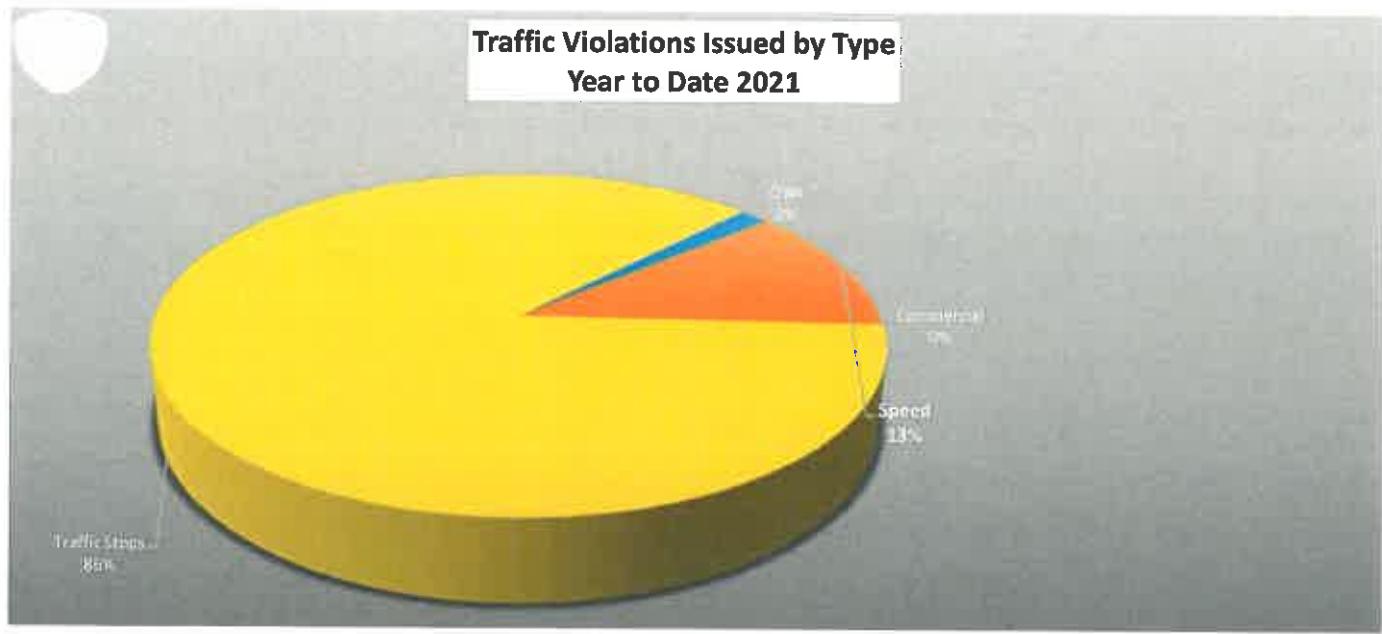
<b>2020</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUNE</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>YTD TOTAL</b>
OWI	6	6	2	0	3	0	5	12	1	5	3	6	49
Speed	59	65	49	1	2	2	56	67	50	13	3	15	382
Commercial	0	1	0	1	0	0	0	0	0	0	0	0	2
Traffic Stops	468	428	283	14	78	84	322	400	267	194	83	128	2,749

### Number of Arrests

<b>2020</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUNE</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>YTD TOTAL</b>
Felony	5	12	2	0	3	0	6	7	10	9	4	12	70
Misdemeanor	67	69	48	15	15	14	37	50	38	22	10	20	405
Citations	258	256	152	22	46	51	150	191	120	90	40	56	1,432
<b>Total</b>	<b>330</b>	<b>337</b>	<b>202</b>	<b>37</b>	<b>64</b>	<b>65</b>	<b>193</b>	<b>248</b>	<b>168</b>	<b>121</b>	<b>54</b>	<b>88</b>	<b>1,907</b>

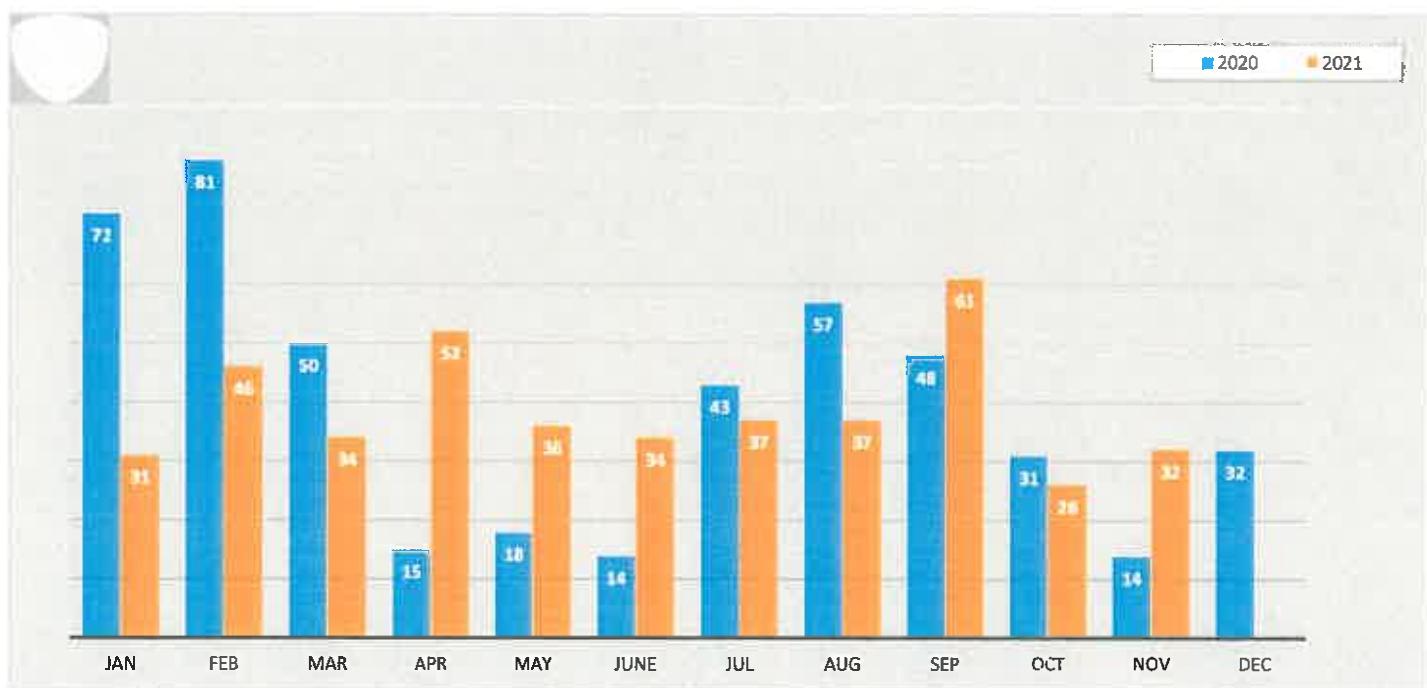
### Traffic Violations Issued by Type

**Year to Date 2021**



### NUMBER OF ARRESTS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
2021	31	46	34	52	36	34	37	37	61	26	32		426
2020	72	81	50	15	18	14	43	57	48	31	14	32	475



# FOIA Monthly Report

Run Date: 12/01/2021 8:00 AM

Request Date	Company Name	Customer Full Name	Type of Information Requested	Amount of Payment
11/8/2021		Joani Crews	Other	
11/8/2021	Waste Management of Michigan, Inc.	Public Sector Solutions III Brian Conaway	Contract	
11/16/2021	Remine	Associate Data Acquisition Analyst Christina Hogue	Other	
11/10/2021	BuildZoom	Janine Rugas	Building	
11/17/2021	Intertek	Administrative Assistant Lisa Mote	Building Code of Ordinance Records	
11/18/2021	AKT Peerless	Mr. Andrew Furton	Assessing Records Building Environment al Fire Report Public Services- Works	
11/22/2021	VH Plymouth, LLC	Development Director Michael Huszti	Building	
11/30/2021		Mr. Alexander Lyzohub	Building	
Total Requests: 8				Total Dollars: 0

## FOIA Monthly Report

Run Date: 12/02/2021 8:59 AM

Reference No	Create Date	Request Status	Assigned Desk	Company Name	Customer Full Name	Type of Information Requested	Total Fees Charged (\$)	Amount of Payment
W003251-110121	11/1/2021	Partial Release	Police Department		Mr. Grant Hartwig	Police Records	0.00	
W003253-110321	11/3/2021	Full Release	Police Department	LexisNexis	LexisNexis LEXIS NEXIS	Police Records	0.00	
W003256-110421	11/4/2021	Partial Release	Police Department	CURRIE INVESTIGATION S	RAY CURRIE	Police Records	0.00	
W003255-110421	11/4/2021	Full Release	Police Department	Stacer, PLC	Andrew Stacer	Police Records	0.00	
W003250-110121	11/1/2021	Partial Release	Police Department		Daher Al-Mayahi	Police Records	0.00	
W003252-110321	11/3/2021	Partial Release	Police Department		Christopher Chaperon	Police Records	0.00	
W003263-111221	11/12/2021	Partial Release	Police Department		Sara McLain-Wainwright	Police Records	0.00	
W003262-111221	11/12/2021	Partial Release	Police Department		DDANIEL PERKO	Police Records	0.00	
W003264-111521	11/15/2021	Sent to Attorney	Police Department	The Pazner Law Firm, P.C.	Eric Pazner	Police Records	0.00	
W003266-111721	11/17/2021	Partial Release	Police Department	HINES PARK LINCOLN	SHARRON PECK	Police Records	0.00	
W003267-111721	11/17/2021	No Records Exist	Police Department	Ash & Ash Legal Group	Legal Assistant Patricia Ash	Police Records	0.00	
W003270-111721	11/17/2021	New Request	Police Department		RONALD WALDSCHMIDT	Police Records	0.00	
W003265-111621	11/16/2021	Exemption Denial	Police Department	New School High	Business Manager Wendi Felgner	Police Records	0.00	
W003272-111821	11/18/2021	Exemption Denial	Police Department	New School High	Business Manager Wendi Felgner	Police Records	0.00	
W003274-112021	11/20/2021	Partial Release	Police Department		Mr Nicholas Arnold	Police Records	0.00	
W003278-112221	11/22/2021	Partial Release	Police Department		RYAN WAGGONER	Police Records	0.00	
W003276-112221	11/22/2021	Partial Release	Police Department		KEVIN LAMBERT	Police Records	0.00	
W003280-112321	11/23/2021	No Records Exist	Police Department	Mike Morse Law Firm	Cindy McLeod	Police Records	0.00	
W003281-112321	11/23/2021	No Records Exist	Police Department		Victim Felicia Reinke	Police Records	0.00	
W003277-112221	11/22/2021	Full Release	Police Department	HINES PARK LINCOLN	SHARRON PECK	Police Records	0.00	
W003282-112921	11/29/2021	Partial Release	Police Department		RHONDA SIMKO	Police Records	0.00	
W003283-113021	11/30/2021	Partial Release	Police Department		KIMBERLY ERVIN	Police Records	0.00	
W003254-110421	11/3/2021	Waiting for Payment	Police Department	FOIA Professional Services	Elizabeth Cuccias	Police Records	0.00	
W003279-112321	11/23/2021	Waiting for Payment	Police Department	Mike Morse Law Firm	Nichole Loughran	Police Records	0.00	

Reference No.	Create Date	Request Status	Assigned Dept	Company Name	Customer Full Name	Type of Information Requested	Total Fees Charged (\$)	Amount of Payment
<a href="#">W003271-111721</a>	11/17/2021	Partial Release	Police Department	The Law Office of Joseph F Awad	Joseph Awad	Police Records	1.54	61.34
<a href="#">W003259-110821</a>	11/8/2021	Partial Release	Police Department	Twin Arbors Apartments	Property Manager Chelsea Coleman	Police Records	0.90	6.88
<a href="#">W003260-110821</a>	11/8/2021	Partial Release	Police Department	Twin Arbors Apartments	Property Manager Chelsea Coleman	Police Records	0.00	
<b>Total Requests:</b> 27							<b>2.44</b>	<b>Total Dollars: 68.22</b>

BOARD DATE

12/14/2021

FUND NAME	FUND NUMBER	TOTAL INC PAYROLL		PAYROLL & INVOICES PAID PRIOR TO MEETING		INVOICES PAID AFTER BOARD REVIEW
GENERAL FUND	101	1,591,312.70		1,229,645.85		361,666.85
DRUG FORFEITURE	262		795.00			795.00
DRUG FORFEITURE	265					
DRUG FORFEITURE	266					
IMPROV. REV.	446					
SENIOR TRANSPORTATION	588	6,116.46		5,989.47		126.99
WATER & SEWER	592	580,000.00		105,579.41		474,420.59
SWD	596	264,321.21		5,402.39		258,918.82
TAX POOL	703		7,410.87			
POLICE BOND FUND	710		3,999.00			
SPECIAL ASSESS CAPITAL	805	9,326.00				9,326.00
	TOTAL			2,463,281.24		1,358,026.99
	GRAND TOTAL			2,463,281.24		1,105,254.25

D.3

**Charter Township of Plymouth  
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**VENDOR INFORMATION**

**INVOICE INFORMATION**

<b>AMV Hilltop Golf Management, LLC</b>		<b>Invoice Amount:</b>	<b>\$1,594.23</b>
HILLTOP - REIMBURSE PATH REMEDIATION SER		<b>Check Date:</b>	<b>12/14/2021</b>
101-751-930.000	REIMBURSE FOR PATH REMEDIATION SERVICE		1,594.23
<b>Advanced Satellite Communications</b>		<b>Invoice Amount:</b>	<b>\$468.00</b>
ASC -ACCESS SERVICE AGR - QTLY BILLING-SOC		<b>Check Date:</b>	<b>12/14/2021</b>
101-751-801.000	QTLY BILLING FOR SOCCER PARK #7493		468.00
<b>Advanced Satellite Communications</b>		<b>Invoice Amount:</b>	<b>\$468.00</b>
ASC -ACCESS SERVICE AGR - QTLY BILLING-SOC		<b>Check Date:</b>	<b>12/14/2021</b>
101-751-801.000	QTLY BILLING FOR SOCCER PARK #7898		468.00
<b>Advanced Satellite Communications</b>		<b>Invoice Amount:</b>	<b>\$468.00</b>
ASC -ACCESS SERVICE AGR - QTLY BILLING-SOC		<b>Check Date:</b>	<b>12/14/2021</b>
101-751-801.000	QTLY BILLING FOR SOCCER PARK #8493		468.00
<b>Advanced Satellite Communications</b>		<b>Invoice Amount:</b>	<b>\$105.00</b>
SA-ALARM- - QTLY BILLING - 10/1/2021-12/31/2		<b>Check Date:</b>	<b>12/14/2021</b>
101-265-801.000	SA-Alarm		50.04
101-301-801.000	SA-Alarm		32.24
101-336-801.000	SA-Alarm		13.42
592-536-801.000	SA-Alarm		9.30
<b>AIRGAS USA, LLC</b>		<b>Invoice Amount:</b>	<b>\$420.74</b>
INV # 9983593522 OXYGEN CYLINDER RENTAL		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-773.000	INV # 9983593522 RENT CYL MED LARGE OXY		316.36
101-336-773.000	MED XS OXYGEN		60.45
101-336-773.000	HAZMAT CHARGE		43.93
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$180.97</b>
INV # 85012 CLOTHING /HARRELL		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-767.000	INV# 85012 NAME TAG		18.99
101-336-767.000	UNIFORM PANTS		89.99
101-336-767.000	UNIFORM SEMI PERSHING WHITE CAP		59.99
101-336-767.000	UNIFORM GOLD CAP BAND		12.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$246.00</b>
INV. 84732 10/6/2021 UNIFORM BADGES		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-767.000	UNIFORM BADGES/SERGEANT HOFFMAN		246.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$608.89</b>
INV. 84437 9/9/2021 UNIFORM EQUIP/SGT. JAS		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-767.000	UNIFORM S/S SHIRT		149.97
101-301-767.000	UNIFORM L/S SHIRT		155.97
101-301-767.000	UNIFORM PANTS		248.97
101-301-767.000	UNIFORM COLLAR INSIGNIA		8.00
101-301-767.000	UNIFORM HAT BANK FLORAL SILVER		12.99
101-301-767.000	UNIFORM NAME		14.99
101-301-767.000	SGT CHEVRONS		18.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$1,508.72</b>
INV. 84457 9/13/2021 NEW HIRE UNIFORM EQUI		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-767.000	NEW OFFICER ISSUED EQUIPMENT		1,508.72
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$31.00</b>
INV. 84485 9/14/2021 UNIFORM EQUIP/SGT. JAS		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-767.000	UNIFORM CHEVRONS ON S/S SHIRTS		31.00

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**VENDOR INFORMATION**

**INVOICE INFORMATION**

	101-301-767.000	ADD BRAID TO PANTS	15.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$699.99</b>
INV. 84678 9/30/2021 POINT BLANK HI LITE VES		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	SERIAL 210000208133/210000208154	699.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$124.98</b>
INV. 84870 10/19/2021 UNIFORM EQUIP/OFC. H		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM STRYKE PANTS	74.99
	101-301-767.000	UNIFORM S/S SHIRT	49.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$68.97</b>
INV. 84871 10/19/2021 UNIFORM EQUIP/SGT. H		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM NAME TAG	44.97
	101-301-767.000	UNIFORM COLLAR INSIGNIA	24.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$124.95</b>
INV. 84960 11/03/2021 UNIFORM EQUIP/OFC. M		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM BOOTS	124.95
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$460.95</b>
INV. 84972 11/03/2021 UNIFORM EQUIP/SGT. K		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM S/S SHIRTS	149.97
	101-301-767.000	UNIFORM SGT. CHEVRONS	36.00
	101-301-767.000	UNIFORM SAP POCKETS	45.00
	101-301-767.000	BRAID PUT ON PANTS	30.00
	101-301-767.000	UNIFORM TRAFFIC VEST	59.99
	101-301-767.000	UNIFORM JACKET	139.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$36.00</b>
INV. 85070 11/10/2021 UNIFORM EQUIP/OFC. H		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM MOCK TURTLENECK	36.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$794.42</b>
INV. 85118 11/23/2021 UNIFORM EQUIP/OFC. C		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM RAIN CAP COVER	10.99
	101-301-767.000	UNIFORM BLAUER BOOTS	157.99
	101-301-767.000	UNIFORM TIE	7.50
	101-301-767.000	UNIFORM TIE BAR	11.99
	101-301-767.000	UNIFORM COAT	340.99
	101-301-767.000	UNIFORM CARGO PANTS	119.98
	101-301-767.000	UNIFORM PANTS	59.99
	101-301-767.000	ALTERATIONS TO PANTS	48.00
	101-301-767.000	UNIFORM MOCK NECK SHIRT	36.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$144.00</b>
INV. 85119 11/23/2021 UNIFORM EQUIP/SGT. JA		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	SAP POCKETS FOR UNIFORM PANTS	90.00
	101-301-767.000	SHIRTS TAPERED	54.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$252.97</b>
INV. 85123 11/03/2021 UNIFORM EQUIP/OFC. JA		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-767.000	UNIFORM PANTS	139.98
	101-301-767.000	UNIFORM MOCK TURTLENECK SHIRT	36.00
	101-301-767.000	UNIFORM MOCK DICKIE	16.99
	101-301-767.000	SAPS FOR PANTS	60.00

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$167.00</b>
INV. 84435 9/9/2021 UNIFORM EQUIP/OFC. HIN		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-767.000	UNIFORM BOOTS		160.00
101-301-767.000	UNIFORM TIE		7.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$69.99</b>
INV. 84662 9/28/2021 UNIFORM EQUIPMENT/PS		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM PANTS		69.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$119.98</b>
INV. 84797 10/12/2021 UNIFORM EQUIPMENT/P		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM PANTS		119.98
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$241.99</b>
INV. 84959 11/3/2021 UNIFORM EQUIPMENT/SU		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM BOOTS		190.00
101-325-767.000	UNIFORM LONG SLEEVE SHIRT		51.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$69.99</b>
INV. 85017 11/8/2021 UNIFORM EQUIPMENT/PS		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM PANTS		69.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$129.98</b>
INV. 85117 11/23/2021 UNIFORM EQUIPMENT/S		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-767.000	UNIFORM S/S POLO		49.99
101-301-767.000	UNIFORM PANTS STRYKE		79.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$129.98</b>
INV. 85120 11/23/2021 UNIFORM EQUIPMENT/P		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM POLO		49.99
101-325-767.000	UNIFORM STRYKE PANTS		79.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$405.95</b>
INV. 85121 11/23/2021 UNIFORM EQUIPMENT/P		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM PANTS		149.98
101-325-767.000	UNIFORM SHIRTS S/S		117.98
101-325-767.000	UNIFORM BOOTS		100.00
101-325-767.000	UNIFORM GARRISON BELT		37.99
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$49.99</b>
INV. 85122 11/23/2021 UNIFORM EQUIPMENT/P		<b>Check Date:</b>	<b>12/14/2021</b>
101-325-767.000	UNIFORM S/S POLO		49.99
<b>ALPHAGRAPHICS #336</b>		<b>Invoice Amount:</b>	<b>\$418.45</b>
RETURN ADDRESS ENVELOPES (5000 CT)		<b>Check Date:</b>	<b>12/14/2021</b>
101-215-752.000	RET ADDRESS ENV (5000 CT)		418.45
<b>AMERICAN LEGAL PUBLISHING CORP.</b>		<b>Invoice Amount:</b>	<b>\$2,312.00</b>
RECODIFICATION OF ORDINANCES FOLIO CONV		<b>Check Date:</b>	<b>12/14/2021</b>
101-261-900.000	FINAL BILLING #9882		2,312.00
<b>APOLLO FIRE EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$534.48</b>
INV #107477 BARRICADE TAPE		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-757.000	INV# 107477 BARRICADE TAPE		384.00
101-336-757.000	SHIPPING		150.48

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>APOLLO FIRE EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$2,166.75</b>
INV# 59423 DIAGNOSTIC AND INSPECTION OF		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-757.000	INV# 59423 MSA DIAGNOSTIC TESTS/INSPECT		1,464.00
101-336-757.000	MSA TESTING		171.00
101-336-757.000	MSA REPAIR		69.75
101-336-757.000	QUICK FILL POUCH		300.00
101-336-757.000	TRAVEL		162.00
<b>AutoZone, Inc.</b>		<b>Invoice Amount:</b>	<b>\$24.16</b>
INV # 4382640184		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-863.000	INV# 4382624253		24.16
<b>AutoZone, Inc.</b>		<b>Invoice Amount:</b>	<b>\$29.60</b>
INV. 4382642095 12/6/2021 VEHICLE SUPPLIES		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-863.000	WINDSHIELD WIPERS - VEHICLE #19-3		29.60
<b>AutoZone, Inc.</b>		<b>Invoice Amount:</b>	<b>\$37.04</b>
INV. 4382636079 11/18/2021 VEHICLE SUPPLIES		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-863.000	WINDSHIELD WIPERS/DETECTIVE VEHICLE		37.04
<b>Axon Enterprise, Inc.</b>		<b>Invoice Amount:</b>	<b>\$375.00</b>
INV. SI-1742561 6/2/2021 TASER BASIC INSTRU		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-958.000	OFFICER WILDER - JULY 2021		375.00
<b>B &amp; R JANITORIAL SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$2,329.84</b>
INV.#193334 NOVEMBER B & R JANITORIAL OR		<b>Check Date:</b>	<b>12/14/2021</b>
101-265-775.000	INV#193334		1,164.92
101-673-775.000	INV#193334		69.90
101-301-775.000	INV#193334		582.46
101-325-775.000	INV#193334		186.39
101-351-775.000	INV#193334		46.60
101-336-775.000	INV#193334		46.60
592-536-775.000	INV#193334		232.97
<b>BATTERIES PLUS BULBS</b>		<b>Invoice Amount:</b>	<b>\$75.90</b>
#P45429181 11/4/21 FOR METER READING HAN		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-757.000	175W INVERTER		75.90
<b>BENNETT &amp; DEMOPOULOS, PLLC</b>		<b>Invoice Amount:</b>	<b>\$12,018.32</b>
LEGAL SERVICES - NOVEMBER 2021		<b>Check Date:</b>	<b>12/14/2021</b>
101-261-807.000	ORDINANCE PROSECUTIONS		8,058.75
101-701-806.000	COMMUNITY DEVELOPMENT		1,260.00
101-261-806.000	ADMINISTRATION		2,260.94
101-261-806.000	MISCELLANEOUS		5.50
101-261-806.000	CABLE		105.00
592-536-806.000	WATER AND SEWER		328.13
<b>BLACKWELL FORD INC.</b>		<b>Invoice Amount:</b>	<b>\$240.30</b>
INV # 383920 RESCUE 3 REPLACED PASSENGER		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-863.000	INV# 383920 REPLACED SEATBELT		95.00
101-336-863.000	LABOR		145.30
<b>BLACKWELL FORD INC.</b>		<b>Invoice Amount:</b>	<b>\$535.39</b>
INV. 384025 11/29/2021 VEHICLE REPAIR/C9980		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-863.000	OIL CHG/REAR BRAKE PAD & ROTORS/2 TIRES		535.39

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
BLACKWELL FORD INC.		Invoice Amount:	\$37.02
INV. 384203 11/29/2021 VEHICLE REPAIR/A3947. 101-301-863.000	REPLACED INOP HEADLAMP BULB	Check Date:	12/14/2021 37.02
BLACKWELL FORD INC.		Invoice Amount:	\$54.77
INV. 383949 11/22/2021 VEHICLE REPAIR/12807 101-301-863.000	THE WORKS OIL CHANGE	Check Date:	12/14/2021 54.77
BLACKWELL FORD INC.		Invoice Amount:	\$54.77
INV. 384081 11/24/2021 VEHICLE REPAIR/A4193 101-301-863.000	THE WORKS OIL CHANGE	Check Date:	12/14/2021 54.77
BLACKWELL FORD INC.		Invoice Amount:	\$330.21
INV#384147 2014 FORD EXPLORER REPAIR 101-371-863.000	INV#384147 2014 FORD EXPLORER REPAIR	Check Date:	12/14/2021 330.21
BLACKWELL FORD INC.		Invoice Amount:	\$60.11
INV. 383647 11/11/2021 VEHICLE REPAIR/A3947 101-301-863.000	OIL CHANGE/AIR FILTER	Check Date:	12/14/2021 60.11
BLACKWELL FORD INC.		Invoice Amount:	\$54.77
INV. 383322 11/12/2021 VEHICLE REPAIR/1680 101-301-863.000	THE WORKS OIL CHANGE	Check Date:	12/14/2021 54.77
OCCUPATIONAL HEALTH CENTERS OF MI		Invoice Amount:	\$92.00
UDS COLLECT AND RANDOM BATS - NELSON D 592-537-835.000	DAVID NELSON (DPW) # 714027937	Check Date:	12/14/2021 92.00
CBTS, LLC		Invoice Amount:	\$291.50
CABLING SERVICES 101-215-757.000	CABELING SERVICE	Check Date:	12/14/2021 291.50
CDW GOVERNMENT INC		Invoice Amount:	\$1,964.80
POLICE DATA SWITCH (2) SUPPORT RENEWAL-Q 101-261-831.000	CISCO SMARTNET-1 YR/NBD - (2 SWITCHES)	Check Date:	12/14/2021 1,964.80
CDW GOVERNMENT INC		Invoice Amount:	\$5,873.55
DATA SWITCHES (6) SUPPORT RENEWAL - QUOT 101-261-831.000	CISCO SMARTNET-8X5XNBD RENEWAL 6 SWIT	Check Date:	12/14/2021 5,873.55
CDW GOVERNMENT INC		Invoice Amount:	\$1,204.20
GFI ARCHIVE SUPPORT1 YR RENEWAL - QUOTE 101-261-831.000	GFI Archive Supp Renew-G-MARREN50-249-1Y	Check Date:	12/14/2021 1,204.20
CDW GOVERNMENT INC		Invoice Amount:	\$975.34
FIRE DEPT DATA SWITCHES (3) SUPPORT RENE 101-261-831.000	CISCO SMARTNET 1 YR/NBD 3 SWITCHES	Check Date:	12/14/2021 975.34
CDW GOVERNMENT INC		Invoice Amount:	\$99.00
TECHNICAL SUPPORT HOURS - AD HOC SOW 101-261-831.000	TECHNICAL SUPPORT HOURS-25	Check Date:	12/14/2021 99.00
CINTAS CORPORATION - 300		Invoice Amount:	\$247.83
INV. 4100901031 11/5/2021 MAT SERVICE FOR 101-301-822.000	Mats for pd	Check Date:	12/14/2021 247.83

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>CINTAS CORPORATION - 300</b>		<b>Invoice Amount:</b>	<b>\$247.83</b>
INV. 4103661982 12/3/2021 MAT SERVICE FOR <i>101-301-822.000</i>	<i>Mats for pd</i>	<b>Check Date:</b>	<b>12/14/2021</b>
			<b>247.83</b>
<b>CODE SAVVY CONSULTANTS LLC</b>		<b>Invoice Amount:</b>	<b>\$365.00</b>
INV.#1892 CHIPOTLE SPRINKLER PLAN REVIEW <i>101-371-801.000</i>	<i>INV#1892 CHIPOTLE PLAN REVIEW</i>	<b>Check Date:</b>	<b>12/14/2021</b>
			<b>365.00</b>
<b>CODE SAVVY CONSULTANTS LLC</b>		<b>Invoice Amount:</b>	<b>\$1,500.00</b>
INV.#1891 EOTECH FIRE ALARM SYSTEM PLAN R <i>101-371-801.000</i>	<i>INV#1891 EOTECH PLAN REVIEW</i>	<b>Check Date:</b>	<b>12/14/2021</b>
			<b>1,500.00</b>
<b>CODE SAVVY CONSULTANTS LLC</b>		<b>Invoice Amount:</b>	<b>\$265.00</b>
INV.#1893 CHIPOTLE FIRE ALARM PLAN REVIEW <i>101-371-801.000</i>	<i>INV#1893 CHIPOTLE FIRE ALARM</i>	<b>Check Date:</b>	<b>12/14/2021</b>
			<b>265.00</b>
<b>COMSOURCE, INC.</b>		<b>Invoice Amount:</b>	<b>\$270.00</b>
INV# 509921 HEADSETS NOT SYNCED WITH RI <i>101-336-931.000</i>	<i>INV# 509921 HEADSETS SYNCED WITH RIGS</i>	<b>Check Date:</b>	<b>12/14/2021</b>
			<b>270.00</b>
<b>CORRIGAN OIL COMPANY</b>		<b>Invoice Amount:</b>	<b>\$3,303.74</b>
#7397887 12/15/21		<b>Check Date:</b>	<b>12/14/2021</b>
	<i>592-537-759.000</i>	<i>Fuel Tax Recap</i>	<i>15.60</i>
	<i>592-537-759.000</i>	<i>Environmental Fee</i>	<i>9.95</i>
	<i>592-537-759.000</i>	<i>GE87 GAS-ETHANOL</i>	<i>2,133.23</i>
	<i>592-537-759.000</i>	<i>DYDLSMIX</i>	<i>1,144.96</i>
<b>Corporate Benefit Solutions, LLC</b>		<b>Invoice Amount:</b>	<b>\$400.00</b>
NOV. 2021 PREMIUM FOR BENEXPRESS ENROLL. <i>101-171-805.000</i>	<i>BENEXPRESS ENROLLMENT #4036</i>	<b>Check Date:</b>	<b>12/14/2021</b>
			<b>400.00</b>
<b>Dell Financial Services, LLC.</b>		<b>Invoice Amount:</b>	<b>\$985.70</b>
PD COMPUTER LEASES - #810-6755980-006 (1/ <i>101-000-123.000</i>	<i>PD - 14 computers - see notes</i>	<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-000-123.000</i>	<i>Rounding Adjustment</i>		<i>985.74</i>
			<i>(0.04)</i>
<b>Dell Financial Services, LLC.</b>		<b>Invoice Amount:</b>	<b>\$126.34</b>
LEASES - # 6755980-007 (HR & BLDG) 1/1/22 - <i>101-000-123.000</i>	<i>Building - 1 comptuer (see notes)</i>	<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-000-123.000</i>	<i>HR - 1 computer (see notes)</i>		<i>63.17</i>
			<i>63.17</i>
<b>Dell Financial Services, LLC.</b>		<b>Invoice Amount:</b>	<b>\$279.89</b>
LEASES - BLDG, CLERK, DPW -CONTRACT # 6755 <i>101-000-123.000</i>	<i>Building - 1 comptuer (see notes)</i>	<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-000-123.000</i>	<i>Clerk - 1 computer (see notes)</i>		<i>69.98</i>
<i>592-000-123.000</i>	<i>DPW - 2 computer (see notes)</i>		<i>69.97</i>
			<i>139.94</i>
<b>Dell Financial Services, LLC.</b>		<b>Invoice Amount:</b>	<b>\$768.48</b>
COMPUTER LEASES QTY PAYMENTS 1/1/22--3/3 <i>101-000-123.000</i>	<i>Assessing Dept. Computers (Lease - Qty)</i>	<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-000-123.000</i>	<i>Building Dept. Computers (Lease- Qty)</i>		<i>320.20</i>
<i>101-000-123.000</i>	<i>Acctng Dept. Computers (Lease - Qtrly)</i>		<i>192.12</i>
<i>592-000-123.000</i>	<i>DPS Computers (Lease - Qtrly)</i>		<i>128.08</i>
<i>596-000-123.000</i>	<i>SolidWaste Computers (Lease - Qtrly)</i>		<i>64.04</i>
			<i>64.04</i>
<b>Dell Financial Services, LLC.</b>		<b>Invoice Amount:</b>	<b>\$61.94</b>
PLANNING DEPT.-- COMPUTER CONTRACT # 675		<b>Check Date:</b>	<b>12/14/2021</b>
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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
	101-000-123.000	Planning Dept. .Computer (Lease-Qtly)	61.94
<b>DON'S SMALL ENGINE REPAIR, INC</b>		<b>Invoice Amount:</b>	<b>\$22.41</b>
INV. # 59359 - 3 OIL FILTERS FOR Z-TUR (PART		<b>Check Date:</b>	<b>12/14/2021</b>
	101-751-931.000	EQUIP MAINTENANCE - INV # 59359	22.41
<b>EctoHR, Inc.</b>		<b>Invoice Amount:</b>	<b>\$6,825.00</b>
ECTOHR - NOVEMBER 2021 SERVICES - (DETAIL		<b>Check Date:</b>	<b>12/14/2021</b>
	101-171-805.000	11/21SERVICES - #12557	6,825.00
<b>EHLERS HEATING &amp; AIR CONDITIONING</b>		<b>Invoice Amount:</b>	<b>\$735.30</b>
PARKS - FURNACE REPAIR - # 73379 (11/3/21)		<b>Check Date:</b>	<b>12/14/2021</b>
	101-751-930.000	INVOICE 73379	735.30
<b>EHLERS HEATING &amp; AIR CONDITIONING</b>		<b>Invoice Amount:</b>	<b>\$796.83</b>
INV# 73445 INDUCER ASSEMBLY AND REPLACE		<b>Check Date:</b>	<b>12/14/2021</b>
	101-336-930.000	INV# 73445 INSTALLED NEW INDUCER	796.83
<b>ElectroCycle, Inc</b>		<b>Invoice Amount:</b>	<b>\$30.00</b>
ELECTRONIC EQUIPMENT RECYCLING - PICK-UP		<b>Check Date:</b>	<b>12/14/2021</b>
	101-261-831.000	PICK-UP FEE TO RECYCLE ELECTRONIC EQUIP	30.00
<b>ESRI, INC.</b>		<b>Invoice Amount:</b>	<b>\$6,450.00</b>
MAINTENANCE RENEWAL 12/2021 - 12/2022		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-831.000	MAINTENANCE RENEWAL 12/2021 - 12/2022	6,450.00
<b>ETNA SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$93.00</b>
#S104295669.001 11/8/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-757.000	FERNCO 1006-1212 12X12 FLEX COUPLING 12I	93.00
<b>ETNA SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$2,010.00</b>
#S104292598 QUOTE DATE 11/4/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-757.000	MUELLER H15204N 1FLRXFLR	1,170.00
	592-537-757.000	MUELLER H15000 NL 1" FLARE CORP	530.00
	592-537-757.000	C04-44-Q-NL COUPLING	310.00
<b>ETNA SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$6,372.00</b>
#S104305687 11/15/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-757.000	C04-44-Q-NL COUPLING 174658	330.00
	592-537-757.000	1X60FT COP K SOFT COIL 54407	2,862.00
	592-537-757.000	1X100FT COP K SOFT COIL 16287	3,180.00
<b>ETNA SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$38.00</b>
#S104311858.002 11/22/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-757.000	INSERT-52 1" INSERT FOR PE TUBING USE W/	38.00
<b>FEDEX</b>		<b>Invoice Amount:</b>	<b>\$14.83</b>
INV. 7-553-71147 11/3/2021 PACKAGE SHIPPED		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-851.000	PCKG SHIPPED TO SAFE FLEET MOBILE VISTO	14.83
<b>FELLRATH, PATRICK</b>		<b>Invoice Amount:</b>	<b>\$78.40</b>
MILEAGE REIMBURSEMENT NOVEMBER 2021		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-861.000	MILEAGE REIMBURSEMENT NOVEMBER 2021	78.40
<b>Ferguson Waterworks</b>		<b>Invoice Amount:</b>	<b>\$856.72</b>
#0143572 11/8/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-787.000	3/4 LEAT MTR WSHER 1/8	395.00

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
		592-537-787.000	1 LEAT MTR WSHER 1/8
		592-537-787.000	DELIVERY
			450.00
			11.72
<b>FIRE SERVICE MANAGEMENT</b>			
INV # 24934 REPAIR/CLEANING/ SUITER			<b>Invoice Amount:</b> \$128.50
	101-336-767.000	INV# 24934 CLEANING	<b>Check Date:</b> 12/14/2021
	101-336-767.000	FABRICATE AND INSTALL TAKE IN STRAPS	28.50
	101-336-767.000	SHORTEN SUSPENDERS	80.00
			20.00
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$28,526.31
1661574 - NOV 2021 RESIDENTIAL YARD WASTE			<b>Check Date:</b> 12/14/2021
	596-528-815.000	1,056.53 TONS @ 27.00/TON - NOV 2021	28,526.31
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$107,678.01
52986158 NOV 2021 - RESIDENTIAL COLLECTIO			<b>Check Date:</b> 12/14/2021
	596-528-815.000	NOV 2021 TRASH	69,684.45
	596-528-815.000	NOV 2021 RECYCLING	19,351.86
	596-528-815.000	NOV 2021 YARD WASTE	18,641.70
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$225.00
#0051987149 DPW RECYCLE CENTER			<b>Check Date:</b> 12/14/2021
	596-528-816.000	09/28/21- CARDBOARD/PAPER	225.00
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$225.00
#0051783267 DPW RECYCLE CENTER			<b>Check Date:</b> 12/14/2021
	596-528-816.000	09/16/21- CARDBOARD/PAPER	225.00
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$225.00
#0051716145 DPW RECYCLE CENTER			<b>Check Date:</b> 12/14/2021
	596-528-816.000	09/09/21 - CARDBOARD/PAPER	225.00
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$450.00
#0051596376 DPW RECYCLE CENTER			<b>Check Date:</b> 12/14/2021
	596-528-816.000	08.23.21 - CARDBOARD/PAPER	225.00
	596-528-816.000	08.25.21 - TINS/PLASTIC	225.00
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$13,074.75
1661574 - OCT 2021 RESIDENTIAL YARD WASTE			<b>Check Date:</b> 12/14/2021
	596-528-815.000	484.25 TONS @ 27.00/TON - OCT 2021	13,074.75
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$107,762.92
52268352 OCT 2021 - RESIDENTIAL COLLECTIO			<b>Check Date:</b> 12/14/2021
	596-528-815.000	OCT 2021 TRASH	69,739.40
	596-528-815.000	OCT 2021 RECYCLING	19,367.12
	596-528-815.000	OCT 2021 YARD WASTE	18,656.40
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$450.00
#0052278549 DPW RECYCLE CENTER			<b>Check Date:</b> 12/14/2021
	596-528-816.000	10/06/21- CARDBOARD/PAPER	225.00
	596-528-816.000	10/13/21- CARDBOARD/PAPER	225.00
<b>GFL Environmental USA, Inc.</b>			<b>Invoice Amount:</b> \$896.44
0052278681 DPW STREET SWEEPING DEBRIS			<b>Check Date:</b> 12/14/2021
	592-540-824.000	DUMPSTERS - STREET SWEEPING 10/20/2021	367.50
	592-540-824.000	20.15 TONS - DISPOSAL FEE - 26.25/TON	528.94

