Board of Commissioners

Tim Barnes
Blake Mulder
Terrance Augustine
Brandon Haskell
Jeanne Pearl-Wright
Trevor "TJ" Youngquist
Mark Mudry
Joseph C. Brehler
Brian Droscha
Jacob Toomey
Scott Hansen
Brian Lautzenheiser
Jim Mott – Chair
Frank Holmes
Barbara A. Rogers – Vice Chair

EATON COUNTY BOARD OF COMMISSIONERS/PUBLIC WORKS AND PLANNING COMMITTEE

WEDNESDAY, MAY 8, 2024
9:00 A.M.

BOARD OF COMMISSIONERS' ROOM, COUNTY COURTHOUSE, CHARLOTTE

AGENDA

1. Call to Order.
2. Pledge of Allegiance.
3. Agenda Additions and Changes.
4. Approval of April 10, 2024 Minutes.
5. Limited Public Comment.
6. Drain Commissioner Annual Report.
7. Construction Code/Planning and Zoning Report.
    - Master Plan
    - Finance Report
8. DIA Update.
    - EGLE Electronics Grant Amendment
    - Recycling Trailer Update
    - Calhoun County MOU
    - Materials Management Plan
    - Finance Report
9. Parks Report.
    - Community Grant Application Review
    - Lincoln Brick Park (house update)
    - Finance Report
10. Landfill Semi-Annual Sampling Report
11. Miscellaneous.
12. Limited Public Comment.
13. Adjournment.

A quorum of the Board of Commissioners may be present at this meeting.

517-543-2122
517-543-3331 (Fax)
1045 Independence Blvd.
Charlotte, MI 48813
eatoncounty.org

PUBLIC WORKS & PLANNING COMMITTEE

WEDNESDAY, APRIL 10, 2024
9:00 A.M.

MINUTES

MEMBERS PRESENT:	Commissioners Barbara Rogers, Joe Brehler, Terrance Augustine, and Scott Hansen
ABSENT:	Commissioners Blake Mulder, Trevor Youngquist, and Brian Lautzenheiser
ALSO PRESENT:	Commissioner Jim Mott, Connie Sobie, Claudine Williams, Chris Garrison, Brandy Miller, Deb Penfield, Jarod Bogdanov-Hanna, Travis Keeton, Rachel Cushieri-Murray and Bill Hendrain

The April 10, 2024 regular meeting of the Public Works and Planning Committee was called to order at 9:00 a.m. by Chairperson Rogers.

The Pledge of Allegiance was given by all.

Commissioner Augustine moved to approve the agenda with the removal of item 10. Commissioner Brehler seconded. Motion carried unanimously.

Commissioner Brehler moved to approve the March 13, 2024 meeting minutes. Commissioner Hansen seconded. Motion carried unanimously.

Limited Public Comment. None.

MSU Extension District 8 Director, Bill Hendrian, was present to provide a Semi-Annual report. Director Hendrian gave an update on the impact MSU Extension has in the County and noted the four (4) priorities they are currently focused on for Eaton County: Agriculture and Agribusiness Institute, Health and Nutrition Institute, Children and Youth Institute, and Community, Food, and Environment Institute. It was noted Eaton County residents participated in four hundred thirty five (435) different extension programs.

Construction Code and Planning & Zoning Director, Chris Garrison, presented the department's monthly report. Director Garrison said the online permitting system has a couple of issues, but is working well overall. He noted the Planning Commission has a meeting to review the Master Plan on April 23rd. Commissioner Augustine requested the Staff Report on marihuana discussed last month be sent to all committee members.

Resource Recovery Director, Jarod Bogdanov-Hanna, presented the department's monthly report. An update on the Materials Management Plan (MMP) was given, with a resolution presented

identifying Eaton County as the County Approval Agency (CAA). Director Bogdanov-Hanna added the department has been meeting with adjacent counties and some businesses to discuss MMP involvement and implementation. Commissioner Augustine moved to recommend approval of the Resolution identifying Eaton County as the County Approval Agency (CAA) to the Board of Commissioners. Commissioner Droscha seconded. Motion carried unanimously.

Parks Director, Travis Keeton, presented the department's monthly report. Director Keeton reported on the demolition of the house at Lincoln Brick Park and noted three (3) quotes have been received. Discussion was held. The lack of tornado shelters in county parks was discussed. Director Keeton also reported on paving a portion of the Thornapple Trail. Discussion was held.

Controller Sobie explained a Resolution Opposing the Governor's Recommended Budget for the Reduction of Operational funding to the Michigan Conservation Districts and the Elimination of Local Administration of the Michigan Agricultural Environmental Assurance Program (MAEAP) is being presented under Miscellaneous. Pat Tirrell, a representative from the Eaton Conservation District Board of Directors, shared a letter from the Board expressing their opposition to the FY2025 Governor's Recommended Budget and stated their support for the Resolution as presented. Rachel Cushieri-Murray was present to answer questions. Commissioner Augustine moved to recommend approval of the Resolution to the Board of Commissioners. Commissioner Droscha seconded. Motion carried unanimously.

Limited Public Comment. None.

Chairperson Rogers adjourned the meeting at 10:08 a.m.

The next regularly scheduled meeting of the Public Works and Planning Committee will be held on Wednesday, May 8, at 9:00 a.m. in the Board of Commissioner Room of the Courthouse located at 1045 Independence Blvd, Charlotte, MI 48813.

_____

Barbara Rogers, Chairperson

DRAFT

Eaton County Department of
Construction Codes & Planning and Zoning
1045 Independence Boulevard, Charlotte, Michigan 48813
Telephone: (517) 543-3004 Fax: (517) 543-9924

"OUR GOAL IS TO PROVIDE A SAFER PLACE TO LIVE, WORK AND PLAY"

Department of Construction Codes & Planning and Zoning Report 5/1/2024
For Public Works & Planning Committee May 8, 2024

Department Boards:

- The **Planning Commission** held the Public Hearing for the Master Plan on April 23rd, they approved the update of the Eaton County Master Plan with the properties located in Carmel and Eaton Townships, off from Cochran Road, north of I-69 to remain future planned as commercial.
- The **Zoning Board of Appeals** did not meet in April due to lack of business.
- The **Construction Code Board of Appeals** did not meet in April due to lack of business.
- The **Zoning Ordinance Committee** met on April 16th, the meeting resulted in DCA-6-24-4 a proposed text amendment for Article 11 Advertising Structures, Signs and Name Plates. Their next meeting is scheduled for May 21st at 4:00 p.m.

Online Permitting System (BS&A):

We have been live for two months now; we have recently made some improvements to the program that should make things easier for applicants. We are still, and will continue to assist applicants without internet connection to apply for permits in the office.

Master Plan Update:

The Planning Commission recommends the Board of Commissioners approve the updated Eaton County Master Plan as attached to this report.

The Draft Eaton County Master Plan is located on the Eaton County Website:
https://www.eatoncounty.org/618/Master-Plan

Community Outreach:

Staff attended the following meetings:

- City of Charlotte regarding fire inspections
- Brookfield Township – regarding Lulla Lane and Narrow Lake Country Store

Code Enforcement (open/active):

- Work without permits - sixteen (16)
- Hazardous buildings - twenty-three (23)
- Junk - forty-three (43)
- Zoning - thirty-three (33)

One (1) ticket was issued in April for junk and debris and living in campers.

County Wide Housing Starts		January	February	March	April	May	June	July	August	September	October	November	December	2023 Totals	2024 Totals
Delta Twp.	Site Built	2	1	0	0									23	3
	Mobile Homes	0	0	3	0									0	3
	Totals	2	1	3	0	0	0	0	0	0	0	0	0	23	6
Eaton County	Site Built	4	1	7	9									78	21
	Mobile Homes	0	0	0	0									9	0
	Totals	4	1	0	9	0	0	0	0	0	0	0	0	87	21
Eaton Rapids	Site Built	2	2	0	4									0	8
	Mobile Homes	0	0	0	0									10	0
	Totals	2	2	0	4	0	0	0	0	0	0	0	0	10	8
Grand Ledge	Site Built	0	1	0	0									14	1
	Mobile Homes	10	0	0	0									5	10
	Totals	10	1	0	0	0	0	0	0	0	0	0	0	19	11
Oneida	Site Built	0	0	0	0									2	0
	Mobile Homes	0	0	0	0									0	0
	Totals	0	0	0	0	0	0	0	0	0	0	0	0	2	0
County Wide Total		18	5	0	13	0	0	0	0	0	0	0	0	141	46

Monthly Activity Con Code	Tickets issued		Magistrate hearings		Court cases		Commercial Plan Review		Complaints regarding contractors		Public Surveys		TOTAL MONTH	
MO/YR	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"
JAN		0	1	0	0	0	2	4	0	0	4	0	7	4
FEB		0	0	0	0	0	4	1	0	0	0	1	4	2
MARCH		1	0	0	0	0	0	4	0	0	3	2	3	7
APRIL		0	0	0	0	0	4	2	0	0	2	4	6	6
MAY			0		0		5		0		2		7	0
JUNE			0		0		5		1		8		14	0
JULY	22		1		0		4		0		5		32	0
AUG	6		0		1		3		0		4		14	0
SEPT	0		1		1		4		0		2		8	0
OCT	0		0		0		4		0		3		7	0
NOV	0		0		0		7		0		2		9	0
DEC	0		0		0		4		0		2		6	0
TOTALS	28	1	3	0	2	0	46	11	1	0	37	7	117	19

Construction Inspections	Building		Electrical		Mechanical		Plumbing		TOTAL MONTH	
MO/YR	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"
JAN	224	348	132	110	211	119	78	86	645	663
FEB	240	319	109	124	106	174	96	96	551	713
MARCH	255	376	89	136	87	149	156	92	587	753
APRIL	237	373	98	124	89	153	182	100	606	750
MAY	326		104		86		177		693	0
JUNE	297		120		86		62		565	0
JULY	335		101		68		47		551	0
AUG	471		148		114		71		804	0
SEPT	432		124		59		11		626	0
OCT	437		141		114		66		758	0
NOV	361		104		97		93		655	0
DEC	347		129		121		61		658	0
TOTALS	3962	1416	1399	494	1238	595	1100	374	7699	2879

Construction Permits	Building		Electrical		Mechanical		Plumbing		TOTAL MONTH	
MO/YR	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"
JAN	50	33	69	71	85	84	44	51	248	239
FEB	64	23	46	70	63	70	259	42	432	205
MARCH	47	56	57	60	63	128	78	32	245	276
APRIL	78	57	82	71	71	77	46	29	277	234
MAY	83		64		64		35		246	0
JUNE	68		80		75		34		257	0
JULY	91		80		60		22		253	0
AUG	90		79		60		40		269	0
SEPT	143		116		74		31		364	0
OCT	65		103		107		35		310	0
NOV	67		140		174		142		523	0
DEC	63		58		96		21		238	0
TOTALS	909	169	974	272	992	359	787	154	3662	954

Construction Enforcements	WWOP (NEW)	WWOP (NEW)	WWOP (CLOSED)	WWOP (PENDING)	HAZ BLDG (NEW)	HAZ BLDG (NEW)	HAZ BLDG (CLOSED)	HAZ BLDG (PENDING)
		2023 carryover 7				2023 carryover 21		
MO/YR	2023	2024	2024	2024(PENDING)	2023	2024	2024	2024(PENDING)
JAN	22	3	1	9	7	0	0	21
FEB	20	8	9	8	5	1	0	22
MARCH	14	9	3	16	5	3	2	23
APRIL	20	7	5		0	1	1	23
MAY	9				5			
JUNE	12				2			
JULY	14				0			
AUG	8				3			
SEPT	5				1			
OCT	3				5			
NOV	1				0			
DEC	2				1			
TOTALS	130	27	18	16	34	4	3	23
			TOTAL WORK WITHOUT PERMITS (WWP) & HAZARDOUS BUILDINGS VIOLATIONS					39

Planning & Zoning Cases	Conditional Use Permits		Board of Appeals		Adminis-trative Variances		District Change Amend-ments		Site Plan Reviews		Zoning Referrals		Private Roads		Agricultural Buildings		Lot Line Adjustments		Land Divisions Reviewed		TOTAL MONTH	
MO/YR	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"	"23"	"24"
JAN	0	0	0	0	0	0	0	0	0	0	19	10	0	0	0	1	1	1	2	1	22	13
FEB	0	0	0	0	0	0	0	0	0	0	16	10	0	0	2	2	5	1	1	5	24	18
MARCH	0	1	0	1	0	0	0	2	0	0	19	19	0	0	2	1	1	2	3	3	25	29
APRIL	4	2	1	0	0	0	1	0	0	0	22	20	0	0	3	0	0	5	1	10	32	37
MAY	3		2	0	0		0	0	0		22		0		3		2		2		34	0
JUNE	0	3	0	1	0		0	2	0		22		0		1		2		1		26	6
JULY	0		0		0		0		0		32		0		1		3		1		37	0
AUG	1		0		0		1		0		25		0		4		4		2		37	0
SEPT	1		0		0		0		0		25		0		4		2		1		33	0
OCT	4		0		0		0		0		21		0		1		3		3		32	0
NOV	0		0		0		0		0		16		0		1		2		1		20	0
DEC	2		1		0		0		0		9		0		1		2		1		16	0
TOTALS	15	6	4	2	0	0	2	4	0	0	248	59	0	0	23	4	27	9	19	19	338	103

Planning & Zoning Enfor.	JUNK (NEW)	JUNK (NEW)	JUNK (CLOSED)	JUNK (PENDING)	ZONING (NEW)	ZONING (NEW)	ZONING (CLOSED)	ZONING (PENDING)
		2023 carryover: 39				2023 carryover: 33		
MO/YR	2023	2024	2024	2024(PENDING)	2023	2024	2024	2024(PENDING)
JAN	3	0	0	39	2	0	1	32
FEB	2	1	0	40	1	0	0	32
MARCH	7	4	1	43	3	0	1	31
APRIL	2	1	1	43	1	3	1	33
MAY	2				3			
JUNE	1				2			
JULY	0				0			
AUG	1				0			
SEPT	2				1			
OCT	3				3			
NOV	0				5			
DEC	0				0			
TOTALS	23	6	2	43	21	3	3	33
			TOTAL PENDING JUNK & ZONING VIOLATIONS					76

Eaton County Construction Code

Financial Report

Fiscal Year 2023/24

Through the end of April, 2024

	Original Budget	Adjusted Budget	Actual Year to Date	Projected Year to Date	Remaining Balance	% Used
Revenues						
Permitting Revenue						
Building Permits *	300,000	350,375	536,359.01	711,148.05	(360,773.05)	203%
Mechanical Permits	120,000	120,000	105,300.02	180,514.32	(60,514.32)	150%
Electrical Permits	120,000	120,000	79,820.02	136,834.32	(16,834.32)	114%
Plumbing Permits	65,000	65,000	45,553.00	78,090.86	(13,090.86)	120%
Total Permitting Revenue	605,000	655,375	767,032.05	1,106,587.55	(451,212.55)	
Other Revenue						
Construction Code Services	11,600	11,600	17,035.00	29,202.86	(17,602.86)	252%
Fines and Forfeitures	500	500	100.00	300.00	200.00	60%
Fund Balance Carryover	400,310	400,310	-	-	400,310.00	0%
Total Other Revenue	412,410	412,410	17,135.00	29,502.86	382,907.14	
Total Revenues	1,017,410	1,067,785	784,167.05	1,136,090.40	(68,305.40)	106%
Operational Expenditures						
Personnel	682,374	682,374	298,918.81	946,240.10	(263,866.10)	139%
Supplies	22,700	22,700	13,576.25	22,273.57	426.43	98%
Other Services & Charges	59,012	79,387	40,736.68	59,834.31	19,552.69	75%
Total Operational Expenditures	764,086	784,461	353,231.74	1,028,347.98	(243,886.98)	
Other Expenditures						
Debt Service - Vehicle Leases	19,404	19,404	14,327.79	28,655.58	(9,251.58)	148%
Capital Outlay	51,000	51,000	-	51,000.00	-	100%
Transfer Out - General Fund	45,000	45,000	134,250.00	45,000.00	-	100%
Transfer Out - Public Improvement	134,000	134,000	-	134,000.00	-	100%
Transfer Out - Computer Fund	3,920	33,920	2,940.00	33,920.00	-	100%
Total Other Expenditures	253,324	283,324	151,517.79	292,575.58	(9,251.58)	103%
Total Expenditures	1,017,410	1,067,785	504,749.53	1,320,923.56	(253,138.56)	124%
Excess Revenues over Expenses (Net Carryover)	-	-	279,417.52	(184,833.15)		
9/30/2023 Estimated Fund Balance	1,139,660	1,139,660	1,139,660	1,139,660		
Projected 9/30/2024 Fund Balance	*739,350*	*739,350*	*860,242*	*954,827*		

** Projected Building Permits Includes One-Time Single Permit for $288,036*

EATON COUNTY BOARD OF COMMISSIONERS

MAY 15, 2024

RESOLUTION TO ACCEPT MAY 15, 2024
EATON COUNTY MASTER PLAN

Introduced by the Public Works and Planning Committee

WHEREAS, the Eaton County Planning Commission provided notice explaining their intent to amend the Eaton County Comprehensive Development Plan (the "Master Plan"); and

WHEREAS, each local unit of government under the jurisdiction of the Eaton County Planning Commission has participated in the consideration and preparation of the draft Master Plan; and

WHEREAS, The Eaton County Construction Codes & Planning and Zoning Department held a visioning workshop in the County for the purpose of gathering public input on development goals and objectives; and

WHEREAS, a draft Master Plan was created per the Michigan Planning Enabling Act, PA 33 of 2008, as amended; and

WHEREAS, the Eaton County Board of Commissioners had an opportunity to review and comment on the draft Master Plan and approved its distribution for public comment; and

WHEREAS, the draft Master Plan was distributed for public comment, followed by a public hearing duly noticed and held by the Eaton County Planning Commission on April 23, 2024 to receive comments; and

WHEREAS, the Planning Commission adopted the Eaton County Master Plan on April 23, 2024.

NOW THEREFORE BE IT RESOLVED that:

1. The Eaton County Board of Commissioners officially endorses this resolution of acceptance and supports the Eaton County Planning Commission to begin implementation of the Master Plan, including the land use plan, accompanying maps, and descriptive text as provided for in Act 33 of the Public Acts of 2008, as amended.

2. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

At the regular meeting of the Eaton County Board of Commissioners on **May 15, 2024** the Resolution regarding the acceptance of the Eaton County Master Plan was adopted.

Those voting Aye:_____

_____

Those voting Nay:_____

Abstention: _____

Absent: _____

Motion carried.

_____
Jim Mott, Chairman
Eaton County Board of Commissioners

I, Diana Bosworth, the duly qualified and acting Clerk of Eaton County, Michigan DO HEREBY CERTIFY that the foregoing is a true and complete copy of certain proceedings taken by the Eaton County Board of Commissioners of said County at a regular meeting held on the 15th day of May 2024.

_____
Diana Bosworth, Clerk
Eaton County Board of Commissioners

EATON COUNTY RESOURCE RECOVERY

---RETHINKING OUR DEPENDENCE ON NATURAL RESOURCES TODAY BY REDUCING, REUSING & RECYCLING FOR A BETTER

Department of Resource Recovery Report

For Public Works & Planning Committee

4/10/2024

General Updates:

The Department of Resource Recovery is reviewing grant reports, developing recycling programs, collaborating with counties and townships, implementing education programs, and preparing for event season.

The department attended the Michigan Recycling Coalition's 42nd annual conference. The conference provided access and opportunities to meet and discuss with other counties, municipalities, EGLE staff, and environmental consultants. The primary theme of the conference was the Materials Management Plan (MMP) and organics management. The conference greatly facilitated the department's understanding of the MMP and organics management.

The Department of Resource Recovery's education programs performed two events last month. Lockwood Science Night and Grand Ledge Public Library were well attended and well received. The department presented on worm composting and food wastes.

County Projects (Programs):

Spring Clean-Up Recycling event is on Saturday, May 18th in Delta Township. Registrations are strong, and volunteer positions are being filled. The department is in the final stages of planning, including advertising and volunteer management. The department is running an advertisement in the County Journal for the next two weeks with the assistance of the Communications Director, Logan Bailey.

EGLE Rural Electronics Grant

The initial EGLE grant sought to increase electronics recycling in Eaton County through a partnership with Delta Township. Due to project delays and inflation, Delta Township is no longer able to build the electronics recycling infrastructure at the recycling center with the allocated grant funds ($32,000).

Eaton County Department of Resource Recovery would like to explore other opportunities to utilize grant funds to meet the goals and objectives of this grant with approval from EGLE. Increasing electronics recycling would greatly benefit Eaton County residents, and provide the opportunity to develop a county-wide program that is geographically, temporally and financially viable.