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
GFL Environmental USA, Inc.		Invoice Amount:	\$225.00
#0052559878 DPW RECYCLE CENTER		Check Date:	12/14/2021
	596-528-816.000		225.00
General Linen & Uniform Service		Invoice Amount:	\$34.50
INV. 0346486 6/23/2021 PRISONER BLANKET CL		Check Date:	12/14/2021
	101-351-822.000	Blanket Cleaning	27.00
	101-351-822.000	DELIVERY CHARGE	7.50
General Linen & Uniform Service		Invoice Amount:	\$45.75
INV. 0360839 10/6/2021 PRISONER BLANKET CL		Check Date:	12/14/2021
	101-351-822.000	Blanket Cleaning	38.25
	101-351-822.000	DELIVERY CHARGE	7.50
<b>GRAPH-X</b>		Invoice Amount:	\$400.00
INV# 2102642 DETAILING ON THE INSPECTORS		Check Date:	12/14/2021
	101-336-970.000	INV# 2102642 BLACK REFLECTIVE STRIPE	160.00
	101-336-970.000	DESIGN/ SET-UP	80.00
	101-336-970.000	INSTALLATION-HOUR	160.00
Great Lakes Ace Hardware		Invoice Amount:	\$5.30
INV # 7508/876 RING WAX		Check Date:	12/14/2021
	101-336-757.000	INV# 7508/876	5.30
Great Lakes Ace Hardware		Invoice Amount:	\$30.98
INV # 7547/876 GARDEN SPRAY / WRENCH GEA		Check Date:	12/14/2021
	101-336-757.000	INV # 7547/876 GARDEN SPRAY/WRENCH GEA	30.98
GreatAmerica Financial Services		Invoice Amount:	\$500.56
ORIG FEE, STD PMT, FREIGHT, TRANS BILLING		Check Date:	12/14/2021
	101-215-940.000	STD PMT	447.28
	101-215-940.000	FREIGHT	5.30
	101-215-940.000	Late Charge	47.98
Great Lakes Water Authority		Invoice Amount:	\$136.29
GLWA - INDUSTRIAL WASTE CONTROL BILL 10/1		Check Date:	12/14/2021
	592-538-827.000	GLWA - INDUSTRIAL WASTE CONTROL BILL	136.29
Great Lakes Water Authority		Invoice Amount:	\$2,016.00
LEAD & COPPER TESTING FEE		Check Date:	12/14/2021
	592-537-801.000	LEAD & COPPER TESTING FEE	2,016.00
Great Lakes Water Authority		Invoice Amount:	\$361,666.49
GLWA - OCTOBER 2021 WATER USAGE CHARGES		Check Date:	12/14/2021
	592-538-829.000	GLWA - OCTOBER 2021 WATER USAGE	361,666.49
GUARDIAN ALARM CO		Invoice Amount:	\$280.02
ALARM BILLING PLYMOUTH TOWNSHIP PUMP H		Check Date:	12/14/2021
	592-537-801.000	Monitoring, Maintenance & Services	280.02
HALT FIRE INC		Invoice Amount:	\$3,511.18
INV# S0094625 R 1 REPLACED STRUTS AND BUS		Check Date:	12/14/2021
	101-336-863.000	INV# S0094625 SHOP LABOR	744.00
	101-336-863.000	BUSHING KIT TRACK ROD	63.70
	101-336-863.000	STRUT 1.5 ROD	895.92
	101-336-863.000	BEARING SPACER	66.04
	101-336-863.000	STRUT 1.5 ROD	

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101-336-863.000	FREIGHT		119.44
101-336-863.000	SHOP		35.00
101-336-863.000	SHOP LABOR REPLACED RIGHT HEIGHT VALVE		336.00
101-336-863.000	FREIGHT		26.75
101-336-863.000	DELIVERY		75.00
101-336-863.000	SENSOR REAR HEIGHT		253.41
<b>HALT FIRE INC</b>		<b>Invoice Amount:</b>	<b>\$1,367.94</b>
INV# S0094631 USAR-4 REPAIR OIL LEAK/REPAI		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-863.000	INV#S0094631 SHOP-LABOR OIL LEAK		192.00
101-336-863.000	SHOP-LABOR REWIRED FANS		1,056.00
101-336-863.000	DELIVERY		75.00
101-336-863.000	FREON		19.94
101-336-863.000	MISC. SHOP SUPPLIES		25.00
<b>HALT FIRE INC</b>		<b>Invoice Amount:</b>	<b>\$2,597.52</b>
INV# S0094792 R 1 REPLACED BOTH AXLE U JOI		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-863.000	INV# S0094792 SHOP LABOR		1,872.00
101-336-863.000	U JOINT FRONT AXLE		266.58
101-336-863.000	SEAL OIL		210.24
101-336-863.000	SEAL		89.70
101-336-863.000	SHOP SUPPLIES		35.00
101-336-863.000	DELIVERY		124.00
<b>HAMMYE, AMY</b>		<b>Invoice Amount:</b>	<b>\$363.44</b>
MILEAGE FOR FEBRUARY THRU NOVEMBER 2021		<b>Check Date:</b>	<b>12/14/2021</b>
101-253-861.000	MILEAGE THRU 11/30/21		363.44
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$2,838.06</b>
NORTHVILLE RD REHAB PRV OCT ENDING		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-970.000	NORTHVILLE RD REHAB PRV		2,838.06
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$1,150.02</b>
NORTHVILLE RD RHAB PRV		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-970.000	NORTHVILLE RD RHAB PRV		1,150.02
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$8,257.08</b>
NORTHVILLE RD REHAB PRV		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-970.000	NORTHVILLE RD REHAB PRV		8,257.08
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$5,421.32</b>
WATER SYSTEM HYDRAULIC MODEL		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-803.000	WATER SYSTEM HYDRAULIC MODEL		5,421.32
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$3,669.34</b>
WATER SYSTEM HYDRAULIC MODEL		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-803.000	WATER SYSTEM HYDRAULIC MODEL		3,669.34
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$1,856.81</b>
WATER SYSTEM EMERGENCY PLAN REVIEW		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-803.000	WATER SYSTEM EMERGENCY PLAN REVIEW		1,856.81
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$373.38</b>
WATERMANIN REHAB AA RD PLAN REVIEW		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-803.000	WATERMANIN REHAB AA RD PLAN REVIEW		373.38
<b>HUBBELL, ROTH, &amp; CLARK, INC.</b>		<b>Invoice Amount:</b>	<b>\$1,265.28</b>
WATERMAIN AA RD REHAB		<b>Check Date:</b>	<b>12/14/2021</b>

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
	592-537-803.000	WATERMAIN AA RD REHAB	1,265.28
HUBBELL, ROTH, & CLARK, INC.		Invoice Amount:	\$14,970.99
NORTHVILLE RD REHAB PRV		Check Date:	12/14/2021
	592-537-970.000	NORTHVILLE RD REHAB PRV	14,970.99
HUMANE SOCIETY OF HURON VALLEY		Invoice Amount:	\$50.00
INV. 202104 4/30/2021 STRAY IMPOUND SERVIC		Check Date:	12/14/2021
	101-301-836.000	STRAY IMPOUND SERVICES	50.00
HUMANE SOCIETY OF HURON VALLEY		Invoice Amount:	\$50.00
INV. 202111 11/30/2021 STRAY IMPOUND SERVI		Check Date:	12/14/2021
	101-301-836.000	STRAY IMPOUND SERVICES	50.00
Huron Valley Guns, LLC		Invoice Amount:	\$164.97
SALES RECEIPT #189192 PANTS / PICKERT		Check Date:	12/14/2021
	101-336-767.000	ITEM # 27226 PANTS/ SALES REC #189192	164.97
IMEG Corp.		Invoice Amount:	\$260.00
SE UPGRADE 10/1-10/31		Check Date:	12/14/2021
	592-537-831.000	SE UPGRADE INV#21005276.00-4	260.00
IMEG Corp.		Invoice Amount:	\$4,430.80
SCADA UPGRADE		Check Date:	12/14/2021
	592-536-831.000	SCADA UPGRADE	4,430.80
INTERNATIONAL CODE COUNCIL, INC.		Invoice Amount:	\$145.00
INV#3321915 INTERNATIONAL CODE COUNCIL		Check Date:	12/14/2021
	101-371-957.000	INVOICE 3321915	145.00
IPS Drug Testing, LLC		Invoice Amount:	\$40.00
RANDOM FEDERAL DOT - NELSON (11/23/21) -- I		Check Date:	12/14/2021
	592-537-835.000	NELSON-- INV. # 202112043777852	40.00
IRON MOUNTAIN		Invoice Amount:	\$255.81
OFFSITE STORAGE NOVEMBER 2021		Check Date:	12/14/2021
	101-215-801.000	OFFSITE STORAGE - NOVEMBER 2021	255.81
IRON MOUNTAIN		Invoice Amount:	\$255.81
OFFSITE STORAGE OCTOBER 2021		Check Date:	12/14/2021
	101-215-801.000	OFFSITE STORAGE - OCTOBER 2021	255.81
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$25.81
ORDER # 599498		Check Date:	12/14/2021
	101-336-773.000	NUTRAMAX FIRST AID ADHESIVE BANDAGES,	15.21
	101-336-773.000	CYLINDER WRENCH, PLASTIC, SMALL, 50/CAS	10.60
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$649.59
ORDER # 590511		Check Date:	12/14/2021
	101-336-773.000	PROCEDURE MASK, TISSUE BLUE, SO SOFT LI	649.59
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$11.01
ORDER # 590511		Check Date:	12/14/2021
	101-336-773.000	PROCEDURE MASK, TISSUE BLUE, SO SOFT LI	11.01
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$1,835.66
ORDER # 599498		Check Date:	12/14/2021

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101-336-773.000	AMBU SPUR II DISPOSABLE RESUSCITATOR, A	169.80
101-336-773.000	NUTRAMAX FIRST AID ADHESIVE BANDAGES,	10.59
101-336-773.000	3M TEGADERM HP (HOLDING POWER) TRANSP	232.00
101-336-773.000	COLD PACK RAPID 5½" X 10½"	67.20
101-336-773.000	KING LTS-D SIZE 4 KIT - INCLUDES: (1) SY	179.95
101-336-773.000	KING LTS-D SIZE 5 KIT - INCLUDES: (1) SY	179.95
101-336-773.000	KING LTS-D SIZE 2 KIT - INCLUDES: (1) SY	272.00
101-336-773.000	COVIDIEN 530 SERIES ECG ELECTRODES ECG	119.80
101-336-773.000	MICRODOT ORAL GLUCOSE/GLUTOSE GEL, FO	31.95
101-336-773.000	GD50 BLOOD GLUCOSE TEST STRIPS, 50/BOX	99.00
101-336-773.000	SURGICAL FACE MASK, EAR LOOP, BLUE, 3-PL	379.90
101-336-773.000	EKG PAPER FOR LIFEPAK 12 RED GRID 100MM	93.52

**JANKS, ROBERT**

MILEAGE SEPT 2021

101-228-861.000	MILEAGE SEPT 2021	<b>Invoice Amount:</b> \$280.00
		<b>Check Date:</b> 12/14/2021

280.00

**KNIGHT TECHNOLOGY GROUP, INC.**

TECH SUPPORT - EXCHANGE SERVER MS SECURI

101-261-831.000	TECH SUPP -EXCHANGE SVR SEC UPDATES	<b>Invoice Amount:</b> \$525.00
		<b>Check Date:</b> 12/14/2021

525.00

**KNIGHT TECHNOLOGY GROUP, INC.**

TECH SUPPORT - REMOTE SITE FIREWALL UPGR

101-261-831.000	TECH SUPP - FW SW/SECURITY UPGRADES	<b>Invoice Amount:</b> \$740.00
		<b>Check Date:</b> 12/14/2021

740.00

**KNIGHT TECHNOLOGY GROUP, INC.**

DATTO CLOUD BACKUP SUBSCRIPTION FOR 202

101-261-831.000	CLOUD BACKUP MONTHLY SUBSCRIPTION-202	<b>Invoice Amount:</b> \$1,500.00
		<b>Check Date:</b> 12/14/2021

1,500.00

**KNIGHT TECHNOLOGY GROUP, INC.**

FIREWALL MONITORING DEC 2021 - INVOICE# 1

101-261-831.000	FIREWALL MONITORING - DEC 2021	<b>Invoice Amount:</b> \$150.00
		<b>Check Date:</b> 12/14/2021

150.00

**KONICA MINOLTA BUSINESS SOLUTIONS**

INV. 9008210326 11/25/2021 MAINT. AGREEME

101-301-934.000	10/26/2021 - 11/25/2021 COVERAGE DATES	<b>Invoice Amount:</b> \$42.27
		<b>Check Date:</b> 12/14/2021

42.27

**KONICA MINOLTA BUSINESS SOLUTIONS**

#276231502 10/31/21

101-171-934.000	C454e Copier Maintenance	<b>Invoice Amount:</b> \$255.89
101-228-934.000	Maint.	53.74
101-371-934.000	Maint.	10.24
596-528-934.000	Maint.	12.79
592-536-934.000	Maint.	12.79
		166.33

166.33

**KSS Enterprises**

FY2021 BLANKET PO - PARK SUPPLIES - INV # 1

101-751-775.000	FY2021 BLANKET PO - PARK SUPPLIES	<b>Invoice Amount:</b> \$460.35
		<b>Check Date:</b> 12/14/2021

460.35

**Linguistica International**

INV. 50187 INTERPRETING SERVICES - OCTOBE

101-351-850.000	OFFICER LAHTINEN (CITY OF PLYMOUTH)	<b>Invoice Amount:</b> \$8.00
		<b>Check Date:</b> 12/14/2021

8.00

**M H R BILLING SERVICES**

MONTHLY BILLING FEE INV # 4025

101-336-825.000	MONTHLY BILLING FEE INV # 4025	<b>Invoice Amount:</b> \$270.00
		<b>Check Date:</b> 12/14/2021

270.00

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>MAIN STREET AUTO WASH</b>		<b>Invoice Amount:</b>	<b>\$440.00</b>
OCTOBER AND NOVEMBER CAR WASHES 2021		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-863.000	Police Vehicles		430.00
101-371-863.000	Building Vehicles		10.00
<b>MARK'S OUTDOOR POWER EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$72.08</b>
PARTS TO REPAIR SNOW BLOWER #210707 11/3		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-931.000	PARTS		72.08
<b>MARK'S OUTDOOR POWER EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$56.69</b>
BROKEN CONCRETE SAW #209992 11/12/21		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-931.000	PARTS		6.29
592-537-931.000	LABOR		50.40
<b>MARK'S OUTDOOR POWER EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$11,200.00</b>
TORO ZERO TURN LAWN MOWER_ORDER 12369		<b>Check Date:</b>	<b>12/14/2021</b>
101-751-970.000	TOR 72951 25 HP KOHLER COMMAND PRO EFT		11,200.00
<b>Marquis Food Service, Inc.</b>		<b>Invoice Amount:</b>	<b>\$87.50</b>
INV. 9948 12/3/2021 PRISONER MEALS		<b>Check Date:</b>	<b>12/14/2021</b>
101-351-801.000	TURKEY SUBS		60.00
101-351-801.000	BREAKFAST SANDWICHES		22.50
101-351-801.000	DELIVERY		5.00
<b>MERCHANTS &amp; MEDICAL CREDIT CORP, IN</b>		<b>Invoice Amount:</b>	<b>\$387.93</b>
CLIENT # 20350 TRANSPORT FEES		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-825.000	TRANSPORT FEES		387.93
<b>MICHIGAN AIR SOLUTIONS, LLC</b>		<b>Invoice Amount:</b>	<b>\$267.13</b>
INV# SO10009675 NEW COIL		<b>Check Date:</b>	<b>12/14/2021</b>
101-336-931.000	INV# SO10009675 LABOR		165.00
101-336-931.000	208/230 VOLT REPLACEMENT COIL		42.88
101-336-931.000	TRUCK CHARGE		51.00
101-336-931.000	MISC SUPPLIES		8.25
<b>MISS DIG SYSTEM, INC</b>		<b>Invoice Amount:</b>	<b>\$2,820.26</b>
MISS DIG - 2022 #20220663 11/30/21		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-957.000	MEMBERSHIP FEE		1,841.36
592-537-957.000	EDUCATION AND AWARENESS		250.00
592-537-957.000	2022 ANNUAL MAINTENANCE FEE FOR CODES		257.60
592-537-957.000	Annual Maint fee for remote access		192.75
592-537-957.000	FIRST THREE ANNUAL ADJUSTMENT FEE ENHA		278.55
<b>MICHIGAN LINEN SERVICE</b>		<b>Invoice Amount:</b>	<b>\$84.35</b>
UNIFORMS 12/3/21 #459288		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-767.000	12/3/21		84.35
<b>MICHIGAN LINEN SERVICE</b>		<b>Invoice Amount:</b>	<b>\$130.62</b>
UNIFORMS 11/19/21 #458445		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-767.000	11/19/21		130.62
<b>MICHIGAN LINEN SERVICE</b>		<b>Invoice Amount:</b>	<b>\$84.35</b>
UNIFORMS 11/29/21 #458844		<b>Check Date:</b>	<b>12/14/2021</b>
592-537-767.000	11/29/21		84.35
<b>MICHIGAN LINEN SERVICE</b>		<b>Invoice Amount:</b>	<b>\$81.50</b>
INV. 457957 11/11/2021 BLANKET CLEANING - S		<b>Check Date:</b>	<b>12/14/2021</b>

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
		101-351-822.000	BLANKET CLEANING ENVIRONMENTAL FEE
		101-351-822.000	73.50 8.00
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b> \$84.35
UNIFORMS 11/12/21 #458014		592-537-767.000	<b>Check Date:</b> 12/14/2021 84.35
		11/12/21	
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b> \$84.35
UNIFORMS 11/5/21 #457585		592-537-767.000	<b>Check Date:</b> 12/14/2021 84.35
		11/5/21	
<b>NAPA Auto Parts</b>			<b>Invoice Amount:</b> \$97.67
#759170 11/15/21 15:20		592-537-863.000	<b>Check Date:</b> 12/14/2021 97.67
		FOR SNOW PLOWS	
<b>NATIONAL BAND &amp; TAG CO</b>			<b>Invoice Amount:</b> \$283.16
141826 2022 DOG TAGS		101-301-757.000	<b>Check Date:</b> 12/14/2021 283.16
		2022 DOG TAGS	
<b>O K FIRE EQUIPMENT CO</b>			<b>Invoice Amount:</b> \$200.00
INV # 9229 FIRE EXTINGUISHER INSPECTION			<b>Check Date:</b> 12/14/2021
	101-336-931.000	INV# 9229 FIRE EXTINGUISHER INSPECTION	45.00
	101-336-931.000	10LB ABC RECHARGE	45.00
	101-336-931.000	15LB CO2 RECHARGE	110.00
<b>O K FIRE EQUIPMENT CO</b>			<b>Invoice Amount:</b> \$155.00
INV # 9249 FIRE EXTINGUISHER INSPECTION			<b>Check Date:</b> 12/14/2021
	101-336-931.000	INV# 9249 FIRE EXTINGUISHER INSPECTION	45.00
	101-336-931.000	15LB CO2 RECHARGE	110.00
<b>OAKLAND COMMUNITY COLLEGE</b>			<b>Invoice Amount:</b> \$175.00
INV. 116733 11/8/2021 COMPUTER CRIMES INVE			<b>Check Date:</b> 12/14/2021
	101-301-958.000	DETECTIVE NICELY - 11/3 & 11/4	175.00
<b>OBSERVER &amp; ECCENTRIC NEWSPAPERS</b>			<b>Invoice Amount:</b> \$1,310.44
BUDGET NOTICE 2022/PLANNING OCT 20 PUD/O			<b>Check Date:</b> 12/14/2021
	101-215-901.000	BUDGET NOTICE 2022	173.76
	101-215-901.000	PLANNING-OCT 20 PUD	217.20
	101-215-901.000	OCT 20 TOWN PLACE	246.16
	101-215-901.000	ZBA NOTICE NOV 4 2021	86.88
	101-215-901.000	NOV 17 PLYM RIDGE	238.92
	101-215-901.000	PUD OPTION REVIEW	97.74
	101-215-901.000	SP LAND USE REVIEW	97.74
	101-215-901.000	RIDGES CORP PARK	76.02
	101-215-901.000	WORLD STONE GROUP	76.02
<b>OFFICE DEPOT</b>			<b>Invoice Amount:</b> \$114.43
OFFICE SUPPLIES FOR BOARD PACKETS & SUPER			<b>Check Date:</b> 12/14/2021
	101-215-752.000	#0347005 - PRINT PAPER FOR BOARD PACKET	46.35
	101-171-752.000	# 0347005 - PRINT PAPER FOR SUP. SUITE	46.35
	101-215-752.000	#0474944 -- BINDER TABS/BD PACKETS	12.00
	101-215-752.000	#0308957 - LG BINDER CLIPS/BD PACKETS	6.04
	101-171-752.000	#0495499 - CLEAR PUSHPINS - SUP. SUITE	3.69
<b>OFFICE DEPOT</b>			<b>Invoice Amount:</b> \$25.49
INV. 205018307001 10/28/2021 OFFICE SUPPLIE			<b>Check Date:</b> 12/14/2021 25.49
	101-325-752.000	WIPES	

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$235.12</b>
INV. 205018308001 10/28/2021 OFFICE SUPPLIE		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-752.000	DVD + R 4.7 GB		235.12
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$48.90</b>
INV. 205015915001 10/29/2021 OFFICE SUPPLIE		<b>Check Date:</b>	<b>12/14/2021</b>
101-301-752.000	PACKAGING TAPE		12.33
101-301-752.000	CORRECTION TAPE		36.57
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$21.82</b>
OFFICE SUPPLIES FOR ASSESSING & SUPERVISOR		<b>Check Date:</b>	<b>12/14/2021</b>
101-257-752.000	#6831226-METAL FILE FRAMES		21.82
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$29.92</b>
OFFICE SUPPLIES FOR ASSESSING & SUPERVISOR		<b>Check Date:</b>	<b>12/14/2021</b>
101-257-752.000	#166702 - CORRECTION TAPE		1.54
101-257-752.000	#346437 - PENCIL CUP		1.01
101-257-752.000	#477678 - WOODEN CLIPBOARDS		3.84
101-257-752.000	#325503 - ENVELOPE MOISTENERS		9.44
101-257-752.000	#928721-PENTEL QUICK CLICKER PENCIL		3.35
101-257-752.000	#6612268 - DUCK TAPE W/DISPENSER		3.59
101-257-752.000	#650457-SCOTCH PACKING TAPE		2.68
101-171-752.000	#458612-2 PK SCISSORS		2.33
101-171-752.000	#469919 - PEN HIGHLIGHTERS		2.14
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$4.69</b>
OFFICE SUPPLIES FOR ASSESSING & SUPERVISOR		<b>Check Date:</b>	<b>12/14/2021</b>
101-257-752.000	#982249-PENTEL QUICK CLICKER 7MM		4.69
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$10.78</b>
OFFICE SUPPLIES BUILDING DEPARTMENT OCTO		<b>Check Date:</b>	<b>12/14/2021</b>
101-371-752.000	OFFICE SUPPLIES BUILDING OCT 2021		10.78
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$272.96</b>
PRINTER SUPPLIES FOR BUILDING DEPT. 2021		<b>Check Date:</b>	<b>12/14/2021</b>
101-371-752.000	PRINTER SUPPLIES FOR BUILDING DEPT. 2021		272.96
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$73.65</b>
OFFICE SUPPLIES BUILDING DEPARTMENT OCTO		<b>Check Date:</b>	<b>12/14/2021</b>
101-371-752.000	OFFICE SUPPLIES BUILDING OCT 2021		73.65
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$14.71</b>
OFFICE SUPPLIES BUILDING DEPARTMENT OCTO		<b>Check Date:</b>	<b>12/14/2021</b>
101-371-752.000	OFFICE SUPPLIES BUILDING OCT 2021		14.71
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$16.47</b>
OFFICE SUPPLIES BUILDING DEPARTMENT OCTO		<b>Check Date:</b>	<b>12/14/2021</b>
101-371-752.000	OFFICE SUPPLIES BUILDING OCT 2021		16.47
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$187.65</b>
OFFICE SUPPLIES NOVEMBER 2021		<b>Check Date:</b>	<b>12/14/2021</b>
592-536-752.000	PENS PAPERMATE BLUE		13.11
592-536-752.000	PENS PAPERMATE BLACK		13.11
101-701-752.000	ADDRESS LABELS		18.53
101-701-752.000	SMEAD VIEWABLES		13.99
592-536-752.000	WHITE OUT BIC		11.71
101-228-752.000	MONTHLY WALL CALENDAR		30.78

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592-536-752.000	DESK CALENDER	38.36
101-228-752.000	CORRECTION TAPE	35.99
592-536-752.000	AVERY LABELS	12.47
<b>OFFICE DEPOT</b>		
OFFICE SUPPLIES NOVEMBER 2021		<b>Invoice Amount:</b> \$27.89
	101-228-752.000	<b>Check Date:</b> 12/14/2021
		27.89
<b>OFFICE DEPOT</b>		
OFFICE SUPPLIES NOVEMBER 2021		<b>Invoice Amount:</b> \$22.19
	592-536-752.000	<b>Check Date:</b> 12/14/2021
		22.19
<b>OFFICE DEPOT</b>		
OFFICE SUPPLIES NOVEMBER 2021		<b>Invoice Amount:</b> \$39.98
	101-701-752.000	<b>Check Date:</b> 12/14/2021
	592-536-752.000	19.99
		19.99
<b>OFFICE DEPOT</b>		
INV. 207110719001 11/8/2021 OFFICE SUPPLIES		<b>Invoice Amount:</b> \$375.54
	101-301-752.000	<b>Check Date:</b> 12/14/2021
		102.93
	101-325-752.000	
		211.98
	101-301-752.000	
		8.01
	101-301-752.000	
		28.74
	101-325-752.000	
		14.78
	101-325-752.000	
		9.10
<b>OFFICE DEPOT</b>		
INV. 208184118001 11/9/2021 OFFICE SUPPLIES		<b>Invoice Amount:</b> \$50.24
	101-325-752.000	<b>Check Date:</b> 12/14/2021
		18.48
	101-325-752.000	
		4.49
	101-325-752.000	
		9.07
	101-325-752.000	
		15.12
	101-325-752.000	
		3.08
<b>OFFICE DEPOT</b>		
LETTER & LEGAL SIZE COPY PAPER, LATERAL FIL		<b>Invoice Amount:</b> \$278.10
	101-215-752.000	<b>Check Date:</b> 12/14/2021
		278.10
<b>OFFICE DEPOT</b>		
LETTER & LEGAL SIZE COPY PAPER, LATERAL FIL		<b>Invoice Amount:</b> \$40.18
	101-215-752.000	<b>Check Date:</b> 12/14/2021
		40.18
<b>OFFICE DEPOT</b>		
DIVIDERS, HIGHLIGHTERS, PENS		<b>Invoice Amount:</b> \$34.41
	101-215-752.000	<b>Check Date:</b> 12/14/2021
		11.06
	101-215-752.000	
		11.28
	101-215-752.000	
		12.07
<b>OFFICE DEPOT</b>		
DIVIDERS, HIGHLIGHTERS, PENS		<b>Invoice Amount:</b> \$17.97
	101-215-752.000	<b>Check Date:</b> 12/14/2021
		17.97
<b>OFFICE DEPOT</b>		
INV. 210516400001 11/23/2021 OFFICE SUPPLIE		<b>Invoice Amount:</b> \$51.20
	101-325-752.000	<b>Check Date:</b> 12/14/2021
		15.22
	101-325-752.000	
		29.99
	101-325-752.000	
		5.99

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
PENCHURA, LLC		Invoice Amount:	\$5,070.00
REPAIR EQUIPMENT & FREIGHT FOR PLAYSCAPE		Check Date:	12/14/2021
101-751-931.000	PLAYSCAPE CHIMNEY CLIMBER REPLACEMENT		3,270.00
101-751-931.000	FREIGHT		300.00
101-751-931.000	INSTALLATION		1,500.00
PITNEY BOWES		Invoice Amount:	\$1,211.82
4TH QTR LEASE PAYMENT FOR PITNEY BOWES		Check Date:	12/14/2021
101-215-940.000	MAIL MACHINE LEASE (4TH QTR)		828.80
101-253-940.000	LETTER OPENER		383.02
PITNEY BOWES		Invoice Amount:	\$1,211.82
3RD QTR LEASE PAYMENT FOR PITNEY BOWES		Check Date:	12/14/2021
101-253-940.000	LETTER OPENER		383.02
101-215-940.000	MAIL MACHINE LEASE		828.80
Z. Plumberz North America, LLC.		Invoice Amount:	\$150.00
INV # 13932 HEATER RELIEF VALVE		Check Date:	12/14/2021
101-336-930.000	INV # 13932 HEATER RELIEF VALVE		150.00
PLYMOUTH COMM CHAMBER OF COMMERCE		Invoice Amount:	\$135.00
ANNUAL MEMBERSHIP DUES 2022 - INVOICE # 3		Check Date:	12/14/2021
101-101-880.000	2022 ANNUAL CHAMBER MEMBERSHIP DUES		135.00
CHARTER TWSP OF PLYMOUTH		Invoice Amount:	\$8,471.67
SENIOR TRANSPORTATION - OCTOBER 2021		Check Date:	12/14/2021
101-673-860.000	SENIOR TRANS 10/21		8,471.67
CHARTER TWSP OF PLYMOUTH		Invoice Amount:	\$5,136.92
COMERICA BANK - TOWNSHIP CREDIT CARD CH		Check Date:	12/14/2021
101-325-958.000	BROTHERS-DUNKIN - CWW MEETING		33.90
101-325-957.000	FELL - APCO DUES (PROF. MEMBERSHIP)		96.00
101-301-759.000	BROTHERS- GAS (TRAVEL EXPENSE)		52.20
101-325-958.000	BROTHERS-HOTEL ACC. NENA CONF. BOSWOR		141.75
101-325-958.000	BROTHERS-HOTEL ACC. NENA CONF. S. SMITH		151.75
101-325-958.000	BROTHERS-HOTEL ACC. NENA CONF. FELL		455.25
101-301-752.000	GORDON-STAPLES-SCANNER FOR CHIEF OFFIC		476.99
101-301-757.000	GORDON-HD-MINI FRIDGE - PD CONF. ROOM		199.00
101-737-901.000	HAACK-ENGRAV.CONN.- NAME PLATE - PLANNI		15.60
101-101-880.000	HAACK-ENGRAVCONN - ELC NAMETAGS		47.25
101-371-863.000	HAACK-BLACKWELL-OIL CHANGE ETC ORDINA		58.32
101-301-757.000	HAACK-3X5 AMER. FLAG FOR HONOR GUARD		155.00
101-737-757.000	HAACK-ENGRAV.CONN. NAME PLATE GRIEGER		21.84
101-325-775.000	HAACK-SAMS-SUPPLIES FOR DISPATCH		65.32
101-325-757.000	HAACK-SAMS-SUPPLIES FOR DISPATCH		42.34
101-265-757.000	HAACK-SAMS-SUPPLIES FOR TWSP GROUNDS		30.56
101-265-775.000	HAACK-SAMS-SUPPLIES FOR TWSP GROUNDS		54.84
101-265-757.000	HAACK-HD-LEAFBLOWER FOR TWSP GROUNDS		199.00
101-265-930.000	HAACK-GUTTERDUDE-TWP GROUNDS-CLEAN		895.00
101-265-757.000	HAACK-HD-SUPPLIES FOR TWP GROUNDS		23.92
592-537-757.000	HAMANN-JOES TRAILER-SUPPLIES FOR AUTO		132.40
592-537-757.000	HAMANN-HD-WINDSHIELD WASHER FLUID ET		64.70
101-171-791.000	HEISE-CRAINS SUBSCRIPTION ON LINE		15.00
101-261-852.000	HEISE-CONSTANT CONTACT-ENEWS		70.00
101-228-752.000	JANKS-AMAZON PRIME MEMBERSHIP - OCT.		12.99
101-261-831.000	JANKS-ZOOM- OCTOBER 2021		154.99
101-228-752.000	JANKS-AMAZON-HARD DRIVE		89.00

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101-261-831.000	JANKS-AMAZON-CHROMEBOOK	296.00
101-261-831.000	JANKS-AMAZON-WIRELESS MOUSE	24.99
101-228-752.000	JANKS-USB-C TO HDMI CONVERTER	38.98
101-301-863.000	KUDRA-TRAILER HITCH (HITCHHOUSE)	52.99
101-301-930.000	MAC DONALD-HD-MAT. FOR HOMELAND SEC	21.20
101-301-930.000	MAC DONALD-TOWN LOCKSMITH-DPW LOCK	347.00
101-371-757.000	MAC DONALD-BATTERIES+BULBS-FLASHLIGHT	49.95
588-596-970.000	MAC DONALD-HD-BLDG MATERIALS	126.99
101-336-757.000	MACK-HD-LIGHTBULBS - STATION 3	97.52
101-336-757.000	PHILLIPS-KROGER-WWC CHIEFS MEETING	48.68
101-336-757.000	PHILLIPS-LEE'S-WWC CHIEF'S MEETING	274.17
101-336-757.000	PHILLIPS - LEE'S - TAX CREDIT	(15.52)
101-301-757.000	TIDERINGTON-ACE-BATTERIES	19.06

**PLYMOUTH-CANTON COMMUNITY SCHOOLS**

INV. 003662 11/12/2021 - OCTOBER FUEL		<b>Invoice Amount:</b>	\$5,567.56
		<b>Check Date:</b>	12/14/2021
101-301-759.000	PATROL VEHICLES	5,535.26	
101-325-759.000	PSA VEHICLE	32.30	

**PLYMOUTH-CANTON COMMUNITY SCHOOLS**

INV # 003662 OCTOBER FUEL		<b>Invoice Amount:</b>	\$255.60
		<b>Check Date:</b>	12/14/2021
101-336-759.000	INV # 003662 GALLONS GASOLINE	243.43	
101-336-759.000	5% SURCHARGE	12.17	

**PLYMOUTH-CANTON COMMUNITY SCHOOLS**

INV#003662 OCTOBER FUEL BILL BUILDING DEP		<b>Invoice Amount:</b>	\$377.76
		<b>Check Date:</b>	12/14/2021
101-371-759.000	INV#003662 OCT. FUEL BILL 2021	377.76	

**PRIORITY ONE EMERGENCY**

INV # 70079227 RESCUE GLOVES/BIGGER		<b>Invoice Amount:</b>	\$27.99
101-336-767.000	INV# 70079227	12/14/2021	

**PROGRESSIVE PRINTING**

2021 WINTER TAX BILLS, ENVELOPES, MAIL & D.		<b>Invoice Amount:</b>	\$3,726.00
101-253-900.000	12,000 TAX BILLS	1,253.00	
101-253-900.000	11,500 #10 BLUE WINDOW ENVELOPES	1,257.00	
101-253-900.000	7,500 #9 RETURN ENVELOPES	524.00	
101-253-900.000	Mail/Distribution services	692.00	

**PROVANTAGE, LLC**

HP LASERJET PRINTER FOR OFFICER'S WORK ST		<b>Invoice Amount:</b>	\$329.00
101-301-752.000	HP LASERJET PRO M404DN PART #W1A53A#2	12/14/2021	

**RAFT**

MEMBERSHIP # 5363 BLUE CARD CERTIFICATIO		<b>Invoice Amount:</b>	\$275.00
101-336-958.000	MEMBERSHIP# 5363 BLUE CARD CERTIFICATTI	12/14/2021	

**RELIABLE LANDSCAPING INC.**

INV#96915 SEPTEMBER LAWN AND BED CARE 2		<b>Invoice Amount:</b>	\$8,495.00
101-336-821.000	FIRE STATION 2	700.00	
101-336-821.000	FIRE STATION 3	650.00	
592-537-821.000	DPW	750.00	
101-673-821.000	FRIENDSHIP STATION	695.00	
101-751-821.000	LAKE POINTE SOCCER PARK	3,450.00	
101-751-821.000	MILLER FAMILY PARK	1,100.00	
101-751-821.000	BRENTWOOD PARK	725.00	
101-751-821.000	POINT PARK	425.00	

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<b>RELIABLE LANDSCAPING INC.</b>		<b>Invoice Amount:</b>	<b>\$5,940.00</b>
INV#97617 OCTOBER LAWN AND BUSH CARE 20		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-336-821.000</i>	FIRE STATION 2		460.00
<i>101-336-821.000</i>	FIRE STATION 3		340.00
<i>592-537-821.000</i>	DPW		400.00
<i>101-673-821.000</i>	FRIENDSHIP STATION		160.00
<i>101-751-821.000</i>	LAKE POINTE SOCCER PARK		2,765.00
<i>101-751-821.000</i>	MILLER FAMILY PARK		775.00
<i>101-751-821.000</i>	BRENTWOOD PARK		575.00
<i>101-751-821.000</i>	POINT PARK		465.00
<b>RICHARDSON, MICHAEL</b>		<b>Invoice Amount:</b>	<b>\$30.02</b>
2021 MILEAGE MAY-AUG 2021		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-228-861.000</i>	MILEAGE MAY - AUG 2021		30.02
<b>RITTER GIS, IIC</b>		<b>Invoice Amount:</b>	<b>\$900.00</b>
CITYWORKS NOV 2021		<b>Check Date:</b>	<b>12/14/2021</b>
<i>592-537-803.000</i>	CITYWORKS NOV 2021		900.00
<b>SAFEWARE, INC.</b>		<b>Invoice Amount:</b>	<b>\$184.60</b>
INV# 3925378 DC7 4 GAL KIT CASE		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-336-757.000</i>	INV# 3925378 DECON 7		184.60
<b>SAFEWARE, INC.</b>		<b>Invoice Amount:</b>	<b>\$184.60</b>
INV# 3925378 DC7 4 GAL KIT CASE		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-336-757.000</i>	INV# 3925378 DECON 7		184.60
<b>Shellback Tactical, LLC</b>		<b>Invoice Amount:</b>	<b>\$3,539.90</b>
INV. IN6283110/25/2021 TACTICAL UNIFORM GE		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-301-767.000</i>	TACTICAL BANSHEE ELITE 3.0 CUMMERBUND		799.98
<i>101-301-767.000</i>	SOFT ARMOR CUMMERBUND MODEL CLCIIIA		479.98
<i>101-301-767.000</i>	SHOOTER CUT LEVEL IV ARMOR PLATE		1,179.96
<i>101-301-767.000</i>	HIGH CUT BALLISTIC HELMET		1,079.98
<b>SHI International Corp.</b>		<b>Invoice Amount:</b>	<b>\$250.00</b>
HP PRINTER & CARTRIDGES FOR PARKS OFFICE		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-751-757.000</i>	HP OFFICE JET PRO 9015E		250.00
<b>SHI International Corp.</b>		<b>Invoice Amount:</b>	<b>\$144.00</b>
HP PRINTER & CARTRIDGES FOR PARKS OFFICE		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-751-752.000</i>	HP962XL - HIGH YIELD CYAN CARTRIDGE		32.00
<i>101-751-752.000</i>	HP962XL - HIGH YIELD MAGENTA CARTRIDGE		32.00
<i>101-751-752.000</i>	HP962XL-HIGH YIELD YELLOW CARTRIDGE		32.00
<i>101-751-752.000</i>	HP962XL-HIGH YIELD BLACK CARTRIDGE		48.00
<b>SHI International Corp.</b>		<b>Invoice Amount:</b>	<b>\$667.68</b>
HP AUTOLOADER RENEWAL - HARDWARE SUPPO		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-261-831.000</i>	SUPPORT RENEW HP LT06 AUTOLOADER H7J3		667.68
<b>SIGNATURE FORD, L-M</b>		<b>Invoice Amount:</b>	<b>\$36,983.00</b>
2021 FORD POLICE INTERCEPTOR UTILITY AWD		<b>Check Date:</b>	<b>12/14/2021</b>
<i>101-301-970.000</i>	UTILITY ALL WHEEL DRIVE - CODE:K8A/500A		35,356.00
<i>101-301-970.000</i>	AGATE BLACK CODE: UM		0.50
<i>101-301-970.000</i>	INTERIOR TRIM CHARCOAL BLACK CODE: 96		0.50
<i>101-301-970.000</i>	REAR CONSOLE PLATE CODE: 85R		45.00
<i>101-301-970.000</i>	DARK CAR FEATURE CODE: 43D		20.00
<i>101-301-970.000</i>	SPOT LAMP - DUAL LED BULBS WHELEN 51V		665.00