The Department has explored several other opportunities to meet these goals and objectives. Utilizing the existing grant funds to support increased electronics recycling is a priority for the county and residents. Alternatives that have been explored are expansions of infrastructure at other municipal recycling facilities, building new infrastructure at existing municipal recycling facilities, increasing recycling events (with a focus on electronics), and

developing a mobile electronics recycling program using a trailer. Based on the resources available to the department and these grant funds, the optimal strategy is to pursue a mobile electronics recycling trailer program.

In preliminary discussions with Steve Noble of EGLE, the mobile electronics recycling trailer operation will meet the goals and objectives of the original grant. EGLE is willing to grant a one year extension to develop this program.

With permission of the Board, the Department of Resource Recovery is recommending the EGLE Rural Electronics Recycling grant funds, a sum of $32,000, be amended to develop a mobile electronics recycling trailer program to expand electronics recycling in Eaton County.

EGLE Infrastructure Grant Materials Recycling Trailer

The Pro-Tainer gravity tilt recycling trailer is in the process of being painted and designed. The Department is expecting the delivery of the trailer within the next two months. The department is continuing to develop operations for the Recycling Trailer Operation to better meet the recycling needs of Eaton County residents and compliance with the State of Michigan's Part 115 update. Attached is a design proof for the trailer.

Calhoun County/Charlotte Area Recycling Authority (CARA) "Hub and Spoke" Pilot

The Department is developing a pilot program with Calhoun County, CARA and Metro Recycling Solutions to increase efficiencies and reduce costs to the recycling programs. Sunfield Recycling Center, operated by the Department of Resource Recovery, will be accepting select plastics from Calhoun County and CARA throughout the year.

Calhoun County will be charged a fee per ton of material delivered (by Calhoun County) to Sunfield Recycling Center. This fee will cover Eaton County expenses for labor, materials and operations. Attached is a draft MOU with Calhoun County.

Metro Recycling Solutions will be delivering (at no charge) CARA materials to the Sunfield Center to increase the sales and revenue of materials. Materials will be combined with Calhoun County materials and sold through Metro Recycling Solutions.

Eaton County will retain revenue of the material sales from both Sunfield Recycling Center and Calhoun County. CARA will receive the revenue of the sales of their materials.

Materials Management Plan

Resource Recovery is submitting a draft resolution for the Materials Management Plan (MMP). The draft resolution's intent is for the Eaton County Board of Commissioners, acting as the County Approval Agency, to designate the Eaton County Department of Resource Recovery as the Designated Planning Agency (DPA). The resolution will authorize the Department of Resource Recovery to lead the Materials Management Committee (MMPC) and the county work plan on the Part 115 update.

EATON COUNTY BOARD OF COMMISSIONERS

MAY 15, 2024

RESOLUTION TO APPROVE MICHIGAN DEPARTMENT OF ENVIRONMENT GREAT LAKES AND ENERGY RURAL ELECTRONICS COLLECTION AND INFRASTRUCTURE RECYCLING GRANT AMENDMENT

Introduced by the Public Works and Planning Committee

WHEREAS, Eaton County was awarded a Rural Electronic Collection and Infrastructure Recycling Grant for funding up to a maximum of $32,000; and

WHEREAS, the original grant award would have increased the capacity for and availability of electronics recycling in a permanent location via Delta Township's monthly collections for all county residents; and

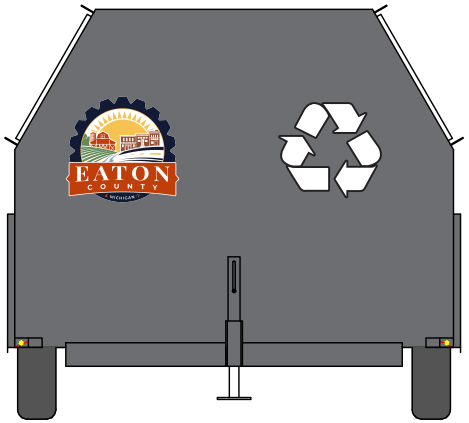
WHEREAS, it has proven cost-prohibitive to administer the program as initially approved in a permanent location; and

WHEREAS, the Resource Recovery Department is requesting to amend the grant to instead obtain a mobile recycling trailer in order to fulfill the intent of the original award to increase the capacity and availability of electronics recycling; and

WHEREAS, the match requirement of up to $8,000 will be achieved by a combination of in-kind matching from program labor and cash matching through electronic material recycling cost reimbursements.

NOW, THEREFORE BE IT RESOLVED, the Board of Commissioners approves this amendment to the Rural Electronic Collection and Infrastructure Recycling Grant; and

BE IT FURTHER RESOLVED, the Chairperson of the Board of Commissioners, or his designee, is authorized to sign any necessary grant documents.



FRONT

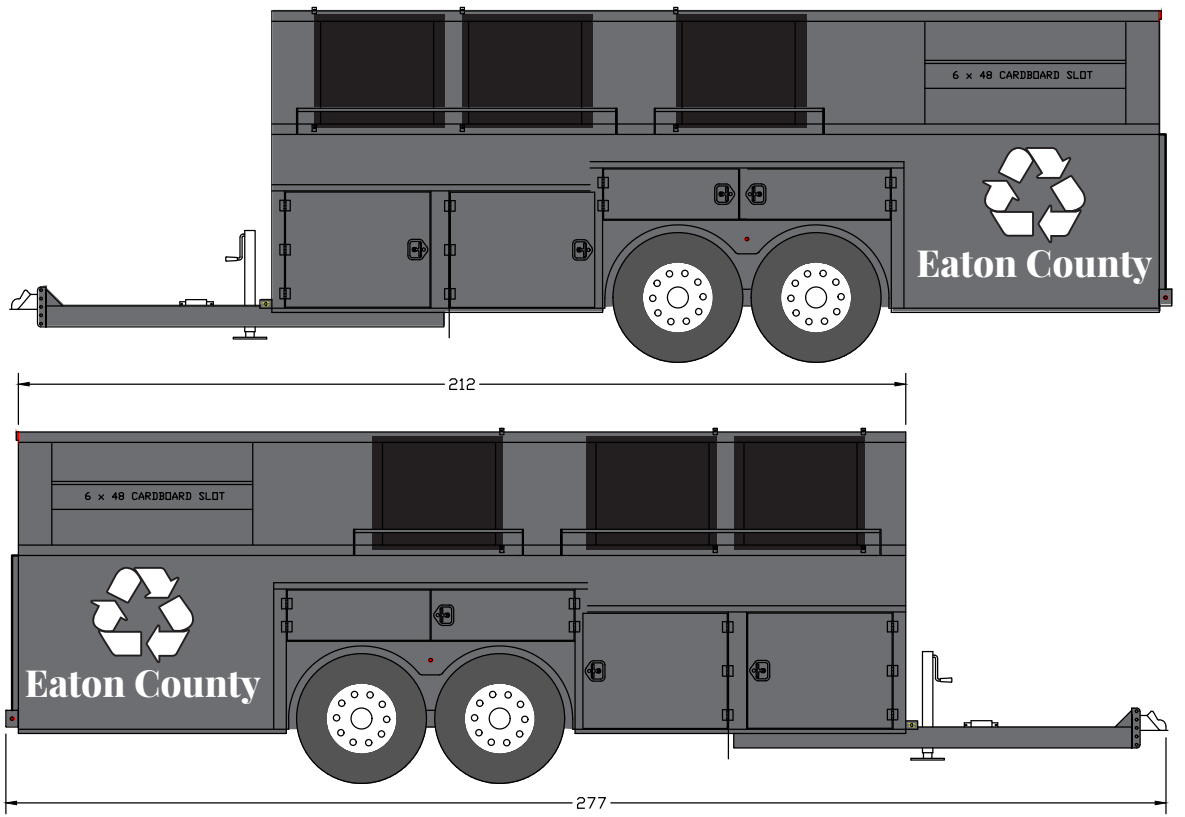
REAR

FOR: _____

COLOR: _____

SIGNATURE: _____

_____
(DATE)



SIDE

1. 32" X 32" FRONT HINGED POLYLIDS W/LOCK DOWNS
2. 14GA DOOR W/2-POINT STAINLESS STEEL LOCKABLE LATCHES
3. TAPERED FLOOR TO AID IN UNLOADING

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21YD TANDEM AXLE GRAVITY TRAILER

SIZE	DRAWING NUMBER	
D	SK 237-43	9/19
SCALE: NTS	DRAWN BY: B Holm	PAGE 1 of 1

Memorandum of Understanding

Between

Eaton County Resource Recovery Department

And

Calhoun County Recycling and Solid Waste Department

This Memorandum of Understanding (MOU) sets forth the terms and understanding between Eaton County, through its Resource Recovery Department, and Calhoun County, through its Recycling and Solid Waste Department.

Background
Due to current material storage deficiencies and vendor difficulties, Calhoun County Recycling and Solid Waste Department has requested material management partnership with Eaton County Resource Recovery Department.

Purpose
This MOU will establish financial responsibility in which Calhoun County Recycling and Solid Waste will reimburse Eaton County Resource Recovery for the handling and marketing of predetermined recycled plastics collected at the Marshall Recycling Center and delivered by Calhoun County to Eaton County's Sunfield Recycling Center.

Specificity
This memorandum applies only to the counties, sites, and materials referenced above.

Funding Liability
Calhoun County Recycling and Solid Waste will reimburse Eaton County Resource Recovery the rate of (cost/pound) for recycled plastics collected in Calhoun County and delivered by Calhoun County to Eaton County's Sunfield Recycling Center, and relinquish any claim to the materials upon their eventual resale to market.

Duration
This MOU is at-will and may be modified by mutual consent of authorized officials from both Eaton County and Calhoun County. This MOU shall become effective upon signature by the authorized officials from Eaton County and Calhoun County, and will remain in effect until modified or terminated by any one of the partners by mutual consent. In the absence of mutual agreement by the authorized officials from Eaton County and Calhoun County, this MOU shall end January 31, 2025.

Contact Information
Kathy-Sue Vette
Chairman
Calhoun County Board of Commissioners

Signature: _____ Date: _____

Partner
Jim Mott
Chairman
Eaton County Board of Commissioners

Signature: _____ Date: _____

EATON COUNTY BOARD OF COMMISSIONERS

MAY 15, 2024

RESOLUTION TO APPROVE THE APPOINTMENT OF THE DESIGNATED PLANNING AGENCY (DPA) FOR THE EATON COUNTY MATERIALS MANAGEMENT PLAN

Introduced by the Ways and Means Committee

WHEREAS, amendments to Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, went into effect on March 29, 2023, which requires all counties to prepare a Materials Management Plan (MMP) under the direction of the State of Michigan's Department of Environment, Great Lakes, and Energy (EGLE); and

WHEREAS, Eaton County identifies the Eaton County Board of Commissioners as the County Approval Agency (CAA), which is the entity that assumes responsibility and authority for the MMP; and

WHEREAS, the CAA must appoint an entity along with a specific individual to become the Designated Planning Agency (DPA) which shall serve as the primary governmental entity that will develop and administer the MMP.

NOW, THEREFORE BE IT RESOLVED, the Eaton County Board of Commissioners, as the CAA for the MMP, hereby appoints the Eaton County Department of Resource Recovery as the Designated Planning Agency (DPA).

BE IT FURTHER RESOLVED, that all notices to the DPA shall be directed to the Eaton County Director of Environmental Sustainability.

Eaton County Resource Recovery

Financial Report

Fiscal Year 2023/24

Through the end of April, 2024

	Original Budget	Adjusted Budget	Actual Year to Date	Projected Year to Date	Remaining Balance	% Used
Revenues						
Administration						
Private Grant	36,000	36,000	-	-	36,000.00	0%
Donations	11,000	11,000	100.00	8,000.00	3,000.00	73%
Transfers-In	81,392	81,392	61,044.00	81,392.00	-	100%
Fund Balance - Carry Over	33,395	33,395	-	-	33,395.00	0%
Total Administration Revenues	161,787	161,787	61,144.00	89,392.00	72,395.00	
Operational Revenues						
Waste Hauler Licenses	1,800	1,800	1,935.00	1,500.00	300.00	83%
Solid Waste Surcharge	330,000	330,000	173,258.26	346,767.46	(16,767.46)	105%
Agricultural Plastic Revenue	2,500	2,500	4,404.74	2,000.00	500.00	80%
Total Operational Revenues	334,300	334,300	179,598.00	350,267.46	(15,967.46)	
Total Revenues	496,087	496,087	240,742.00	439,659.46	56,427.54	89%
Expenditures						
Administration						
Personnel	192,908	192,908	69,358.03	224,844.45	(31,936.45)	117%
Supplies	3,000	3,000	1,016.10	1,741.89	1,258.11	58%
Other Services	10,104	10,104	6,784.25	16,630.14	(6,526.14)	165%
Debt Service - Vehicle Lease	-	-	53,847.00	53,847.00	(53,847.00)	0%
Transfer Out - Public Improvement	40,624	40,624	30,468.00	40,624.00	-	100%
Total Administration Expenditures	246,636	246,636	161,473.38	337,687.48	(91,051.48)	137%
Operational Expenditures						
County Projects	132,350	132,350	2,231.57	132,350.00	-	100%
Local Projects	117,101	117,101	34,074.32	117,101.00	-	100%
Total Operational Expenditures	249,451	249,451	36,305.89	249,451.00	-	100%
Total Expenditures	496,087	496,087	197,779.27	587,138.48	(91,051.48)	118%
Excess Revenues over Expenses (Net Carryover)	-	-	42,962.73	(147,479.02)	(34,623.94)	
Available Resources from Administration	(84,849)	(84,849)	(100,329.38)	(248,295.48)	163,446.48	
Available Resources from Operations	84,849	84,849	143,292.11	100,816.46	(15,967.46)	
Projected Net Carryover	-	-	42,962.73	(147,479.02)	147,479.02	
9/30/2023 Estimated Fund Balance	240,513	240,513	240,513	240,513		
Projected 9/30/2024 Fund Balance	*207,118*	*207,118*	*283,476*	*93,034*		

Eaton County Resource Recovery
Program Update
Fiscal Year 2023/24
Through the end of April, 2024

Summary of Programs	Adopted Budget	Amended Budget	YTD Transactions	Projected YTD Transactions	Amended Budget Less YTD Transactions	% Used
529 - County Programs						
Roadside Cleanup	1,900.00	1,900.00	1,220.85	1,900.00	679.15	100.0%
Household Battery Collection	11,000.00	11,000.00	-	11,000.00	11,000.00	100.0%
Scrap Tire Collection	36,000.00	36,000.00	-	36,000.00	36,000.00	100.0%
Household Hazardous Waste Collection	60,000.00	60,000.00	822.77	60,000.00	59,177.23	100.0%
Education Programs	1,000.00	1,000.00	54.95	1,000.00	945.05	100.0%
Electronic Recycling	18,000.00	18,000.00	-	18,000.00	18,000.00	100.0%
Event Supplies & Contractual	1,200.00	1,200.00	133.00	1,200.00	1,067.00	100.0%
Promotion Programs	3,250.00	3,250.00	133.00	3,250.00	3,117.00	100.0%
Total	**132,350.00**	**132,350.00**	**2,364.57**	**132,350.00**	**129,985.43**	**100.0%**

530 - SWAG Programs						
Bellevue/Olivet	17,501.00	17,501.00	5,021.34	17,501.00	12,479.66	100.0%
Charlotte Area Recycling (CARA)	28,500.00	28,500.00	10,645.94	28,500.00	17,854.06	100.0%
Delta Twp - Recycling Center	27,600.00	27,600.00	4,202.97	27,600.00	23,397.03	100.0%
City of Grand Ledge - Recycling	21,500.00	21,500.00	8,062.76	21,500.00	13,437.24	100.0%
Sunfield Recycling Center (Pilot Project)	22,000.00	22,000.00	6,141.31	22,000.00	15,858.69	100.0%
Total	**117,101.00**	**117,101.00**	**34,074.32**	**117,101.00**	**83,026.68**	**100.0%**

EATON COUNTY PARKS
133 Fitzgerald Park Dr.
Grand Ledge, MI 48837
(517) 627-7351 office
(517) 627-4234 fax
www.eatoncountyparks.org

Directors Report-May 8th, 2024

Monthly Briefing:
LB House
Pinch Road-Fox Park Access
Site Visits with Williams & Works
Dyer Kiln
Community Grants
QR Code at Fitzgerald and Lincoln Brick Parks

Lincoln Brick House: We are still waiting on the results for the asbestos samples that were taken from the old Lincoln Brick house but we did receive unofficial confirmation from the tech that multiple items will come back positive. I have reached out to a representative who works with the Michigan DNR Trust Fund Grant about possibly doing a land swap as this was asked for by Commissioner Droscha. I know some citizens have expressed concern over the possibility of removing this structure and instead have asked for us to sell it which is not possible as this violates the conditions of the DNR Trust Fund agreement. In parks, we try to repurpose everything and avoid sending items into a landfill but this structure even if moved to another park location would not be fiscally responsible as it would have to be open to the public and does not meet ADA or universal design. Also, indeed this house was once moved but that was decades ago and we do not think it will stay intact if it was moved again.

Pinch Road-Fox Park Access: During the last board meeting, an Eaton County resident expressed that an old access point to Fox Park off Pinch Road should be cleared for access. For years this section has been an issue with equestrian users, ORVs, and dirt bikes entering Fox Park. In addition to this, the road is very narrow with no parking available. For these reasons, it is not safe to open this section and Eaton County Parks does not have any plans in the future to allow this. Since this access has been closed off we have not had any issues with quads or dirt bikes accessing the park. I have provided pictures at the end of my report to provide a visual of this situation.

Parks Strategic Plan: Williams and Works the company hired to create a strategic plan for Crandell, Fox, Fitzgerald, and Lincoln Brick parks was conducted on Wednesday, April 24th. Rich Morrison an employee with the City of Grand Ledge joined us for the Fitzgerald Park portion. Everyone involved in this process was very pleased and it will be exciting to see the final product. We are working on dates and times for focus group meetings possibly in late May or the middle of June.

Dyer Kiln: We are ready to move forward with the restoration of the Dyer Kiln, I am waiting on the contractor to return their W-9 which has been provided, once I receive this the restoration work should begin almost immediately.

Eaton County Community Grant Program: We received a total of 12 applications from 9 municipalities for the 2024 Eaton County Community Grant Program, 3 projects were approved for funding. This information should be provided in your packets.

QR Codes: Ethan Jacobs has developed a QR Code system that will allow park users to use their phones and scan a park map, these are currently located at Fitzgerald and Lincoln Brick Parks. This will be expanded to all other park properties in the future. This is a great idea and will hopefully cut down costs as we will need to print fewer maps, reduce waste once paper maps are not used they typically end up in the trash, and park users will have access to park maps. Once we start adding new wayfinding signs we will also utilize a QR Code system as well.

Current Naturalist Projects

1. Revamping ABNL lessons revamping and service projects for students. So far students have cleared one patch of Garlic Mustard (14 bags)
2. Partnering with Hayes Intermediate School for a DNR Salmon release and doing a program called Intro to Aquatic Macro Invertebrates
3. Developing a volunteer database for future volunteer days for Trail maintenance and invasive species removal
4. Cleaning out Lincoln Brick Nature Center, to have this open in the Fall
5. Partnered with GL Library for Earth Day Open House and Partnering with GL Library for Fall Programming
6. Refining weekly Programs for Summer camp
7. Developing guided hikes for Lincoln Brick and Fitzgerald Parks
8. Working on a Partnership with Michigan Audubon
9. Working on a Partnership with Great Start Collaborative
10. Working on a Grant through MAEOE (Michigan Alliance for Environmental and Outdoor Education)

Mustard Garlic Cleanup

Grand Ledge Library Earth Day Display

Pinch Road

Pinch Road

EATON COUNTY PARKS

133 FITZGERALD PARK DR.
Grand Ledge, MI 48837
(517) 627-7351 office
(517) 627-4234 fax
www.eatoncountyparks.org

To: Eaton County Public Works and Planning Committee
From: Parks Community Grant Program Scoring Committee
Subject: Parks Community Grant Recommendations Cycle 2 – FY2024-25
Date: May 1, 2024

On March 1, 2024 Eaton County communities were invited to apply and participate in the second cycle of the Parks Community Grants Program. The County received twelve applications from nine communities by the deadline of April 19, 2024.

The Board Chair's Workgroup, the Grant Program Scoring Committee, met on April 29, to review applications and make award recommendations to the Public Works and Planning Committee. Members of the Scoring Committee are:

- Jim Mott (Chairperson, Board of Commissioners);
- Terrance Augustine (Commissioner);
- Brian Droscha (Commissioner);
- Brandon Haskell (Commissioner);
- Rachel Cuschieri-Murray (Executive Director, Eaton Conservation District);
- Barbara Fulton (Executive Director, Eaton Community Health);
- Tim Cattron (Member of the Eaton County Planning Commission)

The Board of Commissioners allocated $400,000 from the Parks Millage for this grant cycle, applicants requested a total of $1,733,089. Project applications were evaluated by the Scoring Committee using a predetermined scoring system, along with other established application criteria.