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101-301-970.000	NOISE SUPPRESSION BONDS CODE:60R	100.00
101-301-970.000	REAR VIEW CAMERA CODE:87R	0.50
101-301-970.000	GLOBAL LOCK/UNLOCK CODE: 18D	0.50
101-301-970.000	REAR DOOR HANDLES CODE: 68G	75.00
101-301-970.000	LOCK SYSTEM KEYED ALIKE 1284X=59B	50.00
101-301-970.000	PRE-COLLISION ASSIST CODE: 76P	145.00
101-301-970.000	MIRRORS - HEATED CODE: 549	60.00
101-301-970.000	REVERSE SENSING CODE: 76R	275.00
101-301-970.000	CLASS III TRAILER TOW LIGHTING CODE:52T	80.00
101-301-970.000	H8 AGM BATTERY (900 CCA/92 AMP) CODE:19	110.00

**SPALDING DEDECKER ASSOCIATES, INC.**

Invoice Amount: \$55,967.00

**SPALDING DE DECKER - SERVICES PERFORMED**

Check Date: 12/14/2021

101-261-803.000	#88813-PLY TWP ENG MTGS 2021	500.00
101-701-803.000	#88837-SHELDON ROAD TREE PLANTING	61.00
101-751-803.000	#88837-TWP, PARK CULVERT REHAB	82.00
101-441-803.000	#88837-40805 FIVE MILE ROAD	1,818.50
101-261-803.000	#88837-UPDATING TWP STANDARDS	488.00
101-441-803.000	#88837-SIDEWALK GAP ANALYSIS	1,682.00
592-537-970.000	#88838-PORT STREET VACTOR PAD & GRADIN	7,862.00
101-261-803.000	#88862-AA ROAD AND KOLB-MASSEY LIGHTS	18,093.00
101-441-803.000	#88827-GOLFVIEW PARK	1,276.00
101-441-803.000	#88828-GOLFVIEW PARK ADA IMPROVEMENTS	164.00
592-537-970.000	#88830 - CIPP SEWER LINING 2021	2,177.00
805-444-974.022	#88831 - SIDEWALK REPLACEMENT 2022	9,326.00
101-751-970.000-20	#88832-PLY TWP PARK HMA PATHWAY	450.00
592-537-970.000	#88841-2022 CIPP SEWER LINING	6,088.00
101-701-803.000	#88814 - AA TOWN SQUARE (ELKS) PLANNING	400.00
592-536-831.000	#88821 - PLY TWP GIS (W&S)	1,655.10
101-257-831.000	#88821-PLY TWP GIS (ASSESSING)	275.85
101-371-831.000	#88821 PLY TWP GIS (BUILDING)	551.70
101-261-831.000	#88821-PLY TWP GIS (TWP)	275.85
101-261-803.000	#88848 - 123 NET 40485 SCHOOLCRAFT-DPW	805.50
101-261-803.000	#88849 - AT&T - 44815 FIVE MILE RD - DPW	805.50
101-261-803.000	#88850-COMCAST-39555 SCHOOLCRAFT RD-D	1,130.00

**Spartan Paving, LLC**

Invoice Amount: \$89,660.08

**PLY. TWP. PARK PAVING OF HMA PATH - TOTAL**

Check Date: 12/14/2021

101-751-970.000-20 PAVING OF HMA PATH PLY. TWP PARK 89,660.08

**SUPERIOR MEDICAL WASTE**

Invoice Amount: \$180.00

**INV # 10966 MEDICAL WASTE DISPOSAL**

Check Date: 12/14/2021

101-336-773.000	INV # 10966 MEDICAL WASTE DISPOSAL 28GA	60.00
101-336-773.000	MEDICAL WASTE DISPOSAL 28GAL	60.00
101-336-773.000	MEDICAL WASTE DISPOSAL 28GAL	60.00

**Superior Excavating, Inc.**

Invoice Amount: \$11,552.00

**CONCRETE REPAIRS - VARIOUS LOCATIONS**

Check Date: 12/14/2021

592-537-938.000 CONCRETE REPAIRS - VARIOUS LOCATIONS 11,552.00

**Superior Excavating, Inc.**

Invoice Amount: \$7,630.00

**549 ANN ARBOR ROAD 12" WATER MAIN REPAIR**

Check Date: 12/14/2021

592-537-938.000	MOBILIZE EQUIPMENT	1,500.00
592-537-938.000	FOREMAN W/SERVICE TRUCK	840.00
592-537-938.000	OPERATOR	595.00
592-537-938.000	LABORER (3)	1,680.00
592-537-938.000	VOLVO 145E	1,050.00
592-537-938.000	TRI AXLE TRUCK AND DRIVER	140.00

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
	592-537-938.000	GENSET GENERATOR & 3" PUMP	525.00
<b>STRYKER SALES CORPORATION</b>		<b>Invoice Amount:</b>	\$128.22
INV # 3570540M LARYNGOSCOPE, BLADES		<b>Check Date:</b>	12/14/2021
101-336-773.000	INV # 3570540 M LARYNGOSCOPE, BLADES		124.64
101-336-773.000	FREIGHT		3.58
<b>STRYKER SALES CORPORATION</b>		<b>Invoice Amount:</b>	\$996.20
INV # 3575913M RC-4, EMS, BATTERY PK LI-ION,		<b>Check Date:</b>	12/14/2021
101-336-773.000	INV # 575913M RC-4, EMS, RAINBOW, PATIEN		212.50
101-336-773.000	BATTERY PACK LI-ION		419.90
101-336-773.000	IBP CUFF-		30.60
101-336-773.000	CBL, 4WIRE LIMB LEAD		333.20
<b>TACTICAL ENCOUNTERS INC.</b>		<b>Invoice Amount:</b>	\$600.00
INV. 2021-61 11/14/2021 LOW LIGHT TRAINING		<b>Check Date:</b>	12/14/2021
101-301-958.000	OFFICERS JAW AND HOWARD 11/16/21		600.00
<b>TARGET SOLUTIONS LEARNING, LLC</b>		<b>Invoice Amount:</b>	\$1,720.00
INV # 36916 TSCHECK/ FIRESTATION AND FIRE		<b>Check Date:</b>	12/14/2021
101-336-831.000	INV # 36916 TSCHECKIT- FIRE STATIONS		600.00
101-336-831.000	TSCHECKIT-FIRE VEHICLES		1,120.00
<b>Thermo Source</b>		<b>Invoice Amount:</b>	\$270.00
INV# PLY-F-3 REPAIR LED TUBES		<b>Check Date:</b>	12/14/2021
101-336-931.000	INV # PLY-F-3 REPAIR WITH LED TUBES		270.00
<b>TOUCH OF CLASS CLEANERS</b>		<b>Invoice Amount:</b>	\$2,789.90
UNIFORM DRY CLEANING / POLICE DEPT. SWOR		<b>Check Date:</b>	12/14/2021
101-301-767.000	POLICE CLEANING 1/4/2021 - 11/29/21		2,731.55
101-325-767.000	COMM CENTER CLEANING 1/4/2021 - 11/29/21		58.35
<b>USA BLUEBOOK</b>		<b>Invoice Amount:</b>	\$980.01
PRESSURE LOGGERS		<b>Check Date:</b>	12/14/2021
592-537-757.000	PRESSURE LOGGERS		968.90
592-537-757.000	FREIGHT		11.11
<b>UPS</b>		<b>Invoice Amount:</b>	\$0.32
UPS SHIPPING - RETURN OF BIKE PUMP	11/22/2	<b>Check Date:</b>	12/14/2021
101-751-752.000	WEIGHT LIMIT ADJUSTMENT		0.32
<b>UPPER LEVEL GRAPHICS</b>		<b>Invoice Amount:</b>	\$445.00
INV. 22467 11/18/2021 WORK ON UNIT 21-4 - U		<b>Check Date:</b>	12/14/2021
262-310-970.000	DIGITAL GRAPHICS ON 2021 EXPLORER		445.00
<b>UPPER LEVEL GRAPHICS</b>		<b>Invoice Amount:</b>	\$350.00
INV. 22078 8/18/2021 UPFITTING TWO NEW SPE		<b>Check Date:</b>	12/14/2021
262-310-970.000	DIGITAL GRAPHICS ON SPEED TRAILERS		350.00
<b>VANCE OUTDOORS, INC.</b>		<b>Invoice Amount:</b>	\$7,240.00
INV. 3805930-IN 9/17/2021 AMMUNITION FOR P		<b>Check Date:</b>	12/14/2021
101-301-778.000	WINCHESTER 5.56MM 55GR FMJ 1,000 RDS		7,240.00
<b>Victory Lane Quick Oil Change</b>		<b>Invoice Amount:</b>	\$76.18
TRUCK 404 #00903-3065		<b>Check Date:</b>	12/14/2021
592-537-863.000	LABOR AND MATERIALS		76.18

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>Victory Lane Quick Oil Change</b>		<b>Invoice Amount:</b>	<b>\$85.24</b>
TRUCK 400 #00903-3061		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-863.000	<b>LABOR AND MATERIALS</b>	85.24
<b>Victory Lane Quick Oil Change</b>		<b>Invoice Amount:</b>	<b>\$115.97</b>
TRUCK 408 #00903-3005 12/1/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-863.000	<b>LABOR AND MATERIALS</b>	115.97
<b>Victory Lane Quick Oil Change</b>		<b>Invoice Amount:</b>	<b>\$76.18</b>
TRUCK 419 #00903-3007 12/1/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-863.000	<b>LABOR AND MATERIALS</b>	76.18
<b>Victory Lane Quick Oil Change</b>		<b>Invoice Amount:</b>	<b>\$75.18</b>
TRUCK 403 #00903-3014 12/1/21		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-863.000	<b>LABOR AND MATERIALS</b>	75.18
<b>Victory Lane Quick Oil Change</b>		<b>Invoice Amount:</b>	<b>\$75.18</b>
TRUCK 402 #00903-3021		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-863.000	<b>LABOR AND MATERIALS</b>	75.18
<b>VIGILANTE SECURITY</b>		<b>Invoice Amount:</b>	<b>\$105.00</b>
#676602 11/9/2021		<b>Check Date:</b>	<b>12/14/2021</b>
	592-537-801.000	<b>15275 NORTHLVILLE RD. PRN MONITORING</b>	105.00
<b>W.J.O'NEIL COMPANY</b>		<b>Invoice Amount:</b>	<b>\$335.00</b>
INV#39189 CHECKED VAV BOXES 2ND FLOOR		<b>Check Date:</b>	<b>12/14/2021</b>
	101-265-930.000	<b>INV#39189 VAV BOXES SECOND FLOOR</b>	335.00
<b>W.J.O'NEIL COMPANY</b>		<b>Invoice Amount:</b>	<b>\$205.00</b>
INV#39191 POLICE SERVER ROOM A/C REPAIR		<b>Check Date:</b>	<b>12/14/2021</b>
	101-265-930.000	<b>INV#39191 POLICE SERVER ROOM A/C</b>	205.00
<b>W.J.O'NEIL COMPANY</b>		<b>Invoice Amount:</b>	<b>\$465.00</b>
INV#39135 POLICE A/C DOWN REPAIR		<b>Check Date:</b>	<b>12/14/2021</b>
	101-265-930.000	<b>INV#39135 POLICE A/C DOWN</b>	465.00
<b>W.J.O'NEIL COMPANY</b>		<b>Invoice Amount:</b>	<b>\$1,257.35</b>
INV#39190 REPAIR BOILER LEAK		<b>Check Date:</b>	<b>12/14/2021</b>
	101-265-930.000	<b>INV#39190 REPAIR BOILER LEAK</b>	1,257.35
<b>WASTE MANAGEMENT</b>		<b>Invoice Amount:</b>	<b>\$577.45</b>
0007076-1717-1 TWP FACILITIES - NOV 2021 FE		<b>Check Date:</b>	<b>12/14/2021</b>
	101-751-824.000	<b>TWP PARK TRASH/RECYCLE (CREDIT OF 41.55)</b>	264.45
	101-336-824.000	<b>FIRE STN 3 TRASH</b>	25.00
	101-265-824.000	<b>TWP HALL TRASH/RECYCLE</b>	170.00
	592-537-824.000	<b>DPW TRASH</b>	68.00
	101-336-824.000	<b>FIRE STN 2 TRASH</b>	25.00
	101-673-824.000	<b>FRIENDSHIP STATION TRASH</b>	25.00
<b>WASTE MANAGEMENT</b>		<b>Invoice Amount:</b>	<b>\$457.95</b>
0008814-1717-4 TWP FACILITIES - DEC 2021 FE		<b>Check Date:</b>	<b>12/14/2021</b>
	101-336-824.000	<b>FIRE STN 3 TRASH</b>	25.00
	101-265-824.000	<b>TWP HALL TRASH/RECYCLE</b>	170.00
	592-537-824.000	<b>DPW TRASH</b>	68.00
	101-336-824.000	<b>FIRE STN 2 TRASH</b>	25.00
	101-673-824.000	<b>FRIENDSHIP STATION TRASH</b>	25.00
	101-265-824.000	<b>LATE FEE - NOV BILLING</b>	25.00

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
	101-751-824.000	PLY TWP PARK TRASH/RECYCLE	134.00
<b>WCA ASSESSING</b>		<b>Invoice Amount:</b>	<b>\$26,599.50</b>
APPRAISAL SERVICES RENDERED - DECEMBER 2		<b>Check Date:</b>	<b>12/14/2021</b>
	101-257-801.000	Appraisal Services Rendered (Contract)	26,442.83
	101-257-801.000	Co-Star Services	156.67
<b>Thomas Reuters -WEST PAYMENT CENTER</b>		<b>Invoice Amount:</b>	<b>\$327.91</b>
INV. 845251802 11/1/2021 WEST INFORMATION		<b>Check Date:</b>	<b>12/14/2021</b>
	101-301-958.000	OCTOBER 1-31, 2021	327.91
<b>WITMER PUBLIC SAFETY GROUP INC</b>		<b>Invoice Amount:</b>	<b>\$657.55</b>
ROAD FLARES		<b>Check Date:</b>	<b>12/14/2021</b>
	101-336-757.000	ORION 30 MINUTE FLARES	433.56
	101-336-757.000	SHIPPING	200.00
	101-336-757.000	FREIGHT	23.99
<b>SGI HEATING &amp; COOLING</b>		<b>Invoice Amount:</b>	<b>\$60.00</b>
PERMIT REFUND PM21-0220 SGI HEATING & CO		<b>Check Date:</b>	<b>12/14/2021</b>
	101-371-964.000	PERMIT REFUND PM21-0220	60.00
<b>DEE CRAMER INC.</b>		<b>Invoice Amount:</b>	<b>\$170.00</b>
PERMIT REFUND PM20-0554 DEE CRAMER INC.		<b>Check Date:</b>	<b>12/14/2021</b>
	101-371-964.000	PERMIT REFUND PM20-0554	170.00
<b>SGI HEATING &amp; COOLING</b>		<b>Invoice Amount:</b>	<b>\$137.00</b>
PERMIT REFUND PM21-0366 SGI HEATING & CO		<b>Check Date:</b>	<b>12/14/2021</b>
	101-371-964.000	PERMIT REFUND PM21-0366	137.00
<b>COMMERCIAL CONTRACTING CORPORATION</b>		<b>Invoice Amount:</b>	<b>\$22,485.00</b>
PERMIT REFUND PB21-0772 COMMERCIAL CONT		<b>Check Date:</b>	<b>12/14/2021</b>
	101-371-964.000	PERMIT REFUND PB21-0772	22,485.00
<b>FOUNDATION SYSTEMS OF MICHIGAN INC.</b>		<b>Invoice Amount:</b>	<b>\$90.00</b>
PERMIT REFUND PB21-0859		<b>Check Date:</b>	<b>12/14/2021</b>
	101-371-964.000	PERMIT REFUND PB21-0859	90.00
<b>DAVID FOX</b>		<b>Invoice Amount:</b>	<b>\$193.98</b>
WORK SHIRT AND SHOES/FOX		<b>Check Date:</b>	<b>12/14/2021</b>
	101-336-767.000	WORK SHIRT	79.50
	101-336-767.000	WORK SHOES	114.48
<b>MARK BONADEO</b>		<b>Invoice Amount:</b>	<b>\$25.00</b>
PARAMEDIC RENEWAL APPLICATION/BONADEO		<b>Check Date:</b>	<b>12/14/2021</b>
	101-336-958.000	PARAMEDIC RENEWAL TRANSACTION #43963	25.00
<b>LARRY GRANGER</b>		<b>Invoice Amount:</b>	<b>\$175.00</b>
RE-ISSUE OUTSTANDING 08/28/2020 PAYROLL C		<b>Check Date:</b>	<b>12/14/2021</b>
	101-000-232.000	RE-ISSUE OUTSTANDING 08/28/2020 PAYROLL	175.00
<b>Total Amount to be Disbursed:</b>			<b>\$1,105,254.25</b>

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<b>ALERUS FINANCIAL</b>		<b>Invoice Amount:</b>	<b>\$22,105.94</b>
MERS-457 PLAN - ALL EMPLOYEES 12-3-2021 PA		<b>Check Date:</b>	<b>12/08/2021</b>
101-000-239.000	457 CONT. PRE-TAX		21,406.08
101-000-239.000	457 CONT. ROTH POST-TAX		699.86
<b>ALERUS FINANCIAL</b>		<b>Invoice Amount:</b>	<b>\$8,761.29</b>
MERS-DC FT EMPLOYEE CONTRIBUTIONS-12-3-2		<b>Check Date:</b>	<b>12/08/2021</b>
101-000-238.000	MERS EMPLOYEE PRE TAX		7,572.77
101-000-238.000	MERS EMPLOYEE POST TAX		714.85
101-000-238.000	LOANS		473.67
<b>ALERUS FINANCIAL</b>		<b>Invoice Amount:</b>	<b>\$27,132.87</b>
MERS - DC FT EMPLOYEES -- EMPLOYER CONTRI-		<b>Check Date:</b>	<b>12/08/2021</b>
101-171-716.000	SUPERVISOR'S OFFICE		1,032.04
101-228-716.000	IT DIRECTOR		600.77
101-215-716.000	CLERK'S OFFICE		1,334.35
101-253-716.000	TREASURER'S OFFICE		1,263.25
101-265-716.000	TWP BUILDING & GROUNDS		273.84
101-301-716.000	PD DEPT.		5,724.97
101-325-716.000	DISPATCH DEPT.		2,204.05
101-336-716.000	FIRE DEPT		6,482.70
101-371-716.000	BUILDING DEPT.		1,315.34
596-528-716.000	SOLID WASTE DEPT.		340.09
588-596-716.000	SENIOR TRANS		245.91
592-536-716.000	PUBLIC SERVICES		887.07
592-537-716.000	DPW		3,866.25
101-262-716.000	ELECTIONS		322.88
101-191-716.000	FINANCE DEPT		925.80
101-351-716.000	JAIL (RECORDS/FOIA)		313.56
<b>AT &amp; T</b>		<b>Invoice Amount:</b>	<b>\$435.00</b>
OCTOBER 2021 PAYMENT - ACCT. 734-453-4461-		<b>Check Date:</b>	<b>12/08/2021</b>
101-336-850.000	Fire		147.90
101-673-850.000	Twp. Hall		34.80
101-751-850.000	Parks		34.80
592-537-850.000	DPW		217.50
<b>AMERITAS LIFE INSURANCE CORP.</b>		<b>Invoice Amount:</b>	<b>\$3,986.32</b>
AMERITAS-RETIREE-DENTAL- DECEMBER 2021 --		<b>Check Date:</b>	<b>12/08/2021</b>
101-261-875.000	GENERAL RETIREES		712.44
101-301-875.000	POLICE RETIREES		1,020.64
101-325-875.000	DISPATCH RETIREE		66.28
101-336-875.000	FIRE DEPT. RETIREES		1,718.72
592-536-875.000	DPS CLERICAL RETIREE		35.28
592-537-875.000	DPW - RETIREE		432.96
<b>AMERITAS LIFE INSURANCE CORP.</b>		<b>Invoice Amount:</b>	<b>\$6,657.32</b>
AMERITAS - ACTIVE DENTAL - DECEMBER 2021		<b>Check Date:</b>	<b>12/08/2021</b>
101-171-718.000	SUPERVISOR DEPT.		35.28
101-228-718.000	INFORMATION SERVICES		111.64
101-215-718.000	CLERK DEPT.		70.56
101-253-718.000	TREASURY		289.56
101-265-718.000	TWP. HALL		66.28
101-301-718.000	POLICE DEPT.		2,183.16
101-325-718.000	DISPATCH		929.16
101-336-718.000	FIRE DEPT.		2,007.24
101-371-718.000	BUILDING DEPT.		279.48

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588-596-718.000	SENIOR TRANS	111.64
596-528-718.000	SOLLID WASTE	111.64
592-536-718.000	DPS CLERICAL	213.20
592-537-718.000	DPW - SUPERVISORY	146.92
101-262-718.000	ELECTIONS -	66.28
101-351-718.000	LOCK UP	35.28

**BUONO, DUANE**

MECHANICAL INSPECTOR PAY NOVEMBER 2021	Invoice Amount:	\$3,775.25
101-371-801.000	Check Date:	12/08/2021

**C.O.A.M. - PLYMOUTH TOWNSHIP**

COAM UNION DUES -DECEMBER 2021	Invoice Amount:	\$308.56
101-000-240.305	Check Date:	12/08/2021
HOFFMAN, MARC		77.14
101-000-240.305		77.14
KREBS, RYAN		77.14
101-000-240.305		77.14
RUPARD, BRYAN		77.14
101-000-240.305		77.14
FRITZ, MICHAEL		77.14

**COMCAST**

HIGH SPEED INTERNET - TOWNSHIP PARK DECEMBER	Invoice Amount:	\$176.83
101-751-852.000	Check Date:	12/08/2021

**DTE ENERGY**

STREET LIGHTS - NOVEMBER 2021 -- ACCT # 91	Invoice Amount:	\$5,581.41
101-441-923.000	Check Date:	12/08/2021

**HARTFORD, THE**

THE HARTFORD-INSURANCE PREMIUM STATEMENT	Invoice Amount:	\$5,914.84
101-171-718.000	Check Date:	12/08/2021
SUPERVISOR DEPT		123.87
101-191-718.000		124.94
FINANCE DEPT		177.77
101-215-718.000		107.00
CLERK DEPT		169.65
101-228-718.000		48.29
INFORMATION SYSTEMS DEPT		40.75
101-253-718.000		1,867.60
TREASURY DEPT		711.77
101-262-718.000		1,544.14
ELECTIONS DEPT		43.21
101-265-718.000		218.24
BUILDING & GROUNDS DEPT		38.95
101-301-718.000		135.56
POLICE DEPT		549.14
101-325-718.000		50.26
DISPATCH/COMMUNICATIONS DEPT		
101-336-718.000		
FIRE DEPT		
101-351-718.000		
JAIL/CORRECTIONS DEPT		
101-371-718.000		
BUILDING DEPT		
588-596-718.000		
TRANSPORTATION DEPT		
592-536-718.000		
PUBLIC SERVICES DEPT		
592-537-718.000		
PUBLIC WORKS DEPT		
596-528-718.000		
RUBBISH COLLECTION DISPOSAL DEPT		

**HEILEMAN, JAMES**

ELECTRICAL INSPECTOR PAY NOVEMBER 2021	Invoice Amount:	\$7,398.75
101-371-801.000	Check Date:	12/08/2021

**MICHIGAN CONFERENCE OF TEAMSTERS**

HEALTH INSURANCE -NOVEMBER 2021 (DPW) (I)	Invoice Amount:	\$14,009.60
592-537-718.000	Check Date:	12/08/2021
BARTLETT, JAMES		1,751.20
592-537-718.000		1,751.20
KRUEGER, RANDY		1,751.20
592-537-718.000		1,751.20
MELOW, STEVEN		1,751.20
592-537-718.000		1,751.20
OVERTAITIS, JOSEPH		1,751.20
592-537-718.000		1,751.20
SCHOLTEN, JAMES		1,751.20
592-537-718.000		1,751.20
THOMAS, JAMES		1,751.20
592-537-718.000		1,751.20
NELSON, DAVID		1,751.20

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**VENDOR INFORMATION****INVOICE INFORMATION**

592-537-718.000	PUMPHREY, ZACHARY	1,751.20
<b>MUNSON, STEVE</b>	<b>Invoice Amount:</b>	<b>\$2,070.25</b>
PLUMBING INSPECTOR PAY NOVEMBER 2021	<b>Check Date:</b>	<b>12/08/2021</b>
101-371-801.000	PLUMBING INSPECTOR PAY NOVEMBER 2021	2,070.25
<b>P.O.A.M. - PLYMOUTH TOWNSHIP</b>	<b>Invoice Amount:</b>	<b>\$2,194.40</b>
POAM & DISPATCH UNION DUES -DEC. 2021 (2 S	<b>Check Date:</b>	<b>12/08/2021</b>
101-000-240.301	POAM Union Dues	1,619.94
101-000-240.325	Dispatch Union Dues	574.46
<b>CHARTER TWSP OF PLYMOUTH</b>	<b>Invoice Amount:</b>	<b>\$5,611.36</b>
PLYMOUTH TOWNSHIP - WATER/SEWER NOV. 2	<b>Check Date:</b>	<b>12/08/2021</b>
101-171-922.000	SUPERVISOR	22.21
101-228-922.000	INFO SERVICES	18.74
101-257-922.000	ASSESSORS	7.63
101-215-922.000	CLERK	31.73
101-253-922.000	TREASURER	11.45
101-673-922.000	BUILDING-SENIOR SERVICES	59.61
101-301-922.000	POLICE	96.46
101-325-922.000	DISPATCH	36.09
101-351-922.000	LOCK UP	29.49
101-336-922.000	FIRE	549.91
101-371-922.000	BUILDING	27.41
101-701-922.000	PLANNING	2.08
101-751-922.000	PARK	4,168.12
596-528-922.000	SOLID WASTE	1.04
592-536-922.000	ADM/GEN EXPENSE	31.58
592-537-922.000	POWER & PUMPING	203.25
588-596-922.000	FRIENDSHIP STATION	3.74
101-265-922.000	BUILDING	0.69
592-537-922.000	WATER FLUSHING	297.79
101-191-922.000	FINANCE DEPT.	12.34
<b>TEAMSTER LOCAL # 214</b>	<b>Invoice Amount:</b>	<b>\$534.00</b>
TEAMSTER LOCAL #214 DECEMBER 2021 (DETAI	<b>Check Date:</b>	<b>12/08/2021</b>
101-000-240.592	Bartlett, James	59.00
101-000-240.592	Kitchen, Spencer	59.00
101-000-240.592	Krueger, Randy	62.00
101-000-240.592	Melow, Steven	62.00
101-000-240.592	Nelson, David	59.00
101-000-240.592	Overallis, Joseph	59.00
101-000-240.592	Pumphrey, Z	59.00
101-000-240.592	Scholten, James	59.00
101-000-240.592	Thomas, James	56.00
<b>TECHNICAL, PROFESSIONAL AND OFFICE-</b>	<b>Invoice Amount:</b>	<b>\$542.50</b>
TPOAM UNION DUES - DECEMBER 2021	<b>Check Date:</b>	<b>12/08/2021</b>
101-000-240.000	BONO, JENNIFER A.	46.50
101-000-240.000	DOOLEY, DEB	15.50
101-000-240.000	GORDON, CHERYL	31.00
101-000-240.000	HAACK, DAVID	31.00
101-000-240.000	VOLPE, ANNE	31.00
101-000-240.000	LATAWIEC, KELLY	31.00
101-000-240.000	LECLAIR, DIANE L.	31.00
101-000-240.000	WASIL, BRETT	31.00
101-000-240.000	MARTIN, CAROL R.	31.00
101-000-240.000	PALMARCHUK, CHERI	31.00

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**VENDOR INFORMATION**

**INVOICE INFORMATION**

101-000-240.000	TRUESDELL, MARY ANN	15.50
101-000-240.000	VISEL, SARAH J.	31.00
101-000-240.000	DAN ATKINS	15.50
101-000-240.000	CAROL MACDONELL	15.50
101-000-240.000	GLENN MILLER	31.00
101-000-240.000	HALSTEAD, ANNA	31.00
101-000-240.000	TERRELL, DENISA	31.00
101-000-240.000	DREITS, SARAH	31.00
101-000-240.000	DEVOTO, CLAUDIA	15.50
101-000-240.000	RICHARDSON, MIKE	15.50

**VERIZON WIRELESS**

DECEMBER 2021 -- WIRELESS BILLING ACCT #1	Invoice Amount:	\$894.96
	Check Date:	12/08/2021
592-537-850.000	DPW WIRELESS DEVICES	98.65
101-228-850.000	INFO SERVICES WIRELESS DEVICES	59.22
101-336-850.000	FIRE WIRELESS DEVICES	89.23
101-751-850.000	PARK FOREMAN WIRELESS DEVICE	49.22
101-253-850.000	TREASURER WIRELESS SERVICE	49.22
101-301-850.000	POLICE DEPT. WIRELESS SERVICE	382.37
101-371-850.000	BUILDING DEPT. WIRELESS SERVICES	117.83
101-265-850.000	TWP. HALL	49.22

**WOW! BUSINESS**

POLICE DEPT. SERVICE CHGS - DECEMBER 2021	Invoice Amount:	\$10.00
101-301-852.000	Check Date:	12/08/2021

**MOTOR CITY ELECTRIC CO**

BD Bond Refund	Invoice Amount:	\$2,000.00
101-371-283.005	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$1,500.00
101-371-283.001	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$6,000.00
101-371-283.010	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$1,500.00
101-371-283.001	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$8,000.00
101-371-283.010	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$1,500.00
101-371-283.001	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$8,000.00
101-371-283.010	Check Date:	12/08/2021

**Pulte Group**

BD Bond Refund	Invoice Amount:	\$1,500.00
101-371-283.001	Check Date:	12/08/2021

**Charter Township of Plymouth  
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**VENDOR INFORMATION**

**Delta Concrete & Industrial Contrac**

**BD Bond Refund**

*101-371-283.016      BE20-0001*

**INVOICE INFORMATION**

**Invoice Amount:** \$233.85  
**Check Date:** 12/08/2021  
*233.85*

**Total Amount to be Disbursed:** \$148,335.30

P. Bonds 12/1/21  
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**Charter Township of Plymouth**  
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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>35TH DISTRICT COURT</b>		<b>Invoice Amount:</b>	<b>\$500.00</b>
BOND RECEIPT 11/19/2021		<b>Check Date:</b>	<b>12/05/2021</b>
	710-000-265.000	BOND RECEIPT NUMBER 11727	500.00
<b>35TH DISTRICT COURT</b>		<b>Invoice Amount:</b>	<b>\$3,499.00</b>
BOND RECEIPT 11/18/2021		<b>Check Date:</b>	<b>12/05/2021</b>
	710-000-265.000	BOND RECEIPT NUMBER 8250	2,474.00
	710-000-265.000	BOND RECEIPT NUMBER 11726	1,025.00
<b>Total Amount to be Disbursed:</b>			<b>\$3,999.00</b>

**Charter Township of Plymouth  
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**VENDOR INFORMATION**

**INVOICE INFORMATION**

**AT & T**

AT&T - TELEPHONE ALLOCATION NOVEMBER 20

		<b>Invoice Amount:</b>	<b>\$937.14</b>
		<b>Check Date:</b>	<b>12/01/2021</b>
101-228-850.000	INFORMATION SERVICES	64.08	
101-257-850.000	ASSESSING	38.26	
101-371-850.000	BUILDING	106.67	
101-336-850.000	FIRE	159.01	
101-301-850.000	POLICE	170.58	
101-171-850.000	SUPERVISOR	99.72	
101-253-850.000	TREASURER	85.08	
101-215-850.000	CLERK	32.80	
101-701-850.000	COMMUNITY DEVELOPMENT	39.70	
101-325-850.000	DISPATCH	64.17	
101-673-850.000	WATER/SEWER (UTIL) (FS)	15.24	
101-751-850.000	PARK	11.94	
592-536-850.000	GEN EXPENSE TEL	23.62	
596-528-850.000	SOLID WASTE	9.37	
101-191-850.000	FINANCE	16.90	

**AT & T**

AT&T - TELEPHONE/INTERENET ALLOC -- NOVE

		<b>Invoice Amount:</b>	<b>\$1,302.40</b>
		<b>Check Date:</b>	<b>12/01/2021</b>
101-228-852.000	INFORMATION SERVICES	89.06	
101-257-852.000	ASSESSING	53.18	
101-371-852.000	BUILDING	148.24	
101-336-852.000	FIRE	220.98	
101-301-852.000	POLICE	237.07	
101-171-852.000	SUPERVISOR	138.59	
101-253-852.000	TREASURER	118.24	
101-215-852.000	CLERK	45.58	
101-701-852.000	COMMUNITY DEVELOPMENT	55.18	
101-325-852.000	DISPATCH	89.18	
101-673-852.000	PCCA	21.18	
101-751-852.000	PARK	16.59	
592-536-852.000	GEN EXPENSE TEL	32.82	
596-528-852.000	SOLID WASTE	13.03	
101-191-852.000	FINANCE	23.48	

**BLUE CROSS/BLUE SHIELD OF MICHIGAN**

DECEMBER 2021 MEDICARE PLUS BLUE PPO -- (S

		<b>Invoice Amount:</b>	<b>\$3,388.80</b>
		<b>Check Date:</b>	<b>12/01/2021</b>
101-336-875.000	FIRE RETIREES	2,541.60	
101-301-875.000	POLICE RETIREES	423.60	
101-261-875.000	GENERAL RETIREES	423.60	

**CBTS TECHNOLOGY SOLUTIONS LLC**

CBTS PHONE SERVICES 10/20/21 TO 11/19/2021

		<b>Invoice Amount:</b>	<b>\$2,441.71</b>
		<b>Check Date:</b>	<b>12/01/2021</b>
101-101-850.000	TOWNSHIP BOARD	25.60	
101-171-850.000	SUPERVISOR	123.47	
101-228-850.000	INFORMATION SYSTEMS	77.97	
101-257-850.000	ASSESSING	85.79	
101-215-850.000	CLERK	164.90	
101-253-850.000	TREASURY	85.78	
101-261-850.000	GEN. OP. - EXC RM	21.18	
101-262-850.000	ELECTIONS	32.78	
101-265-850.000	BUILDING AND GROUNDS	16.67	
101-673-850.000	SENIOR SERVICES	16.64	
101-301-850.000	POLICE	537.95	
101-325-850.000	DISPATCH	298.46	
101-351-850.000	JAIL/CORRECTIONS		
101-336-850.000	FIRE/TWP. HALL		

**Charter Township of Plymouth  
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**VENDOR INFORMATION****INVOICE INFORMATION**

101-371-850.000	BUILDING	132.12
101-751-850.000	PARKS & REC	26.36
101-701-850.000	PLANNING	16.67
596-528-850.000	SOLID WASTE	19.08
588-596-850.000	SR. TRANSPORTATION	37.50
592-536-850.000	WATER & SEWER	118.59
101-191-850.000	FINANCE/ACCOUNTING	64.14

**COMCAST**

INTERNET - NOVEMBER 2021	A	Invoice Amount:	\$168.35
	101-261-852.000	Check Date:	12/01/2021

**DTE ENERGY**

BASEBALL DIAMONDS OCTOBER 2021-- 9100-15	A	Invoice Amount:	\$442.17
	101-751-920.000	Check Date:	12/01/2021

**DTE ENERGY**

DTE SERVICE MILLER PARK NOVEMBER 2021 - 9	A	Invoice Amount:	\$18.84
	101-751-920.000	Check Date:	12/01/2021

**FIDELITY SECURITY LIFE INSURANCE CO**

EYEMED - RETIREES DECEMBER 2021 (SPREADS		Invoice Amount:	\$650.28
		Check Date:	12/01/2021
592-537-875.000	PUBLIC WORKS RETIREES		70.55
592-536-875.000	PUBLIC SERVICES RETIREES		5.69
101-336-875.000	FIRE DEPT. RETIREES		271.15
101-325-875.000	DISPATCH RETIREE		10.81
101-301-875.000	POLICE DEPT. RETIREES		172.66
101-261-875.000	GENERAL RETIREES		119.42

**FIDELITY SECURITY LIFE INSURANCE CO**

EYEMED - CURRENT EMPLOYEES -DECEMBER 20		Invoice Amount:	\$995.08
		Check Date:	12/01/2021
101-262-718.000	ELECTIONS		10.81
592-537-718.000	PUBLIC WORKS ADMIN.		21.56
592-536-718.000	PUBLIC SERVICES		32.37
588-596-718.000	SENIOR TRANS		15.87
101-371-718.000	BUILDING DEPT.		43.18
101-336-718.000	FIRE DEPT.		290.52
101-325-718.000	DISPATCH		139.66
101-301-718.000	POLICE DEPT.		338.94
101-265-718.000	TOWNSHIP HALL		10.81
101-253-718.000	TREASURER DEPT.		42.55
596-528-718.000	SOLID WASTE		15.87
101-215-718.000	CLERK DEPT.		11.38
101-228-718.000	INFO SYSTEMS		15.87
101-171-718.000	SUPERVISOR DEPT.		5.69

**CHARTER TWSP OF PLYMOUTH**

BD Bond Refund		Invoice Amount:	\$98.15
	101-371-283.016	Check Date:	12/01/2021

**CHARTER TWSP OF PLYMOUTH**

BD Bond Refund		Invoice Amount:	\$98.15
	101-371-283.016	Check Date:	12/01/2021

**VERIZON WIRELESS**

VERIZON - CELL PHONES FOR PARK & FIRE (ACC		Invoice Amount:	\$82.29
	101-751-850.000	Check Date:	12/01/2021
	101-336-850.000		40.01

**Charter Township of Plymouth  
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**VENDOR INFORMATION**

**INVOICE INFORMATION**

**Total Amount to be Disbursed:** **\$10,623.36**

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>ALERUS FINANCIAL</b>		<b>Invoice Amount:</b>	<b>\$24,940.40</b>
MERS-457 PLAN - ALL EMPLOYEES 11-19-2021 P		<b>Check Date:</b>	<b>11/24/2021</b>
101-000-239.000	457 CONT. PRE-TAX		24,110.01
101-000-239.000	457 CONT. ROTH POST-TAX		830.39
<b>ALERUS FINANCIAL</b>		<b>Invoice Amount:</b>	<b>\$27,132.87</b>
MERS - DC FT EMPLOYEES -- EMPLOYER CONTRI		<b>Check Date:</b>	<b>11/24/2021</b>
101-171-716.000	SUPERVISOR'S OFFICE		1,032.04
101-228-716.000	IT DIRECTOR		600.77
101-215-716.000	CLERK'S OFFICE		1,334.35
101-253-716.000	TREASURER'S OFFICE		1,263.25
101-265-716.000	TWP BUILDING & GROUNDS		273.84
101-301-716.000	PD DEPT.		5,724.97
101-325-716.000	DISPATCH DEPT.		2,204.05
101-336-716.000	FIRE DEPT		6,482.70
101-371-716.000	BUILDING DEPT.		1,315.34
596-528-716.000	SOLID WASTE DEPT.		340.09
588-596-716.000	SENIOR TRANS		245.91
592-536-716.000	PUBLIC SERVICES		887.07
592-537-716.000	DPW		3,866.25
101-262-716.000	ELECTIONS		322.88
101-191-716.000	FINANCE DEPT		925.80
101-351-716.000	JAIL (RECORDS/FOIA)		313.56
<b>ALERUS FINANCIAL</b>		<b>Invoice Amount:</b>	<b>\$8,761.29</b>
MERS-DC FT EMPLOYEE CONTRIBUTIONS-11-19-		<b>Check Date:</b>	<b>11/24/2021</b>
101-000-238.000	MERS EMPLOYEE PRE TAX		7,572.77
101-000-238.000	MERS EMPLOYEE POST TAX		714.85
101-000-238.000	LOANS		473.67
<b>A T &amp; T</b>		<b>Invoice Amount:</b>	<b>\$967.70</b>
FIBER RADIO CIRCUITS - NOVEMBER 2021		<b>Check Date:</b>	<b>11/24/2021</b>
101-325-850.000	FIBER RADIO CIRCUITS NOVMBER 2021		967.70
<b>BLUE CARE NETWORK OF MICHIGAN</b>		<b>Invoice Amount:</b>	<b>\$9,102.89</b>
DECEMBER 2021- - BCN CLASSES 9 & 10 - DETA		<b>Check Date:</b>	<b>11/24/2021</b>
101-261-875.000	GENERAL RETIREES HEALTHCARE		3,495.57
101-301-875.000	POLICE RETIREES HEALTHCARE		537.78
101-325-875.000	DISPATCH RETIREES HEALTHCARE		537.78
101-336-875.000	FIRE RETIREES HEALTHCARE		3,456.20
592-537-875.000	PUBLIC WORKS RETIREES HEALTHCARE		1,075.56
<b>BLUE CROSS/BLUE SHIELD OF MICHIGAN</b>		<b>Invoice Amount:</b>	<b>\$981.00</b>
DECEMBER 2021 SHANNON RICHARDSON COVER		<b>Check Date:</b>	<b>11/24/2021</b>
101-325-718.000	SHANNON RICHARDSON COVERAGE 12/21		981.00
<b>COMCAST</b>		<b>Invoice Amount:</b>	<b>\$64.39</b>
INTERNET - DECEMBER 2021	XFINITY ACCT	<b>Check Date:</b>	<b>11/24/2021</b>
101-261-852.000	TOWNSHIP HALL INTERNET 12/21		64.39
<b>COMCAST</b>		<b>Invoice Amount:</b>	<b>\$218.40</b>
FIRE INTERNET STATION 3 -DECEMBER 2021 AC		<b>Check Date:</b>	<b>11/24/2021</b>
101-336-852.000	DECEMBER 2021 FIRE INTERNET STA #3		218.40
<b>COMCAST</b>		<b>Invoice Amount:</b>	<b>\$233.37</b>
SENIOR CENTER INTERNET - NOVEMBER 2021 --		<b>Check Date:</b>	<b>11/24/2021</b>
101-673-852.000	Senior Ctr Internet		233.37

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<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
	588-596-852.000	Senior Trans Internet	14.00
<b>COMCAST</b>		<b>Invoice Amount:</b>	<b>\$148.35</b>
INTERNET PORT STREET - DECEMBER 2021-- AC	592-537-852.000	<b>Check Date:</b>	<b>11/24/2021</b>
			148.35
<b>HONKE, ANITA</b>		<b>Invoice Amount:</b>	<b>\$148.50</b>
MEDICARE PART B - DECEMBER 2021	101-336-875.000	<b>Check Date:</b>	<b>11/24/2021</b>
			148.50
<b>I.A.F.F. - LOCAL 1496</b>		<b>Invoice Amount:</b>	<b>\$2,250.00</b>
IAFF DUES-NOVEMBER 2021 (DETAILED LISTIN	101-000-240.336	<b>Check Date:</b>	<b>11/24/2021</b>
			2,250.00
<b>KNUPP, LINDA</b>		<b>Invoice Amount:</b>	<b>\$144.64</b>
MEDICARE - PART B -DECEMBER 2021 - LINDA K	101-336-875.000	<b>Check Date:</b>	<b>11/24/2021</b>
			144.64
<b>M E R S</b>		<b>Invoice Amount:</b>	<b>\$158,349.72</b>
MERS - NOVEMBER 2021 EMPLOYEE AND EMPLO		<b>Check Date:</b>	<b>11/24/2021</b>
101-000-245.301	COAM - EMPLOYEE CONTRIB.		3,168.49
101-000-245.301	POAM-EMPLOYEE CONTRIB.		15,979.24
101-000-245.336	FIRE - EMPLOYEE CONTRIN.		12,041.68
101-000-245.325	DISPATCH - EMPLOYEE CONTRIB		5,429.75
101-301-715.000	COAM - EMPLOYER CONTRIB		25,456.56
101-301-715.000	POAM - EMPLOYER CONTRIB		31,286.00
101-336-715.000	FIRE - EMPLOYER CONTRIB		54,468.00
101-325-715.000	DISPATCH - EMPLOYER CONTRIB		10,458.00
101-336-715.000	FIRE CHIEF ACCT - EMPLOYER CONTRIB		62.00
<b>MAAS, CARLAS</b>		<b>Invoice Amount:</b>	<b>\$188.00</b>
MEDICARE PART B DECEMBER 2021	101-336-875.000	<b>Check Date:</b>	<b>11/24/2021</b>
			188.00
<b>PLYMOUTH POSTMASTER</b>		<b>Invoice Amount:</b>	<b>\$3,000.00</b>
POSTAGE FOR WINTER 2021 NEWSLETTER - DEC	101-261-851.000	<b>Check Date:</b>	<b>11/24/2021</b>
			3,000.00
<b>A T &amp; T LONG DISTANCE</b>		<b>Invoice Amount:</b>	<b>\$1.71</b>
LONG DISTANCE ALLOCATION SEPTEMBER 2021		<b>Check Date:</b>	<b>11/24/2021</b>
101-228-850.000	-INFO SERVICES		0.12
101-257-850.000	ASSESSING		0.07
101-371-850.000	BUILDING		0.19
101-336-850.000	FIRE		0.29
101-171-850.000	SUPERVISOR		0.18
101-253-850.000	TREASURER		0.16
101-215-850.000	CLERK		0.06
101-701-850.000	COMMUNITY DEVELOPMENT (PLANNING)		0.07
101-325-850.000	DISPATCH		0.12
101-673-850.000	TOWNSHIP HALL		0.03
101-751-850.000	PARK		0.02
592-536-850.000	DPW		0.04
101-301-850.000	POLICE		0.31
596-528-850.000	SOLID WASTE		0.02
101-191-850.000	FINANCE		0.03
<b>SIMPLIFILE, LC</b>		<b>Invoice Amount:</b>	<b>\$69.50</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/24/2021</b>
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		<i>101-371-283.016</i>	<i>BE20-0001</i>
			<i>69.50</i>
<b>Commercial Contracting Corporation</b>			
BD Bond Refund			
		<i>101-371-283.003</i>	<i>BP21-0101 - PB21-0772</i>
<b>Commercial Contracting Corporation</b>			
BD Bond Refund			
		<i>101-371-283.003</i>	<i>BP21-0100 - PB21-0772</i>
<b>WELLS FARGO REAL ESTATE TAX SERVICE</b>			
2021 Sum Tax Refund 78 058 01 0058 000			
		<i>703-000-202.000</i>	<i>Accounts Payable</i>
			<b>Total Amount to be Disbursed:</b>
			<b>\$243,227.15</b>

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**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>ADP INC</b>		<b>Invoice Amount:</b>	<b>\$4,159.35</b>
ADP - OCTOBER 2021 - # 5891878355 (DETAIL)	101-261-831.000	<b>Check Date:</b>	<b>11/17/2021</b>
			<b>4,159.35</b>
<b>Carlisle Wortman Associates</b>		<b>Invoice Amount:</b>	<b>\$1,110.00</b>
BD Bond Refund	101-371-283.003	<b>Check Date:</b>	<b>11/17/2021</b>
			<b>1,110.00</b>
<b>Carlisle Wortman Associates</b>		<b>Invoice Amount:</b>	<b>\$990.00</b>
BD Bond Refund	592-000-283.537	<b>Check Date:</b>	<b>11/17/2021</b>
			<b>990.00</b>
<b>CONSUMERS ENERGY</b>		<b>Invoice Amount:</b>	<b>\$380.68</b>
MONTHLY CHARGES - NOVEMBER 2021 (DETAIL)		<b>Check Date:</b>	<b>11/17/2021</b>
101-673-921.000	FRIENDSHIP STATION - 1000 257103478		104.53
588-596-921.000	SENIOR TRANS 1000 2571-3478		6.67
101-751-921.000	TWP. PARK 1000 257103262		67.96
101-336-921.000	FIRE STATION #2 - 1000 2571-3403		201.52
<b>MICH MUN RISK MGT AUTHORITY ECP</b>		<b>Invoice Amount:</b>	<b>\$13,021.61</b>
ELECTRIC CHOICE - MMRMA-D21021015 - SEPTE		<b>Check Date:</b>	<b>11/17/2021</b>
101-171-920.000	ELECTRIC CHOICE - SUPERVISOR/HR		525.39
101-228-920.000	ELECTRIC CHOICE - IT		443.30
101-257-920.000	ELECTRIC CHOICE - ASSESSING		180.60
101-215-920.000	ELECTRIC CHOICE - CLERK		750.65
101-253-920.000	ELECTRIC CHOICE - TREASURER		270.91
101-265-920.000	ELECTRIC CHOICE - TWP HALL - HAACK		16.42
101-673-920.000	ELECTRIC CHOICE - SR SERVICES		24.63
101-301-920.000	ELECTRIC CHOICE - POLICE		2,282.17
101-325-920.000	ELECTRIC CHOICE - DISPATCH		853.76
101-351-920.000	ELECTRIC CHOICE - LOCK-UP		697.79
101-336-920.000	ELECTRIC CHOICE - FIRE		402.25
101-371-920.000	ELECTRIC CHOICE - BUILDING DEPT		656.74
101-701-920.000	ELECTRIC CHOICE - COMM. DEV.		49.26
596-528-920.000	ELECTRIC CHOICE - SOLID WASTE		24.63
592-536-920.000	ELECTRIC CHOICE - DPS		738.83
592-537-920.000	ELECTRIC CHOICE - WATER		1,564.71
101-336-920.000	ELECTRIC CHOICE - FIRE		2,360.51
101-751-920.000	ELECTRIC CHOICE - PARKS		591.97
101-673-920.000	ELECTRIC CHOICE - FRIENDSHIP STATION		277.45
588-596-920.000	ELECTRIC CHOICE - SR TRANS		17.71
101-191-920.000	ELECTRIC CHOICE - FINANCE		291.93
<b>MICH MUN RISK MGT AUTHORITY ECP</b>		<b>Invoice Amount:</b>	<b>\$8,072.78</b>
ELECTRIC CHOICE - MMRMA-D21021015 - OCTO		<b>Check Date:</b>	<b>11/17/2021</b>
101-171-920.000	ELECTRIC CHOICE - SUPERVISOR/HR		325.50
101-228-920.000	ELECTRIC CHOICE - IT		274.64
101-257-920.000	ELECTRIC CHOICE - ASSESSING		111.89
101-215-920.000	ELECTRIC CHOICE - CLERK		465.06
101-253-920.000	ELECTRIC CHOICE - TREASURER		167.84
101-265-920.000	ELECTRIC CHOICE - TWP HALL - HAACK		10.17
101-673-920.000	ELECTRIC CHOICE - SR SERVICES		15.26
101-301-920.000	ELECTRIC CHOICE - POLICE		1,413.90
101-325-920.000	ELECTRIC CHOICE - DISPATCH		528.94
101-351-920.000	ELECTRIC CHOICE - LOCK-UP		432.31
101-336-920.000	ELECTRIC CHOICE - FIRE		249.21
101-371-920.000	ELECTRIC CHOICE - BUILDING DEPT		406.88

**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

**VENDOR INFORMATION****INVOICE INFORMATION**

101-701-920.000	ELECTRIC CHOICE - COMM. DEV.	30.52
596-528-920.000	ELECTRIC CHOICE - SOLID WASTE	15.26
592-536-920.000	ELECTRIC CHOICE - DPS	457.74
592-537-920.000	ELECTRIC CHOICE - WATER	1,151.30
101-336-920.000	ELECTRIC CHOICE - FIRE	1,616.87
101-751-920.000	ELECTRIC CHOICE - PARKS	236.72
101-673-920.000	ELECTRIC CHOICE - FRIENDSHIP STATION	(16.99)
588-596-920.000	ELECTRIC CHOICE - SR TRANS	(1.08)
101-191-920.000	ELECRIC CHOICE - FINANCE	180.84

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE18-0025

**Invoice Amount:** \$160.00  
**Check Date:** 11/17/2021  
**Amount:** 160.00

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE18-0007

**Invoice Amount:** \$580.00  
**Check Date:** 11/17/2021  
**Amount:** 580.00

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE18-0026

**Invoice Amount:** \$880.50  
**Check Date:** 11/17/2021  
**Amount:** 880.50

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE21-0017

**Invoice Amount:** \$977.50  
**Check Date:** 11/17/2021  
**Amount:** 977.50

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE19-0007

**Invoice Amount:** \$22.50  
**Check Date:** 11/17/2021  
**Amount:** 22.50

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE19-0006

**Invoice Amount:** \$620.00  
**Check Date:** 11/17/2021  
**Amount:** 620.00

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE20-0002

**Invoice Amount:** \$27.50  
**Check Date:** 11/17/2021  
**Amount:** 27.50

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE19-0002

**Invoice Amount:** \$362.50  
**Check Date:** 11/17/2021  
**Amount:** 362.50

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE19-0009

**Invoice Amount:** \$654.00  
**Check Date:** 11/17/2021  
**Amount:** 654.00

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE19-0012

**Invoice Amount:** \$30.50  
**Check Date:** 11/17/2021  
**Amount:** 30.50

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE20-0004

**Invoice Amount:** \$1,239.00  
**Check Date:** 11/17/2021  
**Amount:** 1,239.00

**SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016 BE20-0003

**Invoice Amount:** \$183.00  
**Check Date:** 11/17/2021  
**Amount:** 183.00

**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

<b>VENDOR INFORMATION</b>		<b>INVOICE INFORMATION</b>	
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$766.50</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE20-0009</i>	<i>766.50</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$19,811.50</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE20-0014</i>	<i>19,811.50</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$24,220.00</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE21-0016</i>	<i>24,220.00</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$30.50</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE21-0018</i>	<i>30.50</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$183.00</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE21-0025</i>	<i>183.00</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$4,565.50</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE21-0030</i>	<i>4,565.50</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$1,548.00</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE21-0031</i>	<i>1,548.00</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$714.00</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BPLE21-0001 - PB21-0950</i>	<i>714.00</i>
<b>SPALDING DEDECKER ASSOCIATES, INC.</b>		<b>Invoice Amount:</b>	<b>\$1,058.00</b>
BD Bond Refund		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-371-283.016</i>	<i>BE20-0001</i>	<i>1,058.00</i>
<b>WOW! BUSINESS</b>		<b>Invoice Amount:</b>	<b>\$18.81</b>
NOVEMBER 2021 ACCT. # 012296705		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>101-673-852.000</i>	<i>SENIOR UTIL</i>	<i>17.68</i>
	<i>588-596-852.000</i>	<i>SENIOR TRANS</i>	<i>1.13</i>
<b>FARMERS STATE BANK OF MUNITH</b>		<b>Invoice Amount:</b>	<b>\$2,584.17</b>
2021 Sum Tax Refund 78 063 02 0092 000		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>703-000-202.000</i>	<i>Accounts Payable</i>	<i>2,584.17</i>
<b>CORELOGIC</b>		<b>Invoice Amount:</b>	<b>\$2,742.28</b>
2021 Sum Tax Refund 78 022 01 0181 000		<b>Check Date:</b>	<b>11/17/2021</b>
	<i>703-000-202.000</i>	<i>Accounts Payable</i>	<i>2,742.28</i>
<b>Total Amount to be Disbursed:</b>			<b>\$91,713.68</b>



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** December 14, 2021

**ITEM:** Request to Consider Approval for a Planned Unit Development (PUD)  
Option for the Hillside Overlook Apartments (Resolution #2021-12-14-77)

**PRESENTERS:** Kevin Kovachevich, Applicant  
Laura Haw, AICP, Township Planner (McKenna)

**BACKGROUND:**

The applicant, Mr. Kevin Kovachevich, on behalf of District Capital Detroit, proposes to construct a Planned Unit Development Option, known as the Hillside Overlook Apartments, at the site of the former Courthouse Grille property at 41661 Plymouth Road. The redevelopment proposal is to construct a 4-story, multiple-family residential project (120 units) with two levels of covered parking. The proposal includes a mix of 1- and 2-bedroom units (72 and 48 units, respectively) and various residential amenities. Full copies of the proposed plan are available on the Township's website and at Township Hall Offices.

A public hearing was held at the November 17, 2021, Planning Commission meeting. Following the hearing and deliberation, the Planning Commission recommended the PUD Option to the Board of Trustees for approval.

Following a PUD Option approval by the Board, the applicant will be charged with securing Site Development Plan approval from the Planning Commission and ultimately, a PUD Contract with the Board. This project is recommended for approval, as noted in the enclosed resolution.

**PROPOSED MOTION:**

I move to adopt Resolution #2021-12-14-77. authorizing approval of the Hillside Overlook Apartments Planned Unit Development Option (41661 Plymouth Road), as recommended by the Planning Commission.

Moved By \_\_\_\_\_ Seconded By \_\_\_\_\_

**ROLL CALL:**

\_\_\_\_ Vorva \_\_\_\_ Curmi \_\_\_\_ Clinton \_\_\_\_ Monaghan \_\_\_\_ Doroshewitz \_\_\_\_ Stewart \_\_\_\_ Heise

STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH

**RESOLUTION TO APPROVE  
PLANNED UNIT DEVELOPMENT (PUD) OPTION**

**RESOLUTION #2021-12-14-77**

At a regular meeting of the Charter Township of Plymouth Board of Trustees (the ‘board’), held at Township Hall, 9955 N. Haggerty Road, Plymouth, Michigan on December 14, 2021, the following resolution was offered:

**WHEREAS**, the applicant of 41661 Plymouth Road (parcel ID: R-78-029-99-0002-000), District Capital Detroit, has requested Planned Unit Development (PUD) Option approval for the proposed Hillside Overlook Apartments, and,

**WHEREAS**, the Board of Trustees, per Zoning Ordinance No. 99, Article 23, has the ability to grant final approval for a Planned Unit Development Option, and,

**WHEREAS**, the Planning Commission considered the development proposal at their November 17, 2021 meeting and held a public hearing, and,

**WHEREAS**, the Planning Commission recommended approval for the proposed development option to the Board of Trustees on November 17, 2021, and,

**NOW, THEREFORE, BE IT RESOLVED** that the Charter Township of Plymouth Board of Trustees does hereby approve Resolution #2021-12-14-77 authorizing Planned Unit Development Option approval for the Hillside Overlook Apartments at 41661 Plymouth Road.

Motion By: \_\_\_\_\_ Seconded By: \_\_\_\_\_

**Roll Call:**

Vorva  Curmi  Clinton  Monaghan  Doroshewitz  Stewart  Heise

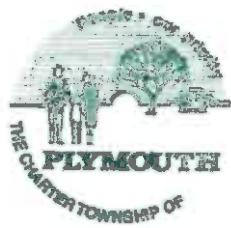
MOTION CARRIED \_\_\_\_\_

MOTION DEFEATED \_\_\_\_\_



## Hillside Overlook Apartments

See additional memo for this item at end of this document - after page 111.



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** December 14, 2021

**ITEM: Extension of Real Estate Purchase Agreement Amendment with Phoenix Management Holdings LLC, IV for surplus parcels at the DPW Yard, 46555 Port Street**

**PRESENTERS:** Supervisor Heise

**BACKGROUND:** I am again seeking your concurrence in extending the attached Real Estate Purchase Agreement Amendment with Phoenix Management Holdings, LLC, IV, for two surplus parcels at the DPW Yard. This is pursuant to a purchase agreement that would allow us to sell the two parcels for \$425,000.

The original one-year Agreement was approved by the Board on December 17, 2018 and has been extended several times since then. The extension requested tonight would run until June 30, 2022. The developer will be at the December 14 meeting to answer any questions you may have, and he has submitted the attached project update memo. The developer is again providing a \$10,000 non-refundable good-faith advance to the Township.

**PROPOSED MOTION:** I move that the Township Board approve Resolution #2021-12-14-78 authorizing the Township Supervisor and Clerk to sign the Real Estate Purchase Agreement Amendment with Phoenix Management Holdings, LLC, IV, for surplus Township parcels located at 46555 Port Street.

Moved By \_\_\_\_\_ Seconded By \_\_\_\_\_

ROLL CALL:

\_\_\_\_ Vorva, \_\_\_\_ Curmi, \_\_\_\_ Clinton, \_\_\_\_ Monaghan, \_\_\_\_ Doroshevitz, \_\_\_\_ Stewart, \_\_\_\_ Heise

**STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF  
PLYMOUTH**

**RESOLUTION TO APPROVE A REAL ESTATE PURCHASE AGREEMENT  
AMENDMENT WITH PHOENIX MANAGEMENT HOLDINGS LLC IV  
FOR SURPLUS PARCELS AT THE DPW YARD, 46555 PORT STREET,  
PLYMOUTH**

**RESOLUTION #2021-12-14-78**

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, MI on December 14, 2021, the following resolution was offered:

**WHEREAS**, The Board of Trustees of the Charter Township of Plymouth has been presented with a Real Estate Purchase Agreement Amendment with Phoenix Management Holdings, LLC, IV for the two surplus parcels located at the Township DPW yard at 46555 Port Street, Plymouth; and,

**WHEREAS**, the original one-year agreement was approved by the board on December 17, 2018; and,

**WHEREAS**, the Board of Trustees and Phoenix Management agreed to a contract amendment that would extend to December 31, 2021 in order for them to complete their engineering, environmental, wetland, legal, and other due diligence items, which they have been working on at their own expense; and

**WHEREAS**, the Parties now wish to extend the deadline set forth in paragraph 5 of the for closing from "within Two Hundred and Thirty (230) days after Buyer's acceptance date" to "June 30, 2022"; and

**WHEREAS**, the Parties agree that the remainder of the Purchase Agreement shall remain in effect;

**NOW THEREFORE** the Parties, in consideration of the mutual promises and covenants contained herein, in addition to other good and valuable consideration totaling ten thousand dollars (\$10,000), the sufficiency and receipt of which is hereby acknowledged through the Parties' signature hereto, the Parties agree to amend the Purchase Agreement as follows:

The clause in paragraph 5 that reads “within Two Hundred and Thirty (230) days after Buyer’s acceptance date” is hereby amended to “June 30, 2022.”

**NOW, THEREFORE, BE IT RESOLVED** that the Charter Township of Plymouth Board of Trustees does hereby approve Resolution #2021-12-14-78 authorizing the Township Supervisor and Clerk to sign the Real Estate Purchase Agreement Third Addendum with Phoenix Management Holdings, LLC IV, for surplus parcels located at 46555 Port Street, extending this agreement to June 30, 2022.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_

ROLL CALL:

Vorva,  Clinton,  Curmi,  Doroshevitz,  Heise,  Monaghan,  
 Stewart

## **Addendum to Real Estate Purchase Agreement**

This Addendum (“Addendum”) to Real Estate Purchase Agreement (“Agreement”) is entered this 14<sup>th</sup> day of December 2021 (the “Effective Date”), by and between Phoenix Management Holdings LLC IV (collectively and referred to herein as the “Buyer”) Plymouth Township (“Seller”). The parties collectively referred to herein as the “Parties.”

**Recitals:**

**WHEREAS** Sellers and Purchaser are parties to a certain Purchase Agreement dated on or about May 22, 2019 to purchase real property at 46555 Port Street Plymouth Township, a portion of such property having approximately 4.25 acres; and,

**WHEREAS** the Parties now wish to extend the deadline set forth in paragraph 5 of the for closing from “within Two Hundred and Thirty (230) days after Buyer’s acceptance date” to “June 30, 2022,”

**WHEREAS**, the Parties agree that the remainder of the Purchase Agreement shall remain in effect;

**NOW THEREFORE** the Parties, in consideration of the mutual promises and covenants contained herein, in addition to other good and valuable consideration totaling ten thousand dollars (\$10,000), the sufficiency and receipt of which is hereby acknowledged through the Parties’ signature hereto, the Parties agree to amend the Purchase Agreement as follows:

The clause in paragraph 5 that reads “within Two Hundred and Thirty (230) days after Buyer’s acceptance date” is hereby amended to “June 30, 2022.”

**Seller:**

**Purchaser:**

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By: \_\_\_\_\_  
Its: \_\_\_\_\_

---

By: \_\_\_\_\_  
Its: \_\_\_\_\_

# **Phoenix Management Holdings LLC IV**

December 3, 2021

**To: Supervisor Heise, Board of Trustees**

**RE: 46555 Port St Plymouth Twp., DPW Land approximately 4.5 acres**

The 13-acre DPW parcel was created in the early 1990's for the Township DPW, with the DPW building located in the middle of the parcel. The perimeter's 2.5 acre parcel of land to west has a grade differential; the parcel of land to the east 2 acres is surrounded by wetlands with narrow access point to the future building. There are storm water lines, water lines and sanitary lines that may require to be relocated in order to build what is planned. The storm water detention that will be required will be split between multiple parcels.

**Since the last Board meeting the following outstanding issues have been addressed:**

- Submitted the preliminary drawings to the Wayne County and received some feedback on the design requirements.
- Completed the field work for the current utilities and existing grades.
- Completed preliminary site plan for submittal to the Township Planning Commission for its January 2022 meeting.
- Submittal to Wayne County for review later this month.

Since our last meeting there have been some setbacks as well. My original surveyor was delayed for 8 weeks due to his workload and shortage of help. This is unfortunately something common in the industry in these times.

In addition, the original engineer I started with could not complete the project timely and I moved the project to a new engineer. Unfortunately the lead engineer passed away at young age of 27. The same engineering firm is on the project and will see this through.

**The Plan still requires the following:**

Utilize the current access points of DPW to serve the east and west buildings planned. The previous plan was fill wetlands to create a new access point to serve the east building which would only create more delays. Utilization of a portion of land running along the railroad tracks adjacent to the DPW yard as shown for storm water retention.

A storm water outlet will require a Michigan Department of Environment, Great Lakes and Energy (EGLE) approved wetland in the final engineering plan.

Based on the site plan layout an ingress and egress easement/agreement between the DPW parcel and proposed west and east parcels will be needed. The proposed parking between west parcel and the DPW parcel is shown on the updated site plan. In addition the west parcel will require a shared parking and maintenance agreement. Moreover each component of the development will be self-parked.

The property to be purchased from Plymouth Township started in May 2019. The planning and design have gone through many changes due to the complexity of the existing DPW buildings, utilities, wetlands, and access points. Due to the limited workforce in Wayne County due to Covid, the review times have been extended, leading to unprecedented delays in turnaround times. The project was originally submitted to Wayne County July 2020, then the plans were updated and submitted March 10, 2021 and as result of such general comments the plans have been updated and will be submitted to the Wayne County for review in December upon an initial review of the plans by the Township Engineer.

The Buyer requests a 6-month extension of the Purchase Agreement subject to the conditions of the Purchase Agreement to compete preliminary/final approval of the site plan, including final reviews by the County, State, and Township. For such consideration the Buyer shall offer Plymouth Township a \$10,000 nonrefundable extension fee which shall be applied to the purchase price.

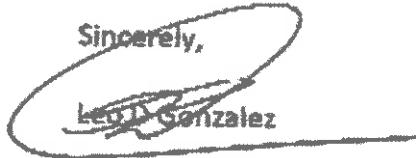
**Phoenix Management Holdings LLC IV** remains committed to this project and will continue to provide all resources to secure the approvals for the project and be prepared to close at the end of such extension subject to the conditions of such Purchase Agreement.

These last many months due to Covid, have been unprecedented, and directly impacted the review periods and other related processes of this project and others.

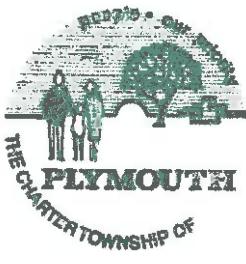
**Site Plan** will be provided at the meeting and I will be in attendance for any discussion or questions of the members of the Board Trustees.

**Phoenix Management Holdings LLC IV**

Sincerely,



Leo D. Gonzalez



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** December 14, 2021

**ITEM:** Board approval of Trash Collection Fee Adjustment for 2022

**PRESENTERS:** Supervisor Heise, Finance Director Moriarty

**BACKGROUND:** It is the responsibility of the Board of Trustees to oversee and approve the fee structure required to cover the cost of associated services.

In September 2015, the township entered into a 7-year Agreement with Rizzo Environmental Services (now GFL) for the collection and disposal of residential refuse, recyclables, and yard waste. The Agreement terminates in September of 2022 and anticipated contractual increases call for a rate increase of 3% for the service year.

As documented in the 2022 Trash Collection Budget, a fee increase is necessary to cover the cost of the anticipated trash and recycling collections contract increase, department operational costs, and other related services. This fee appears on residents' quarterly water bills. You may recall that we approved a similar adjustment last year to the trash collection budget. Tonight, we are requesting you approve a Trash Collection fee adjustment from \$15.25 per month to \$15.75 per month effective with the January 2022 water billing cycle.

**RESOLUTION:** I move to approve Resolution # 2021-12-14-79 which, effective with the January 2021 water billing cycle, adjusts the Trash Collection fee from \$15.25 per month to \$15.75 per month.

STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH

**RESOLUTION # 2021-12-14-79**

**TRASH COLLECTION FEE ADJUSTMENT FOR 2022**

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the "Board"), held at Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan on December 14, 2021, the following resolution was offered:

**WHEREAS**, it is the responsibility of the Board to oversee and approve the fee structure required to cover the cost of associated services; and

**WHEREAS**, the cost to cover the collection and disposal of residential refuse, recyclables, and yard waste (Trash Collection), department operational cost increases, and other related services, calls for a rate increase of 3%; and

**WHEREAS**, a review and analysis of the trash collection costs by the Township Finance Director during the development of the 2022 Trash Collection Fund Budget, revealed the need for an adjustment in the fees collected by the Township to cover said costs.

**NOW, THEREFORE BE IT RESOLVED** that, effective with the January 2022 water billing cycle, the Trash Collection fee be adjusted from \$15.25 per month to \$15.75 per month.

Present: [Curmi, Clinton, Stewart, Doroshewitz, Heise, Monaghan, Vorva]

Moved by:

Supported by:

**Roll Call Vote**

Ayes:

Nays:

**Adopted:** Regular Meeting of the Board of Trustees on December 14, 2021

---

Jerry Vorva, Clerk, Charter Township of Plymouth

**STATE OF MICHIGAN**      )  
                                )  
**COUNTY OF WAYNE**      )

**Certification**

I hereby certify that the foregoing is a true copy of the above Resolution, the original of which is on file in my office.

---

Jerry Vorva, Clerk  
Charter Township of Plymouth

---

Date

**Resolution:** 2021-12-14-79



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** December 14, 2021

**ITEM:** Review of Goals for 2021

**PRESENTERS:** Supervisor Heise

**BACKGROUND:** For tonight's meeting I would like us to briefly review and update our list of goals for the year ending 2021. This review should be helpful as we start to think about our goals for next year. At our next Board Meeting on January 11 we will discuss in greater detail our goals for 2022. Between now and then if you have any ideas or suggestions on next year's goals, please share them with me.

**PROPOSED MOTION:** None, Discussion Only

# 2021 - Prioritized Goals (Highest Ranking)

## Scorecard - Updated 12-14-21

Category	Goal	Total	Average	Importance	As of 12-14-21
					Score
Technology	Implement Measures to Prevent Malware and Cyber Attacks	35	5.00	Very High	Ongoing
Fiscal Integrity	Study Options for New Trash Hauling Contract in 2022; Bid Out in Q4-2021	33	4.71	Very High	Done
Fiscal Integrity	Ordinance Change - Adjust Water Delinquency Date from September 1 to November 1	33	4.71	Very High	Done
Fiscal Integrity	Refinance Township Hall Bonds (5 years remaining)	33	4.71	Very High	No Action
Fiscal Integrity	Overhaul Water/Sewer Billing Rate Methodology	32	4.57	Very High	No Action
Technology	Develop Township-Wide Strategic Technology Plan	32	4.57	Very High	Ongoing
Technology	Develop Long-Term IT Capital Improvement Plan	32	4.57	Very High	Ongoing
Technology	Install New Sound System in Township Boardroom	32	4.57	Very High	Done
Infrastructure	Township-Wide Sidewalk Replacement Program; Improve Communications & Outreach	31	4.43	High	Done
Infrastructure	Develop Long-Range Road Repair Plan with County (Beck, Haggerty, McClumphin Roads)	31	4.43	High	Done
Fiscal Integrity	Develop Policy for Good-Faith Accidental Water Usage Issues (i.e. leaks)	31	4.43	High	Ongoing
Economic Development	Seek Outside Legal Opinion on Use of Surplus Brownfield Funds	31	4.43	High	Done
Economic Development	Disband DDA; Transfer Fund Balance to Sidewalk/Connectivity Program (example)	31	4.43	High	Done
Technology	Explore Option to Utilize Managed Service Provider(s) for IT Services	31	4.43	High	No Action
Fiscal Integrity	Adjust Water Billing Cycle to Allow 30 Days for Payment	30	4.29	High	Ongoing
Fiscal Integrity	Optimize Active and Retiree's Insurance Options to Reduce Adminstration and Cost	30	4.29	High	Ongoing
Quality of Life	Consider Privatization of Senior Bus Service	30	4.29	High	Done
Technology	Website Overhaul (Within Contract Limitations)	30	4.29	High	Ongoing
Public Safety	Make Proposal to City of Plymouth to Provide Fire Service	29	4.14	High	Done
Public Safety	Review Transport Contract with HVA (expires Sept 2021)	29	4.14	High	Done
Quality of Life	Plymouth Rd/Hines Dr/Haggerty Corridor Improvements and Accessibility (With County)	29	4.14	High	Ongoing
Quality of Life	Initiate Pilot Project for "Dog Friendly" Area in Township Park	29	4.14	High	Done
Economic Development	Promote Five Mile (MITC), Plymouth/Haggerty Corridors	29	4.14	High	Done
Economic Development	Update Zoning, Precinct, Planning and All Other Township Maps	29	4.14	High	Ongoing
Technology	Implement "Work From Home" Networking Abilities (to Include BS&A Software)	29	4.14	High	Ongoing
Fiscal Integrity	Review/Update Collection Rate for Transports, Emergency Recovery and Hazmat	28	4.00	High	Done
Fiscal Integrity	Sell Surplus Property Around DPW Building	28	4.00	High	Ongoing
Fiscal Integrity	Succession Planning for Key Personnel	28	4.00	High	Done
Fiscal Integrity	Design/Implement Automated Meter Reading System to Replace Current Manual Process	28	4.00	High	Ongoing
Fiscal Integrity	Evaluate Residential Water Meter Change Out Policy and Investigate Longer Life Meters	28	4.00	High	Ongoing
Fiscal Integrity	Implement Mandatory "Attestation" for Healthcare Coverage of Retirees and Spouses	28	4.00	High	Done
Quality of Life	Study Feasibility of New Gold Course Entrance off of Ann Arbor Trail	28	4.00	High	Done

<b>Quality of Life</b>	Replace Aged Wooden Fence Running Along Golf Course and Park Entrance	28	4.00	High	Delayed
<b>Infrastructure</b>	Close Sidewalk Gaps Around Town - Especially McClumph & N. Territorial	27	3.86	High	Done
<b>Fiscal Integrity</b>	Lease or Repurpose Unused Portion of DPW Building	27	3.86	High	Done
<b>Quality of Life</b>	Upgrade Forest Walkway at Township Park	27	3.86	High	Delayed
<b>Technology</b>	Implementation/Acquisition of Unified Communications Tools (Already Under License)	27	3.86	High	No Action
<b>Infrastructure</b>	Improve Appearance and Landscaping at Ann Arbor Road Rail Overpass	26	3.71	High	Ongoing
<b>Fiscal Integrity</b>	Update Board Meeting Policies and Procedures; Greater Use of Consent Agenda	26	3.71	High	Done
<b>Fiscal Integrity</b>	Fully Fund Building Maintenance Funds	26	3.71	High	Done
<b>Quality of Life</b>	Increase Walking/Running/Biking Options in the Township	26	3.71	High	Ongoing
<b>Quality of Life</b>	Upgrade Park Entry Gates	26	3.71	High	No Action
<b>Public Safety</b>	Create Emergency Relief Fund with Plymouth Community Foundation	25	3.57	High	Done
<b>Public Safety</b>	Publish "Meaningful" Police Statistics on Website	25	3.57	High	No Action
<b>Infrastructure</b>	Bid for Maintenance Contract for All Facilities - HVAC and Other Systems	25	3.57	High	Ongoing
<b>Infrastructure</b>	Install New, Safer Surface at Entrance to Township Hall	25	3.57	High	Ongoing
<b>Fiscal Integrity</b>	Determine Tax Status of Henry Ford Hospital and Adjacent Properties	25	3.57	High	Ongoing
<b>Fiscal Integrity</b>	Revisit the Decision to Outsource the HR and Payroll Functions	25	3.57	High	No Action
<b>Fiscal Integrity</b>	Migrate the Current ADP Payroll System over to BS&A	25	3.57	High	Ongoing
<b>Fiscal Integrity</b>	Replace Current Cleaning Service Contractor	25	3.57	High	Done
<b>Fiscal Integrity</b>	Equality in Death Benefits for Employees Over 65 Years of Age	25	3.57	High	Done



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** December 14, 2021

**ITEM: Salary Adjustments for the Deputy Clerk and Deputy Treasurer**

**PRESENTER:** Supervisor Heise, Clerk Vorva

**BACKGROUND:** Union and non-union personnel have been consistently provided pay raises by the Board of Trustees since 2017, either by contract or Board Resolution. Michigan Law (MCL 41.69 and 41.77(5)), states that the offices of Deputy Clerk and Deputy Treasurer '*shall be paid by salary or otherwise as determined by the Township Board.*'

On January 24, 2017, the Board set the annual salary of the Deputy Clerk at \$68,900 and the Deputy Treasurer at \$64,000. On February 11, 2020, the Board raised the Deputy Treasurer's salary to \$68,900. Both positions are now paid the same amount.

Tonight, we are requesting a one-time salary adjustment of **2.5 percent** for the full-time offices of Deputy Clerk and Deputy Treasurer, effective January 1, 2022. In addition, that the office of Deputy Clerk be entitled to Premium Pay not to exceed \$10,000 in an even-numbered election year, at the discretion of the Township Clerk.