The Scoring Committee is recommending three applications totaling $400,000 be awarded funding. All three projects meet the intent of both the millage and the grant program. Their recommendations are:

Grant Applicant	Grant Request	Recommended Funding	Community Match	Project Cost
Oneida Township *- Development of new park on township property*	*$60,000*	*$60,000*	*$32,804*	*$92,804*
Delta Township *- New playground structure (including an ADA element) to replace existing, with surfacing and sidewalks around the perimeter at Sharp Park*	*$150,000*	*$150,000*	*$250,000*	*$400,000*
City of Eaton Rapids *- Acquisition of property with a building for a Community and Recreation Center*	*$400,000*	*$190,000*	*$495,000*	*$685,000*

EATON COUNTY PARKS

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Below is a full list of all twelve applications received.

2024 Eaton County Parks Community Grant Request Summary					
Local Unit	**Project**	**Grant Request**	**Match**	**Match %**	**Project Amount**
Bellevue Village	Village of Bellevue Jefferson Multi-Season Sports Park	$154,640	$0	0%	$154,640
Delta Township	Sharp Park ADA Playground	$150,000	$250,000	63%	$400,000
Eaton Rapids, City 1	Community & Recreation Center	$400,000	$285,000	42%	$685,000
Eaton Rapids, City 2	Eaton Rapids Downtown Sound	$58,671	$30,000	34%	$88,671
Eaton Rapids, City 3	ER Dog Park and Bridge Repair	$66,778	$10,000	13%	$76,778
Eaton Rapids Twp	Oak Ridge Park Pavilion/Restroom	$72,500	$0	0%	$72,500
Grand Ledge, City 1	Grand Ledge Ball Park Phase II	$346,500	$149,000	30%	$495,500
Grand Ledge, City 2	Grand Ledge Ball Park Permanent ADA Restrooms	$185,000	$99,578	35%	$284,578
Hamlin Township	Hamlin Smithville Park	$10,000	$5,000	33%	$15,000
Olivet, City	Rotary Park Structure Replacement	$29,000	$0	0%	$29,000
Oneida Township	Deer Park	$60,000	$30,000	32%	$92,804
Vermontville, Village	Third Street Lions Park	$200,000	$0	0%	$200,000
Totals		**$1,733,089**	**$858,578**		**$2,594,471**

EATON COUNTY BOARD OF COMMISSIONERS

MAY 15, 2024

RESOLUTION TO APPROVE 2024 (CYCLE 2) EATON COUNTY PARKS COMMUNITY GRANT PROGRAM RECOMMENDATIONS

Introduced by the Public Works and Planning Committee

WHEREAS, the Eaton County Parks and Recreation Millage was passed by voters on November 8, 2022; and

WHEREAS, a portion of these funds have been set aside for the development of a competitive grant for communities within Eaton County; and

WHEREAS, twelve grant applications (from nine communities) were submitted to the Eaton County Parks Department for review by the Grant Program Scoring Committee, and

WHEREAS, the Grant Program Scoring Committee recommends the allocation of the available $400,000 in grant funds for three applications; and

WHEREAS, the Public Works and Planning Committee reviewed the recommended grant awards at its regular meeting held on May 8, 2024.

NOW, THEREFORE BE IT RESOLVED, the following grant awards be approved for the period of July 1, 2024 through September 30, 2025; and

Grant Applicant	Grant Request	Recommended Grant Funds
Oneida Township	*$60,000*	*$60,000*
Delta Township	*$150,000*	*$150,000*
City of Eaton Rapids	*$400,000*	*$190,000*
TOTAL	***$610,000***	***$400,000***

BE IT FURTHER RESOLVED, the Chairperson of the Board of Commissioners be authorized to sign the necessary grant agreements; and

BE IT FURTHER RESOLVED, the Controller's Office is authorized to reimburse the grantees based upon submission of documented expenses that are consistent with the approved grant budget.

Eaton County Parks and Recreation

Financial Report

Fiscal Year 2023/24

Through the end of April, 2024

	Original Budget	Adjusted Budget	Actual Year to Date	Projected Year to Date	Remaining Balance	% Used
Revenues						
Administration						
Property Tax Revenues	2,209,922	2,209,922	3,013.96	2,209,922.00	-	100%
Grant Revenues	-	-	-	-	-	0%
Donations	1,200	1,200	303.00	909.00	291.00	76%
Transfers-In	-	-	-	-	-	0%
Fund Balance - Carry Over	(1,168,730)	(563,372)	-	-	(563,372.00)	0%
Total Administration Revenues	1,042,392	1,647,750	3,316.96	2,210,831.00	(563,081.00)	
Operational Revenues						
Site Fees	12,310	12,310	6,150.00	10,542.86	1,767.14	86%
Naturalist & Special Program Revenues	31,900	31,900	26,400.61	73,361.46	(41,461.46)	230%
Farm Rental Income	17,700	17,700	13,240.87	69,963.48	(52,263.48)	395%
Total Operational Revenues	61,910	61,910	45,791.48	153,867.80	(91,957.80)	
Total Revenues	1,104,302	1,709,660	49,108.44	2,364,698.80	(655,038.80)	138%
Expenditures						
Administration						
Personnel	628,368	628,368	317,247.80	851,596.59	(223,228.59)	136%
Supplies	36,057	36,057	11,074.24	17,984.41	18,072.59	50%
Other Services	51,604	51,604	21,730.00	17,251.43	34,352.57	33%
Debt Service (Vehicle Lease)	17,650	17,650	16,627.44	33,254.88	(15,604.88)	188%
Transfers Out - General Fund	-	-	-	-	-	0%
Total Administration Expenditures	733,679	733,679	366,679.48	920,087.31	(186,408.31)	125%
Operational Expenditures						
Park Specific Expenses (less personnel)	203,123	203,123	84,669.82	147,710.58	55,412.42	73%
Capital and One Time Purchases	167,500	167,500	98,114.30	165,057.00	2,443.00	99%
Grant Program Expenses	-	605,358	119,218.26	605,358.00	-	100%
Total Operational Expenditures	370,623	975,981	302,002.38	918,125.58	57,855.42	94%
Total Expenditures	1,104,302	1,709,660	668,681.86	1,838,212.89	(128,552.89)	108%
Excess Revenues over Expenses (Net Carryover)	-	-	(619,573.42)	526,485.91	(783,591.69)	
9/30/2023 Estimated Fund Balance	2,037,796	2,037,796	2,037,796	2,037,796		
Projected 9/30/2024 Fund Balance	*3,206,526*	*2,601,168*	*1,418,223*	*2,564,282*		

Eaton County Parks and Recreation
Program Update
Fiscal Year 2023/24
Through the end of April, 2024

	Original Budget	Adjusted Budget	Actual Year to Date	Projected Year to Date	Remaining Balance	% Used
Park Specific Expenses (less personnel)						
Fitzgerald Park	97,423	97,423	52,005.94	89,153.04	8,269.96	91.5%
Fox Park	47,000	47,000	14,468.33	24,802.86	22,197.14	52.8%
Bellevue Area Parks	2,000	2,000	371.42	742.84	1,257.16	37.1%
Lincoln Park	39,700	39,700	14,242.18	24,415.17	15,284.83	61.5%
Crandell Park	17,000	17,000	3,581.95	8,596.68	8,403.32	50.6%
Total Park Specific Expenses	203,123	203,123	84,669.82	147,710.58	55,412.42	72.7%
Capital and One Time Purchases						
Admin - Equipment Trailer	24,000	24,000	-	24,000.00	-	100.0%
Admin - Bobcat	84,000	84,000	81,982.30	84,000.00	-	100.0%
Admin - Zero Turn Mower	16,000	16,000	13,557.00	13,557.00	2,443.00	84.7%
Lincoln Park - HVAC Replacement/Repairs	25,000	25,000	-	25,000.00	-	100.0%
Lincoln Park - Bathroom Auto Locks	5,000	5,000	-	5,000.00	-	100.0%
Crandell Park - Kayak Dock Extension	8,500	8,500	-	8,500.00	-	100.0%
Crandell Park - Bathroom Auto Locks	5,000	5,000	2,575.00	5,000.00	-	100.0%
Total Capital and One Time Purchases	573,746	573,746	267,453.95	460,478.16	113,267.84	80.3%
Grant Programs						
Eaton Rapids - Mill Pointe Park Pavillion	-	39,200	3,559.00	39,200.00	-	100.0%
City of Charlotte - Library Picnic Area	-	5,000	5,000.00	5,000.00	-	100.0%
Delta Township - Webster Bridge Design	-	150,750	18,752.13	150,750.00	-	100.0%
Grand Ledge - Grand Ledge Ball Park Phase I	-	212,694	-	212,694.00	-	100.0%
Hamlin Township - Hamlin Park Picnic & Play	-	87,157	87,157.13	87,157.00	-	100.0%
Olivet - Walking Bridge Fencing	-	5,000	4,750.00	5,000.00	-	100.0%
Vermontville - Creating Safe Fall Space	-	35,000	-	35,000.00	-	100.0%
Potterville - Sunset Hills Park	-	65,557	-	65,557.00	-	100.0%
Signage	-	5,000	-	5,000.00	-	100.0%
Total Grant Programs	-	605,358	119,218.26	605,358.00	-	100.0%

STRATA ENVIRONMENTAL SERVICES, INC.

Via Email

March 29, 2024

Chad Powers
Director
Eaton County Physical Plant
1045 Independence Boulevard
Charlotte, MI 48813

Re: **Semi-Annual Groundwater Monitoring – March 2024**
Eaton County Landfill

Dear Mr. Powers:

This letter has been prepared in association with the first semi-annual groundwater and surface water sampling event of 2024 at the referenced site. Sampling was conducted on March 12, 13, and 15, 2024. During this sampling event, static water levels were measured in 16 monitoring wells, groundwater samples were collected from 14 monitoring wells (MW-2sr, MW-2dr, MW-3, MW-7r, MW-8s, MW-8dr, MW-10s, MW-10dr, MW-15sr, MW-15dr, MW-17sr, MW-17dr, MW-18sr, and MW-19s), and two surface water samples (SW-1 and SW-2) were obtained. A groundwater sample was not collected from MW-16 because the well has deteriorated and does not recharge sufficiently during the sampling event to allow for the collection of a representative sample. Monitor well MW-12 was not sampled because this well does not appear to be part of the same hydrogeologic units being monitored throughout the site. The water level at this location is significantly lower than the wells located hydraulically downgradient from it.

Strata personnel obtained static water level measurements from 16 monitoring wells on March 12, 2024. A summary of the groundwater elevation data is presented in Table 1 (Attachment 1). Prior to sampling, a volume of groundwater was purged from each monitoring well. Monitoring wells were purged until a minimum of 3 casing volumes of groundwater were removed from each well, field parameters (temperature, specific conductance, and pH) generally stabilized to within 5% of successive readings, or until monitoring wells had bailed dry at least 3 times and field parameters generally stabilized. Temperature, specific conductance, and pH measurements were obtained using a Hanna Instruments combination meter. This information is included on the "Groundwater Monitoring Field Data Sheets" included as Attachment 2. All groundwater samples submitted for metal analyses were field filtered with Geotech, in-line, 0.45-micron membrane filters. Following collection, the samples were stored in a cooler on ice until being delivered to Fibertec Environmental Services, in Holt, Michigan, following chain-of-custody protocol. Samples were submitted for analysis of the semi-annual suite of parameters. The analytical reports and chain-of-custody records are included as Attachment 3.

Groundwater surface elevation data (Attachment 1) for the shallow and deep wells were plotted on a site map and contoured using the computer code SURFER®. The resultant groundwater surface elevation contour maps are presented as Figure 1 (shallow wells) and Figure 2 (deep wells). Examination of the elevation data/contours on these figures indicates groundwater migrates toward the north/northwest, which is consistent with historic data.

Table 2 (Attachment 4) is a summary of the analytical results from the monitor well and surface water samples and a comparison to applicable Generic Residential Cleanup Criteria (GRCC). In general, results are similar to previous sampling events. Volatile organic compounds (VOCs) were only detected at or above their compound-specific reporting limits in the groundwater samples from MW-15sr, MW-15dr, MW-17sr, and MW-17dr. The groundwater sample from MW-15sr contained 1,1-dichloroethane (3.4 µg/L), 1,2-dichloroethane (1.2 µg/L), cis-1,2-dichloroethene (58 µg/L), diethyl ether (16 µg/L), and vinyl chloride (1.5 µg/L). Of these concentrations, diethyl ether is the only

compound that exceeded its Drinking Water (DW) GRCC of 10 µg/L. The samples from MW-15dr and MW-17sr contained vinyl chloride at concentrations of 1.2 µg/L and 2.4 µg/L, respectively. The vinyl chloride concentration from MW-17sr exceeds its DW GRCC of 2.0 µg/L. Monitor well MW-17dr contained dichlorodifluoromethane (7.2 µg/L), diethyl ether (14 µg/L), and vinyl chloride (11 µg/L). Both the diethyl ether and vinyl chloride concentrations are in excess of their respective DW GRCC. It should be noted that both MW-17sr and MW-17dr are located hydraulically downgradient from MW-15sr.

Inorganic and metal analytical results for groundwater samples indicate that the reported concentrations of all parameters, except chromium, iron, manganese, and total dissolved solids (TDS), are either below their respective reporting limits and/or GRCC, if published. Chromium was only detected in the sample from MW-15dr at a concentration of 27 µg/L, which exceeds the compound's Groundwater/Surface Water Interface (GSI) GRCC (11 µg/L). Iron was detected in all groundwater samples (except the samples from MW-8s, MW-8dr, and MW-15sr) at concentrations that range from 130 µg/L (MW-3) to 5,600 µg/L (MW-17dr). The reported iron concentrations exceed its DW GRCC (300 µg/L) in all the monitor well samples in which it was detected except for MW-3 (130 µg/L). It should be noted that the 300 µg/L DW GRCC for iron is an aesthetic criterion; the health based DW GRCC for iron is 2,000 µg/L. Magnesium was detected in all groundwater samples above its reporting limit, however no concentration exceeded its DW GRCC of 400,000 µg/L. Manganese was present in all groundwater samples (except MW-3, MW-8s, and MW-10s) at concentrations that range from 58 µg/L (MW-15sr) to 270 µg/L (MW-8dr). All reported manganese concentrations in the groundwater samples exceed its aesthetic DW GRCC of 50 µg/L. The health based DW GRCC for manganese is 860 µg/L. All groundwater water samples contained TDS at concentrations that range from 310,000 µg/L (MW-8s) to 580,000 µg/L (MW-17dr). The TDS concentrations in MW-2dr (530,000 µg/L), MW-10dr (560,000 µg/L), MW-17dr (580,000 µg/L), MW-18sr (510,000 µg/L), and MW-19s (560,000 µg/L) exceed their DW and GSI GRCC of 500,000 µg/L.

Surface water quality results indicate that no VOCs were detected this event. Both surface water samples (SW-1 and SW-2) contain inorganic and metal analytes at concentrations above compound-specific reporting limits. The reported surface water concentrations were compared to Rule 57 criteria. Because the surface water traversing across the site is not used as a drinking water source, Strata compared the results to the Non-Drink (ND) Human Noncancer Value (HNV) and the Human Cancer Value (HCV), as well as the Wildlife Value (WV). A comparison was not made to the Aquatic Life Values. None of the reported concentrations in SW-1 and SW-2 exceed ND HNV, ND HCV, or WV.

The next semi-annual sampling event is scheduled for September 2024. The aforementioned wells and two surface water locations will be included in the monitoring.

Should you have any questions or comments, please do not hesitate to contact our office at (517) 676-6900.

Sincerely,

STRATA ENVIRONMENTAL SERVICES, INC.

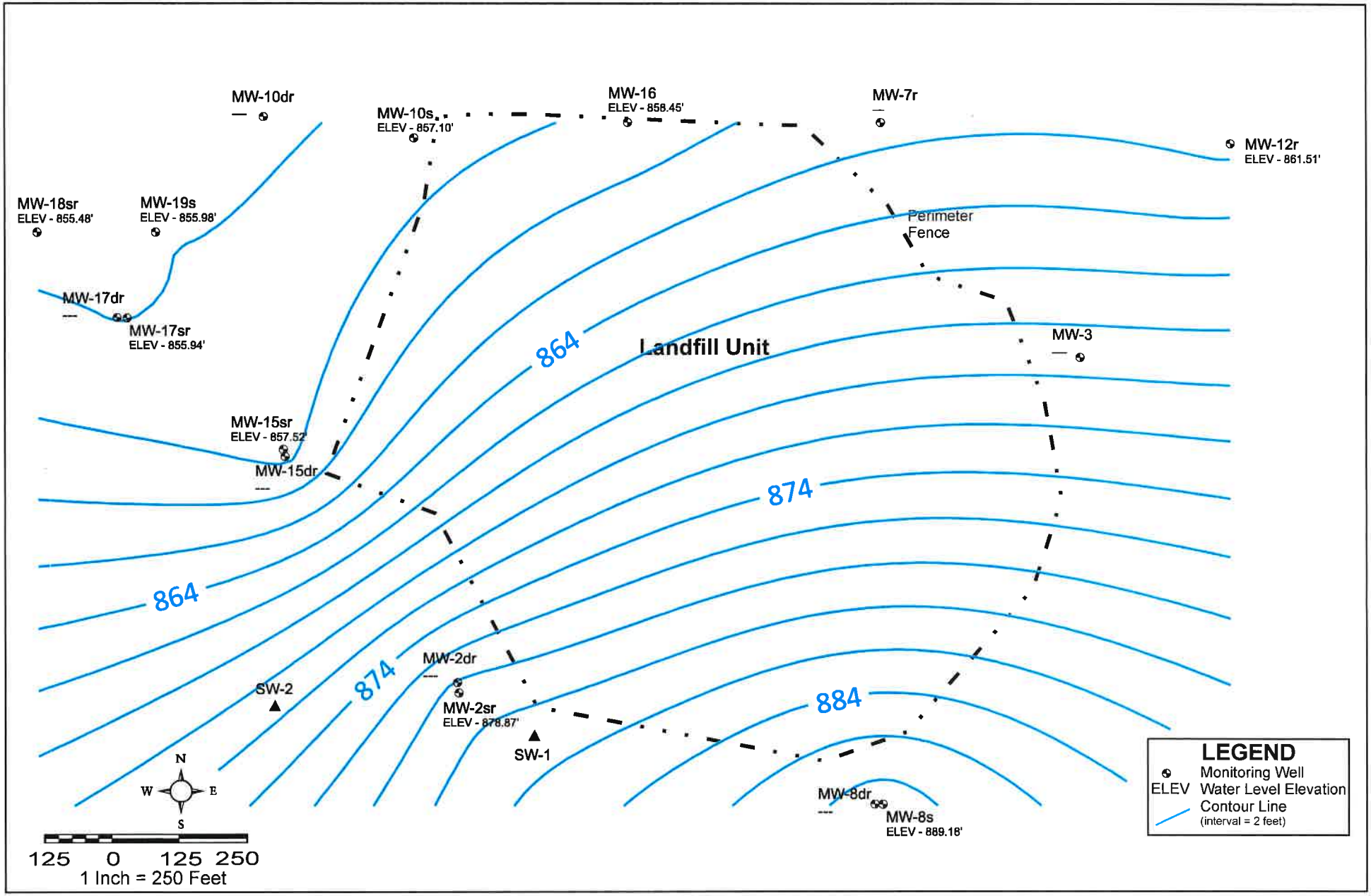
Sophia V. Serafini
Environmental Professional

Encls.