**PROPOSED MOTION:** I move to adopt Resolution 2021-12-14-80 authorizing a one-time salary adjustment of 2.5 percent for the full-time offices of Deputy Clerk and Deputy Treasurer, effective January 1, 2022 and authorizing the Finance Director to appropriate fund balance in the amount of \$4,200, amending the 2022 General Fund budget as needed to provide for salary adjustments for the same. In addition, authorizing that the office of Deputy Clerk be entitled to Premium Pay not to exceed \$10,000 in an even-numbered election year, at the discretion of the Township Clerk.

Moved By \_\_\_\_\_ Seconded By \_\_\_\_\_

ROLL CALL:

\_\_\_\_Vorva\_\_\_\_ Curmi,\_\_\_\_ Clinton,\_\_\_\_ Monaghan,\_\_\_\_ Doroshewitz,\_\_\_\_ Stewart,\_\_\_\_ Heise

**STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION # 2021-12-14-80**

**SALARY ADJUSTMENTS FOR DEPUTY CLERK AND DEPUTY TREASURER**

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the "Board"), held at Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan on December 14, 2021, the following resolution was offered:

**WHEREAS**, Union and non-union personnel have been consistently provided pay raises by the Board of Trustees since 2017, either by contract or Board Resolution, and;

**WHEREAS**, State Law (MCL 41.69 and 41.77(5)), also states that the offices of Deputy Clerk and Deputy Treasurer 'shall be paid by salary or otherwise as determined by the Township Board' and;

**WHEREAS**, On January 24, 2017, the Board set the annual salary of the Deputy Clerk at \$68,900 and the Deputy Treasurer at \$64,000, and on February 11, 2020, the Board raised the Deputy Treasurer's salary to \$68,900, and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 General Fund's fund balance in the amount of \$4,200 and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 Treasurer's Office budget in the amount of \$2,100 in the appropriate Wage, FICA, and Retirement account, and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 Clerk's Office budget in the amount of \$2,100 in the appropriate Wage, FICA, and Retirement account, and;

**NOW, THEREFORE BE IT RESOLVED** that the Plymouth Township Board of Trustees hereby adopts this Resolution #2021-12-14-80 authorizing a one-time salary adjustment of 2.5 percent for the full-time offices of Deputy Clerk and Deputy Treasurer, effective January 1, 2022. In addition, that the office of Deputy Clerk be entitled to Premium Pay not to exceed \$10,000 in an even-numbered election year, at the discretion of the Township Clerk.

**FURTHERMORE**, that the Board authorizes the Finance Director to appropriate fund balance in the amount of \$4,200, amending the 2022 General Fund budget to provide for salary adjustments for the positions of Deputy Clerk and Deputy Treasurer.

Moved by:

Supported by:

Roll Call Vote

Ayes:

Nays:

**Adopted:** Regular Meeting of the Board of Trustees on December 14, 2021.

---

Jerry Vorva, Clerk, Charter Township of Plymouth

Certification

STATE OF MICHIGAN )

)

COUNTY OF WAYNE )

I hereby certify that the foregoing is a true copy of the above Resolution, the original of which is on file in my office.

---

Jerry Vorva, Clerk  
Charter Township of Plymouth

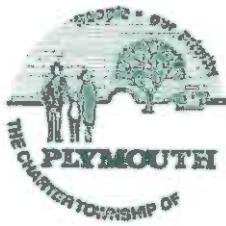
Date

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**Resolution:** 2021-12-14-80

Page 2 of 2

## FY2022 Budget Appropriation for Elected & Appointed Wage Increases



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** December 14, 2021

**ITEM:** Salary Adjustments for the Board of Trustees

**PRESENTER:** Supervisor Heise

**BACKGROUND:** Union and non-union personnel have been consistently provided pay raises by the Board of Trustees since 2017, either by contract or Board Resolution. Last year, the Board approved a one-time salary adjustment of 2.0 percent for each of the full-time and part-time Board of Trustee positions. The same percentage amount was paid earlier this year to the non-union personnel and department heads.

Tonight, I am requesting a one-time salary adjustment of **2.0 percent** for the full-time offices of Supervisor, Treasurer, and Clerk, and **2.0 percent** for Trustee positions effective January 1, 2022.

**PROPOSED MOTION:** I move to adopt Resolution 2021-12-14-81 authorizing a one-time salary adjustment of 2 percent for the offices of Supervisor, Treasurer, and Clerk, and 2 percent for the Trustee positions, effective January 1, 2022, and authorizing the Finance Director to appropriate fund balance in the amount of \$ 8,000, amending the 2022 General Fund budget as needed to provide for salary adjustments for the elected positions of Supervisor, Treasurer, Clerk, and Trustee.

Moved By \_\_\_\_\_ Seconded By \_\_\_\_\_

ROLL CALL:

\_\_\_\_Vorva\_\_\_\_ Curmi,\_\_\_\_ Clinton,\_\_\_\_ Monaghan,\_\_\_\_ Doroshewitz,\_\_\_\_ Stewart,\_\_\_\_ Heise

**STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION # 2021-12-14-81**

**ELECTED OFFICIALS' SALARY ADJUSTMENTS**

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the "Board"), held at Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan on December 14, 2021, the following resolution was offered:

**WHEREAS**, salary adjustments for union and non-union personnel have been consistently provided by the Board of Trustees since 2017, either by contract or Board Resolution, and;

**WHEREAS**, a previous Board of Trustees abolished the Township Compensation Commission in 2016, and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 General Fund's fund balance in the amount of \$8,000 and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 Supervisor's Office budget in the amount of \$2,800 in the appropriate Wage, FICA, and Retirement account, and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 Treasurer's Office budget in the amount of \$2,600 in the appropriate Wage, FICA, and Retirement account, and;

**WHEREAS**, the board authorizes the Finance Director to appropriate fund balance amending the 2022 Clerk's Office budget in the amount of \$2,600 in the appropriate Wage, FICA, and Retirement account, and;

**NOW, THEREFORE BE IT RESOLVED** that the Plymouth Township Board of Trustees hereby adopts this Resolution #2021-12-14-81 authorizing a one-time salary adjustment of 2.0 percent for the offices of Supervisor, Treasurer, and Clerk, and Trustee positions, effective January 1, 2022, and;

**FURTHERMORE**, that the Board authorizes the Finance Director to appropriate fund balance in the amount of \$ 8,000, amending the 2022 General Fund, budget as needed to provide for salary adjustments for the positions of Supervisor, Treasurer, and Clerk.

Supported by:

Roll Call Vote

Ayes:

Nays:

**Adopted:** Regular Meeting of the Board of Trustees on December 14, 2021.

---

Jerry Vorva, Clerk, Charter Township of Plymouth

STATE OF MICHIGAN )

)

COUNTY OF WAYNE )

Certification

I hereby certify that the foregoing is a true copy of the above Resolution, the original of which is on file in my office.

---

Jerry Vorva, Clerk  
Charter Township of Plymouth

Date

**Resolution:** 2021-12-14-81

## FY2022 Budget Appropriation for Elected & Appointed Wage Increases

**MEMORANDUM**

**DATE:** Submitted originally on November 9th, 2021, and Amended on December 9th, 2021

**TO:** Charter Township of Plymouth Board of Trustees

**FROM:** Anne Jamieson-Urena, Jamieson Development Consulting and Applied Environmental

**SUBJECT:** Update on the Brownfield Incentives and associated source of contamination at the Courthouse Grille Restaurant site (commonly known as 41661 Plymouth Road)

On May 20<sup>th</sup>, 2020, the Charter Township of Plymouth Brownfield Redevelopment Authority (PBRA) Adopted a Brownfield Plan (Plan) for the former Courthouse Grille site. Following the adoption of the Plan it was discovered that additional environmental challenges may be present on the property based on the identification of widespread historic landfilling/dumping operations across most of the Property identified in a Geotechnical report updated in January 2020, following the initial Phase I and Phase II Environmental Site Assessment. Based on this new information and additional recognized environmental conditions (RECs) the Department of Environment, Great Lakes, and Energy (EGLE) and Applied Environmental determined that it would be necessary for additional sampling and analysis of soil and groundwater to be conducted at the Property, if the proposed project at the time, Hillside Residences was to be constructed. Based on a number of factors the former development team bowed out of the development project at the end of the Summer 2020.

As a result, District Capital Detroit entered into a purchase agreement with the current owner on November 23, 2020 and has proposed to build a multi-family development located on the existing Courthouse Grille Restaurant site (commonly known as 41661 Plymouth Road). The project will consist of a single, state of the art multi-family building with four levels of units above 2 levels of secure garage parking. District Capital Detroit has formed Courthouse Development LLC (Courthouse Development), a single purpose LLC for the purpose of redeveloping this property.

In January 2021, Applied Environmental was engaged to complete a supplemental Phase II ESA to sample the additional areas of contamination identified as part of the landfilling/dumping activities on the property and based on recognized environmental conditions (RECs) identified in the January 2020, Geotechnical report and discussions

with EGLE. A total of 28 soil samples and 2 groundwater samples were collected for laboratory analysis. Soil and groundwater samples were analyzed for Volatile Organic Compounds (VOCs), Polynuclear Aromatic Hydrocarbons (PNAs), and Michigan 10 Metals.

The results of the Phase II ESA identified concentrations of several VOCs including: n-Butylbenzene, 2-Methylnaphthalene, and Naphthalene were detected on the southcentral portion of the subject property. Concentrations of PNAs including: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g, h, i) perylene, Benzo(a)pyrene, Chrysene, Dibenzo (a, h) anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd) pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, and Pyrene were detected in soil samples throughout the Property. As well as metals, including Arsenic, Barium, Cadmium, Total Chromium, Copper, Lead, Mercury, Total, Selenium, Silver, and Zinc were detected throughout Property. *Please see the attached Maps depicting the identified widespread contamination on the site from the historic landfilling/dumping activities prior to the construction of the restaurant.*

Based on these findings it was determined that the Brownfield Plan should be Amended and an EGLE Grant and Loan be sought to address the additional cost to accommodate the new proposed development structural and environmental challenges. These challenges include addressing geotechnical issues with developing on fill material, handling and disposing of impacted soil during construction and mitigating exposure risk for construction workers during development. In addition, based on the constituents and concentrations of contaminants identified within the fill material, proper mitigation of a potential vapor intrusion risks will be required.

Currently, we have the full support of EGLE for this approach.

Therefore, Jamieson Development Consulting is under contract with Courthouse Development to evaluate the existing conditions on the site with the development teams engineers and environmental consultants; and apply for on behalf of Courthouse Development in collaboration with the Charter Township of Plymouth to Amend the Brownfield Plan and to apply for a EGLE Grant/Loan in the amount of a \$1 Million Grant and a \$1 Million Loan to offset the Brownfield conditions presenting development and gap financing challenges on the Property.

At this time, Courthouse Development has met all of their All-Appropriate Inquiry (AAI) standards for a land transfer, purchase, acquisition, occupancy, renovation, or redevelopment. A Phase I ESA, Phase II ESA, Baseline Environmental Site Assessment (BEA), and a Documentation of Due Care Report (filed with ELGE) has been completed for the management of the property prior to construction activities. A BEA is a document that describes the results of AAI and the sampling and analysis that confirm that the land is a facility or a site (see MCL 324.20101(1)(f) and MCL 324.21302(c)). The

AAI or its components must be conducted or updated prior to, or within 45 days after, the date of purchase, occupancy, or foreclosure, whichever is earlier. The BEA must be submitted to EGLE within six months of the same date to be valid.

To ensure that the appropriate next steps will be undertaken prior to development Courthouse Development has hired a team of environmental and engineering specialists to evaluate of all the due care and response activities required by EGLE for a Brownfield property that is contemplating redevelopment. This includes asbestos, mold, and lead paint surveys necessary in structures that will be demolished. Surveys determine the presence, quantity, and condition of potential hazards.

An owner or operator who has knowledge that land is a facility or is contaminated has due care obligations under MCL 324.20107a and MCL 324.21304c. In general, the landowner or operator is required to:

- Prevent unacceptable exposure
- Use the land in a manner that is protective of public health and safety
- Prevent exacerbation of contamination or acts of a third party that might exacerbate contamination
- Provide access to authorized personnel to assess or conduct response activities
- Comply with and not impede land use or resource use restrictions

To meet the due care obligations required on this site by EGLE, Courthouse Development will have to complete the following activities:

- abate the hazardous materials in the building prior to demolition;
- complete site and building demolition;
- properly manage dewatering of contaminated groundwater, if necessary, AND manage the export of the contaminated soils appropriately;
- disposal of solid waste, as defined in Part 115, Solid Waste Management, of NREPA, MCL 324.11506 of the NREPA, may be have to be removed, transported to, and disposed of at a licensed waste disposal facility;
- execute proper engineering controls, such as site cap, installation of specialized utility features, etc., to offset the cost of a full removal of all the contaminated soils;
- Construction of specialized foundations on contaminated land as approved by EGLE as an eligible activity as a cost-benefit analysis has been provided by a licensed P.E. demonstrates and it has been demonstrated that cost of specialized foundations would be less than the cost for transportation and disposal of contaminated material; and
- the installation of a vapor mitigation system to assure that all due care pathways are addressed. This will be done in collaboration with EGLE.

We anticipate the approval of an Amended Brownfield plan, and the support of Brownfield grants and loans available from EGLE in order to promote economic development and reuse of this brownfield property.

Grants and loans can be used for environmental assessments and cleanups at properties with known or suspected contamination. EGLE grants and loans can help communities:

- Revitalize abandoned properties and return them to tax rolls
- Attract developers to brownfields
- Avoid sprawl by reusing properties with existing infrastructure

Applicants may be local units of government including brownfield redevelopment authorities (BRAs), economic development corporations, or other public bodies created pursuant to state law.

### **ELIGIBLE ACTIVITIES**

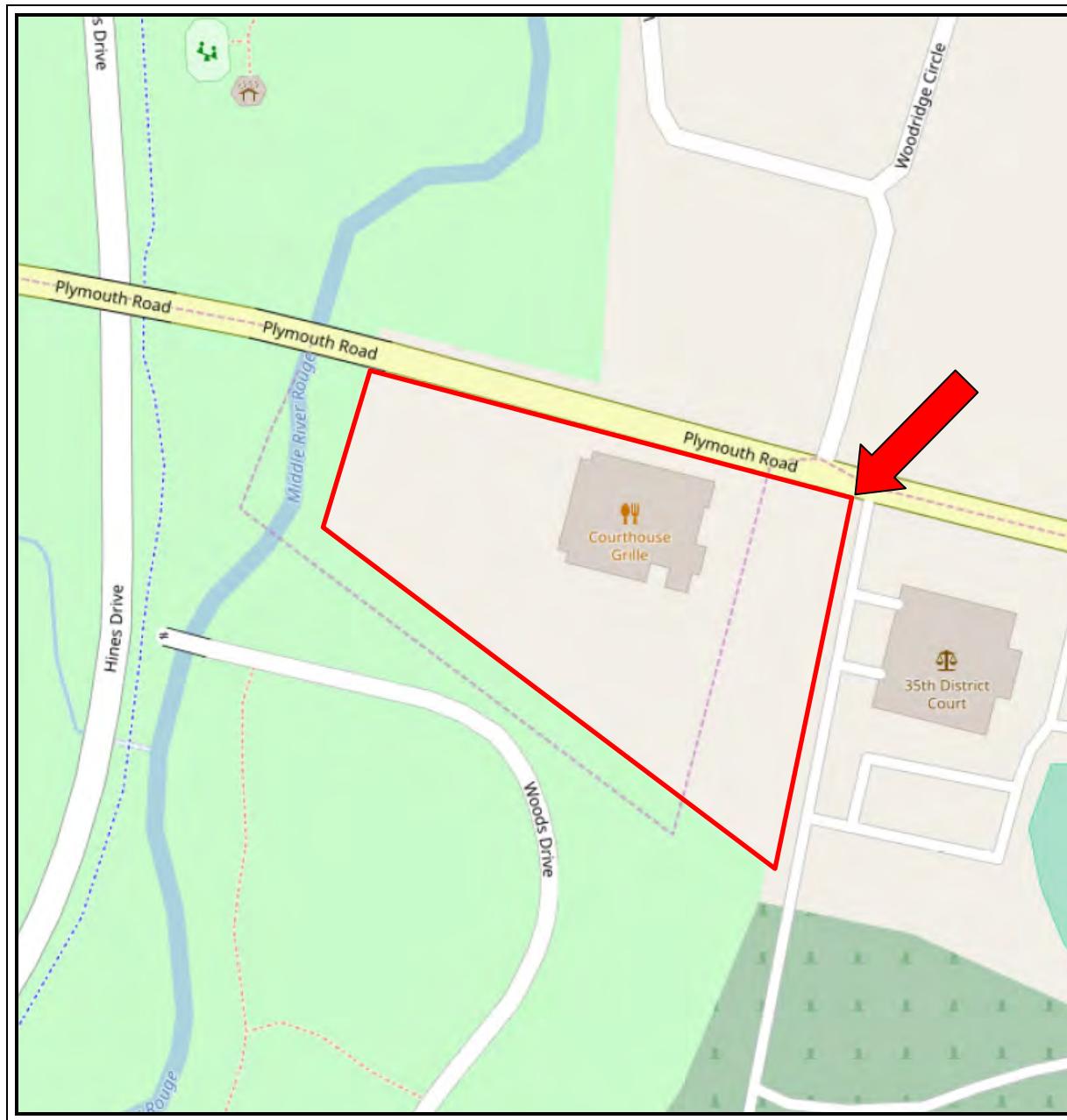
Grants and loans can pay for:

- Environmental evaluations/assessments
- Baseline Environmental Assessments
- Due care planning and implementation
- Response Activities including specialized foundations on properties with extensive fill material and contamination
- Demolition, lead, mold, and asbestos abatement

The Part I and II applications have been submitted to EGLE and we are waiting to see if the Township is supported for the Grant and Loan funds for this development.

Part III –We will submit this once the Amended Brownfield Plan, and Preliminary Site Plans have been approved to solidify the contract with EGLE.

At this time, we are waiting approval for the EGLE Grant and Loan and will update the Board of Trustees as soon as we are notified of an award. Following this award, we will be Amending the Brownfield Plan to address the site-specific environmental challenges presented at this property. With out support for these incentives the redevelopment of this property is cost prohibitive.



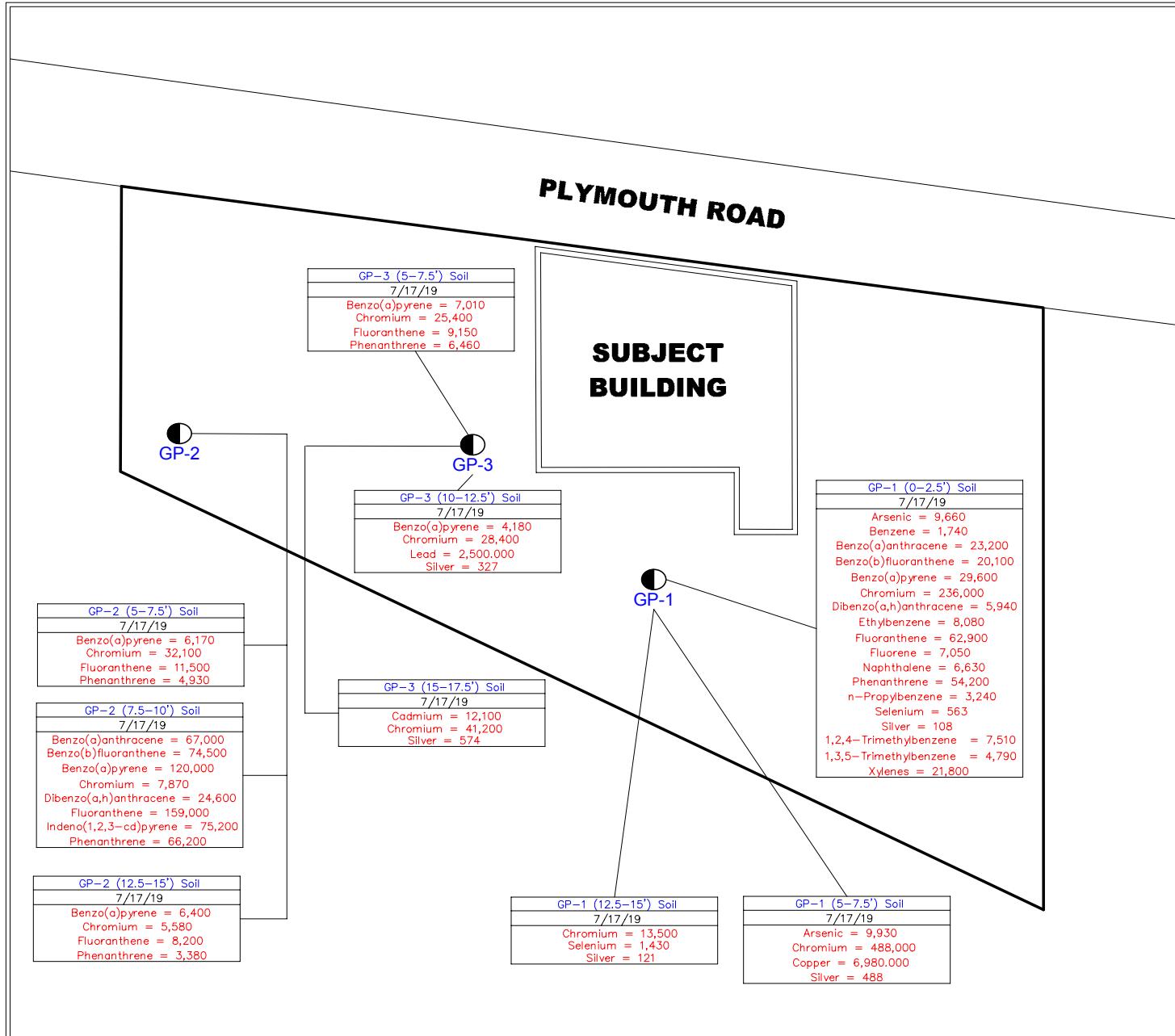
**Figure 1**  
**Site Location Map**





**Figure 2**  
**Scaled Area Map**





**NORTH**

1" = 70'

### Legend

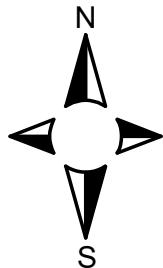
- Approximate Subject Property Border
- All results reported in ug/kg (soil)
- Only results that exceed EGLE Part 201 GRCC included on the map

**FIGURE 3**  
**SOIL BORING LOCATIONS MAP AND ANALYTICAL RESULTS**  
**7/17/2019**

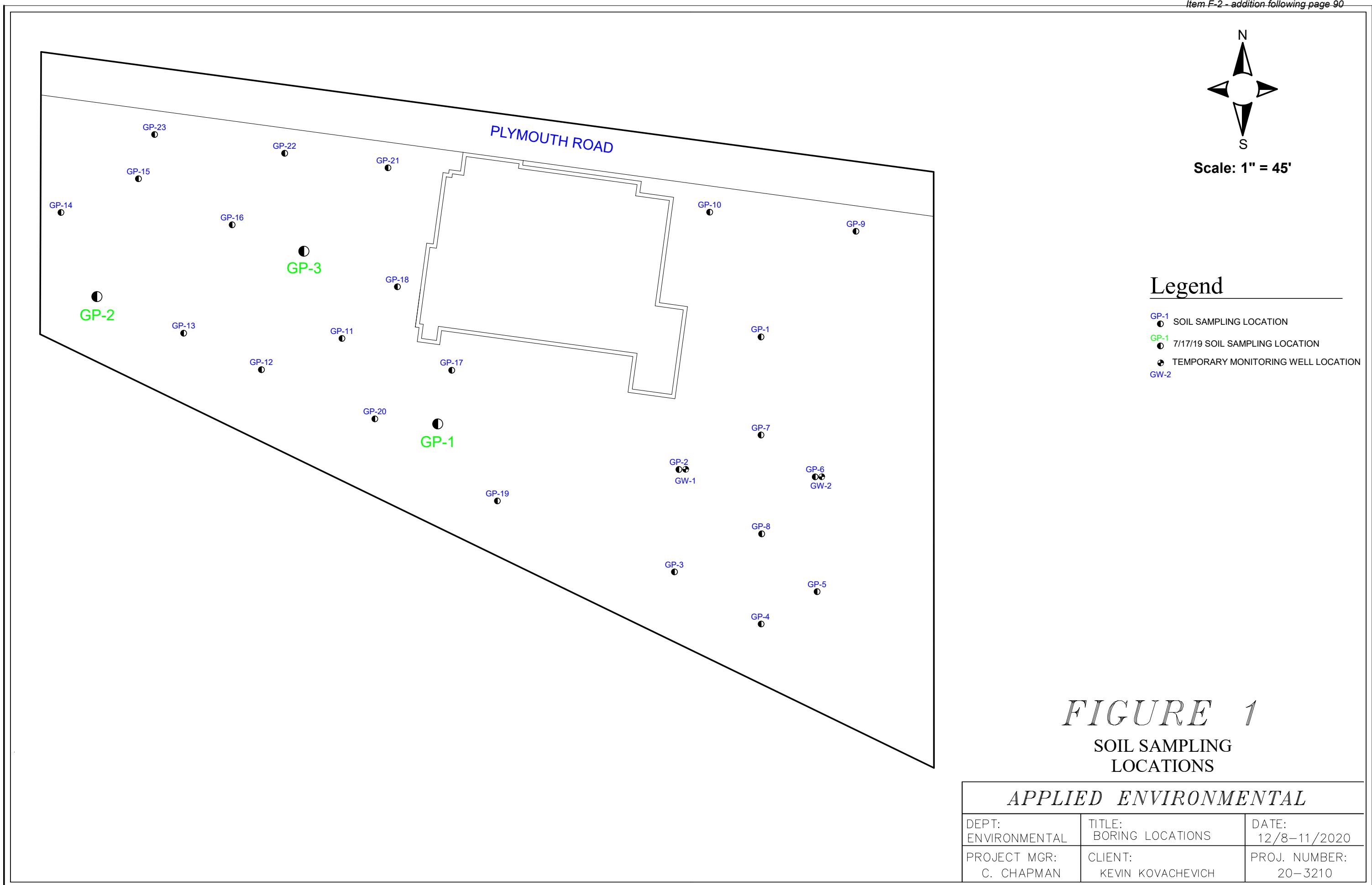
COMMERCIAL PROPERTY  
41661 PLYMOUTH ROAD  
PLYMOUTH, MI 48170

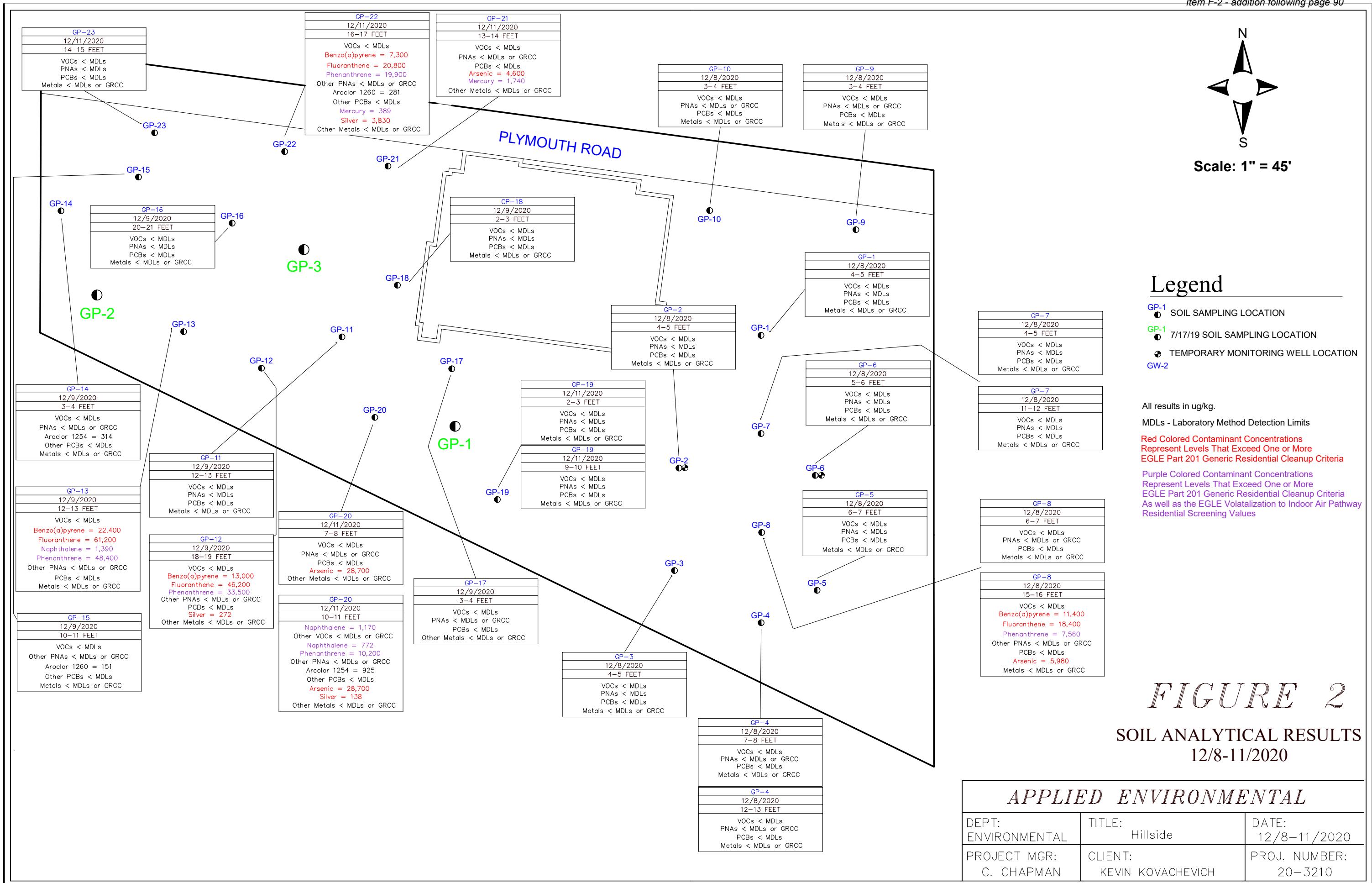


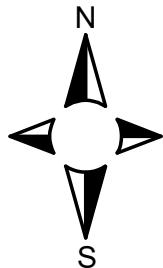
**Applied Environmental**  
1210 North Maple Road  
Ann Arbor, Michigan 48103  
(734) 975-1970



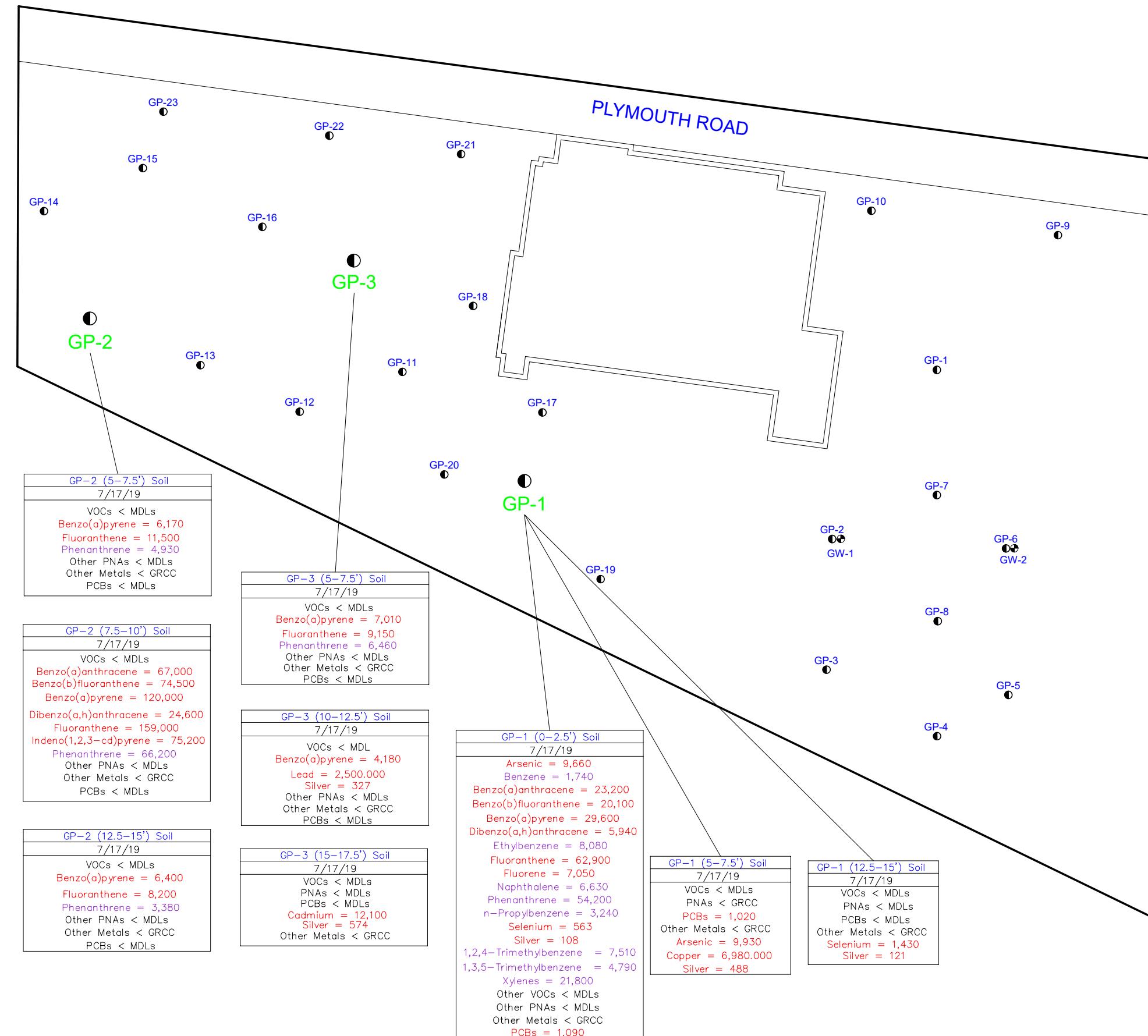
Scale: 1" = 45'







Scale: 1" = 45'



**FIGURE 3**  
**SOIL ANALYTICAL RESULTS**  
**7/17/19**

APPLIED ENVIRONMENTAL		
DEPT: ENVIRONMENTAL	TITLE: BORING LOCATIONS	DATE: 7/17/19
PROJECT MGR: C. CHAPMAN	CLIENT: KEVIN KOVACHEVICH	PROJ. NUMBER: 20-3210



0 20 40  
SCALE: 1" = 40'



CAUTION!!  
THE LOCATIONS AND ELEVATIONS OF  
EXISTING UNDERGROUND UTILITIES AS  
SHOWN ON THIS DRAWING ARE ONLY  
APPROXIMATE. NO GUARANTEE IS EITHER  
EXPRESSED OR IMPLIED AS TO THE  
COMPLETENESS OR ACCURACY THEREOF.  
THE CONTRACTOR SHALL BE EXCLUSIVELY  
RESPONSIBLE FOR DETERMINING THE  
EXACT UTILITY LOCATIONS AND  
ELEVATIONS PRIOR TO THE START OF  
CONSTRUCTION.

CLIENT

**PEAK MANAGEMENT**  
408 SOUTH LAFAYETTE  
SUITE 100  
ROYAL OAK, MI

PROJECT TITLE

**PEAK APARTMENTS**  
PLYMOUTH TWP, MI

REVISIONS

-  
-

ORIGINAL ISSUE DATE:  
JULY 23, 2021

DRAWING TITLE

**CONCEPT**

PEA JOB NO. 2021-0354  
P.M. BK  
DN. BK  
DES. BK  
DRAWING NUMBER:



**SITE DATA TABLE:**

SITE LOCATION: 41661 PLYMOUTH ROAD, PARCEL No. 78-029-99-0002-000

SITE AREA: 3.06 ACRES (133,294 SQ.FT.) NET AND GROSS

ZONING: EXISTING = C-2 (GENERAL COMMERCIAL)  
PROPOSED = PUD (PLANNED UNIT DEVELOPMENT)

PROPOSED USE: 4 STORY RESIDENTIAL BUILDING (30 UNITS PER FLOOR)  
WITH TWO STORY PARKING GARAGE

PROPOSED BUILDING HEIGHT = 6 STORIES

BUILDING FOOTPRINT AREA = 34,250 SF

BUILDING LOT COVERAGE = 25.7%

**SETBACK REQUIREMENTS:**

FRONT SETBACK (NORTH): 10 FEET REQUIRED 11.00' PROVIDED

SIDE SETBACK (EAST): 10 FEET REQUIRED 17.25' PROVIDED

SIDE SETBACK (WEST): 10 FEET REQUIRED 31.5' PROVIDED

REAR SETBACK (SOUTH): 20 FEET REQUIRED 39.5' PROVIDED

**PARKING CALCULATIONS:**

MULTI-FAMILY RESIDENTIAL = 2 SPACES PER UNIT.

TOTAL RESIDENTIAL PARKING REQUIRED = 2 \* 120 UNITS = 240 SPACES

PARKING PROVIDED: 228 SPACES (197 ENCLOSED SPACES, 31 SURFACE SPACES –  
INCLUDING 10 ADA SPACES)

A VARIANCE OF 12 SPACES WILL BE REQUIRED.