Cc: Mr. Evin Maguire (EGLE)

R.B. MCS (SS)
9261422L.095

FIGURES

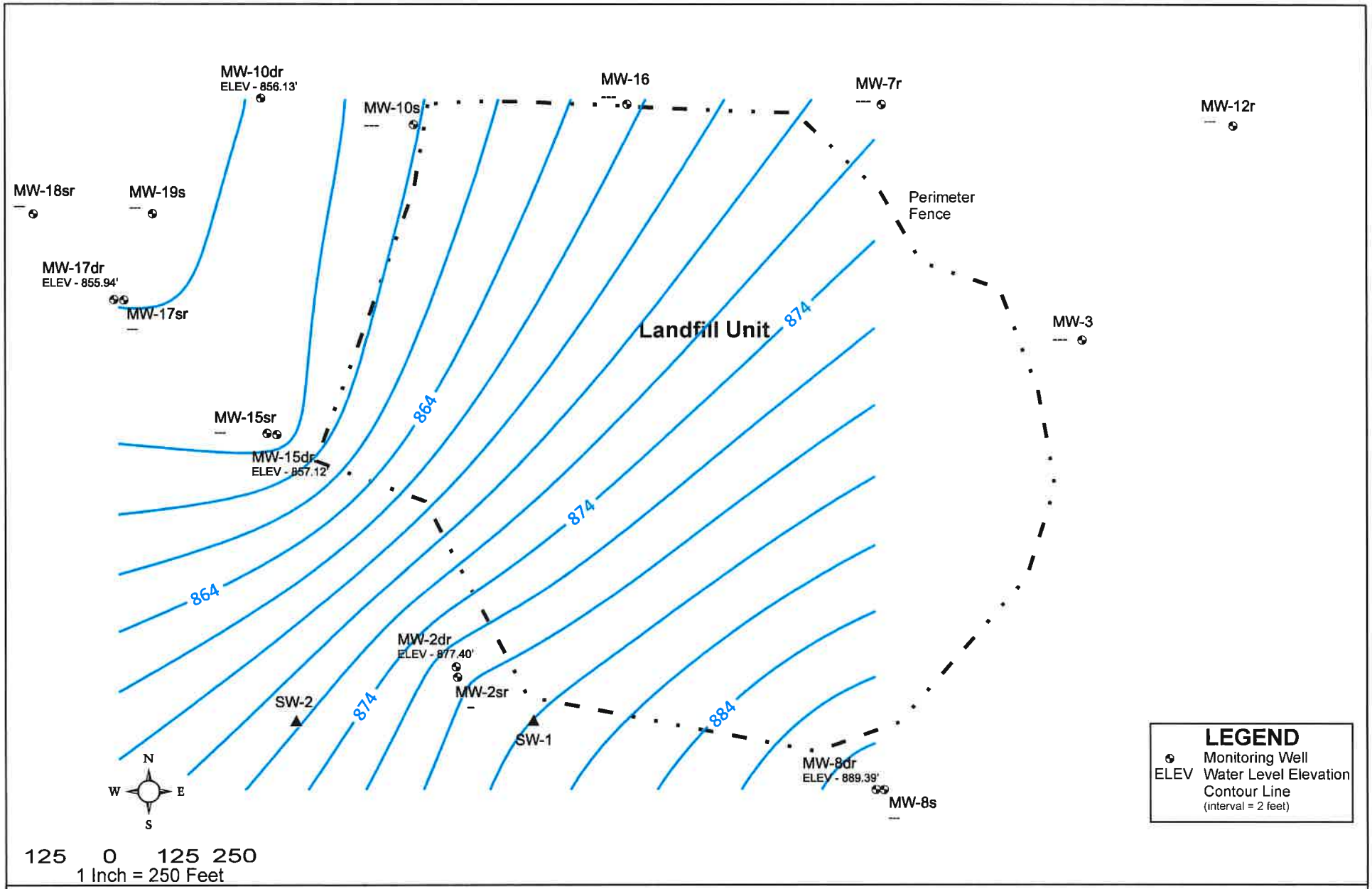


SEMI-ANNUAL GROUNDWATER MONITORING
Eaton County Landfill
Section 20, Benton Township
Eaton County, Michigan

STRATA ENVIRONMENTAL SERVICES, INC.

FIGURE 1
Groundwater Surface Elevation
Shallow Wells
(March 12, 2024)

926-1422



SEMI-ANNUAL GROUNDWATER MONITORING
Eaton County Landfill
Section 20, Benton Township
Eaton County, Michigan

STRATA ENVIRONMENTAL SERVICES, INC.

FIGURE 2
Groundwater Surface Elevation
Deep Wells
(March 12, 2024)

926-1422

ATTACHMENT 1

TABLE 1. Groundwater Elevation Data

Project Name: Eaton County Landfill
Project Number: 926-1422

Well I.D.	Date of Measurement	Ground Elevation	Measuring Point	Measuring Point Above G.L.	Measuring Point Elevation	Depth to Water	Water Level Elevation	Comments
MW-2sr	3/12/2024	---	TOC	---	883.41	4.54	878.87	
MW-2dr	3/12/2024	---	TOC	---	883.42	6.02	877.40	
MW-3	3/12/2024	---	TOC	---	912.92	3.19	909.73	
MW-7r	3/12/2024	---	TOC	---	889.91	11.76	878.15	
MW-8s	3/12/2024	---	TOC	---	902.75	13.57	889.18	
MW-8dr	3/12/2024	---	TOC	---	902.52	13.13	889.39	
MW-10s	3/12/2024	---	TOC	---	867.69	10.59	857.10	
MW-10dr	3/12/2024	---	TOC	---	863.74	7.61	856.13	
MW-12r	3/12/2024	---	TOC	---	911.07	49.56	861.51	
MW-15sr	3/12/2024	---	TOC	---	869.61	12.09	857.52	
MW-15dr	3/12/2024	---	TOC	---	870.16	13.04	857.12	
MW-16	3/12/2024	---	TOC	---	876.51	18.06	858.45	
MW-17sr	3/12/2024	---	TOC	---	860.41	4.47	855.94	
MW-17dr	3/12/2024	---	TOC	---	860.53	4.59	855.94	
MW-18sr	3/12/2024	---	TOC	---	871.32	15.84	855.48	
MW-19s	3/12/2024	---	TOC	---	860.87	4.89	855.98	

All measurements in feet unless otherwise noted
---: Not Available

ATTACHMENT 2

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-2sr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **(517) 543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 883.41
Static Water Level (ft.) 4.54
Ground Water Elevation: 878.87 feet
Well Depth:TOC Reference 31.00
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 1040
Volume of Water in Casing: 4.41 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 13.23 gals.
Purge Water Appearance: grey-brown + murky
Fate of Purge Water: drum [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 1100
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 53°F
Sample Appearance: faintly cloudy

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 643 umhos/cm
Temperature °C: 12.0
pH: 7.43

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
4.0 gal.	7.45	10.8	644
8.0 gal.	7.46	11.6	647
12.0 gal.	7.43	11.9	644
16.0 gal.	7.43	12.0	643
____ gal.			
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample # 7

Pump rate set @ ~125

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-2dr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **(517) 543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 883.42
Static Water Level (ft.) 6.02
Ground Water Elevation: 877.40 feet
Well Depth:TOC Reference 54.50
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 1110
Volume of Water in Casing: 8.08 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 24.24 gals.
Purge Water Appearance: clear to dark grey
Fate of Purge Water: + murky [X] [ ] Ground 10'+ Contained

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 1140
Field Filtration?: Yes [X] No [ ]
Weather: sunny 56°F
Sample Appearance: light grey + cloudy

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 819 umhos/cm
Temperature °C: 12.0
pH: 7.22

PURGE DATA:

Volume Removed		pH	Temperature °C	Specific Conductance micro siemens
5.0	gal.	7.38	11.8	806
10.0	gal.	7.22	11.8	826
15.0	gal.	7.22	11.8	830
20.0	gal.	7.23	11.9	829
25.0	gal.	7.21	12.0	825
30.0	gal.	7.22	12.0	819
	gal.			
	gal.			

COMMENTS: Sample # 8

Pump rate set @ ~125

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-3** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 912.92
Static Water Level (ft.) 3.19
Ground Water Elevation: 909.73 feet
Well Depth:TOC Reference 17.20

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 0935
Volume of Water in Casing: 2.34 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 7.01 gals.
Purge Water Appearance: light brown & cloudy
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [X] Disposable Bailer
Purge Method: [ ] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [ ] No [X]
Type: Liquinox & Water Wash [ ] Water Rinse [ ] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 0950
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 49°F
Sample Appearance: faintly cloudy

Sampling Method: [X] Bailer [X] Pump - peristaltic
Decon?: Yes [ ] No [X]
Sp. Conductance: 645 umhos/cm
Temperature °C: 7.6
pH: 7.34

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
1.5 gal.	7.40	7.0	667
3.0 gal.	7.41	7.3	659
4.5 gal.	7.38	7.6	651
6.0 gal.	7.36	7.7	647
7.5 gal.	7.34	7.6	645
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample #4

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-7r** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 889.91
Static Water Level (ft.) 11.76
Ground Water Elevation: 878.15 feet
Well Depth:TOC Reference 27'
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 1000
Volume of Water in Casing: 2.54 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 7.62 gals.
Purge Water Appearance: light rust to
Fate of Purge Water: light brown + cloudy [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 1010
Field Filtration?: In line filter Yes [X] No [ ]
Weather: sunny 52°F
Sample Appearance: faintly cloudy

Sampling Method: [X] Bailer → [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 615 umhos/cm
Temperature °C: 9.7
pH: 7.15

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
3.0 gal.	7.37	9.1	518
6.0 gal.	7.20	9.5	587
9.0 gal.	7.17	9.6	601
12.0 gal.	7.15	9.7	615
____ gal.			
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample # 5

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-8s** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 902.75
Static Water Level (ft.) 13.57
Ground Water Elevation: 889.18 feet
Well Depth:TOC Reference 16.85
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 0915
Volume of Water in Casing: 0.55 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 1.64 gals.
Purge Water Appearance: light grey-brown + cloudy
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [X] Disposable Bailer
Purge Method: [ ] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [ ] No [X]
Type: Liquinox & Water Wash [ ]
Water Rinse [ ] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 0925
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 48°F
Sample Appearance: light grey-brown + cloudy

Sampling Method: [X] Bailer [X] Pump - peristaltic
Decon?: Yes [ ] No [X]
Sp. Conductance: 528 umhos/cm
Temperature °C: 8.2
pH: 7.68

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
0.5 gal.	7.72	8.2	529
1.0 gal.	7.70	8.3	528
1.5 gal.	7.69	8.3	526
2.0 gal.	7.68	8.2	528
____ gal.			
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample # 3

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-8dr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 902.52
Static Water Level (ft.) 16.13
Ground Water Elevation: 886.39 feet
Well Depth: TOC Reference 59'
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 1020
Volume of Water in Casing: 7.15 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 21.44 gals.
Purge Water Appearance: clear
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 1030
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 53°F
Sample Appearance: clear

Sampling Method: [ ] Bailer [X] Pump
Decon? Yes [X] No [ ]
Sp. Conductance: 748 umhos/cm
Temperature °C: 10.2
pH: 7.36

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal.	7.39	10.2	737
10.0 gal.	7.40	10.2	747
15.0 gal.	7.37	10.2	748
20.0 gal.	7.35	10.2	748
25.0 gal.	7.36	10.2	748
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample #16

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-10s** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 867.69
Static Water Level (ft.) 10.59
Ground Water Elevation: 857.10 feet
Well Depth:TOC Reference 36.10
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-15-24
Time of Purge: 0915
Volume of Water in Casing: 4.25 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 12.76 gals.
Purge Water Appearance: faintly milky
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 0925
Field Filtration?: In line filter Yes [X] No [ ]
Weather: sunny 38°F
Sample Appearance: clear

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 867 umhos/cm
Temperature °C: 10.4
pH: 7.24

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
4.0 gal.	7.38	10.0	864
8.0 gal.	7.29	10.2	867
12.0 gal.	7.26	10.4	866
16.0 gal.	7.24	10.4	867
____ gal.			
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample # 10

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-10dr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **(517) 543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 863.74
Static Water Level (ft.) 7.61
Ground Water Elevation: 856.13 feet
Well Depth:TOC Reference 42.00

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-15-24
Time of Purge: 1115
Volume of Water in Casing: 5.73 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 17.20 gals.
Purge Water Appearance: light grey + cloudy
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 1145
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 42°F
Sample Appearance: clear

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 821 umhos/cm
Temperature °C: 10.3
pH: 7.34

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal.	7.53	10.2	823
10.0 gal.	7.39	10.2	820
15.0 gal.	7.35	10.4	818
20.0 gal.	7.34	10.3	821
____ gal.			
____ gal.			
____ gal.			
____ gal.			

COMMENTS: Sample #14

Pump rate set @ ~120

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-15sr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 869.61
Static Water Level (ft.): 12.09
Ground Water Elevation: 857.52 feet
Well Depth:TOC Reference: 43.00
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: ① 3-13-24 ② 3-15-24
Time of Purge: ① 0905, 1210 ② 0905, 1205
Volume of Water in Casing: 5.15 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 15.46 gals.
Purge Water Appearance: dark grey + murky
Fate of Purge Water: [X] [ ]
Ground 10'+ Contained

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 1210
Field Filtration? Inline filter Yes [X] No [ ]
Weather: sunny 45°F
Sample Appearance: dark grey + murky

Sampling Method: [ ] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 834 umhos/cm
Temperature °C: 12.0
pH: 7.53

PURGE DATA:

	Volume Removed		pH	Temperature °C	Specific Conductance micro siemens
①	2.5	gal.	7.54	10.7	681
	5.0	gal. dry	7.59	10.3	662
	7.5	gal. dry	7.48	11.8	702
		gal.			
②	10.0	gal.	7.77	9.4	771
	12.5	gal. dry	7.62	9.6	732
	13.5	gal.	7.53	12.0	834
		gal.			

COMMENTS: sample # 16

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-15dr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 870.16
Static Water Level (ft.) 13.04
Ground Water Elevation: 857.12 feet
Well Depth:TOC Reference 58.00

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-13-24
Time of Purge: 1150
Volume of Water in Casing: 7.49 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 22.48 gals.
Purge Water Appearance: clear to grey +
Fate of Purge Water: cloudy [X] [ ] Ground 10'+ Contained

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-13-24
Time of Sampling: 1205
Field Filtration?: Yes [X] No [ ]
Weather: sunny 57°F
Sample Appearance: clear

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 640 umhos/cm
Temperature °C: 11.5
pH: 7.25

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal.	7.40	11.7	612
10.0 gal.	7.27	11.6	649
15.0 gal.	7.26	11.5	644
20.0 gal.	7.25	11.5	643
25.0 gal.	7.25	11.6	640
30.0 gal.	7.25	11.5	640
____ gal.			
____ gal.			

COMMENTS: Sample # 9

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-17sr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 860.41
Static Water Level (ft.) 4.47
Ground Water Elevation: 855.94 feet
Well Depth:TOC Reference 43.00
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-15-24
Time of Purge: 0935
Volume of Water in Casing: 6.42 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 19.27 gals.
Purge Water Appearance: faintly milky
Fate of Purge Water: to grey + cloudy [X] Ground [ ] 10'+ Contained

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 0950
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 38°F
Sample Appearance: clear

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 715 umhos/cm
Temperature °C: 11.1
pH: 7.10

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal.	7.28	10.3	713
10.0 gal.	7.15	10.9	721
15.0 gal.	7.14	11.0	719
20.0 gal.	7.12	11.0	721
25.0 gal.	7.10	11.1	715
____ gal.			
____ gal.			
____ gal.			

COMMENTS: Sample # 11

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-17dr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 860.53
Static Water Level (ft.) 4.59
Ground Water Elevation: 855.94 feet
Well Depth:TOC Reference 59.00
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-15-24
Time of Purge: 0955
Volume of Water in Casing 9.07 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 27.21 gals.
Purge Water Appearance: grey-brown & murky
Fate of Purge Water: [X] [ ]
Ground 10'+ Contained

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 1010
Field Filtration?: Inline Filter Yes [X] No [ ]
Weather: sunny 39°F
Sample Appearance: faintly milky

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 881 umhos/cm
Temperature °C: 11.0
pH: 6.88

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal.	6.94	10.5	880
10.0 gal.	6.91	10.9	882
15.0 gal.	6.89	10.9	882
20.0 gal.	6.87	10.9	887
25.0 gal.	6.87	11.0	882
30.0 gal.	6.88	11.0	881
____ gal.			
____ gal.			

COMMENTS: Sample # 12

Pump rate set @ ~200

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-18sr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **(517) 543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 871.32
Static Water Level (ft.) 15.84
Ground Water Elevation: 855.48 feet
Well Depth:TOC Reference 45.00

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-15-24
Time of Purge: 1015
Volume of Water in Casing: 4.86 gals.
Purge Volume 3X: [X] 5X [ ] Other [ ] 14.58 gals.
Purge Water Appearance: light rust to dark grey-brown + cloudy murky
Fate of Purge Water: [X] Ground [ ] 10'+ Contained

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [X] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 1100
Field Filtration?: In line filter Yes [X] No [ ]
Weather: sunny 40°F
Sample Appearance: dark grey-brown + murky

Sampling Method: [X] Bailer [X] Pump
Decon?: Yes [X] No [ ]
Sp. Conductance: 765 umhos/cm
Temperature °C: 10.8
pH: 7.38

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal	7.41	10.3	762
10.0 gal	7.39	10.8	753
15.0 gal	7.38	10.8	758
20.0 gal	7.38	10.8	765
____ gal			
____ gal			
____ gal			
____ gal			

COMMENTS: sample #13
Started pumping @ high rate + had to keep lowering pump, pump rate set @ ~145, dried up + allowed to recharge for ~5 min, pump rate rate set @ ~145

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-19s** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone:)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 860.87
Static Water Level (ft.) 4.89
Ground Water Elevation: 855.98 feet
Well Depth:TOC Reference 39.20

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-15-24
Time of Purge: 1150
Volume of Water in Casing: 5.72 gals.
Purge Volume 3X [X] 5X [ ] Other [ ] 17.16 gals.
Purge Water Appearance: dark rust to brown + murky
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [X] S.S. Submersible Pump
Purge Method: [ ] Peristaltic Pump
Decon: Yes [✓] No [ ]
Type: Liquinox & Water Wash [X]
Water Rinse [X] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-15-24
Time of Sampling: 1200
Field Filtration?: Inline filter Yes [X] No [ ]
Weather: sunny 44°F
Sample Appearance: clear

Sampling Method [✓] Bailer [✓] Pump
Decon?: Yes [✓] No [ ]
Sp. Conductance: 845 umhos/cm
Temperature °C: 11.2
pH: 7.14

PURGE DATA:

Volume Removed	pH	Temperature °C	Specific Conductance micro siemens
5.0 gal.	7.29	10.4	827
10.0 gal.	7.17	10.9	850
15.0 gal.	7.16	11.1	847
20.0 gal.	7.14	11.2	845
____ gal.			
____ gal.			
____ gal.			
____ gal.			

COMMENTS: sample #15

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: **Eaton County Landfill**

Well Number: **SW-1** Period of Sampling **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone:)

Personnel Present: SVS/NP

SAMPLING DATA: Date of Sampling: 3-12-24

Time of Sampling: 1200 Sampling Method: Dip bottles

Field Filtration?: **Yes** [ ] **No** [X] Decon?: **Yes** [ ] **No** [X]

Weather: sunny **Sp. Conductance:** 914 uS

Sample Appearance: faintly cloudy almost clear **Temperature °C:** 10.1

pH: 7.23

COMMENTS: sample #1

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: **Eaton County Landfill**

Well Number: **SW-2** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

SAMPLING DATA: Date of Sampling: 3-12-24

Time of Sampling: 1210 Sampling Method: Dip bottles

Field Filtration?: **Yes** [ ] **No** [X] Decon?: **Yes** [ ] **No** [X]

Weather: sunny **Sp. Conductance:** 529 uS

Sample Appearance: faint yellow + cloudy **Temperature °C:** 8.6

pH: 7.81

COMMENTS: sample #2

ATTACHMENT 3

Fibertec
environmental
services

A METIRI GROUP COMPANY

Thursday, March 21, 2024

Fibertec Project Number:	A20046 Amended
Project Identification:	Eaton County (926-1422) /926-1422
Submittal Date:	03/12/2024

Mr. Mike Serafini
Strata Environmental Services, Inc.
538 W. Ash Street
Mason, MI 48854

Dear Mr. Serafini,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

This report has been amedned to correct the sample descriptor for sample -002 and replaces the report issued on March 19th, 2024.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Bailey Welch

By Bailey Welch at 9:53 AM, Mar 21, 2024

For Heather L. Smith
Director of Laboratory Operations

Enclosures

Fibertec environmental services
A METIRI GROUP COMPANY

Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-001

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-1**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**1**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Total Recoverable **Aliquot ID: A20046-001D** **Matrix: Surface Water**
Method: EPA 0200.8 (Total Recoverable)/EPA 0200.8 **Description: SW-1**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
4. Calcium	**200000**	L+	µg/L	9600	400	03/18/24	PT24C15D	03/18/24	T424C18B	JJS
5. Chromium	U		µg/L	4.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
7. Iron	**1200**		µg/L	100	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
9. Magnesium	**36000**		µg/L	3200	400	03/18/24	PT24C15D	03/18/24	T424C18B	JJS
10. Manganese	**170**		µg/L	50	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
12. Potassium	**6300**		µg/L	1000	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
14. Sodium	**19000**		µg/L	1000	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS

Inorganic Anions by IC **Aliquot ID: A20046-001** **Matrix: Surface Water**
Method: EPA 0300.0 **Description: SW-1**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Chloride	**19000**		µg/L	10000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	**410**		µg/L	23	1.0	03/13/24 12:26	PW24C13C	03/13/24 12:26	W424C13A	MJS
3. Nitrate-N + Nitrite-N	**440**		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	**36**		µg/L	30	1.0	03/13/24 12:26	PW24C13C	03/13/24 12:26	W424C13A	MJS
5. Sulfate	**6800**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Phosphorus, Total **Aliquot ID: A20046-001B** **Matrix: Surface Water**
Method: EPA 0365.3 **Description: SW-1**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phosphorus	U		µg/L	10	1.0	NA	NA	03/13/24	W324C13B	CM

Fibertec environmental services
A METRIX GROUP COMPANY

Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-001

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-1**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**1**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phenolics, Total **Aliquot ID: A20046-001C** **Matrix: Surface Water**
Method: EPA 0420.1 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/15/24	W224C15A	EZ

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20046-001E** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50.0	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
2. Acrylonitrile	U		µg/L	2.32	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
3. Benzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 4. Bromobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 5. Bromochloromethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
6. Bromodichloromethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 7. Bromoform (SIM)	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
8. Bromomethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
9. 2-Butanone	U		µg/L	25.0	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 10. n-Butylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 11. sec-Butylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 12. tert-Butylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 13. Carbon Disulfide	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
14. Carbon Tetrachloride	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
15. Chlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
16. Chloroethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
17. Chloroform	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
18. Chloromethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 19. 2-Chlorotoluene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
21. Dibromochloromethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 22. Dibromomethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 26. Dichlorodifluoromethane	U	V+	µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-001

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-1**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**1**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20046-001E** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: SW-1**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
31. trans-1,2-Dichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 33. 1,3-Dichloropropane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.500	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.746	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 37. Diethyl Ether	U		µg/L	10.0	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
38. Ethylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 39. 2-Hexanone	U	V+	µg/L	50.0	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 40. Isopropylbenzene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 41. 4-Methyl-2-pentanone	U		µg/L	50.0	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
42. Methylene Chloride	U		µg/L	5.00	1.0	03/13/24	VI24C13B	03/13/24 14:35	VI24C13B	KYD
‡ 43. Methyl Iodide	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
45. MTBE	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
46. Naphthalene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 47. n-Propylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 48. Styrene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
51. Tetrachloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
52. Toluene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 53. 1,2,3-Trichlorobenzene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 54. 1,2,4-Trichlorobenzene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
56. 1,1,2-Trichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
57. Trichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
58. Trichlorofluoromethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 59. 1,2,3-Trichloropropane	U		µg/L	1.36	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 60. 1,2,4-Trimethylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
‡ 61. 1,3,5-Trimethylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
62. Vinyl Chloride	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
63. m&p-Xylene	U		µg/L	2.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
64. o-Xylene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD
65. Xylenes	U		µg/L	3.00	1.0	03/12/24	VI24C12A	03/12/24 21:13	VI24C12A	KYD

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Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-001

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-1**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**1**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Chemical Oxygen Demand (COD) **Aliquot ID: A20046-001B** **Matrix: Surface Water**
Method: HACH 8000 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	**26000**	*	µg/L	6000	2.0	03/18/24	PW24C18B	03/18/24	W224C18B	CM

Alkalinity by Titrimetry **Aliquot ID: A20046-001** **Matrix: Surface Water**
Method: SM 2320 B-2011 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	490000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20046-001** **Matrix: Surface Water**
Method: SM 2540 C-2015 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	570000		µg/L	10000	1.3	NA	NA	03/15/24	W124C14C	EZ

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20046-001B** **Matrix: Surface Water**
Method: SM 4500-NH3 G-2011 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Ammonia-N	4.7		mg/L	0.010	1.0	03/12/24	PW24C12A	03/12/24	W124C12A	AVC

Total Organic Carbon (TOC) **Aliquot ID: A20046-001A** **Matrix: Surface Water**
Method: SM 5310 B-2014 **Description: SW-1**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	4800		µg/L	1000	1.0	03/18/24	PW24C18D	03/18/24	W124C18A	EZ

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8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-002

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-2**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**2**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Total Recoverable **Aliquot ID: A20046-002D** **Matrix: Surface Water**
Method: EPA 0200.8 (Total Recoverable)/EPA 0200.8 **Description: SW-2**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
4. Calcium	**250000**	L+	µg/L	4800	200	03/18/24	PT24C15D	03/18/24	T424C18B	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
7. Iron	**970**		µg/L	100	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
9. Magnesium	**19000**		µg/L	300	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
10. Manganese	**54**		µg/L	50	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
12. Potassium	**1000**		µg/L	1000	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
14. Sodium	**6200**		µg/L	1000	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15D	03/18/24	T424C18B	JJS

Inorganic Anions by IC **Aliquot ID: A20046-002** **Matrix: Surface Water**
Method: EPA 0300.0 **Description: SW-2**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Chloride	U		µg/L	10000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	**3900**		µg/L	23	1.0	03/13/24 12:46	PW24C13C	03/13/24 12:46	W424C13A	MJS
3. Nitrate-N + Nitrite-N	**4000**		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	**34**		µg/L	30	1.0	03/13/24 12:46	PW24C13C	03/13/24 12:46	W424C13A	MJS
5. Sulfate	**18000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Phosphorus, Total **Aliquot ID: A20046-002B** **Matrix: Surface Water**
Method: EPA 0365.3 **Description: SW-2**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phosphorus	**71**		µg/L	10	1.0	NA	NA	03/13/24	W324C13B	CM

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Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-002

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-2**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**2**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phenolics, Total **Aliquot ID: A20046-002C** **Matrix: Surface Water**
Method: EPA 0420.1 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/15/24	W224C15A	EZ

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20046-002E** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50.0	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
2. Acrylonitrile	U		µg/L	2.32	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
3. Benzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 4. Bromobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 5. Bromochloromethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
6. Bromodichloromethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 7. Bromoform (SIM)	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
8. Bromomethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
9. 2-Butanone	U		µg/L	25.0	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 10. n-Butylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 11. sec-Butylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 12. tert-Butylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 13. Carbon Disulfide	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
14. Carbon Tetrachloride	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
15. Chlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
16. Chloroethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
17. Chloroform	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
18. Chloromethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 19. 2-Chlorotoluene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
21. Dibromochloromethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 22. Dibromomethane	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 26. Dichlorodifluoromethane	U	V+	µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD

Fibertec environmental services
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Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-002

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-2**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**2**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20046-002E** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. trans-1,2-Dichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 33. 1,3-Dichloropropane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.500	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.746	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 37. Diethyl Ether	U		µg/L	10.0	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
38. Ethylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 39. 2-Hexanone	U	V+	µg/L	50.0	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 40. Isopropylbenzene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 41. 4-Methyl-2-pentanone	U		µg/L	50.0	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
42. Methylene Chloride	U		µg/L	5.00	1.0	03/13/24	VI24C13B	03/13/24 15:02	VI24C13B	KYD
‡ 43. Methyl Iodide	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
45. MTBE	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
46. Naphthalene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 47. n-Propylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 48. Styrene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
51. Tetrachloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
52. Toluene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 53. 1,2,3-Trichlorobenzene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 54. 1,2,4-Trichlorobenzene	U		µg/L	5.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
56. 1,1,2-Trichloroethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
57. Trichloroethene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
58. Trichlorofluoromethane	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 59. 1,2,3-Trichloropropane	U		µg/L	1.36	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 60. 1,2,4-Trimethylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
‡ 61. 1,3,5-Trimethylbenzene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
62. Vinyl Chloride	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
63. m&p-Xylene	U		µg/L	2.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
64. o-Xylene	U		µg/L	1.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD
65. Xylenes	U		µg/L	3.00	1.0	03/12/24	VI24C12A	03/12/24 18:32	VI24C12A	KYD

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Analytical Laboratory Report
Laboratory Project Number: A20046
Laboratory Sample Number: A20046-002

Order: A20046
Date: 03/21/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**SW-2**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**2**	Collect Date:	**03/12/24**
Client Project No:	**926-1422**	Sample Matrix:	**Surface Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Chemical Oxygen Demand (COD) **Aliquot ID: A20046-002B** **Matrix: Surface Water**
Method: HACH 8000 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	**28000**		µg/L	20000	1.0	03/13/24	PW24C13A	03/13/24	W224C13A	MJS

Alkalinity by Titrimetry **Aliquot ID: A20046-002** **Matrix: Surface Water**
Method: SM 2320 B-2011 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	200000	F+	µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U	F+	µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U	F+	µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20046-002** **Matrix: Surface Water**
Method: SM 2540 C-2015 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	370000		µg/L	10000	1.0	NA	NA	03/14/24	W124C14C	EZ

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20046-002B** **Matrix: Surface Water**
Method: SM 4500-NH3 G-2011 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Ammonia-N	0.020		mg/L	0.010	1.0	03/12/24	PW24C12A	03/12/24	W124C12A	AWC

Total Organic Carbon (TOC) **Aliquot ID: A20046-002A** **Matrix: Surface Water**
Method: SM 5310 B-2014 **Description: SW-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	11000		µg/L	2500	5.0	03/18/24	PW24C18C	03/18/24	W624C18A	CM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

***** : Duplicate analysis not within control limits.
F+ : Recovery from the spiked aliquot exceeds the upper control limit (matrix spike or matrix spike duplicate).
L+ : Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.
V+ : Recovery in the associated continuing calibration verification sample (CCV) exceeds the upper control limit. Results may be biased high.

Analysis Locations:

All analyses performed in Holt.

Accreditation Number(s):

TX-C24-00076 (TX)

STRATA ENVIRONMENTAL SERVICES, INC.
538 W. Ash Street • Mason, Michigan 48854
Phone (517) 676-6900 • Fax (517) 676-8834

Air	A
Drinking Water	D
Groundwater	W
~~Soil~~	S
Sludge	L
Oil	O
Other	X

SURFACE WATER

Client: EATON COUNTY
Project Name: ECLF
Project #: 926-1422
Send Results to: MCS
Sampling Personnel: SVS/NP

CHAIN OF CUSTODY

Lab Use	Sample Information					Preservative						Analysis Requested
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	PID	MATRIX	None	H2SO4	HNO3	HCl	NaOH	Other	MARCH 2024 PARAMS
1	3-12-24	1200	SW-1		S	2	2	1	4			X
2	3-12-24	1210	~~SW-1~~ SS SW-2		S	2	2	1	4			X

Received By Lab
MAR 12 2024
Initials: SH

Received On Ice !

Comments: PO # 6279
QUOTE # Strata 031124 - Eaton County Landfill 2024

2.5°C A20046

Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time
	3-12-24	1415									
Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory by:	Date	Time	Data Package Relinquished by:	Date	Time	Data Received by:	Date	Time			

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Tuesday, March 26, 2024

Fibertec Project Number:	A20073
Project Identification:	Eaton County (926-1422) /926-1422
Submittal Date:	03/13/2024

Mr. Mike Serafini
Strata Environmental Services, Inc.
538 W. Ash Street
Mason, MI 48854

Dear Mr. Serafini,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Bailey Welch

By Bailey Welch at 10:06 AM, Mar 26, 2024

For Heather L. Smith
Director of Laboratory Operations

Enclosures

Fibertec environmental services
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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-001

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8S**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**3**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-001C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-8S**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
1. Phosphorus	**53**		µg/L	10	1.0	NA	NA	03/20/24	W324C20A	ARC

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-001D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-8S**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**89000**	L+	µg/L	1000	10	03/15/24	PT24C15A	03/15/24	T424C15B	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**19000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15B	JJS
10. Manganese	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	U		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**3000**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	**410**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-001E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-8S**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
	3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-001

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8S**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**3**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-001E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-8S**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-001

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8S**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**3**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-001E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-8S**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 19:10	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-001** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-8S**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**1700**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	**170**		µg/L	23	1.0	03/13/24 16:08	PW24C13C	03/13/24 16:08	W424C13A	MJS
3. Nitrate-N + Nitrite-N	**200**		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	**33**		µg/L	30	1.0	03/13/24 16:08	PW24C13C	03/13/24 16:08	W424C13A	MJS
5. Sulfate	**5100**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-001A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-8S**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-001

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8S**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**3**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-001A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Organic Carbon	U		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20073-001B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/15/24	W224C15A	EZ

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-001C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-001** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	320000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-001** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Dissolved Solids	**310000**		µg/L	50000	1.3	NA	NA	03/14/24	WH24C14C	EZ

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-001C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-001

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8S**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**3**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-001C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-8S**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	U		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-002

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-3**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**4**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-002C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-3**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**36**		µg/L	10	1.0	NA	NA	03/20/24	W324C20A	ARC

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-002D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-3**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**100000**	L+	µg/L	1000	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	**130**		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**29000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
10. Manganese	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	U		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	**5.0**		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**8900**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	**170**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-002E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-3**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
	3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-002

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-3**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**4**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-002E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-3**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-002

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-3**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**4**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-002E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-3**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 19:36	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-002** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-3**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**2600**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/13/24 16:29	PW24C13C	03/13/24 16:29	W424C13A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	**30**		µg/L	30	1.0	03/13/24 16:29	PW24C13C	03/13/24 16:29	W424C13A	MJS
5. Sulfate	**45000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-002A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-3**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-002

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-3**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**4**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-002A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-3**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Organic Carbon	**1800**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20073-002B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-3**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/15/24	W224C15A	EZ

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-002C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-3**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. COD	**6700**		µg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-002** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-3**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡	1. Bicarbonate Alkalinity	360000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡	2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡	3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-002** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-3**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Dissolved Solids	**340000**		µg/L	50000	1.0	NA	NA	03/14/24	W124C14C	EZ

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-002C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-3**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-002

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-3**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**4**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-002C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-3**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	U		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-003

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-7r**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**5**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-003C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**25**		µg/L	10	1.0	NA	NA	03/20/24	W324C20A	ARC

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-003D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**100000**	L+	µg/L	1000	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	**450**		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**28000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
10. Manganese	**220**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	**1600**	B	µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**5400**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-003E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-7r**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**5**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-003E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-003

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-7r**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**5**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-003E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 20:02	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-003** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
1. Chloride	**2900**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/13/24 16:49	PW24C13C	03/13/24 16:49	W424C13A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	**34**		µg/L	30	1.0	03/13/24 16:49	PW24C13C	03/13/24 16:49	W424C13A	MJS
5. Sulfate	**9000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-003A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-7r**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-003

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-7r**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**5**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-003A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Organic Carbon	**2200**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20073-003B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/15/24	W224C15A	EZ

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-003C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-003** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	390000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-003** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Dissolved Solids	390000		µg/L	50000	1.3	NA	NA	03/14/24	WH24C14C	EZ

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-003C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-003

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-7r**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**5**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-003C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-7r**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	U		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**6**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-004C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	U		µg/L	10	1.0	NA	NA	03/20/24	W324C20A	ARC

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-004D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**110000**	L+	µg/L	1000	10	03/15/24	PT24C15A	03/15/24	T424C15B	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**31000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15B	JJS
10. Manganese	**270**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	**1300**	B	µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**25000**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-004E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**6**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-004E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-004

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**6**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-004E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 20:29	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-004** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**68000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/13/24 17:09	PW24C13C	03/13/24 17:09	W424C13A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/13/24 17:09	PW24C13C	03/13/24 17:09	W424C13A	MJS
5. Sulfate	**49000**		µg/L	1000	2.0	03/14/24	PW24C13C	03/14/24	W424C14A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-004A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-004

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**6**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-004A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	U		µg/L	1000	1.0	03/18/24	PW24C18C	03/19/24	WS24C19A	CM

Phenolics, Total **Aliquot ID: A20073-004B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/19/24	W224C19A	CM

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-004C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	U		mg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-004** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	300000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-004** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	450000		µg/L	50000	1.3	NA	NA	03/14/24	WH24C14C	EZ

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-004C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-8dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-004

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-8dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**6**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-004C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-8dr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	U		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-005

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**7**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-005C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-2sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**810**		µg/L	100	10	NA	NA	03/21/24	W324C21A	MJS

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-005D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-2sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**100000**	L+	µg/L	1000	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	**390**		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**29000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
10. Manganese	**140**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	**2000**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**7900**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-005E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-2sr**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
	3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC

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lab@fibertec.us

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**7**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-005E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-2sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-005

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**7**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-005E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-2sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 20:56	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-005** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-2sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**7900**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/13/24 17:29	PW24C13C	03/13/24 17:29	W424C13A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/13/24 17:29	PW24C13C	03/13/24 17:29	W424C13A	MJS
5. Sulfate	**48000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-005A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-2sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-005

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**7**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-005A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Organic Carbon	**1200**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20073-005B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phenolics	**69**		µg/L	50	1.0	NA	NA	03/19/24	W224C19A	CM

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-005C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-005** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	360000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-005** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Dissolved Solids	360000		µg/L	50000	1.3	NA	NA	03/19/24	WP24C19A	MJS

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-005C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-005

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**7**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-005C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-2sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**120**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-006

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**8**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-006C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**250**		µg/L	10	1.0	NA	NA	03/20/24	W324C20A	ARC

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-006D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	U		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**120000**	L+	µg/L	1000	20	03/15/24	PT24C15A	03/15/24	T424C15B	JJS
5. Chromium	U		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	U		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	**1100**		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**37000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15B	JJS
10. Manganese	**110**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	**3300**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**24000**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-006E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-2dr**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
	3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**8**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-006E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**8**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-006E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 21:22	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-006** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**19000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/13/24 18:30	PW24C13C	03/13/24 18:30	W424C13A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/13/24 18:30	PW24C13C	03/13/24 18:30	W424C13A	MJS
5. Sulfate	**46000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-006A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-006

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**8**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-006A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	1600		µg/L	1000	1.0	03/19/24	PW24C19C	03/19/24	W524C19A	CM

Phenolics, Total **Aliquot ID: A20073-006B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/19/24	W224C19A	CM

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-006C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-006** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	450000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-006** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	630000		µg/L	50000	1.0	NA	NA	03/19/24	WP24C19A	MJS

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-006C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-2dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-006

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-2dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**8**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-006C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-2dr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**670**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-007

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**9**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20073-007C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**21**		µg/L	10	1.0	NA	NA	03/20/24	W324C20A	ARC

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20073-007D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5.9**		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
2. Barium	**160**		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
3. Cadmium	U		µg/L	1.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
4. Calcium	**100000**	L+	µg/L	1000	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
5. Chromium	**27**		µg/L	10	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
6. Copper	**6.9**		µg/L	4.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
7. Iron	**2900**		µg/L	100	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
8. Lead	U		µg/L	3.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
9. Magnesium	**29000**		µg/L	300	10	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
10. Manganese	**68**		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
11. Nickel	U		µg/L	20	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
12. Potassium	**1200**	B	µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
13. Selenium	U		µg/L	5.0	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
14. Sodium	**6700**		µg/L	1000	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS
15. Zinc	U		µg/L	50	5.0	03/15/24	PT24C15A	03/15/24	T424C15A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-007E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**9**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-007E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-15dr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**9**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-007E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
62. Vinyl Chloride	**1.2**		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 21:49	VM24C15A	SNC

Inorganic Anions by IC **Aliquot ID: A20073-007** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**6400**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/13/24 18:50	PW24C13C	03/13/24 18:50	W424C13A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/13/24 18:50	PW24C13C	03/13/24 18:50	W424C13A	MJS
5. Sulfate	**40000**		µg/L	1000	1.0	03/13/24	PW24C13C	03/13/24	W424C13A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20073-007A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**9**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20073-007A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	**1500**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20073-007B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/19/24	W224C19A	CM

Chemical Oxygen Demand (COD) **Aliquot ID: A20073-007C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	25000		µg/L	5000	1.0	03/14/24	PW24C14D	03/14/24	W224C14B	CM

Alkalinity by Titrimetry **Aliquot ID: A20073-007** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	350000		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/14/24	W124C14A	EZ

Residue, Filterable (TDS) **Aliquot ID: A20073-007** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	**350000**		µg/L	50000	1.0	NA	NA	03/19/24	WH24C19A	MG

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-007C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-15dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-007

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**9**	Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20073-007C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-15dr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**110**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-008

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:		Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Blank: Trip**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-008** **Matrix: Blank: Trip**
Method: EPA 5030C/EPA 8260D **Description: TRIP BLANK**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
3. Benzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
4. Bromobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
5. Bromochloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
8. Bromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
9. 2-Butanone	U		µg/L	25	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
17. Chloroform	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC

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Analytical Laboratory Report
Laboratory Project Number: A20073
Laboratory Sample Number: A20073-008

Order: A20073
Date: 03/26/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:		Collect Date:	**03/13/24**
Client Project No:	**926-1422**	Sample Matrix:	**Blank: Trip**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20073-008** **Matrix: Blank: Trip**
Method: EPA 5030C/EPA 8260D **Description: TRIP BLANK**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
37. Diethyl Ether	U		µg/L	10	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
38. Ethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
39. 2-Hexanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
42. Methylene Chloride	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
45. MTBE	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
46. Naphthalene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
48. Styrene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
52. Toluene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
57. Trichloroethene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
63. m&p-Xylene	U		µg/L	2.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
64. o-Xylene	U		µg/L	1.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/15/24	VM24C15A	03/15/24 18:43	VM24C15A	SNC

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lab@fibertec.us

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

B : Analyte is found in the associated method blank as well as in the sample.
L+ : Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.