**ATTACHMENT 3**

**Analytical data summary tables**



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

		#10	#11	#12	#14	#19	#20		Lab ID	11447-1	11447-2	11447-3	11447-4	11447-5	11447-6	11447-7	11447-9	
Guidesheet Number →	Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels		Sample ID	GP-1	GP-2	GP-3	GP-4 (7-8)	GP-4 (12-13)	GP-5	GP-6	GP-7 (4-5)
*(Refer to detailed laboratory report for method reference data)	Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20										
<b>Metals, ug/Kg</b>																		
Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	7,600	NA			796	1,180	926	1,770	1,260	828	1,720	516	
Barium (B)	7440-39-3	75,000	1.30E+06	(G)	NLV	3.70E+07	NA			108,000	315,000	174,000	113,000	104,000	65,600	57,200	111,000	
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	5.50E+05	NA	*		< 200	< 200	< 200	245	304	< 200	< 200	< 200	
Chromium III	7440-47-3	18,000 (total)	1.00E+09	(G,X)	NLV	7.90E+08	NA			3,440	138,000	4,400	4,720	5,070	3,850	4,050	3,360	
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	2.00E+07	NA			5,280	10,000	8,160	14,700	10,700	5,480	6,960	7,020	
Lead (B)	7439-92-1	21,000	7.00E+05	(G,X)	NLV	4.00E+05	NA	*		6,790	7,340	5,180	16,800	5,000	27,300	16,600	12,800	
Mercury, Total (B, Z)	Varies	130	1,700	50 (M); 1.2	48,000	1.60E+05	NA			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Selenium (B)	7782-49-2	410	4,000	400	NLV	2.60E+06	NA			< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	2.50E+06	NA			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Zinc (B)	7440-66-6	47,000	2.40E+06	(G)	NLV	1.70E+08	NA			18,600	10,000	33,600	5,800	20,600	22,600	19,200	23,000	
<b>Semivolatiles, PNAs, ug/Kg</b>																		
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	4.10E+07	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	1.60E+06	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	2.30E+08	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	20,000	NA			< 330	< 330	< 330	405	564	< 330	< 330	< 330	
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	20,000	NA			< 330	< 330	< 330	< 330	389	< 330	< 330	< 330	
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	2.00E+05	NA			< 330	< 330	< 330	337	677	< 330	< 330	< 330	
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	2.50E+06	NA			< 330	< 330	< 330	449	< 330	< 330	< 330	< 330	
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	2,000	NA			< 330	< 330	< 330	458	< 330	< 330	< 330	< 330	
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	2.00E+06	NA			< 330	< 330	< 330	620	< 330	< 330	< 330	< 330	
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	2,000	NA			< 330	< 330	< 330	1,270	< 330	< 330	< 330	< 330	
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	4.60E+07	NA			< 330	< 330	< 330	< 330	362	< 330	< 330	< 330	
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	2.70E+07	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	20,000	NA			< 330	< 330	< 330	< 330	753	< 330	< 330	< 330	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 330	< 330	< 330	421	1,190	< 330	< 330	< 330	
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+06	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	2.90E+07	NA			< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	
<b>Volatiles, VOCs, ug/Kg</b>																		
Acetone (I)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	2.30E+07	1.10E+08			< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	
Benzene (I)	71-43-2	NA	100	4,000 (X)	1,600	1.80E+05	4.00E+05	240		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11447-1	11447-2	11447-3	11447-4	11447-5	11447-6	11447-7	11447-9
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-1	GP-2	GP-3	GP-4 (7-8)	GP-4 (12-13)	GP-5	GP-6	GP-7 (4-5)
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20
Bromobenzene (I)	108-86-1	NA	550	NA	3.10E+05	5.40E+05	7.60E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform	74-97-5									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	1.10E+05	1.50E+06			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform	75-25-2	NA	1,600 (W)	ID	1.50E+05	8.20E+05	8.70E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromomethane	74-83-9	NA	200	100	860	3.20E+05	2.20E+06			< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I)	78-93-3	NA	2.60E+05	44,000	5.4E+7 (C)	1.2E+8 (C, DD)	2.70E+07			< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide (L,R)	75-15-0	NA	16,000	ID	76,000	7.2E+6 (C, DD)	2.80E+05			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	96,000	3.90E+05	110		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.20E+05	4.3E+6 (C)	2.60E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	2.6E+6 (C)	9.50E+05	3,400		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	1.20E+06	1.50E+06			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	1.6E+6 (C)	1.10E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.70E+05	4.5E+6 (C)	5.00E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
4-Chlorotoluene (I)	106-43-4									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	1.10E+05	6.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2-Dibromo-3-Chloropropane	96-12-8	NA	10 (M); 4.0	ID	220	4,400 (C)	1,200			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibromomethane	74-95-3	NA	1,600	NA	ID	2.5E+6 (C)	2.00E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	1.9E+7 (C)	2.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	2.0E+5 (C)	1.70E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	4.00E+05	NA			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.00E+05	5.2E+7 (C)	1.00E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.30E+05	2.7E+7 (C)	8.90E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	91,000	1.20E+06	120		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	2.00E+05	5.70E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	2.5E+6 (C)	6.40E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	3.8E+6 (C)	1.40E+06	9,400		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	1.40E+05	5.50E+05	180		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropane	142-28-9									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2,2-Dichloropropane	594-20-7									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	10,000	6.20E+05	100 (M); 66		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloropropene	563-58-6									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50



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Hillside Development  
41661 Plymouth Road  
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Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11447-1	11447-2	11447-3	11447-4	11447-5	11447-6	11447-7	11447-9	
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV		Sample ID	GP-1	GP-2	GP-3	GP-4 (7-8)	GP-4 (12-13)	GP-5	GP-6	GP-7 (4-5)
*(Refer to detailed laboratory report for method reference data)										Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	2.2E+7 (C)	1.40E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	20 (M); 1.0	110 (X)	670	92	8.90E+05	20 (M); 3.4		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
Hexachlorobutadiene	87-68-3	NA	26,000	91	1.30E+05	1.00E+05	3.50E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
2-Hexanone	591-78-6	NA	20,000	ID	9.90E+05	3.2E+7 (C)	2.50E+06			< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	2.5E+7 (C)	3.90E+05			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	5.6E+7 (C)	2.70E+06			< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	1.50E+06	5.90E+06	2,000		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	1.30E+06	2.30E+06	940		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Styrene	100-42-5	NA	2,700	2,100 (X)	2.50E+05	4.00E+05	5.20E+05	530		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	6,200	4.8E+5 (C)	4.40E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	4,300	53,000	8.70E+05	64		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	11,000	2.0E+5 (C)	88,000	220		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Tetrahydrofuran	109-99-9	NA	1,900	2.2E+5 (X)	1.30E+06	2.90E+06	1.20E+08	7,000		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	
Toluene (I)	108-88-3	NA	16,000	5,400	3.3E+5 (C)	5.0E+7 (C)	2.50E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,2,3-Trichlorobenzene	87-61-6									< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	9.6E+6 (C)	9.9E+5 (DD)	1.10E+06	4,700		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	2.50E+05	5.0E+8 (C)	4.60E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4,600	1.80E+05	9.20E+05	240		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Trichloroethylene	79-01-6	NA	100	4,000 (X)	1,000	1.1E+5 (DD)	5.00E+05	580		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Trichlorofluoromethane	75-69-4	NA	52,000	NA	2.8E+6 (C)	7.9E+7 (C)	5.60E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,2,3-Trichloropropane	96-18-4	NA	840	NA	4,000	1.3E+6 (C)	8.30E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	4.3E+6 (C)	3.2E+7 (C)	1.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	2.6E+6 (C)	3.2E+7 (C)	94,000			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Vinyl acetate (I)	108-05-4	NA	13,000	NA	7.90E+05	5.8E+6 (C,DD)	2.40E+06			< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	
Vinyl chloride	75-01-4	NA	40	260 (X)	270	3,800	4.90E+05	40 (M); 20		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.1E+8 (C)	1.50E+05			< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	
PCBs, ug/Kg																		
PCB, Aroclor 1016	12674-11-2									< 100	< 100	< 100	< 250	< 250	< 100	< 100	< 100	
PCB, Aroclor 1221	11104-28-2									< 100	< 100	< 100	< 250	< 250	< 100	< 100	< 100	
PCB, Aroclor 1232	11141-16-5									< 100	< 100	< 100	< 250	< 250	< 100	< 100	< 100	



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									Lab ID	11447-1	11447-2	11447-3	11447-4	11447-5	11447-6	11447-7	11447-9
Guidesheet Number →		#10	#11	#12	#14	#19	#20	Sample ID	GP-1	GP-2	GP-3	GP-4 (7-8)	GP-4 (12-13)	GP-5	GP-6	GP-7 (4-5)	
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20
PCB, Aroclor 1242	53469-21-9									< 100	< 100	< 100	< 100	< 250	< 250	< 100	< 100
PCB, Aroclor 1248	12672-29-6									< 100	< 100	< 100	< 100	< 250	< 250	< 100	< 100
PCB, Aroclor 1254	11097-69-1									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PCB, Aroclor 1260	11096-82-5									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	3.00E+06	(T)	NA			< 700	< 700	< 700	< 700	< 1450	< 1450	< 700	< 700

\* Chromium lab results refer to total chromium

\*\*Criteria for detected compounds have been updated to most recent MDEQ revisions

shading indicates criterion has been exceeded

< : chemical not detected above Method Detection Limit (MDL)

NT: sample not tested for this chemical

NA: not applicable or not available

Note: For definitions of abbreviations and letters in ( ), please see footnote at end of tables.



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11447-10	11447-11	11447-12	11447-13	11447-14
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-7 (11-12)	GP-8 (6-7)	GP-8 (15-16)	GP-9	GP-10
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20
<b>Metals, ug/Kg</b>														
Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	7,600	NA			2,470	1,330	5,980	1,270	402
Barium (B)	7440-39-3	75,000	1.30E+06	(G)	NLV	3.70E+07	NA			106,000	67,000	282,000	24,300	28,700
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	5.50E+05	NA	*		340	< 200	739	5,330	< 200
Chromium III	7440-47-3	18,000 (total)	1.00E+09	(G,X)	NLV	7.90E+08	NA			6,930	3,570	22,800	3,300	2,410
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	2.00E+07	NA			7,480	6,320	25,700	9,220	4,680
Lead (B)	7439-92-1	21,000	7.00E+05	(G,X)	NLV	4.00E+05	NA	*		24,200	5,670	66,300	84,400	3,470
Mercury, Total (B, Z)	Varies	130	1,700	50 (M); 1.2	48,000	1.60E+05	NA			< 50	< 50	< 50	< 50	< 50
Selenium (B)	7782-49-2	410	4,000	400	NLV	2.60E+06	NA			< 200	< 200	< 200	< 200	< 200
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	2.50E+06	NA			< 100	< 100	< 100	< 100	< 100
Zinc (B)	7440-66-6	47,000	2.40E+06	(G)	NLV	1.70E+08	NA			58,800	12,400	335,000	1,890,000	13,000
<b>Semivolatiles, PNAs, ug/Kg</b>														
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	4.10E+07	NA			< 330	< 330	< 330	< 330	< 330
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	1.60E+06	NA			< 330	< 330	582	< 330	< 330
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	2.30E+08	NA			< 330	< 330	1,480	< 330	< 330
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	20,000	NA			< 330	1,170	10,900	399	624
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	20,000	NA			< 330	902	7,610	381	739
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	2.00E+05	NA			< 330	1,560	15,900	807	1,520
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	2.50E+06	NA			< 330	1,140	9,220	773	1,330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	2,000	NA			< 330	1,210	11,400	436	935
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	2.00E+06	NA			< 330	1,120	13,500	< 330	645
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	2,000	NA			< 330	400	763	< 330	350
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	4.60E+07	NA			< 330	1,620	18,400	< 330	458
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	2.70E+07	NA			< 330	< 330	628	< 330	< 330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	20,000	NA			< 330	984	7,800	622	1,080
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 330	< 330	< 330	< 330	< 330
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 330	< 330	< 330	< 330	< 330
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+06	NA			< 330	667	7,560	< 330	< 330
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	2.90E+07	NA			< 330	1,630	18,300	< 330	570
<b>Volatiles, VOCs, ug/Kg</b>														
Acetone (I)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	2.30E+07	1.10E+08			< 1000	< 1000	< 1000	< 1000	< 1000
Benzene (I)	71-43-2	NA	100	4,000 (X)	1,600	1.80E+05	4.00E+05	240		< 50	< 50	< 50	< 50	< 50



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

									Lab ID	11447-10	11447-11	11447-12	11447-13	11447-14
Guidesheet Number →	#10	#11	#12	#14	#19	#20		Sample ID	GP-7 (11-12)	GP-8 (6-7)	GP-8 (15-16)	GP-9	GP-10	
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20
*(Refer to detailed laboratory report for method reference data)														
Bromobenzene (I)	108-86-1	NA	550	NA	3.10E+05	5.40E+05	7.60E+05			< 100	< 100	< 100	< 100	< 100
Bromochloromethane	74-97-5									< 100	< 100	< 100	< 100	< 100
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	1.10E+05	1.50E+06			< 100	< 100	< 100	< 100	< 100
Bromoform	75-25-2	NA	1,600 (W)	ID	1.50E+05	8.20E+05	8.70E+05			< 100	< 100	< 100	< 100	< 100
Bromomethane	74-83-9	NA	200	100	860	3.20E+05	2.20E+06			< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I)	78-93-3	NA	2.60E+05	44,000	5.4E+7 (C)	1.2E+8 (C, DD)	2.70E+07			< 750	< 750	< 750	< 750	< 750
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50
Carbon disulfide (I,R)	75-15-0	NA	16,000	ID	76,000	7.2E+6 (C, DD)	2.80E+05			< 250	< 250	< 250	< 250	< 250
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	96,000	3.90E+05	110		< 50	< 50	< 50	< 50	< 50
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.20E+05	4.3E+6 (C)	2.60E+05			< 50	< 50	< 50	< 50	< 50
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	2.6E+6 (C)	9.50E+05	3,400		< 250	< 250	< 250	< 250	< 250
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	1.20E+06	1.50E+06			< 50	< 50	< 50	< 50	< 50
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	1.6E+6 (C)	1.10E+06			< 250	< 250	< 250	< 250	< 250
2-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.70E+05	4.5E+6 (C)	5.00E+05			< 50	< 50	< 50	< 50	< 50
4-Chlorotoluene (I)	106-43-4									< 50	< 50	< 50	< 50	< 50
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	1.10E+05	6.10E+05			< 100	< 100	< 100	< 100	< 100
1,2-Dibromo-3-Chloropropane	96-12-8	NA	10 (M); 4.0	ID	220	4,400 (C)	1,200			< 10	< 10	< 10	< 10	< 10
Dibromomethane	74-95-3	NA	1,600	NA	ID	2.5E+6 (C)	2.00E+06			< 250	< 250	< 250	< 250	< 250
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	1.9E+7 (C)	2.10E+05			< 100	< 100	< 100	< 100	< 100
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	2.0E+5 (C)	1.70E+05			< 100	< 100	< 100	< 100	< 100
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	4.00E+05	NA			< 100	< 100	< 100	< 100	< 100
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.00E+05	5.2E+7 (C)	1.00E+06			< 250	< 250	< 250	< 250	< 250
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.30E+05	2.7E+7 (C)	8.90E+05			< 50	< 50	< 50	< 50	< 50
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	91,000	1.20E+06	120		< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	2.00E+05	5.70E+05			< 50	< 50	< 50	< 50	< 50
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	2.5E+6 (C)	6.40E+05			< 50	< 50	< 50	< 50	< 50
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	3.8E+6 (C)	1.40E+06	9,400		< 50	< 50	< 50	< 50	< 50
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	1.40E+05	5.50E+05	180		< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropane	142-28-9									< 50	< 50	< 50	< 50	< 50
2,2-Dichloropropane	594-20-7									< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	10,000	6.20E+05	100 (M); 66		< 50	< 50	< 50	< 50	< 50
1,1-Dichloropropene	563-58-6									< 50	< 50	< 50	< 50	< 50



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11447-10	11447-11	11447-12	11447-13	11447-14
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-7 (11-12)	GP-8 (6-7)	GP-8 (15-16)	GP-9	GP-10
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	2.2E+7 (C)	1.40E+05			< 50	< 50	< 50	< 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	20 (M); 1.0	110 (X)	670	92	8.90E+05	20 (M); 3.4		< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	26,000	91	1.30E+05	1.00E+05	3.50E+05			< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	20,000	ID	9.90E+05	3.2E+7 (C)	2.50E+06			< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	2.5E+7 (C)	3.90E+05			< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	5.6E+7 (C)	2.70E+06			< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	1.50E+06	5.90E+06	2,000		< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	1.30E+06	2.30E+06	940		< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 250	< 250	< 250	< 250	< 250
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 100	< 100	< 100	< 100	< 100
Styrene	100-42-5	NA	2,700	2,100 (X)	2.50E+05	4.00E+05	5.20E+05	530		< 50	< 50	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	6,200	4.8E+5 (C)	4.40E+05			< 100	< 100	< 100	< 100	< 100
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	4,300	53,000	8.70E+05	64		< 50	< 50	< 50	< 50	< 50
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	11,000	2.0E+5 (C)	88,000	220		< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9	NA	1,900	2.2E+5 (X)	1.30E+06	2.90E+06	1.20E+08	7,000		< 1000	< 1000	< 1000	< 1000	< 1000
Toluene (I)	108-88-3	NA	16,000	5,400	3.3E+5 (C)	5.0E+7 (C)	2.50E+05			< 100	< 100	< 100	< 100	< 100
1,2,3-Trichlorobenzene	87-61-6									< 250	< 250	< 250	< 250	< 250
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	9.6E+6 (C)	9.9E+5 (DD)	1.10E+06	4,700		< 250	< 250	< 250	< 250	< 250
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	2.50E+05	5.0E+8 (C)	4.60E+05			< 50	< 50	< 50	< 50	< 50
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4,600	1.80E+05	9.20E+05	240		< 50	< 50	< 50	< 50	< 50
Trichloroethylene	79-01-6	NA	100	4,000 (X)	1,000	1.1E+5 (DD)	5.00E+05	580		< 50	< 50	< 50	< 50	< 50
Trichlorofluoromethane	75-69-4	NA	52,000	NA	2.8E+6 (C)	7.9E+7 (C)	5.60E+05			< 100	< 100	< 100	< 100	< 100
1,2,3-Trichloropropane	96-18-4	NA	840	NA	4,000	1.3E+6 (C)	8.30E+05			< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	4.3E+6 (C)	3.2E+7 (C)	1.10E+05			< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	2.6E+6 (C)	3.2E+7 (C)	94,000			< 100	< 100	< 100	< 100	< 100
Vinyl acetate (I)	108-05-4	NA	13,000	NA	7.90E+05	5.8E+6 (C,DD)	2.40E+06			< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride	75-01-4	NA	40	260 (X)	270	3,800	4.90E+05	40 (M); 20		< 40	< 40	< 40	< 40	< 40
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.1E+8 (C)	1.50E+05			< 150	< 150	< 150	< 150	< 150
<b>PCBs, ug/Kg</b>														
PCB, Aroclor 1016	12674-11-2									< 100	< 100	< 250	< 100	< 100
PCB, Aroclor 1221	11104-28-2									< 100	< 100	< 250	< 100	< 100
PCB, Aroclor 1232	11141-16-5									< 100	< 100	< 250	< 100	< 100



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11447-10	11447-11	11447-12	11447-13	11447-14
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-7 (11-12)	GP-8 (6-7)	GP-8 (15-16)	GP-9	GP-10
									Collection Date	12/8/20	12/8/20	12/8/20	12/8/20	12/8/20
*(Refer to detailed laboratory report for method reference data)														
PCB, Aroclor 1242	53469-21-9									< 100	< 100	< 250	< 100	< 100
PCB, Aroclor 1248	12672-29-6									< 100	< 100	< 250	< 100	< 100
PCB, Aroclor 1254	11097-69-1									< 100	< 100	< 100	< 100	< 100
PCB, Aroclor 1260	11096-82-5									< 100	< 100	< 100	< 100	< 100
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	3.00E+06	(T)	NA			< 700	< 700	< 1450	< 700	< 700

\* Chromium lab results refer to total chromium

\*\*Criteria for detected compounds have been updated to most recent MDEQ revisions

shading indicates criterion has been exceeded

< : chemical not detected above Method Detection Limit (MDL)

NT: sample not tested for this chemical

NA: not applicable or not available

Note: For definitions of abbreviations and letters in ( ), please see footnote at end of tables.



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan

		#10	#11	#12	#14	#19	#20		Lab ID	11449-1	11449-2	11449-3	11449-4	11449-5	11449-7	11449-8	11449-10	
Guidesheet Number →	Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels		Sample ID	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18
*(Refer to detailed laboratory report for method reference data)	Collection Date									12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	
<b>Metals, ug/Kg</b>																		
Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	7,600	NA			684	1,500	902	1,020	1,420	1,120	1,150	1,700	
Barium (B)	7440-39-3	75,000	1.30E+06	(G)	NLV	3.70E+07	NA			99,500	123,000	81,400	72,200	153,000	123,000	48,800	86,100	
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	5.50E+05	NA	*		320	358	< 200	< 200	< 200	442	473	< 200	
Chromium III	7440-47-3	18,000 (total)	1.00E+09	(G,X)	NLV	7.90E+08	NA			4,470	14,400	5,340	4,150	21,500	9,070	8,630	7,770	
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	2.00E+07	NA			30,400	45,300	5,180	5,160	11,200	289,000	17,000	6,260	
Lead (B)	7439-92-1	21,000	7.00E+05	(G,X)	NLV	4.00E+05	NA	*		58,000	22,300	9,820	18,300	14,300	5,040	68,700	19,900	
Mercury, Total (B, Z)	Varies	130	1,700	50 (M); 1.2	48,000	1.60E+05	NA			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Selenium (B)	7782-49-2	410	4,000	400	NLV	2.60E+06	NA			< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	2.50E+06	NA			< 100	272	< 100	< 100	< 100	< 100	< 100	< 100	
Zinc (B)	7440-66-6	47,000	2.40E+06	(G)	NLV	1.70E+08	NA			60,600	45,400	13,000	13,800	21,200	77,400	41,000	35,800	
<b>Semivolatiles, PNAs, ug/Kg</b>																		
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	4.10E+07	NA			< 330	1,870	3,770	< 330	< 330	< 330	< 330	< 330	
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	1.60E+06	NA			< 330	< 330	374	< 330	< 330	< 330	< 330	< 330	
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	2.30E+08	NA			< 330	7,250	10,800	< 330	< 330	< 330	< 330	< 330	
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	20,000	NA			< 330	16,300	23,900	519	633	< 330	841	< 330	
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	20,000	NA			< 330	9,330	14,100	< 330	< 330	< 330	606	< 330	
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	2.00E+05	NA			< 330	18,500	33,200	597	815	< 330	1,040	< 330	
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	2.50E+06	NA			< 330	9,130	17,400	747	458	< 330	716	< 330	
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	2,000	NA			< 330	13,000	22,400	483	435	< 330	668	< 330	
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	2.00E+06	NA			< 330	18,300	26,200	513	747	< 330	782	< 330	
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	2,000	NA			< 330	534	1,120	< 330	< 330	< 330	< 330	< 330	
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	4.60E+07	NA			< 330	46,200	61,200	1,030	1,640	< 330	1,170	< 330	
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	2.70E+07	NA			< 330	2,790	5,270	< 330	< 330	< 330	< 330	< 330	
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	20,000	NA			< 330	8,130	14,700	444	346	< 330	614	< 330	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 330	< 330	1,000	< 330	< 330	< 330	< 330	< 330	
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 330	380	1,390	< 330	< 330	< 330	< 330	< 330	
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+06	NA			< 330	33,500	48,400	885	1,190	< 330	412	< 330	
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	2.90E+07	NA			< 330	39,400	54,300	1,020	1,690	< 330	1,440	< 330	
<b>Volatiles, VOCs, ug/Kg</b>																		
Acetone (I)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	2.30E+07	1.10E+08			< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	
Benzene (I)	71-43-2	NA	100	4,000 (X)	1,600	1.80E+05	4.00E+05	240		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan

		#10	#11	#12	#14	#19	#20		Lab ID	11449-1	11449-2	11449-3	11449-4	11449-5	11449-7	11449-8	11449-10	
Guidesheet Number →	Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18
*(Refer to detailed laboratory report for method reference data)										Collection Date	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20
Bromobenzene (I)	108-86-1	NA	550	NA	3.10E+05	5.40E+05	7.60E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromoform	74-97-5									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	1.10E+05	1.50E+06			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromoform	75-25-2	NA	1,600 (W)	ID	1.50E+05	8.20E+05	8.70E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromomethane	74-83-9	NA	200	100	860	3.20E+05	2.20E+06			< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	
2-Butanone (MEK) (I)	78-93-3	NA	2.60E+05	44,000	5.4E+7 (C)	1.2E+8 (C, DD)	2.70E+07			< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Carbon disulfide (L,R)	75-15-0	NA	16,000	ID	76,000	7.2E+6 (C, DD)	2.80E+05			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	96,000	3.90E+05	110		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.20E+05	4.3E+6 (C)	2.60E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	2.6E+6 (C)	9.50E+05	3,400		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	1.20E+06	1.50E+06			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	1.6E+6 (C)	1.10E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
2-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.70E+05	4.5E+6 (C)	5.00E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
4-Chlorotoluene (I)	106-43-4									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	1.10E+05	6.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,2-Dibromo-3-Chloropropane	96-12-8	NA	10 (M); 4.0	ID	220	4,400 (C)	1,200			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Dibromomethane	74-95-3	NA	1,600	NA	ID	2.5E+6 (C)	2.00E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	1.9E+7 (C)	2.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	2.0E+5 (C)	1.70E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	4.00E+05	NA			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.00E+05	5.2E+7 (C)	1.00E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.30E+05	2.7E+7 (C)	8.90E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	91,000	1.20E+06	120		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	2.00E+05	5.70E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	2.5E+6 (C)	6.40E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	3.8E+6 (C)	1.40E+06	9,400		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	1.40E+05	5.50E+05	180		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,3-Dichloropropane	142-28-9									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
2,2-Dichloropropane	594-20-7									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	10,000	6.20E+05	100 (M); 66		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,1-Dichloropropene	563-58-6									< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	



Table 1  
Soil Analytical Results  
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41661 Plymouth Road  
Plymouth, Michigan

Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11449-1	11449-2	11449-3	11449-4	11449-5	11449-7	11449-8	11449-10
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	2.2E+7 (C)	1.40E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	20 (M); 1.0	110 (X)	670	92	8.90E+05	20 (M); 3.4		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	26,000	91	1.30E+05	1.00E+05	3.50E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	20,000	ID	9.90E+05	3.2E+7 (C)	2.50E+06			< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	2.5E+7 (C)	3.90E+05			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	5.6E+7 (C)	2.70E+06			< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	1.50E+06	5.90E+06	2,000		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	1.30E+06	2.30E+06	940		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Styrene	100-42-5	NA	2,700	2,100 (X)	2.50E+05	4.00E+05	5.20E+05	530		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	6,200	4.8E+5 (C)	4.40E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	4,300	53,000	8.70E+05	64		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	11,000	2.0E+5 (C)	88,000	220		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9	NA	1,900	2.2E+5 (X)	1.30E+06	2.90E+06	1.20E+08	7,000		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Toluene (I)	108-88-3	NA	16,000	5,400	3.3E+5 (C)	5.0E+7 (C)	2.50E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichlorobenzene	87-61-6									< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	9.6E+6 (C)	9.9E+5 (DD)	1.10E+06	4,700		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	2.50E+05	5.0E+8 (C)	4.60E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4,600	1.80E+05	9.20E+05	240		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichloroethylene	79-01-6	NA	100	4,000 (X)	1,000	1.1E+5 (DD)	5.00E+05	580		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichlorofluoromethane	75-69-4	NA	52,000	NA	2.8E+6 (C)	7.9E+7 (C)	5.60E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichloropropane	96-18-4	NA	840	NA	4,000	1.3E+6 (C)	8.30E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	4.3E+6 (C)	3.2E+7 (C)	1.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	2.6E+6 (C)	3.2E+7 (C)	94,000			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate (I)	108-05-4	NA	13,000	NA	7.90E+05	5.8E+6 (C,DD)	2.40E+06			< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride	75-01-4	NA	40	260 (X)	270	3,800	4.90E+05	40 (M); 20		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.1E+8 (C)	1.50E+05			< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
<b>PCBs, ug/Kg</b>																	
PCB, Aroclor 1016	12674-11-2									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PCB, Aroclor 1221	11104-28-2									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PCB, Aroclor 1232	11141-16-5									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan

									Lab ID	11449-1	11449-2	11449-3	11449-4	11449-5	11449-7	11449-8	11449-10
Guidesheet Number →	#10	#11	#12	#14	#19	#20		Sample ID	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18	
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Protection Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Collection Date	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20
*(Refer to detailed laboratory report for method reference data)																	
PCB, Aroclor 1242	53469-21-9									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PCB, Aroclor 1248	12672-29-6									< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PCB, Aroclor 1254	11097-69-1									< 100	< 100	< 100	<b>314</b>	< 100	< 100	< 100	< 100
PCB, Aroclor 1260	11096-82-5									< 100	< 100	< 100	< 100	<b>151</b>	< 100	< 100	< 100
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	3.00E+06	(T)	NA			< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700

\* Chromium lab results refer to total chromium

\*\*Criteria for detected compounds have been updated to most recent MDEQ revisions

shading indicates criterion has been exceeded

< : chemical not detected above Method Detection Limit (MDL)

NT: sample not tested for this chemical

NA: not applicable or not available

Note: For definitions of abbreviations and letters in ( ), please see footnote at end of tables.



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

		#10	#11	#12	#14	#19	#20		Lab ID	11452-2	11452-3	11452-4	11452-5	11452-6	11452-7	11452-8	
Guidesheet Number →	Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-19 (2 - 3)	GP-19 (9 - 10)	GP-20 (7 - 8)	GP-20 (10 - 11)	GP-21 (13 - 14)	GP-22 (16 - 17)	GP-23 (14 - 15)
Collection Date										12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	
*(Refer to detailed laboratory report for method reference data)																	
<b>Metals, ug/Kg</b>																	
Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	7,600	NA			1,500	566	2,360	28,700	4,600	2,340	964	
Barium (B)	7440-39-3	75,000	1.30E+06	(G)	NLV	3.70E+07	NA			157,000	85,700	193,000	108,000	932,000	339,000	114,000	
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	5.50E+05	NA	*		< 200	< 200	205	< 200	1,590	630	< 200	
Chromium III	7440-47-3	18,000 (total)	1.00E+09	(G,X)	NLV	7.90E+08	NA			18,800	4,410	34,600	628,000	56,100	18,900	3,230	
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	2.00E+07	NA			85,500	18,300	93,500	2,400,000	196,000	64,600	8,640	
Lead (B)	7439-92-1	21,000	7.00E+05	(G,X)	NLV	4.00E+05	NA	*		21,200	7,990	10,900	75,700	296,000	47,600	17,600	
Mercury, Total (B, Z)	Varies	130	1,700	50 (M); 1.2	48,000	1.60E+05	NA			< 50	< 50	< 50	1,740	389	< 50		
Selenium (B)	7782-49-2	410	4,000	400	NLV	2.60E+06	NA			< 200	< 200	< 200	< 200	< 200	< 200		
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	2.50E+06	NA			< 100	< 100	< 100	138	< 100	3,830	< 100	
Zinc (B)	7440-66-6	47,000	2.40E+06	(G)	NLV	1.70E+08	NA			23,800	8,400	20,000	208,000	783,000	83,800	15,200	
<b>Semivolatiles, PNAs, ug/Kg</b>																	
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	4.10E+07	NA			< 330	< 330	< 330	1,120	< 330	1,310	< 330	
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	1.60E+06	NA			< 330	< 330	< 330	< 330	< 330	< 330		
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	2.30E+08	NA			< 330	< 330	< 330	1,400	< 330	4,640	< 330	
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	20,000	NA			< 330	< 330	< 330	959	814	8,620	< 330	
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	20,000	NA			< 330	< 330	< 330	< 330	610	5,240	< 330	
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	2.00E+05	NA			< 330	< 330	361	513	1,110	9,380	< 330	
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	2.50E+06	NA			< 330	< 330	418	< 330	584	4,690	< 330	
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	2,000	NA			< 330	< 330	< 330	647	7,300	< 330		
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	2.00E+06	NA			< 330	< 330	< 330	1,580	892	8,950	< 330	
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	2,000	NA			< 330	< 330	< 330	< 330	1,330	< 330		
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	4.60E+07	NA			< 330	< 330	< 330	2,470	1,960	20,800	< 330	
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	2.70E+07	NA			< 330	< 330	< 330	2,700	< 330	2,580	< 330	
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	20,000	NA			< 330	< 330	< 330	< 330	524	4,110	< 330	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 330	< 330	< 330	1,660	< 330	< 330	< 330	
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 330	< 330	772	< 330	< 330	< 330		
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+06	NA			< 330	< 330	< 330	10,200	1,190	19,900	< 330	
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	2.90E+07	NA			< 330	< 330	2,820	2,020	20,000	< 330		
<b>Volatiles, VOCs, ug/Kg</b>																	
Acetone (l)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	2.30E+07	1.10E+08			< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	
Benzene (l)	71-43-2	NA	100	4,000 (X)	1,600	1.80E+05	4.00E+05	240		< 50	< 50	< 50	< 50	< 50	< 50	< 50	



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

		#10	#11	#12	#14	#19	#20		Lab ID	11452-2	11452-3	11452-4	11452-5	11452-6	11452-7	11452-8	
Guidesheet Number →	Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Sample ID	GP-19 (2 - 3)	GP-19 (9 - 10)	GP-20 (7 - 8)	GP-20 (10 - 11)	GP-21 (13 - 14)	GP-22 (16 - 17)	GP-23 (14 - 15)
Collection Date										12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	
*(Refer to detailed laboratory report for method reference data)																	
Bromobenzene (I)	108-86-1	NA	550	NA	3.10E+05	5.40E+05	7.60E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromoform	74-97-5									< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	1.10E+05	1.50E+06			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromomethane	75-25-2	NA	1,600 (W)	ID	1.50E+05	8.20E+05	8.70E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Bromobenzene	74-83-9	NA	200	100	860	3.20E+05	2.20E+06			< 200	< 200	< 200	< 200	< 200	< 200	< 200	
2-Butanone (MEK) (I)	78-93-3	NA	2.60E+05	44,000	5.4E+7 (C)	1.2E+8 (C, DD)	2.70E+07			< 750	< 750	< 750	< 750	< 750	< 750	< 750	
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	103	< 50	< 50	< 50	
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Carbon disulfide (I,R)	75-15-0	NA	16,000	ID	76,000	7.2E+6 (C, DD)	2.80E+05			< 250	< 250	< 250	< 250	< 250	< 250	< 250	
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	96,000	3.90E+05	110		< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.20E+05	4.3E+6 (C)	2.60E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	2.6E+6 (C)	9.50E+05	3,400		< 250	< 250	< 250	< 250	< 250	< 250	< 250	
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	1.20E+06	1.50E+06			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	1.6E+6 (C)	1.10E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	
2-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.70E+05	4.5E+6 (C)	5.00E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
4-Chlorotoluene (I)	106-43-4									< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	1.10E+05	6.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,2-Dibromo-3-Chloropropane	96-12-8	NA	10 (M); 4.0	ID	220	4,400 (C)	1,200			< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Dibromomethane	74-95-3	NA	1,600	NA	ID	2.5E+6 (C)	2.00E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	1.9E+7 (C)	2.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	2.0E+5 (C)	1.70E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	4.00E+05	NA			< 100	< 100	< 100	< 100	< 100	< 100	< 100	
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.00E+05	5.2E+7 (C)	1.00E+06			< 250	< 250	< 250	< 250	< 250	< 250	< 250	
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.30E+05	2.7E+7 (C)	8.90E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	91,000	1.20E+06	120		< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	2.00E+05	5.70E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	2.5E+6 (C)	6.40E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	3.8E+6 (C)	1.40E+06	9,400		< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	1.40E+05	5.50E+05	180		< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,3-Dichloropropane	142-28-9									< 50	< 50	< 50	< 50	< 50	< 50	< 50	
2,2-Dichloropropane	594-20-7									< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	10,000	6.20E+05	100 (M); 66		< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,1-Dichloropropene	563-58-6									< 50	< 50	< 50	< 50	< 50	< 50	< 50	



Table 1  
Soil Analytical Results  
Hillside Development  
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Plymouth, Michigan 48170

Guidesheet Number →		#10	#11	#12	#14	#19	#20		Lab ID	11452-2	11452-3	11452-4	11452-5	11452-6	11452-7	11452-8
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV		Sample ID	GP-19 (2 - 3)	GP-19 (9 - 10)	GP-20 (7 - 8)	GP-20 (10 - 11)	GP-21 (13 - 14)	GP-22 (16 - 17)
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	2.2E+7 (C)	1.40E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	20 (M); 1.0	110 (X)	670	92	8.90E+05	20 (M); 3.4		< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	26,000	91	1.30E+05	1.00E+05	3.50E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	20,000	ID	9.90E+05	3.2E+7 (C)	2.50E+06			< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	2.5E+7 (C)	3.90E+05			< 250	< 250	< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	5.6E+7 (C)	2.70E+06			< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	1.50E+06	5.90E+06	2,000		< 250	< 250	< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	1.30E+06	2.30E+06	940		< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	8.10E+06	NA			< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	1.60E+07	NA			< 250	< 250	1,960	< 250	< 250	< 250	< 250
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	ID	2.50E+06	1.00E+07			< 100	< 100	< 100	< 100	< 100	< 100	< 100
Styrene	100-42-5	NA	2,700	2,100 (X)	2.50E+05	4.00E+05	5.20E+05	530		< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	6,200	4.8E+5 (C)	4.40E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	4,300	53,000	8.70E+05	64		< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	11,000	2.0E+5 (C)	88,000	220		< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9	NA	1,900	2.2E+5 (X)	1.30E+06	2.90E+06	1.20E+08	7,000		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Toluene (I)	108-88-3	NA	16,000	5,400	3.3E+5 (C)	5.0E+7 (C)	2.50E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichlorobenzene	87-61-6									< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	9.6E+6 (C)	9.9E+5 (DD)	1.10E+06	4,700		< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	2.50E+05	5.0E+8 (C)	4.60E+05			< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4,600	1.80E+05	9.20E+05	240		< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichloroethylene	79-01-6	NA	100	4,000 (X)	1,000	1.1E+5 (DD)	5.00E+05	580		< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichlorofluoromethane	75-69-4	NA	52,000	NA	2.8E+6 (C)	7.9E+7 (C)	5.60E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichloropropane	96-18-4	NA	840	NA	4,000	1.3E+6 (C)	8.30E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	4.3E+6 (C)	3.2E+7 (C)	1.10E+05			< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	2.6E+6 (C)	3.2E+7 (C)	94,000			< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate (I)	108-05-4	NA	13,000	NA	7.90E+05	5.8E+6 (C,DD)	2.40E+06			< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride	75-01-4	NA	40	260 (X)	270	3,800	4.90E+05	40 (M); 20		< 40	< 40	< 40	< 40	< 40	< 40	< 40
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.1E+8 (C)	1.50E+05			< 150	< 150	< 150	< 150	< 150	< 150	< 150
<b>PCBs, ug/Kg</b>																
PCB, Aroclor 1016	12674-11-2									< 100	< 100	< 500	< 100	< 500	< 2500	< 100
PCB, Aroclor 1221	11104-28-2									< 100	< 100	< 500	< 100	< 2500	< 100	
PCB, Aroclor 1232	11141-16-5									< 100	< 100	< 500	< 100	< 2500	< 100	



Table 1  
Soil Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

									Lab ID	11452-2	11452-3	11452-4	11452-5	11452-6	11452-7	11452-8
Guidesheet Number →	#10	#11	#12	#14	#19	#20		Sample ID	GP-19 (2 - 3)	GP-19 (9 - 10)	GP-20 (7 - 8)	GP-20 (10 - 11)	GP-21 (13 - 14)	GP-22 (16 - 17)	GP-23 (14 - 15)	
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Direct Contact Criteria & RBSLs	Soil Saturation Concentration Screening Levels	Soil GSI Protection Criteria for HDV	Collection Date	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
*(Refer to detailed laboratory report for method reference data)																
PCB, Aroclor 1242	53469-21-9								< 100	< 100	< 500	< 100	< 500	< 2500	< 100	
PCB, Aroclor 1248	12672-29-6								< 100	< 100	< 500	< 100	< 500	< 2500	< 100	
PCB, Aroclor 1254	11097-69-1								< 100	< 100	< 100	<b>925</b>	< 100	< 100	< 100	
PCB, Aroclor 1260	11096-82-5								< 100	< 100	< 100	< 100	< 100	<b>281</b>	< 100	
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	3.00E+06	(T)	NA		< 700	< 700	< 2700	<b>925</b>	< 2700	< 12700	< 700	

\* Chromium lab results refer to total chromium

\*\*Criteria for detected compounds have been updated to most recent MDEQ revisions

shading indicates criterion has been exceeded

< : chemical not detected above Method Detection Limit (MDL)

NT: sample not tested for this chemical

NA: not applicable or not available

Note: For definitions of abbreviations and letters in ( ), please see footnote at end of tables.