Analysis Locations:

All analyses performed in Holt.

Accreditation Number(s):
TX-C24-00076 (TX)

STRATA ENVIRONMENTAL SERVICES, INC.
538 W. Ash Street • Mason, Michigan 48854
Phone (517) 676-6900 • Fax (517) 676-8834

Air	A
Drinking Water	D
Groundwater	W
Soil	S
Sludge	L
Oil	O
Other	X

Client: EATON COUNTY
Project Name: FCLF
Project #: 926-1422
Send Results to: MCS
Sampling Personnel: SVS/NP

CHAIN OF CUSTODY

Lab Use	Sample Information					Preservative						Analysis Requested																		
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	PID	MATRIX	None	H2SO4	HNO3	HCl	NaOH	Other	MARCH 2024 PFAS-MS.																		
3	3-13-24	0925	MW-8s		W	2	2	1	4			X																		
4	↓	0950	MW-3		↓	↓	↓	↓	↓			X																		
5		1010	MW-7r									X																		
6		1030	MW-8dr									X																		
7		1100	MW-2sr									X																		
8		1140	MW-2dr									X																		
9		1205	MW-15dr									X																		
			TRIP BLANK		X				3			X																		

Received By Lab
MAR 13 2024
Initials: JS

Comments: PO # 6279
QUOTE # StrataQ31124 - Eaton County Landfill 2024

A20073
4.9°C

Received On Ice

Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time
	3-13-24	1305									
Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory by:	Date	Time	Data Package Relinquished by:	Date	Time	Data Received by:	Date	Time			

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Wednesday, March 27, 2024

Fibertec Project Number:	A20111
Project Identification:	Eaton County (926-1422) /926-1422
Submittal Date:	03/15/2024

Mr. Mike Serafini
Strata Environmental Services, Inc.
538 W. Ash Street
Mason, MI 48854

Dear Mr. Serafini,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Bailey Welch

By Bailey Welch at 10:45 AM, Mar 27, 2024

For Heather L. Smith
Director of Laboratory Operations

Enclosures

Fibertec environmental services
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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-001

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**10**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-001C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	U		µg/L	10	1.0	NA	NA	03/21/24	W324C21A	MJS

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-001D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5.5**		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**150**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**120000**		µg/L	1000	20	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	**1900**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**39000**		µg/L	300	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	U		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**1500**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**23000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	**320**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-001E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-001

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**10**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-001E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
37. Diethyl Ether	U		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-001

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**10**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-001E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 13:18	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-001** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	33000		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 18:07	PW24C15E	03/15/24 18:07	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/15/24 18:07	PW24C15E	03/15/24 18:07	W424C15A	MJS
5. Sulfate	34000		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-001A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-001

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**10**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20111-001A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	1900		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C19A	CM

Phenolics, Total **Aliquot ID: A20111-001B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/19/24	W224C19A	CM

Chemical Oxygen Demand (COD) **Aliquot ID: A20111-001C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21B	CM

Alkalinity by Titrimetry **Aliquot ID: A20111-001** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	470000		µg CaCO3/L	20000	1.0	NA	NA	03/21/24	W124C21A	MJS
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/21/24	W124C21A	MJS
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/21/24	W124C21A	MJS

Residue, Filterable (TDS) **Aliquot ID: A20111-001** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	370000		µg/L	50000	1.3	NA	NA	03/19/24	WH24C19A	MJS

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-001C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-10s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-001

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**10**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-001C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-10s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**53**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-002

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**11**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-002C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**12**		µg/L	10	1.0	NA	NA	03/21/24	W324C21A	MJS

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-002D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**10**		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**240**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**110000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	**3300**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**31000**		µg/L	300	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	**60**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**1800**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**9900**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	U		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-002E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-17sr**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
	3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
	4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
	8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
	9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**11**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-002E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
37. Diethyl Ether	U		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**11**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-002E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
62. Vinyl Chloride	**2.4**		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 13:45	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-002** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
1. Chloride	**9200**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 18:27	PW24C15E	03/15/24 18:27	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	**32**		µg/L	30	1.0	03/15/24 18:27	PW24C15E	03/15/24 18:27	W424C15A	MJS
5. Sulfate	**36000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-002A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-002

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**11**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20111-002A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	1200		µg/L	1000	1.0	03/18/24	PW24C18C	03/19/24	WS24C19A	CM

Phenolics, Total **Aliquot ID: A20111-002B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/21/24	W224C21C	MJS

Chemical Oxygen Demand (COD) **Aliquot ID: A20111-002C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21B	CM

Alkalinity by Titrimetry **Aliquot ID: A20111-002** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	390000		µg CaCO3/L	20000	1.0	NA	NA	03/21/24	W124C21A	MJS
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/21/24	W124C21A	MJS
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/21/24	W124C21A	MJS

Residue, Filterable (TDS) **Aliquot ID: A20111-002** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	460000		µg/L	50000	1.3	NA	NA	03/19/24	WH24C19A	MJS

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-002C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-17sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-002

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**11**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-002C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-17sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**88**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-003

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**12**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-003C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**38**		µg/L	10	1.0	NA	NA	03/21/24	W324C21A	MJS

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-003D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**9.7**		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**310**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**150000**		µg/L	1000	20	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	**5600**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**38000**		µg/L	300	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	**96**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**1600**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**15000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	U		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-003E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-17dr**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
	3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
	4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
	8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
	9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD

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11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-003

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**12**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-003E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
26. Dichlorodifluoromethane	**7.2**		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
37. Diethyl Ether	**14**		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**12**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-003E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
62. Vinyl Chloride	11		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 14:11	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-003** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	14000		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 18:47	PW24C15E	03/15/24 18:47	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/15/24 18:47	PW24C15E	03/15/24 18:47	W424C15A	MJS
5. Sulfate	27000		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-003A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-003

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**12**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20111-003A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	1300		µg/L	1000	1.0	03/19/24	PW24C19C	03/19/24	WS24C19A	GM

Phenolics, Total **Aliquot ID: A20111-003B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/21/24	W224C21C	MJS

Chemical Oxygen Demand (COD) **Aliquot ID: A20111-003C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	U		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21D	CM

Alkalinity by Titrimetry **Aliquot ID: A20111-003** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	530000		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC

Residue, Filterable (TDS) **Aliquot ID: A20111-003** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	580000		µg/L	50000	1.0	NA	NA	03/19/24	WH24C19A	MJS

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-003C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-17dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-003

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-17dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**12**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**10:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-003C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-17dr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**110**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-004

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-18sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**13**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-004C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**810**		µg/L	100	10	NA	NA	03/22/24	W324C22B	CM

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-004D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**9.1**		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**150**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**96000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	**2400**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**35000**		µg/L	300	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	**120**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**3800**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**32000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	U		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-004E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-18sr**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
	3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
	4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
	8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
	9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD

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lab@fibertec.us

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-004

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-18sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**13**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-004E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
37. Diethyl Ether	U		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-18sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**13**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-004E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 14:37	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-004** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**30000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 19:08	PW24C15E	03/15/24 19:08	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/15/24 19:08	PW24C15E	03/15/24 19:08	W424C15A	MJS
5. Sulfate	**42000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-004A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-18sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**13**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20111-004A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	**1300**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20111-004B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/21/24	W224C21C	MJS

Chemical Oxygen Demand (COD) **Aliquot ID: A20111-004C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	**5400**		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21B	CM

Alkalinity by Titrimetry **Aliquot ID: A20111-004** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	**390000**		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC

Residue, Filterable (TDS) **Aliquot ID: A20111-004** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	**510000**		µg/L	50000	1.3	NA	NA	03/21/24	WH24C21C	ARC

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-004C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-18sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-004

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-18sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**13**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-004C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-18sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**140**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**14**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-005C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**18**		µg/L	10	1.0	NA	NA	03/21/24	W324C21A	MJS

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-005D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**140**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**120000**		µg/L	1000	20	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	**2200**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**40000**		µg/L	300	20	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	**97**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**2800**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**19000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	U		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-005E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-10dr**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
	3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
	4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
	8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
	9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-005

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**14**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-005E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
37. Diethyl Ether	U		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**14**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-005E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 15:03	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-005** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**30000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 19:28	PW24C15E	03/15/24 19:28	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	**35**		µg/L	30	1.0	03/15/24 19:28	PW24C15E	03/15/24 19:28	W424C15A	MJS
5. Sulfate	**41000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-005A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**14**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) — **Aliquot ID: A20111-005A** — **Matrix: Ground Water**
Method: EPA 9060A — **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	**1500**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total — **Aliquot ID: A20111-005B** — **Matrix: Ground Water**
Method: EPA 9065 — **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/21/24	W224C21C	MJS

Chemical Oxygen Demand (COD) — **Aliquot ID: A20111-005C** — **Matrix: Ground Water**
Method: HACH 8000 — **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	**7400**		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21B	CM

Alkalinity by Titrimetry — **Aliquot ID: A20111-005** — **Matrix: Ground Water**
Method: SM 2320 B-2011 — **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	**440000**		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC

Residue, Filterable (TDS) — **Aliquot ID: A20111-005** — **Matrix: Ground Water**
Method: SM 2540 C-2015 — **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	**560000**	*	µg/L	50000	1.3	NA	NA	03/21/24	WH24C21C	ARC

Nitrogen, Ammonia (Auto Analyzer) — **Aliquot ID: A20111-005C** — **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 — **Description: MW-10dr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-005

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-10dr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**14**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-005C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-10dr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	**100**		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-006

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-19s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**15**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-006C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**14**		µg/L	10	1.0	NA	NA	03/21/24	W324C21A	MJS

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-006D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**7.0**		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**210**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**120000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	**2800**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**40000**		µg/L	300	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	**59**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**1800**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**30000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	**100**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-006E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-19s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**15**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-006E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
37. Diethyl Ether	U		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-19s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**15**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-006E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 15:30	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-006** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.
1. Chloride	**38000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 19:48	PW24C15E	03/15/24 19:48	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/15/24 19:48	PW24C15E	03/15/24 19:48	W424C15A	MJS
5. Sulfate	**35000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-006A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-19s**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	P. Batch	Analysis A. Date	A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-006

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-19s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**15**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20111-006A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-19s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Organic Carbon	**2100**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20111-006B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-19s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/21/24	W224C21C	MJS

Chemical Oxygen Demand (COD) **Aliquot ID: A20111-006C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-19s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. COD	**5400**		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21B	CM

Alkalinity by Titrimetry **Aliquot ID: A20111-006** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-19s**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡	1. Bicarbonate Alkalinity	**450000**		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡	2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡	3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC

Residue, Filterable (TDS) **Aliquot ID: A20111-006** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-19s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Total Dissolved Solids	**560000**		µg/L	50000	1.3	NA	NA	03/21/24	WH24C21C	ARC

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-006C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-19s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-006

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-19s**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**15**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-006C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-19s**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ammonia-N	77		µg/L	50	1.0	03/19/24	PW24C19B	03/19/24	WU24C19A	MJS

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-007

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**16**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Phosphorus, Total **Aliquot ID: A20111-007C** **Matrix: Ground Water**
Method: EPA 0365.3 **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**4700**		µg/L	100	10	NA	NA	03/22/24	W324C22B	CM

Trace Elements by ICP/MS, Dissolved **Aliquot ID: A20111-007D** **Matrix: Ground Water**
Method: EPA 3005A (Dissolved)/EPA 6020A **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
2. Barium	**150**		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
3. Cadmium	U		µg/L	1.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
4. Calcium	**130000**		µg/L	1000	20	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
5. Chromium	U		µg/L	10	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
6. Copper	U		µg/L	4.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
7. Iron	U		µg/L	100	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
8. Lead	U		µg/L	3.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
9. Magnesium	**44000**		µg/L	300	20	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
10. Manganese	**58**		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
11. Nickel	U		µg/L	20	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
12. Potassium	**3000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
13. Selenium	U		µg/L	5.0	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
14. Sodium	**35000**		µg/L	1000	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS
15. Zinc	U		µg/L	50	10	03/22/24	PT24C22E	03/22/24	T424C22A	JJS

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-007E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**16**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-007E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
27. 1,1-Dichloroethane	**3.4**		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
28. 1,2-Dichloroethane	**1.2**		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
30. cis-1,2-Dichloroethene	**58**		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
37. Diethyl Ether	**16**		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**16**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-007E** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
62. Vinyl Chloride	**1.5**		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 15:56	VM24C18A	KYD

Inorganic Anions by IC **Aliquot ID: A20111-007** **Matrix: Ground Water**
Method: EPA 9056A **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chloride	**68000**		µg/L	1000	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
2. Nitrate-N	U		µg/L	23	1.0	03/15/24 20:08	PW24C15E	03/15/24 20:08	W424C15A	MJS
3. Nitrate-N + Nitrite-N	U		µg/L	53	1.0	03/15/24	PW24C15E	03/15/24	W424C15A	MJS
4. Nitrite-N	U		µg/L	30	1.0	03/15/24 20:08	PW24C15E	03/15/24 20:08	W424C15A	MJS
5. Sulfate	**18000**		µg/L	1000	2.0	03/18/24	PW24C15E	03/18/24	W424C18A	MJS

Carbon, Total Organic (TOC) **Aliquot ID: A20111-007A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-007

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**16**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Carbon, Total Organic (TOC) **Aliquot ID: A20111-007A** **Matrix: Ground Water**
Method: EPA 9060A **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Organic Carbon	**3500**		µg/L	1000	1.0	03/18/24	PW24C18C	03/18/24	WS24C18A	CM

Phenolics, Total **Aliquot ID: A20111-007B** **Matrix: Ground Water**
Method: EPA 9065 **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phenolics	U		µg/L	50	1.0	NA	NA	03/21/24	W224C21C	MJS

Chemical Oxygen Demand (COD) **Aliquot ID: A20111-007C** **Matrix: Ground Water**
Method: HACH 8000 **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. COD	**13000**		µg/L	5000	1.0	03/21/24	PW24C21D	03/21/24	W224C21B	CM

Alkalinity by Titrimetry **Aliquot ID: A20111-007** **Matrix: Ground Water**
Method: SM 2320 B-2011 **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Bicarbonate Alkalinity	**470000**		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 2. Carbonate Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC
‡ 3. Hydroxide Alkalinity	U		µg CaCO3/L	20000	1.0	NA	NA	03/22/24	W124C22A	ARC

Residue, Filterable (TDS) **Aliquot ID: A20111-007** **Matrix: Ground Water**
Method: SM 2540 C-2015 **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Dissolved Solids	**480000**		µg/L	50000	1.3	NA	NA	03/21/24	WH24C21C	ARC

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-007C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-15sr**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-007

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**MW-15sr**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:	**16**	Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Nitrogen, Ammonia (Auto Analyzer) **Aliquot ID: A20111-007C** **Matrix: Ground Water**
Method: SM 4500-NH3 G-2011 **Description: MW-15sr**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1.Ammonia-N	260		µg/L	50	10	03/18/24	PW24C195	03/19/24	WU24C19A	MJS

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:		Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Blank: Trip**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-008** **Matrix: Blank: Trip**
Method: EPA 5030C/EPA 8260D **Description: TRIP BLANK**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
3. Benzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
4. Bromobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 7. Bromoform (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
8. Bromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
9. 2-Butanone	U		µg/L	25	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
10. n-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
11. sec-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
12. tert-Butylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
13. Carbon Disulfide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
15. Chlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
16. Chloroethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
17. Chloroform	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
18. Chloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
21. Dibromochloromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
22. Dibromomethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
33. 1,3-Dichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 34. 1,1-Dichloropropene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
35. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
36. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD

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Analytical Laboratory Report
Laboratory Project Number: A20111
Laboratory Sample Number: A20111-008

Order: A20111
Date: 03/27/24

Client Identification:	**Strata Environmental Services, Inc.**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**N/A**
Client Project Name:	**Eaton County (926-1422)**	Sample No:		Collect Date:	**03/15/24**
Client Project No:	**926-1422**	Sample Matrix:	**Blank: Trip**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A20111-008** **Matrix: Blank: Trip**
Method: EPA 5030C/EPA 8260D **Description: TRIP BLANK**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
37. Diethyl Ether	U		µg/L	10	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
38. Ethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
39. 2-Hexanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
40. Isopropylbenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
42. Methylene Chloride	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 43. Methyl Iodide	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 44. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
45. MTBE	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
46. Naphthalene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
47. n-Propylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
48. Styrene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
49. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
50. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
51. Tetrachloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
52. Toluene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
53. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
54. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
55. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 56. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
57. Trichloroethene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
58. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
59. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
60. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
61. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
62. Vinyl Chloride	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
63. m&p-Xylene	U		µg/L	2.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
64. o-Xylene	U		µg/L	1.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD
‡ 65. Xylenes	U		µg/L	3.0	1.0	03/18/24	VM24C18A	03/18/24 12:51	VM24C18A	KYD

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

* : Duplicate analysis not within control limits.

Analysis Locations:

All analyses performed in Holt.

Accreditation Number(s):
TX-C24-00076 (TX)

STRATA ENVIRONMENTAL SERVICES, INC.
538 W. Ash Street • Mason, Michigan 48854
Phone (517) 676-6900 • Fax (517) 676-8834

Air	A
Drinking Water	D
Groundwater	W
Soil	S
Sludge	L
Oil	O
Other	X

Client: EATON COUNTY
Project Name: ECLF
Project #: 926-1422
Send Results to: MCS
Sampling Personnel: SVS/NP

CHAIN OF CUSTODY

Lab Use	Sample Information					Preservative						Analysis Requested	
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	PID	MATRIX	None	H2SO4	HNO3	HCl	NaOH	Other	MARCH 2024 PFAS.	
10	3-15-24	0925	MW-10s		W	2	2	1	4			X	
11	↓	0950	MW-17sr		↓	↓	↓	↓	↓			X	
12		1010	MW-17dr									X	
13		1100	MW-18sr									X	
14		1145	MW-10dr									X	
15		1200	MW-19s									X	
16	↓	1210	MW-15sr		↓	↓	↓	↓	↓			X	
			TRIP BLANK		X				3			X	

Comments: PO # 6279
QUOTE # Strata031124-Eaton County Landfill

A2011 5.1 C

Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time
	3-15-24	1450									
Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory by:	Date	Time	Data Package Relinquished by:	Date	Time	Data Received by:	Date	Time			

ATTACHMENT 4

TABLE 2. Summary of Analytical Results

	ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	MW-2sr	MW-2dr	MW-3	MW-7r	MW-8s	MW-8dr	MW-10s	MW-10dr
ORGANICS												
1	Acetone	50	25	730/*1,700*	ND	ND	ND	ND	ND	ND	ND	ND
2	Acrylonitrile	2	1	2.6	ND	ND	ND	ND	ND	ND	ND	ND
3	Benzene	1	1	*5/200*	ND	ND	ND	ND	ND	ND	ND	ND
4	Bromobenzene	1	1	18	ND	ND	ND	ND	ND	ND	ND	ND
5	Bromochloromethane	1	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
6	Bromodichloromethane	1	1	80	ND	ND	ND	ND	ND	ND	ND	ND
7	Bromoform	1	1	80	ND	ND	ND	ND	ND	ND	ND	ND
8	Bromomethane (Methyl Bromide)	5	5	10	ND	ND	ND	ND	ND	ND	ND	ND
9	2-Butanone (MEK)	25	50	13,000/*2,200*	ND	ND	ND	ND	ND	ND	ND	ND
10	n-Butylbenzene	1	1	80	ND	ND	ND	ND	ND	ND	ND	ND
11	sec-Butylbenzene	1	1	80	ND	ND	ND	ND	ND	ND	ND	ND
12	tert-Butylbenzene	1	1	80	ND	ND	ND	ND	ND	ND	ND	ND
13	Carbon Disulfide	5	5	800	ND	ND	ND	ND	ND	ND	ND	ND
14	Carbon Tetrachloride	1	1	*5/38*	ND	ND	ND	ND	ND	ND	ND	ND
15	Chlorobenzene	1	1	100/*25*	ND	ND	ND	ND	ND	ND	ND	ND
16	Chloroethane	5	2	430/*1,100*	ND	ND	ND	ND	ND	ND	ND	ND
17	Chloroform	1	1	80/*350*	ND	ND	ND	ND	ND	ND	ND	ND
18	Chloromethane (Methyl Chloride)	5	5	260	ND	ND	ND	ND	ND	ND	ND	ND
19	2-Chlorotoluene	5	1	150	ND	ND	ND	ND	ND	ND	ND	ND
20	1,2-Dibromo-3-Chloropropane	0.2	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
21	1,2-Dibromoethane (Ethylene Dibromide)	0.05	1	0.05/*5.7*	---	---	---	---	---	---	---	---
22	Dibromochloromethane	---	1	80	ND	ND	ND	ND	ND	ND	ND	ND
23	Dibromomethane	5	1	80	ND	ND	ND	ND	ND	ND	ND	ND
24	1,2-Dichlorobenzene	1	1	600/*13*	ND	ND	ND	ND	ND	ND	ND	ND
25	1,3-Dichlorobenzene	1	1	6.6/*28*	ND	ND	ND	ND	ND	ND	ND	ND
26	1,4-Dichlorobenzene	1	1	*75/17*	ND	ND	ND	ND	ND	ND	ND	ND
27	trans-1,4-Dichloro-2-Butene	1		NA	---	---	---	---	---	---	---	---
28	Dichlorodifluoromethane	5	1	1,700	ND	ND	ND	ND	ND	ND	ND	ND
29	1,1-Dichloroethane	1	1	880/*740*	ND	ND	ND	ND	ND	ND	ND	ND
30	1,2-Dichloroethane	1	1	*5/360*	ND	ND	ND	ND	ND	ND	ND	ND
31	1,1-Dichloroethene	1	1	*7/130*	ND	ND	ND	ND	ND	ND	ND	ND
32	cis-1,2-Dichloroethene	1	1	70/*620*	ND	ND	ND	ND	ND	ND	ND	ND
33	trans-1,2-Dichloroethene	1	1	100/*1,500*	ND	ND	ND	ND	ND	ND	ND	ND
34	1,2-Dichloropropane	1	1	*5/230*	ND	ND	ND	ND	ND	ND	ND	ND
35	1,3-Dichloropropane	1	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
36	1,1-Dichloropropene	1	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
37	cis-1,3-Dichloropropene	1	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
38	trans-1,3-Dichloropropene	1	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
39	Diethyl Ether	10	10	10	ND	ND	ND	ND	ND	ND	ND	ND
40	Ethylbenzene	1	1	*74/18*	ND	ND	ND	ND	ND	ND	ND	ND
41	Fluorotrichloromethane (Trichlorofluorom	1		2,600	---	---	---	---	---	---	---	---
42	2-Hexanone (MBK)	50	50	1,000	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2. Summary of Analytical Results

	ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	MW-2sr	MW-2dr	MW-3	MW-7r	MW-8s	MW-8dr	MW-10s	MW-10dr
43	Isopropylbenzene	5	1	800/*28*	ND	ND	ND	ND	ND	ND	ND	ND
44	Methyl Iodide	1	1	NA	ND	ND	ND	ND	ND	ND	ND	ND
45	Methylene Chloride	5	5	*5/1,500*	ND	ND	ND	ND	ND	ND	ND	ND
46	2-Methylnaphthalene	5	5	260/*19*	ND	ND	ND	ND	ND	ND	ND	ND
47	4-Methyl-2-Pentanone (MIBK)	50	50	1,800	ND	ND	ND	ND	ND	ND	ND	ND
48	Methyl tert butyl ether (MTBE)	5	5	40/*7,100*	ND	ND	ND	ND	ND	ND	ND	ND
49	Naphthalene	5	5	520/*11*	ND	ND	ND	ND	ND	ND	ND	ND
50	n-Propylbenzene	1	1	80	ND	ND	ND	ND	ND	ND	ND	ND
51	Styrene	1	1	100/*80*	ND	ND	ND	ND	ND	ND	ND	ND
52	1,1,1,2-Tetrachloroethane	1	1	77	ND	ND	ND	ND	ND	ND	ND	ND
53	1,1,2,2-Tetrachloroethane	1	1	8 5/*78*	ND	ND	ND	ND	ND	ND	ND	ND
54	Tetrachloroethene	1	1	*5/60*	ND	ND	ND	ND	ND	ND	ND	ND
55	Toluene	1	1	790/*270*	ND	ND	ND	ND	ND	ND	ND	ND
56	1,2,3-Trichlorobenzene	---	5	NA	ND	ND	ND	ND	ND	ND	ND	ND
57	1,2,4-Trichlorobenzene	5	5	70/99	ND	ND	ND	ND	ND	ND	ND	ND
58	1,1,1-Trichloroethane	1	1	200/*89*	ND	ND	ND	ND	ND	ND	ND	ND
59	1,1,2-Trichloroethane	1	1	*5/330*	ND	ND	ND	ND	ND	ND	ND	ND
60	Trichloroethene	1	1	*5/200*	ND	ND	ND	ND	ND	ND	ND	ND
61	1,2,3-Trichloropropane	1	1	42	ND	ND	ND	ND	ND	ND	ND	ND
62	1,2,4-Trimethylbenzene	1	5	63/*17*	ND	ND	ND	ND	ND	ND	ND	ND
63	1,3,5-Trimethylbenzene	1.0	1	*72/45*	ND	ND	ND	ND	ND	ND	ND	ND
64	Vinyl Acetate	100	5	640	ND	ND	ND	ND	ND	ND	ND	ND
65	Vinyl Chloride	1	1	*2/13*	ND	ND	ND	ND	ND	ND	ND	ND
66	Xylenes	3	3	280/*49*	ND	ND	ND	ND	ND	ND	ND	ND
TRACE ELEMENTS BY ICP/MS												
	Arsenic	5	5	10/*10*	ND	ND	ND	ND	ND	ND	**5.5**	ND
	Barium	100	100	2,000	ND	ND	ND	ND	ND	ND	**150**	**140**
	Cadmium	1	1	5	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	---	60000	NA	**100,000**	**120,000**	**100,000**	**100,000**	**89,000**	**110,000**	**120,000**	**120,000**
	Chromium	10	10	100/*11*	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	4	4	1,000	ND	ND	ND	ND	ND	ND	ND	ND
	Iron	200	100	300	**390**	**1,100**	**130**	**450**	ND	ND	**1,900**	**2,200**
	Lead	3	3	4	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	1000	300	400,000	**29,000**	**37,000**	**29,000**	**28,000**	**19,000**	**31,000**	**39,000**	**40,000**
	Manganese	50	50	50	**140**	**110**	ND	**220**	ND	**270**	ND	**97**
	Nickel	20	20	100	ND	ND	ND	ND	ND	ND	ND	ND
	Potassium	---	1000	NA	**2,000**	**3,300**	**1,300**	**1,600**	ND	**1,300**	**1,500**	**2,800**
	Selenium	5	5	50/*5*	ND	ND	**5.0**	ND	ND	ND	ND	ND
	Sodium	1000	1000	230,000	**7,900**	**24,000**	**8,900**	**5,400**	**3,000**	**25,000**	**23,000**	**19,000**
	Zinc	50	50	2,400	ND	ND	**170**	ND	**410**	ND	**320**	ND
TRACE ELEMENTS BY CVAAS												
	Mercury	0.001	0.2	*2/0.0013*	---	---	---	---	---	---	---	---

TABLE 2. Summary of Analytical Results

ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	MW-2sr	MW-2dr	MW-3	MW-7r	MW-8s	MW-8dr	MW-10s	MW-10dr
ALKALINITY AND INORGANICS											
Total Alkalinity	---	---	NA	**350,000**	**450,000**	**360,000**	**390,000**	**320,000**	**300,000**	**470,000**	**440,000**
Bicarbonate Alkalinity	---	20000	NA	**350,000**	**450,000**	**360,000**	**390,000**	**320,000**	**300,000**	**470,000**	**440,000**
Carbonate Alkalinity	---	20000	NA	ND	ND	ND	ND	ND	ND	ND	ND
Hydroxide Alkalinity	---	20000	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloride	10000	1000	250,000	**7,900**	**19,000**	**2,600**	**2,900**	**1,700**	**68,000**	**33,000**	**30,000**
Nitrate, as N	100	23	10,000	ND	ND	ND	ND	**170**	ND	ND	ND
Nitrate + Nitrite (as N)	---	53	NA	ND	ND	ND	ND	**200**	ND	ND	ND
Nitrite, as N	100	30	1,000	ND	ND	**30**	**34**	**33**	ND	ND	**35**
Sulfate	1000	1000	250,000	**48,000**	**46,000**	**45,000**	**9,000**	**5,100**	**49,000**	**34,000**	**41,000**
Total Organic Carbon (TOC)	---	1000	NA	**1,200**	**1,600**	**1,800**	**2,200**	ND	ND	**1,900**	**1,500**
Phenols (Colormetric)	---	50	4,400/*450*	**69**	ND	ND	ND	ND	ND	ND	ND
Chemical Oxygen Demand (COD)	---	5000	NA	ND	ND	**6,700**	ND	ND	ND	ND	7,400
Total Dissolved Soilds (TDS)	10000	40000	500,000/*500,000 (EE)*	**360,000**	**530,000**	**340,000**	**390,000**	**310,000**	**450,000**	**370,000**	**560,000**
Nitrogen, Ammonia as N	25	50	10,000/*CC*	**120**	**670**	ND	ND	ND	ND	**53**	**100**
Phosphorous, Total	10	10	63,000/*1,000 (EE)*	**810**	**250**	**36**	**25**	**53**	ND	ND	**18**

NOTES: All Concentrations reported as ug/L or parts per billion
TMDL: Target Method Detection Limit
RL: Lab Reporting Limit
ND: Not Detected above compound-specific reporting limits
NA or ---: Not Available
CC: Standard is pH and temperature dependent and is approximately 763 ppb
EE: Standard is required by Section 20120(15) of NREPA
Shaded value exceeds DW GRCC
Boxed cell exceeds GSI GRCC
Metal concentrations reported as dissolved for groundwater/monitor well samples
Metal concentrations reported as total for surface water samples
**: Duplicate analysis outside control limits
Surface water value is not compared to DW/GSI GRCC

TABLE 2. Summary of Analytical Results

	ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	MW-12r	MW-15sr	MW-15dr	MW-16	MW-17sr	MW-17dr	MW-18sr	MW-19s
ORGANICS												
1	Acetone	50	25	730/*1,700*	---	ND	ND	---	ND	ND	ND	ND
2	Acrylonitrile	2	1	2.6	---	ND	ND	---	ND	ND	ND	ND
3	Benzene	1	1	5/*200*	---	ND	ND	---	ND	ND	ND	ND
4	Bromobenzene	1	1	18	---	ND	ND	---	ND	ND	ND	ND
5	Bromochloromethane	1	1	NA	---	ND	ND	---	ND	ND	ND	ND
6	Bromodichloromethane	1	1	80	---	ND	ND	---	ND	ND	ND	ND
7	Bromoform	1	1	80	---	ND	ND	---	ND	ND	ND	ND
8	Bromomethane (Methyl Bromide)	5	5	10	---	ND	ND	---	ND	ND	ND	ND
9	2-Butanone (MEK)	25	50	13,000/*2,200*	---	ND	ND	---	ND	ND	ND	ND
10	n-Butylbenzene	1	1	80	---	ND	ND	---	ND	ND	ND	ND
11	sec-Butylbenzene	1	1	80	---	ND	ND	---	ND	ND	ND	ND
12	tert-Butylbenzene	1	1	80	---	ND	ND	---	ND	ND	ND	ND
13	Carbon Disulfide	5	5	800	---	ND	ND	---	ND	ND	ND	ND
14	Carbon Tetrachloride	1	1	5/*38*	---	ND	ND	---	ND	ND	ND	ND
15	Chlorobenzene	1	1	100/*25*	---	ND	ND	---	ND	ND	ND	ND
16	Chloroethane	5	2	430/*1,100*	---	ND	ND	---	ND	ND	ND	ND
17	Chloroform	1	1	80/*350*	---	ND	ND	---	ND	ND	ND	ND
18	Chloromethane (Methyl Chloride)	5	5	260	---	ND	ND	---	ND	ND	ND	ND
19	2-Chlorotoluene	5	1	150	---	ND	ND	---	ND	ND	ND	ND
20	1,2-Dibromo-3-Chloropropane	0.2	1	NA	---	ND	ND	---	ND	ND	ND	ND
21	1,2-Dibromoethane (Ethylene Dibromide	0.05	1	0.05/*5.7*	---	---	---	---	---	---	---	---
22	Dibromochloromethane	---	1	80	---	ND	ND	---	ND	ND	ND	ND
23	Dibromomethane	5	1	80	---	ND	ND	---	ND	ND	ND	ND
24	1,2-Dichlorobenzene	1	1	600/*13*	---	ND	ND	---	ND	ND	ND	ND
25	1,3-Dichlorobenzene	1	1	6.6/*28*	---	ND	ND	---	ND	ND	ND	ND
26	1,4-Dichlorobenzene	1	1	75/*17*	---	ND	ND	---	ND	ND	ND	ND
27	trans-1,4-Dichloro-2-Butene	1		NA	---	---	---	---	---	---	---	---
28	Dichlorodifluoromethane	5	1	1,700	---	ND	ND	---	ND	**7.2**	ND	ND
29	1,1-Dichloroethane	1	1	880/*740*	---	**3.4**	ND	---	ND	ND	ND	ND
30	1,2-Dichloroethane	1	1	5/*360*	---	**1.2**	ND	---	ND	ND	ND	ND
31	1,1-Dichloroethene	1	1	7/*130*	---	ND	ND	---	ND	ND	ND	ND
32	cis-1,2-Dichloroethene	1	1	70/*620*	---	**58**	ND	---	ND	ND	ND	ND
33	trans-1,2-Dichloroethene	1	1	100/*1,500*	---	ND	ND	---	ND	ND	ND	ND
34	1,2-Dichloropropane	1	1	5/*230*	---	ND	ND	---	ND	ND	ND	ND
35	1,3-Dichloropropane	1	1	NA	---	ND	ND	---	ND	ND	ND	ND
36	1,1-Dichloropropene	1	1	NA	---	ND	ND	---	ND	ND	ND	ND
37	cis-1,3-Dichloropropene	1	1	NA	---	ND	ND	---	ND	ND	ND	ND
38	trans-1,3-Dichloropropene	1	1	NA	---	ND	ND	---	ND	ND	ND	ND
39	Diethyl Ether	10	10	10	---	**16**	ND	---	ND	**14**	ND	ND
40	Ethylbenzene	1	1	74/*18*	---	ND	ND	---	ND	ND	ND	ND
41	Fluorotrichloromethane (Trichlorofluorom	1		2,600	---	---	---	---	---	---	---	---
42	2-Hexanone (MBK)	50	50	1,000	---	ND	ND	---	ND	ND	ND	ND

TABLE 2. Summary of Analytical Results

	ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	MW-12r	MW-15sr	MW-15dr	MW-16	MW-17sr	MW-17dr	MW-18sr	MW-19s
43	Isopropylbenzene	5	1	800/*28*	---	ND	ND	---	ND	ND	ND	ND
44	Methyl Iodide	1	1	NA	---	ND	ND	---	ND	ND	ND	ND
45	Methylene Chloride	5	5	*5/1,500*	---	ND	ND	---	ND	ND	ND	ND
46	2-Methylnaphthalene	5	5	*260/19*	---	ND	ND	---	ND	ND	ND	ND
47	4-Methyl-2-Pentanone (MIBK)	50	50	1,800	---	ND	ND	---	ND	ND	ND	ND
48	Methyl tert butyl ether (MTBE)	5	5	*40/7,100*	---	ND	ND	---	ND	ND	ND	ND
49	Naphthalene	5	5	*520/11*	---	ND	ND	---	ND	ND	ND	ND
50	n-Propylbenzene	1	1	80	---	ND	ND	---	ND	ND	ND	ND
51	Styrene	1	1	100/*80*	---	ND	ND	---	ND	ND	ND	ND
52	1,1,1,2-Tetrachloroethane	1	1	77	---	ND	ND	---	ND	ND	ND	ND
53	1,1,2,2-Tetrachloroethane	1	1	8.5/*78*	---	ND	ND	---	ND	ND	ND	ND
54	Tetrachloroethene	1	1	*5/60*	---	ND	ND	---	ND	ND	ND	ND
55	Toluene	1	1	790/*270*	---	ND	ND	---	ND	ND	ND	ND
56	1,2,3-Trichlorobenzene	---	5	NA	---	ND	ND	---	ND	ND	ND	ND
57	1,2,4-Trichlorobenzene	5	5	70/99	---	ND	ND	---	ND	ND	ND	ND
58	1,1,1-Trichloroethane	1	1	200/*89*	---	ND	ND	---	ND	ND	ND	ND
59	1,1,2-Trichloroethane	1	1	*5/330*	---	ND	ND	---	ND	ND	ND	ND
60	Trichloroethene	1	1	*5/200*	---	ND	ND	---	ND	ND	ND	ND
61	1,2,3-Trichloropropane	1	1	42	---	ND	ND	---	ND	ND	ND	ND
62	1,2,4-Trimethylbenzene	1	5	63/*17*	---	ND	ND	---	ND	ND	ND	ND
63	1,3,5-Trimethylbenzene	1.0	1	72/*45*	---	ND	ND	---	ND	ND	ND	ND
64	Vinyl Acetate	100	5	640	---	ND	ND	---	ND	ND	ND	ND
65	Vinyl Chloride	1	1	*2/13*	---	**1.5**	**1.2**	---	**2.4**	**11**	ND	ND
66	Xylenes	3	3	280/*49*	---	ND	ND	---	ND	ND	ND	ND

TRACE ELEMENTS BY ICP/MS					---							
	Arsenic	5	5	10/*10*	---	ND	**5.9**	---	**10**	**9.7**	**9.1**	**7.0**
	Barium	100	100	2,000	---	**150**	**160**	---	**240**	**310**	**150**	**210**
	Cadmium	1	1	5	---	ND	ND	---	ND	ND	ND	ND
	Calcium	---	60000	NA	---	**130,000**	**100,000**	---	**110,000**	**150,000**	**96,000**	**120,000**
	Chromium	10	10	100/*11*	---	ND	**27**	---	ND	ND	ND	ND
	Copper	4	4	1,000	---	ND	**6.9**	---	ND	ND	ND	ND
	Iron	200	100	300	---	ND	**2,900**	---	**3,300**	**5,600**	**2,400**	**2,800**
	Lead	3	3	4	---	ND	ND	---	ND	ND	ND	ND
	Magnesium	1000	300	400,000	---	**44,000**	**29,000**	---	**31,000**	**38,000**	**35,000**	**40,000**
	Manganese	50	50	50	---	**58**	**68**	---	**60**	**96**	**120**	**59**
	Nickel	20	20	100	---	ND	ND	---	ND	ND	ND	ND
	Potassium	---	1000	NA	---	**3,000**	**1,200**	---	**1,800**	**1,600**	**3,800**	**1,800**
	Selenium	5	5	50/*5*	---	ND	ND	---	ND	ND	ND	ND
	Sodium	1000	1000	230,000	---	**35,000**	**6,700**	---	**9,900**	**15,000**	**32,000**	**30,000**
	Zinc	50	50	2,400	---	ND	ND	---	ND	ND	ND	**100**
TRACE ELEMENTS BY CVAAS												
	Mercury	0.001	0.2	*2/0.0013*	---	---	---	---	---	---	---	---

TABLE 2. Summary of Analytical Results

ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	MW-12r	MW-15sr	MW-15dr	MW-16	MW-17sr	MW-17dr	MW-18sr	MW-19s
				---							
ALKALINITY AND INORGANICS				---							
Total Alkalinity	---	---	NA	---	**470,000**	**350,000**	---	**390,000**	**530,000**	**390,000**	**450,000**
Bicarbonate Alkalinity	---	20000	NA	---	**470,000**	**350,000**	---	**390,000**	**530,000**	**390,000**	**450,000**
Carbonate Alkalinity	---	20000	NA	---	ND	ND	---	ND	ND	ND	ND
Hydroxide Alkalinity	---	20000	NA	---	ND	ND	---	ND	ND	ND	ND
Chloride	10000	1000	250,000	---	**68,000**	**6,400**	---	**9,200**	**14,000**	**30,000**	**38,000**
Nitrate, as N	100	23	10,000	---	ND	ND	---	ND	ND	ND	ND
Nitrate + Nitrite (as N)	---	53	NA	---	ND	ND	---	ND	ND	ND	ND
Nitrite, as N	100	30	1,000	---	ND	ND	---	**32**	ND	ND	ND
Sulfate	1000	1000	250,000	---	**18,000**	**40,000**	---	**36,000**	**27,000**	**42,000**	**35,000**
Total Organic Carbon (TOC)	---	1000	NA	---	**3,500**	**1,500**	---	**1,200**	**1,300**	**1,300**	**2,100**
Phenols (Colormetric)	---	50	4,400/*450*	---	ND	ND	---	ND	ND	ND	ND
Chemical Oxygen Demand (COD)	---	5000	NA	---	**13,000**	**25,000**	---	ND	ND	**5,400**	**5,400**
Total Dissolved Soilds (TDS)	10000	40000	500,000/*500,000 (EE)*	---	**480,000**	**350,000**	---	**460,000**	**580,000**	**510,000**	**560,000**
Nitrogen, Ammonia as N	25	50	10,000/*CC*	---	**260**	**110**	---	**88**	**110**	**140**	**77**
Phosphorous, Total	10	10	63,000/*1,000 (EE)*	---	**4,700**	**21**	---	**12**	**38**	**810**	**14**