Table 2  
Groundwater Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

Guidesheet Number →	#1	#3	#4	#7	#8	#31	#33	Lab ID	11452-1	11447-8	
Parameters*	Chemical Abstract Service Number	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Residential Health-Based Drinking Water Value (footnote E)	Surface Water Human Drinking Water Values (HDV)	Sample Location	GW-1 (16 - 18)	GW-2
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/11/20	12/8/20
<b>Metals, ug/L</b>											
Arsenic	7440-38-2	10 (A)	10	NLV	NA	ID		50		< 5	< 5
Barium (B)	7440-39-3	2,000 (A)	(G)	NLV	NA	ID		1,900 CALC		<b>727</b>	<b>381</b>
Cadmium (B)	7440-43-9	5.0 (A)	(G,X)	NLV	NA	ID		2.5*		< 1	< 1
Chromium, Total (Cr VI criteria)	7440-47-3	100 (A)	11	NLV	NA	ID				< 5	< 5
Copper (B)	7440-50-8	1,000 (E)	(G)	NLV	NA	ID	1,400			< 4	< 4
Lead (B)	7439-92-1	4.0 (L)	(G,X)	NLV	NA	ID		14*		< 3	< 3
Mercury, Total (B, Z)	Varies	2.0 (A)	0.0013	56 (S)	56	ID				< 0.2	< 0.2
Selenium (B)	7782-49-2	50 (A)	5.0	NLV	NA	ID				< 5	< 5
Silver (B)	7440-22-4	34	0.2 (M); 0.06	NLV	NA	ID				< 0.2	< 0.2
Zinc (B)	7440-66-6	2,400	(G)	NLV	NA	ID				< 50	< 50
<b>Semivolatiles, PNAs, ug/L</b>											
Acenaphthene	83-32-9	1,300	38	4,200 (S)	4,240	ID				< 5	< 5
Acenaphthylene	208-96-8	52	ID	3,900 (S)	3,930	ID				< 5	< 5
Anthracene	120-12-7	43 (S)	ID	43 (S)	43.4	ID				< 5	< 5
Benzo(a)anthracene (Q)	56-55-3	2.1	ID	NLV	9.4	ID				< 1	< 1
Benzo(b)fluoranthene (Q)	205-99-2	1.5 (S,AA)	ID	ID	1.5	ID				< 1	< 1
Benzo(k)fluoranthene (Q)	207-08-9	1.0 (M); 0.8 (S)	NA	NLV	0.8	ID				< 1	< 1
Benzo(g,h,i)perylene	191-24-2	1.0 (M); 0.26 (S)	ID	NLV	0.26	ID				< 1	< 1
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	ID	NLV	1.62	ID				< 1	< 1
Chrysene (Q)	218-01-9	1.6 (S)	ID	ID	1.6	ID				< 1	< 1
Dibeno(a,h)anthracene (Q)	53-70-3	2.0 (M); 0.21	ID	NLV	2.49	ID				< 2	< 2
Fluoranthene	206-44-0	210 (S)	1.6	210 (S)	206	ID				< 1	< 1
Fluorene	86-73-7	880	12	2,000 (S)	1,980	ID				< 5	< 5
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	2.0 (M); 0.022 (S)	ID	NLV	0.022	ID				< 2	< 2
2-Methylnaphthalene	91-57-6	260	19	25,000 (S)	24,600	ID				< 5	< 5
Naphthalene	91-20-3	520	11	31,000 (S)	31,000	NA				< 5	< 5
Phenanthrene	85-01-8	52	2.0 (M); 1.7	1,000 (S)	1,000	ID				< 2	< 2
Pyrene	129-00-0	140 (S)	ID	140 (S)	135	ID				< 5	< 5
<b>Volatiles, VOCs, ug/L</b>											
Acetone (I)	67-64-1	730	1,700	1.0E+9 (D,S)	1.00E+09	1.50E+07				< 50	< 50
Benzene (I)	71-43-2	5.0 (A)	200 (X)	5,600	1.75E+06	68,000		12		< 1	< 1
Bromobenzene (I)	108-86-1	18	NA	1.80E+05	4.13E+05	ID				< 1	< 1



Table 2  
Groundwater Analytical Results  
Hillside Development  
41661 Plymouth Road  
Plymouth, Michigan 48170

Guidesheet Number →	#1	#3	#4	#7	#8	#31	#33	Lab ID	11452-1	11447-8	
Parameters*	Chemical Abstract Service Number	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Residential Health-Based Drinking Water Value (footnote E)	Surface Water Human Drinking Water Values (HDV)	Sample Location	GW-1 (16 - 18)	GW-2
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/11/20	12/8/20
Bromochloromethane	74-97-5									< 1	< 1
Bromodichloromethane	75-27-4	80 (A,W)	ID	4,800	6.74E+06	ID				< 1	< 1
Bromoform	75-25-2	80 (A,W)	ID	4.70E+05	3.10E+06	ID				< 1	< 1
Bromomethane	74-83-9	10	5.0 (M); 4.2	4,000	1.45E+07	ID				< 5	< 5
2-Butanone (MEK) (I)	78-93-3	13,000	2,200	2.4E+8 (S)	2.40E+08	ID				< 25	< 25
n-Butylbenzene	104-51-8	80	ID	ID	NA	ID				< 1	< 1
sec-Butylbenzene	135-98-8	80	ID	ID	NA	ID				< 1	< 1
tert-Butylbenzene (I)	98-06-6	80	ID	ID	NA	ID				< 1	< 1
Carbon disulfide (I,R)	75-15-0	800	ID	2.50E+05	1.19E+06	13,000				< 5	< 5
Carbon tetrachloride	56-23-5	5.0 (A)	38 (X)	370	7.93E+05	ID		5.6		< 1	< 1
Chlorobenzene (I)	108-90-7	100 (A)	25	2.10E+05	4.72E+05	1.60E+05				< 1	< 1
Chloroethane	75-00-3	430	1,100 (X)	5.7E+6 (S)	5.74E+06	1.10E+05		170		< 5	< 5
Chloroform	67-66-3	80 (A,W)	350	28,000	7.92E+06	ID		77		< 1	< 1
Chloromethane (I)	74-87-3	260	ID	8,600	6.34E+06	36,000				< 5	< 5
2-Chlorotoluene (I)	95-49-8	150	ID	2.20E+05	3.73E+05	ID				< 5	< 5
4-Chlorotoluene (I)	106-43-4									< 5	< 5
Dibromochloromethane	124-48-1	80 (A,W)	ID	14,000	2.60E+06	ID				< 5	< 5
1,2-Dibromo-3-Chloropropane	96-12-8	0.2 (A)	ID	220	1,230	NA				< 0.2	< 0.2
Dibromomethane	74-95-3	80	NA	ID	1.10E+07	ID				< 5	< 5
1,2-Dichlorobenzene	95-50-1	600 (A)	13	1.6E+5 (S)	1.56E+05	NA				< 1	< 1
1,3-Dichlorobenzene	541-73-1	6.6	28	18,000	1.11E+05	ID				< 1	< 1
1,4-Dichlorobenzene	106-46-7	75 (A)	17	16,000	73,800	NA				< 1	< 1
Dichlorodifluoromethane	75-71-8	1,700	ID	2.20E+05	3.00E+05	ID				< 5	< 5
1,1-Dichloroethane	75-34-3	880	740	1.00E+06	5.06E+06	3.80E+05				< 1	< 1
1,2-Dichloroethane (I)	107-06-2	5.0 (A)	360 (X)	9,600	8.52E+06	2.50E+06		6.0		< 1	< 1
1,1-Dichloroethylene (I)	75-35-4	7.0 (A)	130	200	2.25E+06	97,000		24		< 1	< 1
cis-1,2-Dichloroethylene	156-59-2	70 (A)	620	93,000	3.50E+06	5.30E+05				< 1	< 1
trans-1,2-Dichloroethylene	156-60-5	100 (A)	1,500 (X)	85,000	6.30E+06	2.30E+05		470		< 1	< 1
1,2-Dichloropropane (I)	78-87-5	5.0 (A)	230 (X)	16,000	2.80E+06	5.50E+05		9.1		< 1	< 1
1,3-Dichloropropane	142-28-9									< 1	< 1
2,2-Dichloropropane	594-20-7									< 1	< 1
1,3-Dichloropropene	542-75-6	8.5	9.0 (X)	3,900	2.80E+06	1.30E+05		3.3		< 1	< 1
1,1-Dichloropropene	563-58-6									< 1	< 1
Ethylbenzene (I)	100-41-4	74 (E)	18	1.10E+05	1.69E+05	43,000	700			< 1	< 1
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.05 (A)	5.7 (X)	2,400	4.20E+06	ID	0.17			< 0.2	< 0.2



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Parameters*	Chemical Abstract Service Number	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Residential Health-Based Drinking Water Value (footnote E)	Surface Water Human Drinking Water Values (HDV)	Sample Location	GW-1 (16 - 18)	GW-2
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/11/20	12/8/20
Hexachlorobutadiene	87-68-3	15	0.053	1,600	3,230	ID				< 0.2	< 0.2
2-Hexanone	591-78-6	1,000	ID	4.20E+06	1.60E+07	NA				< 50	< 50
Isopropyl benzene	98-82-8	800	28	56,000 (S)	56,000	29,000				< 5	< 5
4-Methyl-2-pentanone (MIBK) (l)	108-10-1	1,800	ID	2.0E+7 (S)	2.00E+07	ID				< 50	< 50
Methyl-tert-butyl ether (MTBE)	1634-04-4	40 (E)	7,100 (X)	4.7E+7 (S)	4.68E+07	ID	240	100		< 5	< 5
Methylene chloride	75-09-2	5.0 (A)	1,500 (X)	2.20E+05	1.70E+07	ID		47		< 5	< 5
2-Methylnaphthalene	91-57-6	260	19	25,000 (S)	24,600	ID				< 5	< 5
Naphthalene	91-20-3	520	11	31,000 (S)	31,000	NA				< 5	< 5
n-Propylbenzene (l)	103-65-1	80	ID	ID	NA	ID				< 1	< 1
Styrene	100-42-5	100 (A)	80 (X)	1.70E+05	3.10E+05	1.40E+05				< 1	< 1
1,1,1,2-Tetrachloroethane	630-20-6	77	ID	15,000	1.10E+06	ID		19		< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	8.5	78 (X)	12,000	2.97E+06	ID		3.2		< 1	< 1
Tetrachloroethylene	127-18-4	5.0 (A)	60 (X)	25,000	2.00E+05	ID		11		< 1	< 1
Tetrahydrofuran	109-99-9	95	11,000 (X)	6.9E+06	1.0E+09	60,000		350		< 90	< 90
Toluene (l)	108-88-3	790 (E)	270	5.3E+5 (S)	5.26E+05	61,000	1,000			< 1	< 1
1,2,3-Trichlorobenzene	87-61-6									< 5	< 5
1,2,4-Trichlorobenzene	120-82-1	70 (A)	99 (X)	3.0E+5 (S)	3.00E+05	NA		80		< 5	< 5
1,1,1-Trichloroethane	71-55-6	200 (A)	89	6.60E+05	1.33E+06	ID				< 1	< 1
1,1,2-Trichloroethane	79-00-5	5.0 (A)	330 (X)	17,000	4.42E+06	NA		12		< 1	< 1
Trichloroethylene	79-01-6	5.0 (A)	200 (X)	2,200	1.10E+06	ID		29		< 1	< 1
Trichlorofluoromethane	75-69-4	2,600	NA	1.1E+6 (S)	1.10E+06	ID				< 1	< 1
1,2,3-Trichloropropane	96-18-4	42	NA	8,300	1.90E+06	NA				< 1	< 1
1,2,4-Trimethylbenzene (l)	95-63-6	63 (E)	17	56,000 (S)	55,890	56,000 (S)	1,000			< 1	< 1
1,3,5-Trimethylbenzene (l)	108-67-8	72 (E)	45	61,000 (S)	61,150	ID	1,000			< 1	< 1
Vinyl acetate (l)	108-05-4	640	NA	4.10E+06	2.00E+07	1.80E+06				< 100	< 100
Vinyl chloride	75-01-4	2.0 (A)	13 (X)	1,100	2.76E+06	33,000		1.0 (M); 0.25		< 1	< 1
Xylenes (l)	1330-20-7	280 (E)	49	1.9E+5 (S)	1.86E+05	70,000	10,000			< 3	< 3
<b>PCBs, ug/L</b>											
PCB, Aroclor 1016	12674-11-2									< 0.2	< 0.2
PCB, Aroclor 1221	11104-28-2									< 0.2	< 0.2
PCB, Aroclor 1232	11141-16-5									< 0.2	< 0.2
PCB, Aroclor 1242	53469-21-9									< 0.2	< 0.2
PCB, Aroclor 1248	12672-29-6									< 0.2	< 0.2
PCB, Aroclor 1254	11097-69-1									< 0.2	< 0.2



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Guidesheet Number →		#1	#3	#4	#7	#8	#31	#33	Lab ID	11452-1	11447-8
Parameters*	Chemical Abstract Service Number	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Residential Health-Based Drinking Water Value (footnote E)	Surface Water Human Drinking Water Values (HDV)	Sample Location	GW-1 (16 - 18)	GW-2
*(Refer to detailed laboratory report for method reference data)									Collection Date	12/11/20	12/8/20
PCB, Aroclor 1260	11096-82-5									< 0.2	< 0.2
Total PCBs	1336-36-3	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	44.7	ID				< 2	< 2

\* Chromium lab results refer to total chromium

\*\*Criteria for detected compounds have been updated to most recent MDEQ revisions

shading indicates criterion has been exceeded

< : chemical not detected above Method Detection Limit (MDL)

NT: sample not tested for this chemical

NA: not applicable or not available

Note: For definitions of abbreviations and letters in ( ), please see footnote at end of tables.

**Table 1**  
**Soil Analytical Results**  
**July 17, 2019**

MDEQ Criteria for Soils - Residential - Part 201 Generic Cleanup Criteria and Screening Levels** (December 30, 2013)																								
Chemical	Statewide	Groundwater Protection		Indoor Air		Ambient Air (Y) (C)				Direct Contact			Sample ID	GP-1	GP-1	GP-1	GP-2	GP-2	GP-2	GP-3	GP-3	GP-3		
		Drinking	Groundwater	Soil	Infinite Source	Finite	Finite	Particulate	Direct	Soil	Contact	Saturation												
		Abstract	Default	Water	Surface Water	Volatilization	Volatile Soil	VSIC for	VSIC for	Soil	Contact	Saturation												
		Service	Background	Protection	Interface	to Indoor Air	Inhalation	5 Meter	2 Meter	Inhalation	Criteria	Concentration												
Number	Levels	Criteria	Protection	Inhalation	Criteria (VSIC)	Source	Source	Criteria	Thickness	Thickness	Screening	Date Sampled	Sample Depth	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019		
VOCs - EPA Method SW8260B		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	MDL (µg/kg)	µg/kg	µg/kg									
Acetone (l)	67641	NA	15,000	34,000	2.9E+8 (C)	1.3E+08	1.3E+08	1.9E+08	3.9E+11	2.3E+07	1.1E+08	1000	<	<	<	<	<	<	<	<	<	<	<	
Benzene (l)	71432	NA	100	4,000 (X)	1,600	13,000	34,000	79,000	3.8E+8	1.8E+5	4.0E+5	50	1,740	<	<	<	<	<	<	<	<	<	<	
Bromobenzene (l)	108861	NA	550	NA	3.1E+5	4.5E+5	4.5E+5	5.3E+8	5.40E+05	7.6E+5	100	<	<	<	<	<	<	<	<	<	<	<	<	
Bromoform	75274	NA	1,600 (W)	ID	1,200	9,100	9,700	19,000	8.4E+7	1.10E+05	1.5E+6	100	<	<	<	<	<	<	<	<	<	<	<	
Bromomethane	75252	NA	1,600 (W)	ID	1.5E+5	9.0E+5	9.0E+5	2.8E+9	8.20E+05	8.7E+5	100	<	<	<	<	<	<	<	<	<	<	<	<	
n-Butylbenzene	104518	NA	1,600	ID	ID	ID	ID	2.0E+09	2.50E+06	1.0E+7	50	765	<	<	<	<	<	<	<	<	<	<	<	
sec-Butylbenzene	135988	NA	1,600	ID	ID	ID	ID	4.00E+08	2.50E+06	1.0E+7	50	605	<	<	<	<	<	<	<	<	<	<	<	
tert-Butylbenzene (l)	98066	NA	1,600	NA	ID	ID	ID	6.70E+08	2.50E+06	1.0E+7	50	<	<	<	<	<	<	<	<	<	<	<	<	
Carbon disulfide (I,R)	75150	NA	1.60E+04	ID	76,000	1.30E+06	7.90E+06	1.90E+07	4.70E+10	7.2E+6 (C,DD)	2.80E+05	250	<	<	<	<	<	<	<	<	<	<	<	
Carbon Tetrachloride	56235	NA	100	900 (X)	190	3,500	12,000	28,000	1.3E+8	96,000	3.9E+5	50	<	<	<	<	<	<	<	<	<	<	<	
Chlorobenzene	108907	NA	2,000	500	1.2E+5	7.7E+5	9.9E+5	2.1E+6	4.7E+9	4.3E+6 (C)	2.6E+5	50	<	<	<	<	<	<	<	<	<	<	<	
Chlorodibromomethane	124481	NA	1,600 (W)	ID	3,900	24,000	24,000	33,000	1.3E+8	1.10E+05	6.1E+5	100	<	<	<	<	<	<	<	<	<	<	<	
Chloroethane	75003	NA	8,600	22,000(X)	2.9E+6 (C)	3.0E+7	1.2E+8	2.8E+8	6.7E+11	2.6E+6 (C)	9.50E+05	250	<	<	<	<	<	<	<	<	<	<	<	
Chloroform	67663	NA	1,600 (W)	7,000	7,200	45,000	1.2E+5	2.7E+5	1.3E+9	1.20E+06	1.50E+06	50	<	<	<	<	<	<	<	<	<	<	<	
Chloromethane	74873	NA	5,200	ID	2,300	40,000	4.1E+5	1.0E+6	4.9E+9	1.6E+6 (C)	1.1E+6	250	<	<	<	<	<	<	<	<	<	<	<	
2-Chlorotoluene	95498	NA	3,300	ID	2.7E+5	1.2E+6	2.9E+6	6.3E+6	4.70E+09	4.5E+6 (C)	5.00E+05	50	<	<	<	<	<	<	<	<	<	<	<	
4-Chlorotoluene	106434	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	<	<	<	<	<	<	<	<	<	<	<	
1,2-Dibromo-3-chloropropane	96128	NA	10 (M); 4.0	ID	220	260	260	260	5.6E+5	4,400 (C)	1,200	10	<	<	<	<	<	<	<	<	<	<	<	
1,2-Dibromoethane	106934	NA	NA	NA	NA	NA	NA	24,005	NA	NA	NA	250	<	<	<	<	<	<	<	<	<	<	<	
Dibromomethane	74953	NA	1,600	NA	ID	ID	ID	2.5E+6 (C)	2.0E+6	250	<	<	<	<	<	<	<	<	<	<	<	<		
1,2-Dichlorobenzene	95501	NA	14,000	280	1.1E+7 (C)	3.9E+7	3.9E+7	5.2E+7	1.0E+11	1.9E+7 (C)	2.1E+5	100	<	<	<	<	<	<	<	<	<	<	<	
1,3-Dichlorobenzene	541731	NA	170	680	26,000	79,000	79,000	1.1E+5	2.0E+8	2.0+5 (C)	1.7E+5	100	<	<	<	<	<	<	<	<	<	<	<	
1,4-Dichlorobenzene	106467	NA	1,700	360	19,000	77,000	77,000	1.1E+5	4.5E+8	4.00E+05	NA	100	<	<	<	<	<	<	<	<	<	<	<	
1,1-Dichloroethane	75343	NA	18,000	15,000	2.3E+5 (C)	2.1E+6	5.9E+6	1.40E+07	3.30E+10	2.7E+7 (C)	8.90E+05	50	<	<	<	<	<	<	<	<	<	<	<	
1,2-Dichloroethane	107062	NA	100	7,200 (X)	2,100	6,200	11,000	26,000	1.2E+8	9.10E+04	1.2E+6	50	<	<	<	<	<	<	<	<	<	<	<	
1,1-Dichloroethene (l)	75354	NA	140	2,600	62	1,100	5300	13,000	6.2E+7	6.6E+5	5.70E+05	50	<	<	<	<	<	<	<	<	<	<	<	
cis-1,2-Dichloroethene	156592	NA	1,400	12,000	22,000	1.8E+5	4.2E+5	9.9E+5	2.3E+9	2.5E+6 (C)	6.4E+5	50	<	<	<	<	<	<	<	<	<	<	<	
trans-1,2-Dichloroethene	156605	NA	2,000	30,000 (X)	23,000	2.80E+05	8.3E+5	2.00E+06	4.70E+09	3.8E+6 (C)	1.4E+6	50	<	<	<	<	<	<	<	<	<	<	<	
1,2-Dichloropropane	78875	NA	100	4,600 (X)	4,000	25,000	50,000	1.1E+5	2.7E+8	1.40E+05	5.5E+5	50	<	<	<	<	<	<	<	<	<	<	<	
1,3-Dichloropropane	142289	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	<	<	<	<	<	<	<	<	<	<	<	
2,2-Dichloropropane	594207	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	<	<	<	<	<	<	<	<	<	<	<	
1,1-Dichloropropene	563586	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	<	<	<	<	<	<	<	<	<	<	<	
Ethylbenzene (l)	100414	NA	1,500	360	87,000	7.2E+5	1.0E+6	2.2E+6	1.0E+10	2.2E+7 (C)	1.4E+5	50	8,080	<	<	<	<	<	<	<	<	<	<	<
Hexachlorobutadiene (C-46)	87683	NA	26,000	91	1.3E+5	1.3E+5	1.3E+5	1.3E+5	1.4E+8	1.00E+05	3.5E+5	50	<	<	<	<	<	<	<	<	<	<	<	
Isopropyl benzene	98828	NA	91,000	3,200	4.0E+5 (C)	1.7E+6	1.7E+6	2.8E+6	5.8E+9	2.5E+7 (C)	3.90E+05	250	1,820	<	<	<	<	<	<	<	<	<	<	
Methylene Chloride	75092	NA	100	30,000 (X)	45,000	2.1E+5	5.9E+5	1.4E+6	6.6E+9	1.30E+06	2.3E+6	100	<	<	<	<	<	<	<	<	<	<	<	
Methyl-tert-butyl ether (MTBE)	1634044	NA	800	1.45E+5 (X)	9.9E+6 (C)	2.5E+5	3.9E+7	8.7E+7	2.0E+11	1.5E+6	5.9E+6	250	<	<	<	<	<	<	<	<	<	<	<	
Naphthalene	91203	NA	35,000	730	2.5E+5	3.0E+5	3.0E+5	3.0E+5	2.0E+8	1.60E+07	NA	250	1,040	<	<	<	<	<	<	<	<	<	<	
n-Propylbenzene	103651	NA	1,600	ID	ID	ID	ID	ID	1.3E+9	2.50E+06	1.0E+7	100	3,240	<	<	<	<	<	<	<	<	<	<	<
Styrene	100425	NA	2,700	2,100(X)	2.5E+5	9.7E+5	9.7E+5	1.4E+6	5.50E+09	4.0E+5	5.2E+5	50	<	<	<	<	<	<	<	<	<	<	<	
1,1,1,2-Tetrachloroethane	630206	NA	1500	ID	6,200	36,000	54,000	1.0E+5	4.2E+8	4.8+5 (C)	4.40E+05	100	<	<	<	<	<	<	<	<	<	<	<	
1,1,1,2-Tetrachloroethane	79345	NA	170	1,600 (X)	4,300	10,000	10,000	14,000	5.4E+7	5.30E+04	8.7E+5	50	<	<	<	<	<	<	<	<	<	<	<	
Tetrachloroethene	127184	NA	100	1,200 (X)	11,000	1.7E+5	4.8E+5	1.1E+6	2.7E+9	2.0E+5 (C)	88,000	50	<	<	<	<	<	<	<	<	<	<	<	
Toluene (l)	108883	NA	16,000	5,400																				

**Table 1**  
**Soil Analytical Results**  
**July 17, 2019**

MDEQ Criteria for Soils - Residential - Part 201 Generic Cleanup Criteria and Screening Levels** (December 30, 2013)																					
Chemical	Statewide Abstract	Groundwater Protection		Indoor Air		Ambient Air (Y) (C)				Direct Contact		Sample ID	GP-1	GP-1	GP-1	GP-2	GP-2	GP-2	GP-3	GP-3	GP-3
		Drinking Water	Groundwater Surface Water	Volatilization	Volatile Soil	VSIC for Inhalation	Finite 5 Meter	Finite 2 Meter	Particulate Inhalation	Contact Criteria	Concentration										
		Background	Protection	Interface	to Indoor Air	Inhalation	5 Meter	2 Meter	Inhalation	Criteria	Concentration										
		Number	Levels	Criteria	Inhalation	Criteria (VSIC)	Source	Source	Criteria	Screening	Date Sampled										
PNAs - EPA Method 8270																		MDL (µg/kg)			
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Acenaphthene	83329	NA	3.0E+5	8,700	1.9E+8	8.1E+7	8.1E+7	1.4E+10	4.10E+07	NA	330	<b>3,200</b>	<	<	<b>360</b>	<	<	<b>392</b>	<	<	
Acenaphthylene	208968	NA	5,900	ID	1.6E+6	2.2E+6	2.2E+6	2.3E+9	1.60E+06	NA	330	<b>391</b>	<	<	<	<	<	<	<	<	
Anthracene	120127	NA	41,000	ID	1.0E+9 (D)	1.4E+9	1.4E+9	1.4E+9	6.7E+10	2.30E+08	NA	330	<b>12,900</b>	<	<	<b>2,460</b>	<b>17,800</b>	<b>1,040</b>	<b>1,970</b>	<b>552</b>	<
Benzo(a)anthracene (Q)	56553	NA	NLL	NLL	NLV	NLV	NLV	ID	20,000	NA	330	<b>23,200</b>	<	<	<b>2,660</b>	<b>67,000</b>	<b>4,030</b>	<b>3,940</b>	<b>2,370</b>	<	
Benzo(b)fluoranthene (Q)	205992	NA	NLL	NLL	ID	ID	ID	ID	20,000	NA	330	<b>20,100</b>	<b>734</b>	<	<b>4,620</b>	<b>74,500</b>	<b>4,390</b>	<b>4,250</b>	<b>2,640</b>	<	
Benzo(k)fluoranthene (Q)	207089	NA	NLL	NLL	NLV	NLV	NLV	ID	2.0E+5	NA	330	<b>33,600</b>	<b>1,050</b>	<	<b>4,920</b>	<b>167,000</b>	<b>6,800</b>	<b>7,450</b>	<b>3,780</b>	<	
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NLV	NLV	NLV	8.0E+8	2.50E+06	NA	330	<b>18,500</b>	<b>1,420</b>	<	<b>3,000</b>	<b>93,700</b>	<b>5,380</b>	<b>6,390</b>	<b>3,440</b>	<b>736</b>
Benzo(a)pyrene (Q)	50328	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.5E+6	2,000	NA	330	<b>29,600</b>	<b>1,320</b>	<	<b>6,170</b>	<b>120,000</b>	<b>6,400</b>	<b>7,010</b>	<b>4,180</b>	<b>461</b>
Chrysene (Q)	218019	NA	NLL	NLL	ID	ID	ID	ID	2.00E+06	NA	330	<b>20,800</b>	<b>423</b>	<	<b>6,080</b>	<b>76,400</b>	<b>4,440</b>	<b>3,730</b>	<b>2,320</b>	<	
Dibenzo(a,h)anthracene (Q)	53703	NA	NLL	NLL	NLV	NLV	NLV	ID	2.00E+03	NA	330	<b>5,940</b>	<b>840</b>	<	<b>981</b>	<b>24,600</b>	<b>1,480</b>	<b>1,630</b>	<b>865</b>	<b>419</b>	
Fluoranthene	206440	NA	7.3E+5	5,500	1.0E+9 (D)	7.4E+8	7.4E+8	7.4E+8	9.3E+9	4.60E+07	NA	330	<b>62,900</b>	<b>704</b>	<	<b>11,500</b>	<b>159,000</b>	<b>8,200</b>	<b>9,150</b>	<b>3,160</b>	<
Fluorene	86737	NA	3.9E+5	5,300	5.8E+8	1.3E+8	1.3E+8	1.3E+8	9.3E+9	2.70E+07	NA	330	<b>7,050</b>	<	<b>522</b>	<	<	<b>667</b>	<	<	
Indeno(1,2,3-cd)pyrene (Q)	193395	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	330	<b>16,500</b>	<b>1,190</b>	<	<b>2,020</b>	<b>75,200</b>	<b>3,860</b>	<b>4,950</b>	<b>2,920</b>	<b>658</b>
2-Methylnaphthalene	91576	NA	57,000	4,200	2.7E+6	1.5E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA	330	<b>1,800</b>	<	<	<	<	<	<	<	
Naphthalene	91203	NA	35,000	730	2.5E+5	3.0E+5	3.0E+5	3.0E+5	2.0E+8	1.60E+07	NA	330	<b>6,630</b>	<	<	<	<	<	<	<	
Phenanthrene	85018	NA	56,000	2,100	2.8E+6	1.6E+5	1.6E+5	1.6E+5	6.70E+06	1.60E+06	NA	330	<b>54,200</b>	<b>1,310</b>	<	<b>4,930</b>	<b>66,200</b>	<b>3,880</b>	<b>6,460</b>	<b>1,480</b>	<
Pyrene	129000	NA	4.8E+5	ID	1.0E+9 (D)	6.5E+8	6.5E+8	6.5E+8	6.7E+9	2.9E+7	NA	330	<b>49,200</b>	<b>835</b>	<	<b>12,400</b>	<b>131,000</b>	<b>7,290</b>	<b>7,250</b>	<b>3,180</b>	<
PCBs - EPA Method 8082																		MDL (µg/kg)			
Polychlorinated biphenyls (PCBs) (Total) (J,T)	1336363	NA	NLL	NLL	3.00E+06	2.40E+05	7.90E+06	7.90E+06	5.20E+06	(T)	NA	100	<b>1,090</b>	<b>1,020</b>	<	<	<	<	<	<	
Metals - EPA Method 6000/7000 *																		Metals Digestion			
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NLV	NLV	NLV	7.20E+05	7,600	NA	100	<b>9,660</b>	<b>9,930</b>	<b>785</b>	<b>1,650</b>	<b>1,650</b>	<b>690</b>	<b>1,870</b>	<b>3,850</b>	<b>3,080</b>
Barium (B)	7440393	75,000	1.30E+06	(G)	NLV	NLV	NLV	NLV	3.30E+08	3.70E+07	NA	1,000	<b>155,000</b>	<b>78,300</b>	<b>867,000</b>	<b>98,700</b>	<b>47,700</b>	<b>25,200</b>	<b>87,500</b>	<b>565,000</b>	<b>546,000</b>
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NLV	NLV	NLV	1.7E+6	5.5E+5	NA	200	<b>976</b>	<b>604</b>	<	<	<b>695</b>	<	<	<b>865</b>	<b>12,100</b>
Chromium (III) (B,H) *	16065831	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	NLV	NLV	3.3E+8	7.9E+8	NA	2,000	<b>236,000</b>	<b>488,000</b>	<b>13,500</b>	<b>32,100</b>	<b>7,870</b>	<b>5,580</b>	<b>25,400</b>	<b>28,400</b>	<b>41,200</b>
Chromium (VI) *	18540299	NA	30,000	3,300	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA	500									
Copper (B)	7440508	32,000	5.80E+06	(G)	NLV	NLV	NLV	NLV	1.30E+08	2.00E+07	NA	1,000	<b>4,860,000</b>	<b>6,980,000</b>	<b>4,290,000</b>	<b>113,000</b>	<b>25,200</b>	<b>39,100</b>	<b>68,100</b>	<b>110,000</b>	<b>182,000</b>
Lead (B)	7439921	21,000	7.00E+05	(G,X)	NLV	NLV	NLV	NLV	1.0E+8												

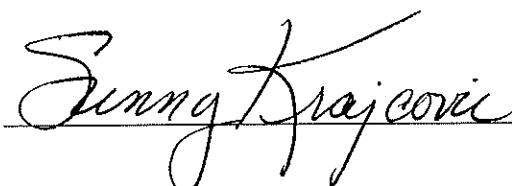
BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT

FOR

**Hines/Plymouth Road**  
**City of Plymouth, Wayne County**

July 23, 2001

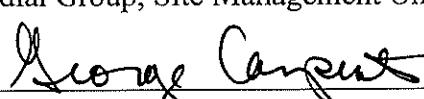
REPORT PREPARED BY:



DATE: 7-23-2001

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REVIEWED AND APPROVED BY:



DATE: 7/23/2001

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## EXECUTIVE SUMMARY

The Michigan Department of Environmental Quality (MDEQ) Pre-Remedial Group was contracted via a cooperative agreement with the United States Environmental Protection Agency (EPA) to conduct Brownfield Redevelopment Assessments (BFRA). A BFRA of the Hines/Plymouth Road property was conducted on March 29, 2000. The field-sampling event included the collection of six surficial soils, eight deep soils, two surface water, two sediment and three ground water samples.

Analysis of the surficial soil, soil boring, surface water, sediment samples, and temporary monitoring wells detected the presence of organic and inorganic compounds at concentrations greater than the Generic Residential Cleanup Criteria of Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). The MDEQ has determined that the property does meet the definition of a facility as defined in Part 201 of the NREPA.

Based on the findings of the BFRA, the following issues should be addressed before, or during, the redevelopment of the Hines/Plymouth Road property:

- Prompt action should be taken to reduce the potential threat caused by the presence of contaminants of concern in the soils, surface water and sediments by removing or restricting access to the contaminated areas.
- Access to the property should be restricted due to the excessive physical hazards in these areas, consisting of large amounts of broken glass, rusted cans and other refuse. This alternative could be mitigated by including the removal of concentrated amounts of waste or covering the area with a thick layer of soil followed by vegetation.
- An effort should be made to determine the type of wastes that were deposited in these areas and determine if there was any indication of industrial waste deposited in this area.
- Other tentatively identified compounds were found at numerous locations at concentrations below the 201 criteria in the samples. The redevelopment of the property may require further investigation of these areas based on the intended use to determine the exact location of the release. Although the point of release may not have been identified, this investigation indicated a release has occurred on this property. (See Appendix B)

- The contaminants of concern should be considered with respect to responsibilities that may exist under Part 201 of the NREPA. The nature of any response activity that may be required is dependent on the intended use of the property and the party's liability under Part 201 of the NREPA. A person who is liable for the contamination is required to achieve cleanup of the property consistent with the cleanup criteria. The relevant criteria are a function of the intended property use, such as residential, commercial, or industrial. A non-liable developer is not required to implement a cleanup to achieve the appropriate cleanup criteria. However, a non-liable party must comply with the "due care" provisions specified in section 7a obligations of Part 201 of the NREPA. These obligations include not exacerbating the existing contamination, exercising due care to assure there are not unacceptable exposures, and taking reasonable precautions against the reasonable foreseeable activities of third parties.

## INTRODUCTION

The Michigan Department of Environmental Quality (MDEQ) Pre-Remedial Group was contracted via a cooperative agreement with the United States Environmental Protection Agency (EPA) to conduct a Brownfield Redevelopment Assessments (BFRA). A brownfield is a property or a portion thereof, that has actual or perceived contamination and an active potential for redevelopment or reuse.

BFRA's are intended to provide information on abandoned properties where potential environmental contamination may be acting as an impediment to future redevelopment activities. MDEQ Pre-Remedial Group staff conduct environmental investigations to determine the types and locations of past and present industrial activities, potential environmental migration pathways of concern, types and concentrations of potential contaminants, and the need for remedial and/or removal actions on the property.

The MDEQ conducted a BFRA of the Hines/Plymouth Road property in accordance with the cooperative agreement with the EPA. The BFRA included file and information searches, a reconnaissance inspection of the property, and the collection of surficial soil, soil boring, surface water, sediment, and temporary Geoprobe monitoring well samples.

## PROPERTY BACKGROUND

### **Property Description**

The property is located near the corner of East Hines Drive and Plymouth Road. It begins at the south edge of Ernesto's Restaurant and Bar parking lot and continues south into the park. From E. Hines Drive the property extends 1,000 feet , to the eastern floodplain of the Middle Rouge River to the east. From the floodplain the property rises into a 1:2 slope to the restaurant. The property is owned by Wayne County and is a part of the county wide public park system. See Figure 1 for the Property Location Map.

### **Property History**

The MDEQ was contacted by the Wayne County Parks & Recreation to perform an investigation on property owned by Wayne County along the Hines River Parkway. The request indicated that dumping had occurred along the bluff and exposed waste was evident. A concern of the county was that the waste was pushed towards the river and may have an impact of the waste or contamination migrating into the river. The waste consists mostly of bottles, jars, rusted cans, glassware and household items. There was no evidence that industrial waste had been dumped in the area. See Figure 2 for the Property Features Map.

There were no previous environmental studies at this property. The county requested a BFRA be conducted in the dump to determine the content of both chemical and physical hazards, if any, to aid in planning and remediation to improve the park areas.

## PROCEDURES AND RESULTS

A reconnaissance inspection of the Hines/Plymouth Road property and surrounding area was conducted on September 16, 1999 to make observations to aid in characterizing the property. The reconnaissance inspection included a visual inspection of the property to determine appropriate health and safety requirements for conducting on-site activities. Areas of concern and potential sampling locations were also determined during this reconnaissance inspection. The sampling investigation of the Hines/Plymouth Road property was performed on March 29, 2000. Prior to conducting the sampling activities, the investigation team performed a reconnaissance walk-through of the property to determine any additional health and safety requirements and to flag the sampling locations. During the sampling investigation, the investigation team surveyed all sampling locations with a global positioning system.

### Reconnaissance Inspection Observations

The pre-sampling reconnaissance inspection of the Hines/Plymouth Road property was performed on September 30, 1999. During the inspection, the property was screened with appropriate safety equipment, including a photoionization detector (PID) to determine on-property health and safety concerns. The instrument did not detect any hazardous conditions on the property above background levels. All sampling locations were identified and marked during the pre-sampling reconnaissance inspection.

The Hines/Plymouth Road property is the most northwesterly portion of the Hines River Parkway. The property is long and narrow, approximately 1,500 feet long and 500 feet wide. On the south side of the property is an egress road to the parkway. On the north side of the property is a privately owned parcel occupied by Ernesto's Restaurant and Bar, and the west side of the property is the Rouge River. The restaurant's parking lot is adjacent to the Hines/Plymouth Road property. From the edge of the parking lot, which is the property line, the parkway property drastically drops off on a 1:1 or 1:2 slope, approximately 70 feet down to the floodplain of the Rouge River. The floodplain extends to the egress road of the parkway. Within this floodplain two low-lying areas exist which could, during normal circumstances, contain open water during high water times of the year. Along this steep ridge/hill are areas where refuse (garbage bags, asphalt, concrete, bottles, dishes and clothing) have been deposited. Some of this refuse has migrated down into the floodplain and some waste remains precariously high up on the steep slope, only to fall during high rains, washout or inclement weather.

There are three large dumpsters, two owned by the restaurant and one owned by an adjacent apartment complex, which are located approximately 750 feet east of the west property line. There was evidence that refuse from the dumpsters had overflowed and the waste (bottles, dishes, canned food containers, household waste) is careening down the steep slopes. It was also evident that this waste has been deposited over many years and appears to be 2-3 feet deep, with portions of the material degraded.

In the lower elevations, within the floodplain, a sheen was observed in the open water areas with seeps or drainage crevasses along the slope depositing surface water runoff into the floodplain. This runoff appears to be originating from the parking lot of the restaurant. There was little to no refuse within the floodplain except for a few bottles and dishes. Concrete rubble, asphalt and building debris line the steep slope directly south of the restaurant's new parking lot. See Figure 2 for a Property Features Map.

Photographs of the Hines/Plymouth Road property and samples collected from the property taken during the BFRA are provided in Appendix A.

As part of the BFRA, the MDCH accompanied the investigation team during the reconnaissance inspection. A determination was made that a Health Consultation would not be submitted at this time.

## Sampling Procedures and Results

On March 28, 2000, the investigation team collected six surficial soil samples, eight deep soil boring samples, two sediment samples, two surface water samples, and three temporary Geoprobe monitoring well samples from suspected areas of contamination at the Hines/Plymouth Road Dump property. These samples were collected by the investigation team to determine the levels of EPA Target Compound List compounds (organic compounds) and Target Analyte List analytes (inorganic compounds) which may be present at the property.

Standard MDEQ collection and decontamination procedures, as outlined in the work plan, were adhered to during the collection of all samples. All samples were packaged and shipped in accordance with EPA and MDEQ required procedures and all EPA and MDEQ quality assurance/quality control procedures were followed. Laboratory analytical data for all the sample analyses are provided in Appendix B.

### Surficial Soil Samples

The intent of the surficial soil sampling was to characterize any potential contaminated surficial soil areas, to determine the potential for possible contaminant migration from potential source areas, and the potential health and safety concerns, if any, associated with the surficial soils at the property. Six surficial soil samples were collected to characterize these soils.

All surficial soil samples were collected using stainless steel trowels according to the procedures outlined in the work plan. See Figure 3 for a map showing surficial soil sample locations. For a description of the surficial soil sample locations and the sample characteristics, refer to Table 1. Table 2 gives a summary of the surficial soil sample analytical results with comparisons to background concentrations and lists the Generic Cleanup Criteria exceedences of Part 201 of the NREPA.

Surficial soil sampling was concentrated in areas of previous commercial activities or disposal areas with other random samples scattered throughout the property. Analysis of the surficial soil samples collected detected elevated levels of organic and inorganic compounds above the Part 201 of the NREPA Generic Cleanup Criteria. Aluminum and iron was found in every sample above Residential and Commercial I Drinking Water Protection Criteria. Pentachlorophenol was detected in SS2 and SS3, also above criteria. In addition to the above compounds, SS3 contained 2-chlorophenol, N-Nitroso-di-n-propylamine, 4-Nitrophenol, 2,4-Dinitrotoluene, phenanthrene, carbazole, fluoranthene, and benzo(a)pyrene were found to be above Residential and Commercial I, Drinking Water Protection Criteria of Part 201. Lindane was also found in SS3 above criteria. The two surficial samples, SS2 and SS3 as noted above, were collected, directly south of the dumpsters located on the adjacent properties.

### Soil Boring Samples

The intent of the soil boring sampling was to characterize any potential contamination in the deep soils on the property, to determine if any downward migration of possible contamination had occurred from probable source areas, and to determine the potential health and safety concerns, if any, associated with the deep soils at the property. Seven soil boring samples were collected from the Hines/Plymouth Road property.

All soil boring samples were collected utilizing a Geoprobe rig according to the procedures outlined in the work plan. See Figure 4 for a map showing soil boring sample locations. A description of the soil boring sample locations and the sample characteristics can be found in Table 3. Table 4 gives a summary of the soil boring sample analytical results with comparisons to background concentrations and lists the Generic Cleanup Criteria exceedences of Part 201 of the NREPA.

As with the surficial soil samples, the soil boring sampling was concentrated in areas of previous activity or disposal areas with other random samples scattered throughout the entire property. Analysis of the soil boring samples collected during the BFRA investigation of the Hines/Plymouth Road property detected elevated levels of inorganic compounds above the Part 201 of the NREPA Generic Cleanup Criteria. Aluminum was detected in every sample above Residential and Commercial I Drinking Water Protection Criteria. Iron and magnesium were detected in SB1, SB2, SB3, and SB5 and iron was detected in SB1, SB2, and SB5 above criteria.

### Surface Water Samples

The surface water samples were collected to determine if there was any migration of possible contamination into the two areas of ponded water on the property. These samples were also collected to determine the potential health and safety concerns, if any, associated with these water bodies. Two surface water samples, including one duplicate sample, were collected from the two ponded water areas on the property. These samples were collected to characterize any possible contamination in the water on or adjacent to the property and to determine any direct contact or drinking water threats posed to nearby residential populations and future workers or any threats posed to any resources.

All surface water samples were collected by direct immersion of the sample bottle according to the procedures outlined in the work plan. See Figure 5 for a map showing surface water sample locations. Surface water sample location and characteristic descriptions can be found in Table 5. A summary of the surface water sample analytical results with comparisons to background concentrations and a list of Generic Cleanup Criteria exceedences of Part 201 of the NREPA are found in Table 6.

Analysis of the surface water samples collected during the BFRA investigation of the Hines/Plymouth Road property detected elevated levels of inorganic compounds above the Part 201 of the NREPA Generic Cleanup Criteria. Aluminum, iron, lead, manganese, and vanadium were found in both samples. Thallium and selenium were found only in sample SW1. This ponded water on the property is most likely a result of the groundwater run-off of the parking lot from the adjacent restaurant. Several gullies lie along the steep banks, which indicate a direct connection to the parking lot. This parking lot lies approximately 35' above the floodplain elevation.

### Sediment Samples

The intent of the sediment sampling was to determine if there had been any migration of possible contamination into the sediments of the ponded areas in the floodplain and to determine the potential health and safety concerns, if any, associated with these sediments. Two sediment samples were collected from the Hines/Plymouth Road property.

All sediment samples were collected utilizing a hand held sediment corer according to the procedures outlined in the work plan. See Figure 5 for a map showing the sediment sample locations. A description of the sediment sample locations and the sample characteristics can be found in Table 7. Table 8 gives a summary of the sediment sample analytical results with comparisons to background concentrations and lists the Generic Cleanup Criteria exceedences of Part 201 of the NREPA.

As with the surface water and sediment samples the high concentrations of contaminants occurred in the areas of influence from the surface water runoff onto the property. The open water areas are located in the floodplain of the Rouge River and at the base of a steep slope leading to the parking lot of the adjacent restaurant. The area is low lying and water accumulation is apparent. The surface water drainage from the area migrates into these two ponded areas. Aluminum and iron were found in both samples collected in the open water, and were detected at levels above the Part 201 Drinking Water Protection Criteria.

### Temporary Geoprobe Monitoring Well Samples

The intent of the temporary Geoprobe monitoring well sampling was to determine if there had been any migration of possible contamination from probable source areas into the shallow aquifer in the property area. The sampling was also conducted to determine the potential health and safety concerns, if any, associated with the groundwater in the area of the property. Three temporary Geoprobe monitoring well groundwater samples (including one duplicate sample) were collected to characterize the groundwater in the area of the property.

All temporary monitoring well samples were installed using a Geoprobe rig according to the work plan. See Figure 4 for a map showing the Geoprobe well sample locations. A description of the temporary Geoprobe well sample locations and the sample characteristics can be found in Table 9. Table 10 gives a summary of the temporary Geoprobe well sample analytical results with comparisons to background concentrations and list the Generic Cleanup Criteria exceedences of Part 201 of the NREPA.

Due to the steep bank samples could not be collected along the north side of the property. Analysis of the groundwater samples collected from these wells found elevated levels of organic and inorganic contaminants. Aluminum, iron and manganese were detected in all of the wells above the Part 201 Residential & Commercial I Criteria and the Industrial & Commercial II, III, & IV drinking Water Criteria. Nickel was detected in TMW 2 and TMW 3. Vanadium was detected in TMW 3. Thallium, benzene, trichloroethene, chlorobenzene, 2-chlorophenol, N-nitroso-di-n-propylamine, acenaphthene, 4-nitrophenol, 2,4 dinitrotoluene, pentachlorophenol, lindane, heptachlor, dieldrin, endrin, and 4-4DDT was detected above the Part 201 Residential & Commercial I Criteria with most of these levels also above the Industrial & Commercial II, III, & IV Drinking Water Criteria in TMW2.

## DISCUSSION

Analysis of the surficial soil, soil boring, sediment, surface water, and temporary monitoring well samples collected during the BFRA detected the presence of aluminum, iron, magnesium, manganese, nickel, selenium, thallium, vanadium, benzene, trichloroethene, chlorobenzene, pentachlorophenol, 2-chlorophenol, n-nitroso-di-n-propylamine, acenaphthene, 4-nitrophenol, 2,4-dinitrotoluene, phenanthrene, carbazole, fluoranthene, benzo(a)pyrene lindane, heptachlor, dieldrin, endrin, and 4-4 DDT. These contaminants of concern were detected at concentrations greater than the Generic Residential Cleanup Criteria of Part 201 of the NREPA. Because these contaminants were detected at concentrations in excess of the Generic Residential Cleanup criteria, the Hines/Plymouth Road property qualifies as a facility under Part 201 of the NREPA.

It would appear that, at a minimum, surface contamination both on site and off site has occurred. Contamination appears to be concentrated in the central area just south of the dumpsters. Elevated levels of aluminum, and iron occurred in all of the samples, indicating that these metals are naturally occurring in this area. Magnesium and manganese were also detected at concentrations above the Part 201 drinking water protection criteria but these concentrations are more likely attributable to variations in the background concentrations of the soils and less likely attributable to contamination sources on the property. In SS2, collected directly down-gradient of an area of obvious dumping had several organic and inorganic compounds were detected above the Part 201 cleanup criteria. Pentachlorophenol, 2-chlorophenol, n-nitroso-di-n-propylamine, 4-nitrophenol, 2,4-dinitrotoluene, phenanthrene, carbazol, fluoranthene, benzo(a)pyrene, and lindane were detected in this one sample above the Part 201 Drinking Water Protection criteria.

Analysis of the soil boring samples indicated similar contamination levels to that of the surficial soil samples. Aluminum and iron were detected in all of the samples and magnesium was detected in four of the samples at concentrations above the Part 201 Drinking water Protection criteria. These concentrations, similar to those of the surficial samples, are more likely attributable to variations in the background concentration of the soils and are less likely attributable to contamination sources on the property.

Analysis of the groundwater samples collected from the temporary monitoring wells indicated that the groundwater has been impacted by organic and inorganic contaminants. Aluminum, iron and manganese was detected in all of the wells above Part 201 Residential & Commercial I Drinking Water criteria. Nickel and vanadium were detected in TMW 3. Benzene, trichloroethene, chlorobenzene, 2-chlorophenol, n-nitroso-di-n-propylamine, acenaphthene, 4-nitrophenol, 2,4-dinitrotoluene, pentachlorophenol, lindane, heptachlor, dieldrin, endrin, and 4-4 DDT were found only in TMW 2. These contaminants exceed their respective Industrial & Commercial II, III & IV Drinking Water criteria. All residents utilize the public municipal water supply system, not private wells.

Monitoring well TMW 2 is located in the center of the property just south of the dumpsters and at the base of the steep slope. The location of this monitoring well consisted with the soil samples, sediment samples and surface water samples, which detected similar contaminants.

Based on the findings of the BFRA investigation and the MDCH Health Consultation Assessment, the following issues should be addressed before or during the redevelopment of the Hines/Plymouth Road property:

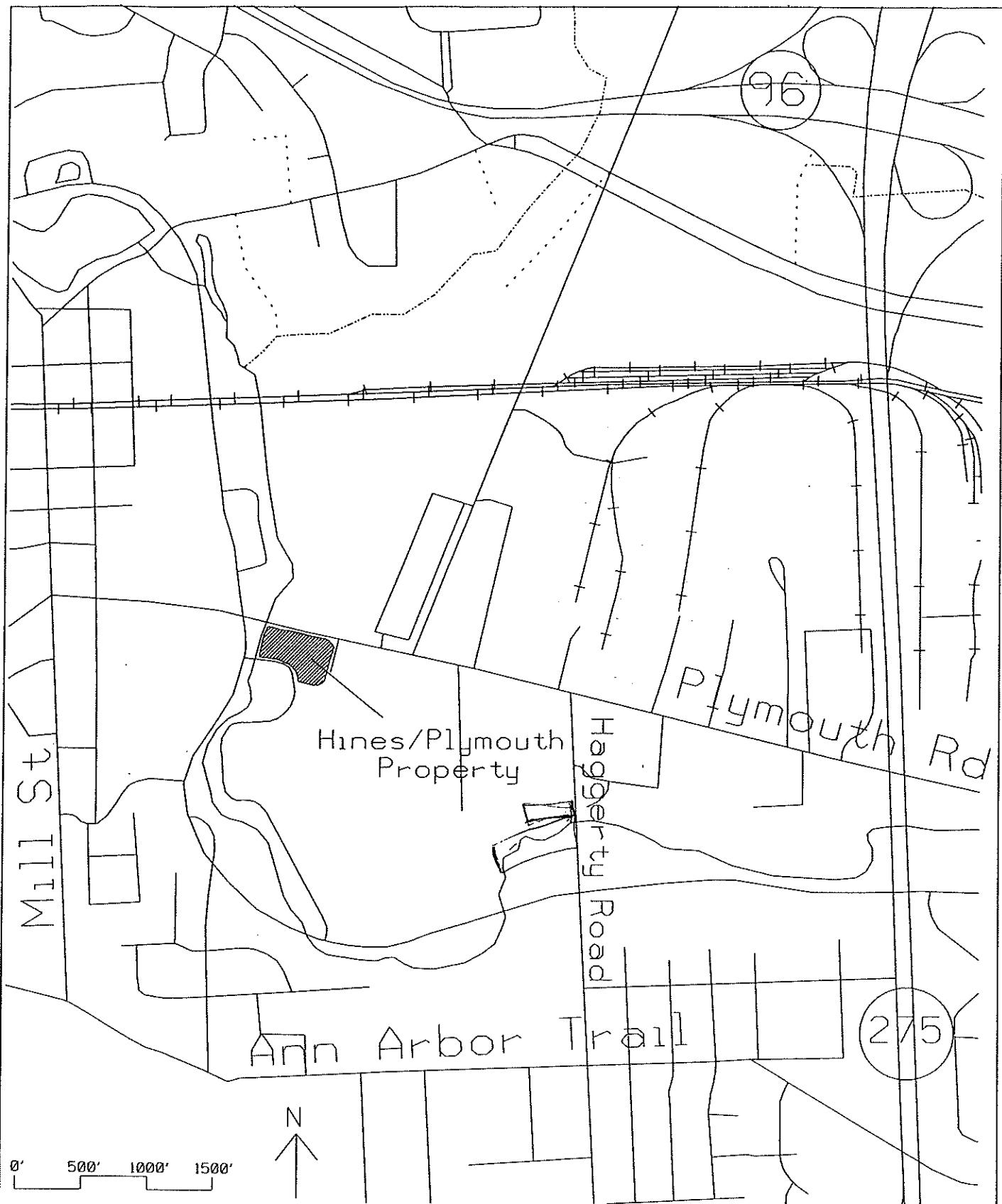
- Action should be taken to abate the potential threat caused by the presence of contaminants of concern in the soils, surface water and sediment by mitigation of these contaminants.
- Access to the property should be restricted due to the excessive physical hazards in these areas, consisting of large amounts of broken glass, rusted cans and other refuse. Alternatively, mitigation could be accomplished by removal of concentrated amounts of waste or covering the area with a thick layer of soil and vegetation.
- An effort should be made to determine the type of wastes that were deposited in these areas and determine if industrial waste was deposited in the dump.
- Other tentatively identified compounds were found at concentrations below the 201 criteria in some of the soil samples. The redevelopment of the property may require further investigation of these areas based on the intended use. (See Appendix C)
- The contaminants of concern should be considered with respect to responsibilities that may exist under Part 201 of the NREPA. The nature of any response activity that may be required is dependent on the intended use of the property and the party's liability under Part 201 of the NREPA. A person who is liable for the contamination is required to achieve cleanup of the property consistent with the cleanup criteria. The relevant criteria are a function of the intended property use, such as residential, commercial, or industrial. A non-liable developer is not required to implement a cleanup to achieve the appropriate cleanup criteria. However, a non-liable party must comply with the "due care" provisions specified in section 7a obligations of Part 201 of the NREPA. These obligations include not exacerbating the existing contamination, exercising due care to assure there are not unacceptable exposures, and taking reasonable precautions against the reasonable foreseeable activities of third parties.

## BIBLIOGRAPHY

1. Aerial photos from 1957, 1961, 1972, 1991, and 1997.
2. Discussion with Wayne County Department of Public Works personnel.
3. Review of Division of Public Service Files, Wayne Co., March 1994.

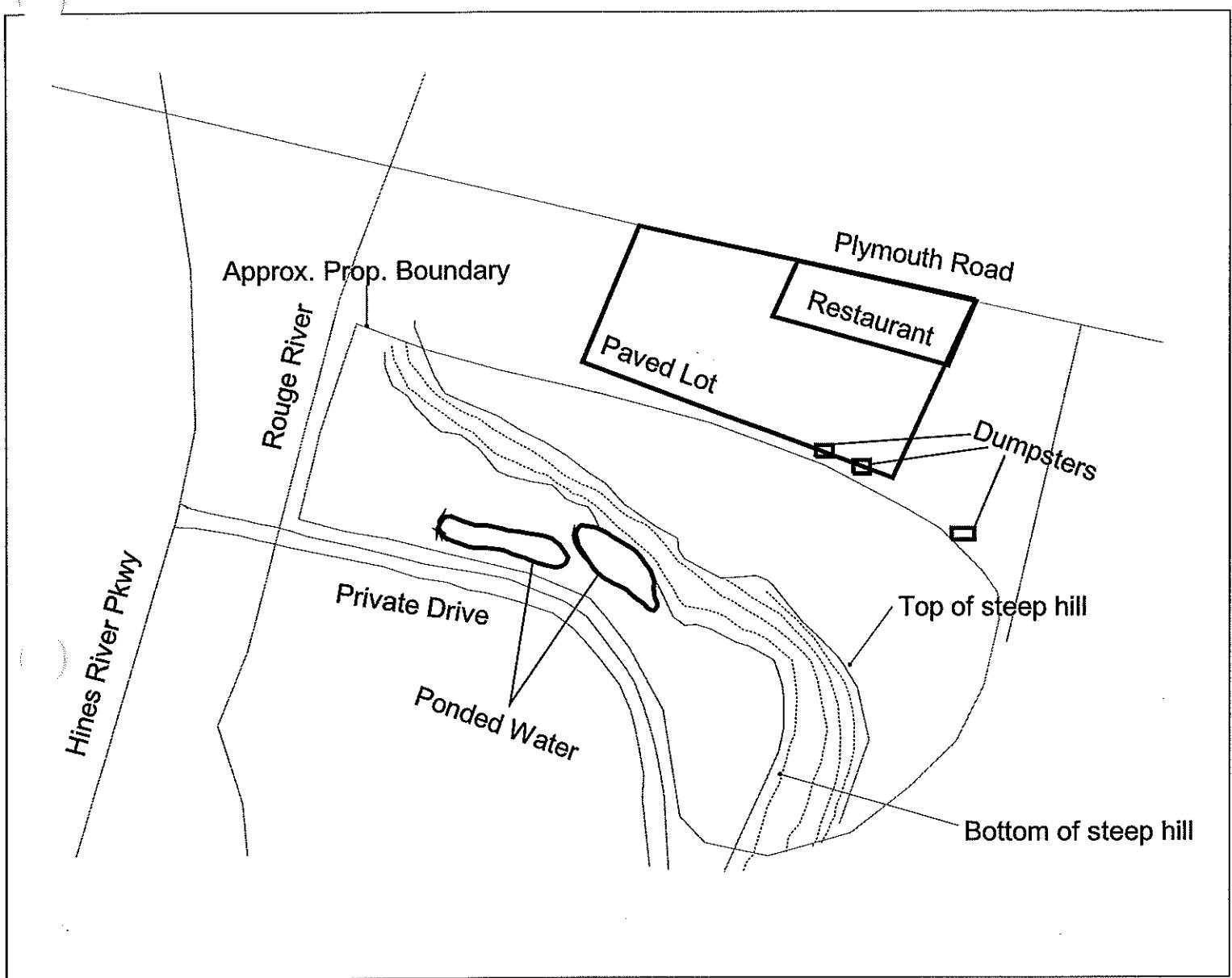
# Figure 1: Property Location Map

12-14-21 BOF Packet  
Item F-2 - addition following page 90



Directions to Property: From Lansing take 96 East. Take 96 East to 275 South. Take 275 South to Ann Arbor Road. Go West (right) on Ann Arbor Road to Haggerty Road. Turn North (right) on Haggerty Road. Take Haggerty Road to Plymouth Road. Turn west (left) of Plymouth Road. Take Plymouth Road to Hines River Pkwy. Turn south (left) on Hines River Pkwy. Take the first left. Property is on the left.

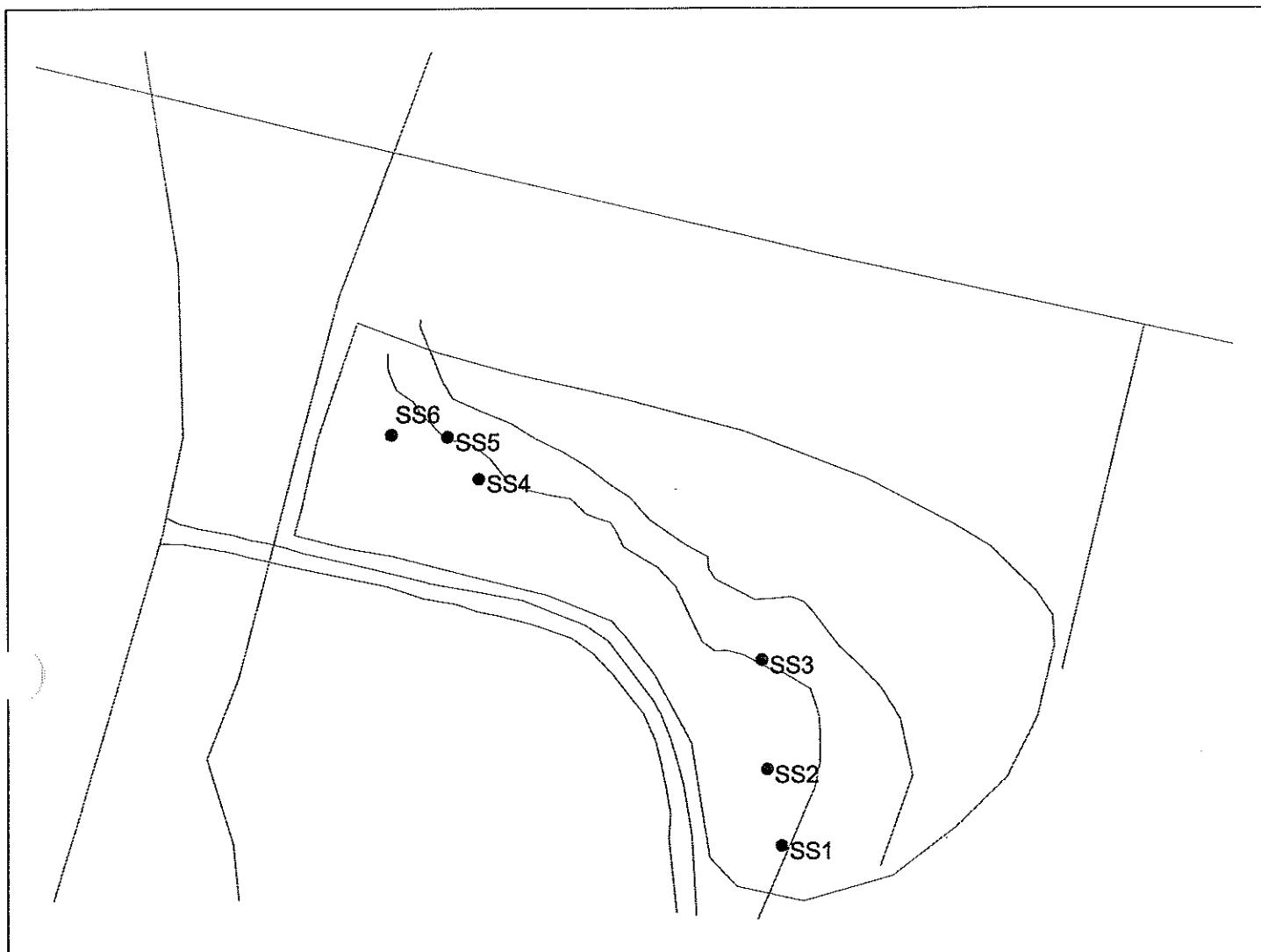
## Figure 2: Property Features Map Hines/Plymouth Dump



Not Drawn to Scale

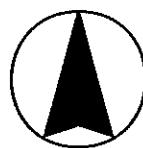


### Figure 3: Surficial Soil Sample Locations Hines/Plymouth Dump



Not Drawn to Scale

#### Legend



- SS1 - Surficial Soil 1

## Figure 4: Soil Boring and Temporary Monitoring Well Sample Locations Hines/Plymouth Dump



Not Drawn to Scale

### Legend



- SB5 - Soil Boring 5
- TMW2 - Temporary Monitoring Well 2

## Figure 5: Surface Water / Sediment Sample Locations Hines/Plymouth Dump



Not Drawn to Scale

### Legend



- SW/SD1 - Surface Water and Sediment 1

TABLE 1  
SURFICIAL SOIL SAMPLE DESCRIPTIONS

SAMPLE #	LOCATION	DEPTH	DESCRIPTION	DESIGNATION	COMMENTS
SS1	GPS see Figure __	Surface 0-3+ in.	Dead leaves, twigs Black organic soil, loamy, mixed with fine grained sand, trace of clay, some roots and slight moisture.	Background, shallow grab sample.	
SS2	GPS	Surface 0-4+ in.	Dead leaves, twigs Black organic loamy soil mixed with fine grained sand. Trace of clay, slight moisture, some roots.	Shallow grab sample	
SS3	GPS	Surface 0-1 in. 1-4 in.	Dead leaves, twigs Black loamy soil mixed with small gravel, fine grained sand and roots. Black loamy soil mixed with fine grained sand, roots, trace of clay and slightly moist.	Shallow grab sample	
SS4	GPS	Surface 0-4+ in.	Dead leaves, twigs. Black loamy soil mixed with fine grained sand, trace of clay and some roots.	Shallow grab sample	
SS5	GPS	Surface 0-4 in.	Dead leaves, twigs Black loamy soil mixed with fine grained sand, trace of clay and some roots.	Shallow grab sample	
SS6	GPS	Surface 0-4 in.	Dead leave, twigs Black loamy soil mixed with fine grained sand, roots and trace of clay.	Shallow grab sample	

TABLE 2  
SURFICIAL SOIL SAMPLE SUMMARY

SAMPLE #	CONTAMINANT	SAMPLE CONCENTRATION	BACKGROUND CONCENTRATION	PART 201 CLEANUP CRITERIA & SCREENING LEVEL EXCEEDANCE
SS1	Inorganics	ug/kg	ug/kg	Criteria*
	Aluminum	4,390,000	NA	11
SS2	Iron	8,440,000	NA	11
	Inorganics	ug/kg	ug/kg	Criteria*
	Aluminum	7,990,000	NA	11
	Iron	17,400,000	NA	11
SS3	Semi-volatiles	ug/kg	ug/kg	Criteria*
	Pentachlorophenol	49	NA	11
SS3	Inorganics	ug/kg	ug/kg	Criteria*
	Aluminum	3,790,000	NA	11
	Iron	7,660,000	NA	11
	Semi-volatiles	ug/kg	ug/kg	Criteria*
	2-Chlorophenol	3,500,000	NA	11, 12
	N-Nitroso-di-n-propylamine	2,100,000	NA	11
	4-Nitrophenol	4,000,000	NA	11
	2,4-Dinitrotoluene	2,500,000	NA	11
	Pentachlorophenol	2,900,000	NA	11
	Phenanthrene	13,000,000	NA	12, 15
	Carbazole	2,200,000	NA	12
	Fluoranthene	21,000,000	NA	12
SS4	Benzo(a)pyrene	9,500,000	NA	19
SS4	Pesticide/PCB	ug/kg	ug/kg	Criteria*
	Lindane	3,300	NA	11, 12
SS5	Inorganics	ug/kg	ug/kg	Criteria*
SS5	Aluminum	4,570,000	NA	11
	Iron	12,300,000	NA	11
SS6	Inorganics	ug/kg	ug/kg	Criteria*
SS6	Aluminum	3,410,000	NA	11
	Iron	9,080,000	NA	11

ug/kg- microgram per kilogram [parts per billion (ppb)].

mg/kg- milligram per kilogram [parts per million (ppm)].

A total of six (6) surficial soil samples, including a designated background sample, were collected during the brownfield investigation.

\*(11)- drinking water protection criteria

\*(12)- groundwater surface water interface protection criteria

\*(15)- infinite source volatile soil inhalation criteria (VSIC)

\*(19)- direct contact criteria

TABLE 3  
SOIL BORING SAMPLE DESCRIPTION

BORING NUMBER	LOCATION	SPOON INTERVAL	RECOVERY	UNIT THICKNESS	LITHOLOGICAL DESCRIPTION	SAMPLE DESIGNATION	*PID READING	COMMENTS
SB1	GPS	0-4 ft.	34 in.	0-7 in. 7-12 in. 12-30 in. 30-34 in.	Moist dark brown silty fine to medium sand with trace organic material. Moist black silty fine sand with organic material. Moist brown silty clay. Very moist brown silty to sandy clay with trace fine gravel.	Deep grab sample	0.0 0.0 0.0 0.0	
		4-8 ft.	40 in.	0-27 in. 27-40 in.	Moist to very moist brown silty clay with 3 in. lense of silty/sandy clay at 15 in. Wet brown medium to coarse sand.		0.0 0.0	
SB2	GPS	0-4 ft.	40 in.	Surface 0-4 in. 4-8 in.	Leaf twig litter, broken glass bottles; trash nearby (plastic, glass bottles, playground equipment), tires, 5-gallon steel gas can (rusted out), aerosol cans and PVC piping. Dark brown topsoil with some organic matter. Moist medium silty sand, tan-brown.	Deep grab sample.	0.0 0.0 0.0	VOA at 48-56 in. and rest of sample at 56-96 in.

TABLE 3 (cont.)  
SOIL BORING SAMPLE DESCRIPTION

		4-8 ft.	48 in.	8-20 in. 20-30 in. 30-40 in. 0-8 in. 8-24 in. 24-40 in. 40-48 in.	Moist brown-black rich silty loam soil. Moist brown medium sand. Very moist medium silty sand with some clay. Wet gray fine sand with clay and silt. Wet gray silty clay with fine sand and bits of organic matter. Wet gray medium sand Wet gray coarse sand.		0.0 0.0 0.0 0.0 0.0 0.0 0.0	
SB3	GPS	0-4 ft.  4-8 ft.	30 in.  40 in.	Surface  0-6 in.  6-15 in. 15-20 in. 20-28 in. 28-30 in. 0-3 in. 3-15 in. 15-25 in. 25-32 in. 32-40 in.	Twigs, leaves, bricks, and concrete at base of bank. Moist brown medium sand with silt, twigs, roots and fine gravel. Moist brown sandy loam. Moist brown silt with fine sand. Moist brown silty clay. Moist gray medium sand. Wet gray medium sand Wet gray fine sand. Wet gray silty clay with fine sand. Wet gray medium sand Wet gray medium coarse sand with fine gravel.	Deep grab sample.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
SB4	GPS	0-4 ft.	30 in.	0-4 in.	Moist brown topsoil (loamy) with small roots.	Deep grab sample.	0.0	

TABLE 3 (cont.)  
SOIL BORING SAMPLE DESCRIPTION

		4-8 ft.	48 in.	4-14 in. 14-24 in. 24-30 in. 0-12 in. 12-24 in. 24-30 in. 30-48 in.	Moist brown silt with some fine sand. Moist gray silty clay with some fine sand. Wet medium sand. Wet gray medium sand. Very moist medium sand with fine gravel. Moist gray coarse sand with fine gravel. Moist gray silty clay with fine gravel.		0.0 0.0 0.0 0.0 0.0 0.0 0.0	VOA at 54-56 in. rest from 48-84 in. 6-8 ft. auger drove very hard
SB5	GPS	0-4 ft.	42 in.	0-6 in.  6-12 in. 12-32 in. 32-36 in.	Black loamy soil mixed with fine-grained sand, some roots.  Black, moist pliable clay. Moist, tan pliable clay. Dark gray sandy clay, very moist; sand medium to coarse grained.	Deep grab sample.	0.0 0.0 0.0 0.0	At 4-8 ft. core very wet, water came out of bore hole when core pulled free.
		4-8 ft.	48 in.	36-48 in. 48-52 in. 52-96 in.	Wet coarse grained sand. Wet pea gravel Moist gray clay mixed large cobble gravel, pea gravel, clay very pliant.		0.0 0.0 0.0	hard to drive auger
SB6	GPS	0-58 in.	58 in.	0-14 in.  14-30 in. 30-40 in.	Moist dark brown silty fine sand topsoil with organic material, clayey at depth.  Moist brown silty fine sand with trace clay.  Very moist grayish brown	Deep grab sample, hand auger.		

TABLE 3 (cont.)  
SOIL BORING SAMPLE DESCRIPTION

				40-48 in. 48-58 in.	silty fine sand with trace clay. Wet gray/brown fine to medium sand with trace silt. Wet brown, medium to coarse sand			
SB7	GPS	0-42 in.	42 in.	Surface 0-12 in. 12-24 in. 24-30 in. 30-36 in. 36-42 in.	Dead leaves Black loamy soil mixed with fine-grained sand, trace of clay and some roots. Lighter brown fine grained sandy clay (pliable) with trace of moisture. Tan brown very fine grained sand, trace of clay, becoming more clay less sand at depth. Rust colored fine grained sand mixed with clay. Wet gray sandy clay mixed with gravel. VOA collected here.	Deep grab sample, hand auger.		

\* PID reading units are parts per million (ppm).

TABLE 4  
SOIL BORING SAMPLE SUMMARY

SAMPLE #	CONTAMINANT	SAMPLE CONCENTRATION	BACKGROUND CONCENTRATION	PART 201 CLEANUP CRITERIA & SCREENING LEVEL EXCEEDANCE
SB1	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	8,640,000	NA	11
	Iron	17,600,000	NA	11
	Magnesium	29,500,000	NA	13, 19
SB2	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	3,820,000	NA	11
	Iron	6,420,000	NA	11
	Magnesium	16,300,000	NA	13, 19
SB3	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	2,230,000	NA	11
	Magnesium	10,000,000	NA	13, 19
SB4	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	2,100,000	NA	11
SB5	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	5,080,000	NA	11
	Iron	11,300,000	NA	11
	Magnesium	18,800,000	NA	13, 19
SB6	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	2,120,000	NA	11
SB7	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	2,790,000	NA	11

ug/kg- microgram per kilogram [parts per billion (ppb)].

mg/kg- milligram per kilogram [parts per million (ppm)].

A total of seven (7) surficial soil samples, including a designated background sample, were collected during the brownfield investigation.

\*(11)- drinking water protection criteria

\*(13)- groundwater contact protection criteria

\*(19)- direct contact criteria

TABLE 5  
SURFACE WATER SAMPLE DESCRIPTIONS

SAMPLE #	LOCATION	DESCRIPTION	COND. ( $\mu\text{s}/\text{cm}$ ) PH TEMP. ( $^{\circ}\text{C}$ )	DESIGNATION	COMMENTS
SW1	GPS, same as SD 1	Cloudy	C =2500 pH =7.4 T =12	Grab sample Jar	Standing water
SW2	GPS, same as SD 2	Cloudy	C =3960 pH =7.3 T =10	Grab sample Jar	Standing water

TABLE 6  
SURFACE WATER SAMPLE SUMMARY

SAMPLE #	CONTAMINANT	SAMPLE CONCENTRATION	BACKGROUND CONCENTRATION	PART 201 CLEANUP CRITERIA & SCREENING LEVEL EXCEEDANCE
SW1	Inorganics	ug/kg	ug/kg	Criteria*
	Aluminum	10,000	NA	1, 2
	Iron	13,800	NA	1, 2
	Lead	169	NA	1, 2
	Manganese	153	NA	1, 2
	Nickel	1,350	NA	1, 2
	Selenium	6.7	NA	3
	Thallium	3.2	NA	1, 2
SW2	Inorganics	ug/kg	ug/kg	Criteria*
	Aluminum	3,800	NA	1, 2
	Iron	5,370	NA	1, 2
	Lead	36.2	NA	1, 2
	Manganese	57.6	NA	1, 2
	Nickel	296	NA	1, 2
	Vanadium	9	NA	1

ug/kg- microgram per kilogram [parts per billion (ppb)].

mg/kg- milligram per kilogram [parts per million (ppm)].

A total of two (2) surface water samples were collected during the brownfield investigation.

\*(1)- residential & commercial I drinking water criteria

\*(2)- industrial and commercial II, III, & IV drinking water criteria

\*(3)- groundwater surface water interface criteria

TABLE 7  
SEDIMENT SAMPLE DESCRIPTIONS

SAMPLE #	LOCATION	DEPTH OF SAMPLE	DEPTH OF WATER AT SAMPLE LOCATION	DESCRIPTION	DESIGNATION	COMMENTS
SD1	GPS	8 in.	12 in.	Wet, black loamy soil mixed with fine grained sand, trace of clay and some roots.	Shallow grab sample.	
SD2	GPS	8 in.	12 in.	Wet, black organic loamy soil mixed with fine grained sand, roots and trace of clay.	Shallow grab sample.	

TABLE 8  
SEDIMENT SAMPLE SUMMARY

SAMPLE #	CONTAMINANT	SAMPLE CONCENTRATION	BACKGROUND CONCENTRATION	PART 201 CLEANUP CRITERIA & SCREENING LEVEL EXCEEDANCE
SD1	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	6,170,000	NA	11
	Iron	9,050,000	NA	11
SD2	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	9,540,000	NA	11
	Iron	14,500,000	NA	11

ug/kg- microgram per kilogram [parts per billion (ppb)].

mg/kg- milligram per kilogram [parts per million (ppm)].

A total of two (2) sediment samples were collected during the brownfield investigation.

<sup>a</sup>(11)- drinking water protection criteria

TABLE 9  
TEMPORARY MONITORING WELL SAMPLE DESCRIPTIONS

SAMPLE #	LOCATION	DESCRIPTION	COND. ( $\mu\text{s}/\text{cm}$ ) PH TEMP. ( $^{\circ}\text{C}$ )	DESIGNATION	COMMENTS
TMW1	GPS	Clear	C =2720 pH =6.96 T =9.2	Grab sample Low-flow peristaltic pump.	TDS=2159ppm
TMW2	GPS	Clear	C =2398 pH =6.98 T =8.4	Grab sample Low-flow peristaltic pump.	TDS=1883ppm MS/MSD
TMW3	GPS	Clear	C =2744 pH =6.72 T =9.3	Grab sample Low-flow peristaltic pump.	TDS=2182ppm

TABLE 10  
TEMPORARY MONITORING WELL SAMPLE SUMMARY

SAMPLE #	CONTAMINANT	SAMPLE CONCENTRATION	BACKGROUND CONCENTRATION	PART 201 CLEANUP CRITERIA & SCREENING LEVEL EXCEEDANCE
TMW1	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	503	NA	1, 2
	Iron	5.970	NA	1, 2
	Manganese	492	NA	1, 2
TMW2	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	137	NA	1, 2
	Iron	1.050	NA	1, 2
	Manganese	62.9	NA	1, 2
	Nickel	112	NA	1, 2
	Thallium	3.8	NA	1, 2
	Volatiles	ug/kg	ug/kg	Criteria <sup>a</sup>
	Benzene	53	NA	1, 2
	Trichloroethene	51	NA	1, 2
	Chlorobenzene	52	NA	3
TMW3	Semi-volatiles	ug/kg	ug/kg	Criteria <sup>a</sup>
	2-Chlorophenol	60	NA	1, 3
	N-Nitroso-di-n-propylamine	37	NA	1, 2
	Acenaphthene	41	NA	3
	4-Nitophenol	71	NA	1, 2
	2,4-Dinitrotoluene	45	NA	1, 2
	Pentachlorophenol	80	NA	1, 2
	Pesticides/PCB	ug/kg	ug/kg	Criteria <sup>a</sup>
	Lindane	64	NA	1, 2, 3
	Heptachlor	0.57	NA	1, 2
	Dieldrin	1.3	NA	1, 2, 3
	Endrin	1.3	NA	1, 2
	4,4-DDT	1.2	NA	3
	Inorganics	ug/kg	ug/kg	Criteria <sup>a</sup>
	Aluminum	1,250	NA	1, 2
	Iron	2,940	NA	1, 2
	Manganese	71.8	NA	1, 2
	Nickel	771	NA	1, 2
	Vanadium	5.3	NA	1

ug/kg- microgram per kilogram [parts per billion (ppb)].

mg/kg- milligram per kilogram [parts per million (ppm)].

A total of three (3) temporary monitoring well samples were collected during the brownfield investigation.

<sup>a</sup>(1)- residential & commercial I drinking water criteria

<sup>a</sup>(2)- industrial and commercial II, III, & IV drinking water criteria

<sup>a</sup>(3)- groundwater surface water interface criteria