NOTES: All Concentrations reported as ug/L or parts per billion
TMDL: Target Method Detection Limit
RL: Lab Reporting Limit
ND: Not Detected above compound-specific reporting limits
NA or ---: Not Available
CC: Standard is pH and temperature dependent and is approximately 763 ppb
EE: Standard is required by Section 20120(15) of NREPA
Shaded value exceeds DW GRCC
Boxed cell exceeds GSI GRCC
Metal concentrations reported as dissolved for groundwater/monitor well samples
Metal concentrations reported as total for surface water samples
**: Duplicate analysis outside control limits
Surface water value is not compared to DW/GSI GRCC

TABLE 2. Summary of Analytical Results

	ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	SW-1	SW-2
ORGANICS						
1	Acetone	50	25	730/*1,700*	ND	ND
2	Acrylonitrile	2	1	2.6	ND	ND
3	Benzene	1	1	5/*200*	ND	ND
4	Bromobenzene	1	1	18	ND	ND
5	Bromochloromethane	1	1	NA	ND	ND
6	Bromodichloromethane	1	1	80	ND	ND
7	Bromoform	1	1	80	ND	ND
8	Bromomethane (Methyl Bromide)	5	5	10	ND	ND
9	2-Butanone (MEK)	25	50	13,000/*2,200*	ND	ND
10	n-Butylbenzene	1	1	80	ND	ND
11	sec-Butylbenzene	1	1	80	ND	ND
12	tert-Butylbenzene	1	1	80	ND	ND
13	Carbon Disulfide	5	5	800	ND	ND
14	Carbon Tetrachloride	1	1	5/*38*	ND	ND
15	Chlorobenzene	1	1	100/*25*	ND	ND
16	Chloroethane	5	2	430/*1,100*	ND	ND
17	Chloroform	1	1	80/*350*	ND	ND
18	Chloromethane (Methyl Chloride)	5	5	260	ND	ND
19	2-Chlorotoluene	5	1	150	ND	ND
20	1,2-Dibromo-3-Chloropropane	0.2	1	NA	ND	ND
21	1,2-Dibromoethane (Ethylene Dibromide)	0.05	1	0.05/*5.7*	ND	ND
22	Dibromochloromethane	---	1	80	ND	ND
23	Dibromomethane	5	1	80	ND	ND
24	1,2-Dichlorobenzene	1	1	600/*13*	ND	ND
25	1,3-Dichlorobenzene	1	1	6.6/*28*	ND	ND
26	1,4-Dichlorobenzene	1	1	75/*17*	ND	ND
27	trans-1,4-Dichloro-2-Butene	1		NA	---	---
28	Dichlorodifluoromethane	5	1	1,700	ND	ND
29	1,1-Dichloroethane	1	1	880/*740*	ND	ND
30	1,2-Dichloroethane	1	1	5/*360*	ND	ND
31	1,1-Dichloroethene	1	1	7/*130*	ND	ND
32	cis-1,2-Dichloroethene	1	1	70/*620*	ND	ND
33	trans-1,2-Dichloroethene	1	1	100/*1,500*	ND	ND
34	1,2-Dichloropropane	1	1	5/*230*	ND	ND
35	1,3-Dichloropropane	1	1	NA	ND	ND
36	1,1-Dichloropropene	1	1	NA	ND	ND
37	cis-1,3-Dichloropropene	1	1	NA	ND	ND
38	trans-1,3-Dichloropropene	1	1	NA	ND	ND
39	Diethyl Ether	10	10	10	ND	ND
40	Ethylbenzene	1	1	74/*18*	ND	ND
41	Fluorotrichloromethane (Trichlorofluorom	1		2,600	---	---
42	2-Hexanone (MBK)	50	50	1,000	ND	ND

TABLE 2. Summary of Analytical Results

	ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	SW-1	SW-2
43	Isopropylbenzene	5	1	800/*28*	ND	ND
44	Methyl Iodide	1	1	NA	ND	ND
45	Methylene Chloride	5	5	*5/1,500*	ND	ND
46	2-Methylnaphthalene	5	5	260/*19*	ND	ND
47	4-Methyl-2-Pentanone (MIBK)	50	50	1,800	ND	ND
48	Methyl tert butyl ether (MTBE)	5	5	40/*7,100*	ND	ND
49	Naphthalene	5	5	520/*11*	ND	ND
50	n-Propylbenzene	1	1	80	ND	ND
51	Styrene	1	1	100/*80*	ND	ND
52	1,1,1,2-Tetrachloroethane	1	1	77	ND	ND
53	1,1,2,2-Tetrachloroethane	1	1	8.5/*78*	ND	ND
54	Tetrachloroethene	1	1	*5/60*	ND	ND
55	Toluene	1	1	790/*270*	ND	ND
56	1,2,3-Trichlorobenzene	---	5	NA	ND	ND
57	1,2,4-Trichlorobenzene	5	5	70/99	ND	ND
58	1,1,1-Trichloroethane	1	1	200/*89*	ND	ND
59	1,1,2-Trichloroethane	1	1	*5/330*	ND	ND
60	Trichloroethene	1	1	*5/200*	ND	ND
61	1,2,3-Trichloropropane	1	1	42	ND	ND
62	1,2,4-Trimethylbenzene	1	5	63/*17*	ND	ND
63	1,3,5-Trimethylbenzene	1.0	1	*72/45*	ND	ND
64	Vinyl Acetate	100	5	640	ND	ND
65	Vinyl Chloride	1	1	*2/13*	ND	ND
66	Xylenes	3	3	280/*49*	ND	ND
TRACE ELEMENTS BY ICP/MS						
	Arsenic	5	5	10/*10*	ND	ND
	Barium	100	100	2,000	ND	ND
	Cadmium	1	1	5	ND	ND
	Calcium	---	60000	NA	**200,000**	**250,000**
	Chromium	10	10	100/*11*	ND	ND
	Copper	4	4	1,000	ND	ND
	Iron	200	100	300	**1,200**	**970**
	Lead	3	3	4	ND	ND
	Magnesium	1000	300	400,000	**36,000**	**19,000**
	Manganese	50	50	50	**170**	**54**
	Nickel	20	20	100	ND	ND
	Potassium	---	1000	NA	**6,300**	**1,000**
	Selenium	5	5	50/*5*	ND	ND
	Sodium	1000	1000	230,000	**19,000**	**6,200**
	Zinc	50	50	2,400	ND	ND
TRACE ELEMENTS BY CVAAS						
	Mercury	0.001	0.2	*2/0.0013*	---	---

TABLE 2. Summary of Analytical Results

ANALYTES	TMDL	RL	Updated GRCC DW/*GSI*	SW-1	SW-2
ALKALINITY AND INORGANICS					
Total Alkalinity	---	---	NA	**490,000**	**200,000**
Bicarbonate Alkalinity	---	20000	NA	**490,000**	**200,000**
Carbonate Alkalinity	---	20000	NA	ND	ND
Hydroxide Alkalinity	---	20000	NA	ND	ND
Chloride	10000	1000	250,000	**19,000**	ND
Nitrate, as N	100	23	10,000	**410**	**3,900**
Nitrate + Nitrite (as N)	---	53	NA	**440**	**4,000**
Nitrite, as N	100	30	1,000	**36**	**34**
Sulfate	1000	1000	250,000	**6,800**	**18,000**
Total Organic Carbon (TOC)	---	1000	NA	**4,800**	**11,000**
Phenols (Colormetric)	---	50	4,400/*450*	ND	ND
Chemical Oxygen Demand (COD)	---	5000	NA	**26,000**	**28,000**
Total Dissolved Soilds (TDS)	10000	40000	500,000/*500,000 (EE)*	**570,000**	**370,000**
Nitrogen, Ammonia as N	25	50	10,000/*CC*	**4,700**	**20**
Phosphorous, Total	10	10	63,000/*1,000 (EE)*	ND	**71**

NOTES: All Concentrations reported as ug/L or parts per billion
TMDL: Target Method Detection Limit
RL: Lab Reporting Limit
ND: Not Detected above compound-specific reporting limits
NA or ---: Not Available
CC: Standard is pH and temperature dependent and is approximately 763 ppb
EE: Standard is required by Section 20120(15) of NREPA
Shaded value exceeds DW GRCC
Boxed cell exceeds GSI GRCC
Metal concentrations reported as dissolved for groundwater/monitor well samples
Metal concentrations reported as total for surface water samples
**: Duplicate analysis outside control limits
Surface water value is not compared to DW/GSI GRCC

STRATA ENVIRONMENTAL SERVICES, INC.

Via Email

March 29, 2024

Chad Powers
Director
Eaton County Physical Plant
1045 Independence Boulevard
Charlotte, MI 48813

Re: **Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)**
Semi-Annual Groundwater Sampling, Eaton County Landfill

Dear Mr. Powers:

Strata Environmental Services, Inc. (Strata) completed the semi-annual sampling of five monitor wells (MW-3s, MW-15sr, MW-15dr, MW-17sr, and MW-19s) at the former Eaton County Landfill for perfluoroalkyl and polyfluoroalkyl substances (PFAS). Refer to Figure 1 for well locations.

Sampling procedures followed the Michigan Department of Environment, Great Lakes, and Energy (EGLE) PFAS Sampling Quick Reference Guide (SQRG) to assure the integrity of the samples collected. Strata personnel wore non-water-proof clothing, disposable, powderless nitrile gloves, and personal hygiene followed the recommendations in the SQRG.

Strata personnel were on site March 12, 2024 to conduct the first semi-annual PFAS sampling event of 2024. Prior to sampling each well, the static water level was measured and recorded in the field log book. The water level meter was decontaminated between each use with Liquinox and PFAS-free water (supplied by the laboratory) and rinsed with PFAS-free water. The water samples were collected using low-flow techniques with a peristaltic pump and disposable, high-density, polyethylene (HDPE) tubing. During pumping, the water level was measured at specific volumes (usually at one liter volume) and field measurements of pH, dissolved oxygen (DO), temperature, oxygen reduction potential (ORP), and specific conductance were collected using a YSI Professional Plus combination meter. In addition, the turbidity of the water was monitored at the specific volumes with a Geotech turbidity meter. All readings were recorded on the "Groundwater Monitoring Field Data Sheets" included as Attachment 1. Samples were collected once the field measurements had generally stabilized to within five percent of previous measurements and (when possible) turbidity readings were less than 10 nephelometric turbidity units (NTU). All samples were collected in laboratory prepared containers. A field blank was collected at a sample location by pouring a bottle of PFAS-free water into the sample container. Strata also collected an equipment blank by pumping PFAS-free water through the HDPE tubing into the sample container. Following collection, the sample containers were placed in a cooler on ice. Samples were delivered to Fibertec Environmental Services in Holt, Michigan following chain-of-custody protocol.

The last sampling event (September 2023), samples were analyzed for 31 PFAS compounds (recommended by EGLE). No other compounds have been added since the last event, therefore the samples were analyzed for 31 PFAS compounds by USEPA Method 537M. Analytical results and chain-of-custody record are included as Attachment 2. The following is a list of the PFAS compounds detected in the aforementioned samples:

Perfluorobutanoic acid (PFBA)
Perfluorohexanoic acid (PFHxA)
Perfluoroethylcyclohexane sulfonate (PFECHS)
Perfluorooctyl sulfonate (PFOS)
Perfluorobutanesulfonic acid (PFBS)
Perfluorooctanoic acid (PFOA)
Perfluoropentanesulfonic acid (PFPeS)
Perfluoroheptanoic acid (PFHpA)
Perfluoro-n-pentanoic acid (PFPeA)
Perfluorohexanesulfonic acid (PFHxS)

The State of Michigan signed into law maximum contaminant levels (MCLs) for seven PFAS compounds that have been in effect and enforceable since December 2020. Table 1 presents the sample location, PFAS compound detected, concentration, and MCL if published.

TABLE 1
Summary of PFAS Compound Concentrations
Detected in Groundwater
(All concentrations in ng/L)

Sample Location	PFBA	PFBS	PFHpA	PFHxA	PFOA	PFPeA	PFECHS	PFPeS	PFHxS	PFOS
MW-3	---	1.2	---	---	---	---	8.1	---	---	---
MW-15sr	5.1	4.5	1.9	4.3	**9.4**	3.1	3.1	1.3	5.2	6.6
MW-15dr	---	---	---	---	---	---	---	---	---	---
MW-17sr	3.9	---	---	3.0	---	3.5	---	---	---	---
MW-19s	14	8.0	1.6	12	2.3	8.9	---	1.1	---	---
Field Blank	---	---	---	---	---	---	---	---	---	---
Equip. Blank	---	---	---	---	---	---	---	---	---	---
MCL	NA	420	NA	400,000	8	NA	NA	NA	51	16

Gray shaded cell with bolded font denotes concentration exceeds MCL
---: Not detected above compound-specific reporting limit
NA: Not Available/Not Applicable
***: Denotes compound detected in field blank**

The reported concentrations this sampling event are similar to the last time the wells were sampled in September 2023. The PFAS compound PFOS was detected this event and has not been detected in past events. As can be seen in Table 1, of the ten PFAS compounds detected in the groundwater at the former Eaton County Landfill site, only the PFOA concentration in the sample from MW-15sr exceeds its published MCL. Specifically, the 9.4 ng/L PFOA concentration reported in MW-15sr barely exceeds its MCL of 8 ng/L.

The next scheduled semi-annual PFAS sampling event is scheduled for September 2024. The aforementioned set of wells will be sampled and analyzed.

Should there be any questions regarding the work done or results, please do not hesitate to contact our office at (517) 676-6900.

Sincerely,

STRATA ENVIRONMENTAL SERVICES, INC.

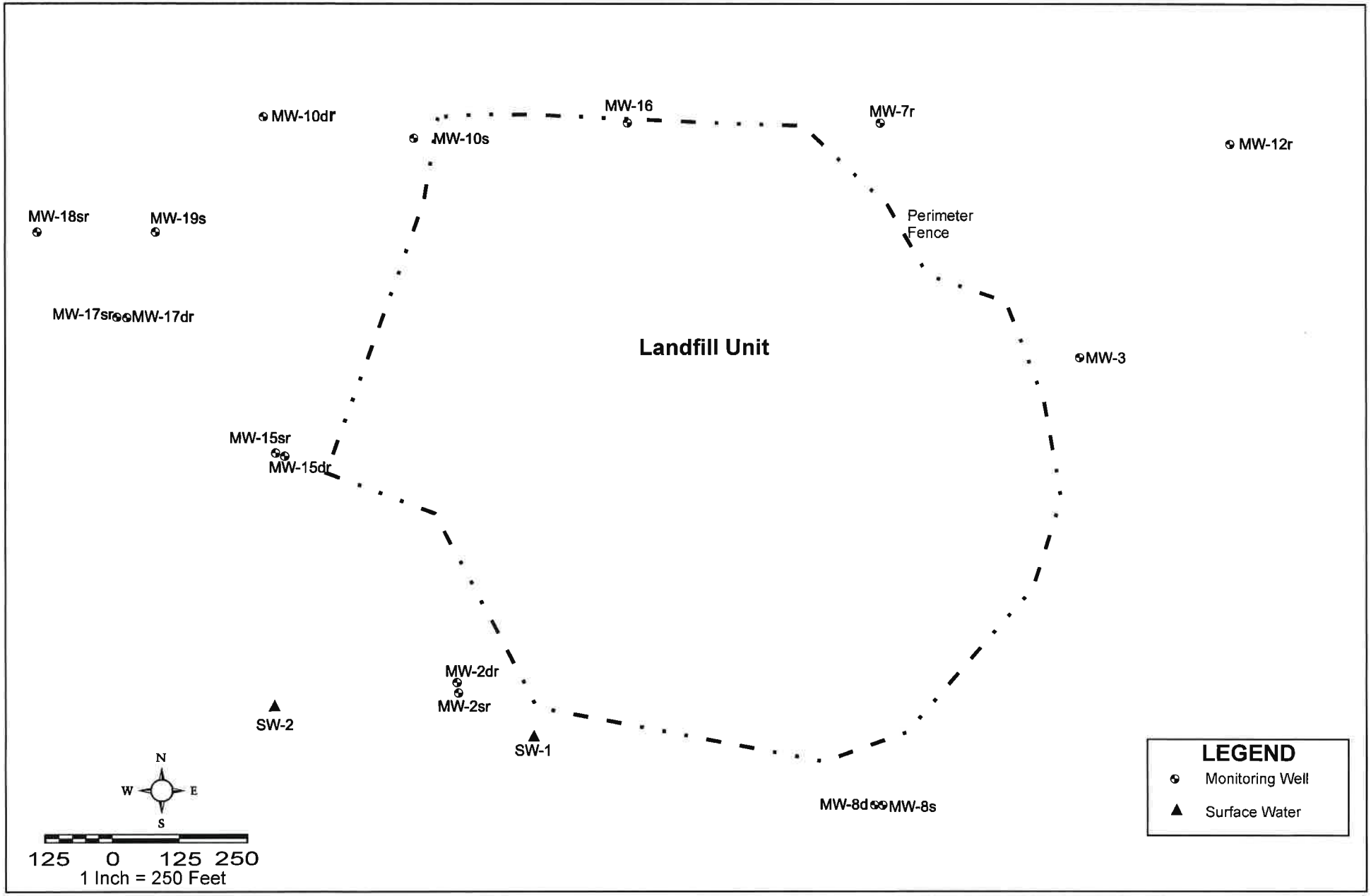
Sophia V. Serafini
Environmental Professional

Encls.

Cc: Mr. Evin Maguire (EGLE)

R.B. MCS (H)
9261422L.094

FIGURES



SEMI-ANNUAL GROUNDWATER MONITORING
Eaton County Landfill
Section 20, Benton Township
Eaton County, Michigan

926-1422

STRATA ENVIRONMENTAL SERVICES, INC.

FIGURE 1

Monitor Well Locations

ATTACHMENT 1

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-3** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 912.92
Static Water Level (ft.) 3.19
Ground Water Elevation: 909.73 feet
Well Depth:TOC Reference 17.20

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-12-24
Time of Purge: 1005
Volume of Water in Casing: gals.
Purge Volume 3X [ ] 5X [ ] Other [X] gals.
Purge Water Appearance: light rust
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [ ] S.S. Submersible Pump
Purge Method: [X] Low Flow (peristaltic)
Decon: Yes [ ] No [X]
Type: Liquinox & Water Wash [ ]
Water Rinse [ ] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-12-24
Time of Sampling: 1020
Field Filtration?: Yes [ ] No [X]
Weather: sunny 49°F
Sample Appearance: clear

Sampling Method: [ ] Bailer [X] Pump
Decon?: Yes [ ] No [X]
Sp. Conductance: 0.715 umohs/cm
Temperature °C: 8.0
pH: 7.16

PURGE DATA:

Volume Removed	SWL 3.18	pH	D.O. mg/l	Temperature °C	ORP mV	Specific Conductance u Siemens	Turbidity
1.0 L	3.85	7.12	0.50	7.7	56.4	0.744	179
3.0 L	3.83	7.12	1.81	7.8	35.6	0.729	82.0
5.0 L	3.83	7.12	2.31	7.9	23.5	0.725	41.2
7.0 L	3.84	7.16	2.41	7.9	12.8	0.717	30.2
9.0 L	3.84	7.16	2.53	7.9	7.6	0.715	12.5
10.0 L	3.84	7.16	2.49	8.0	6.5	0.715	9.98
L							
L							

COMMENTS: sample #1

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-15sr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 869.61
Static Water Level (ft.) 12.09
Ground Water Elevation: 857.52 feet
Well Depth:TOC Reference 43.00
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-12-24
Time of Purge: 1030
Volume of Water in Casing: gals.
Purge Volume 3X [ ] 5X [ ] Other [X] gals.
Purge Water Appearance: clear
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [ ] S.S. Submersible
Purge Method: [X] Low Flow (peristaltic)
Decon: Yes [ ] No [X]
Type: Liquinox & Water Wash [ ]
Water Rinse [ ] Dist. Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-12-24
Time of Sampling: 1040
Field Filtration?: Yes [ ] No [X]
Weather: sunny 50°F
Sample Appearance: clear

Sampling Method: [ ] Bailer [X] Pump
Decon?: Yes [ ] No [X]
Sp. Conductance: 0.72 umohs/cm
Temperature °C: 11.1
pH: 7.53

PURGE DATA:

Volume Removed	SWL 12.09	pH	D.O. mg/l	Temperature °C	ORP mV	Specific Conductance u Siemens	Turbidity
1.0 L	13.72	7.53	5.97	11.1	18.4	0.72	3.20
2.0 L	15.21	7.53	6.00	11.1	14.2	0.72	5.93
3.0 L	16.56	7.53	6.13	11.0	11.6	0.72	4.53
4.0 L	17.89	7.53	6.16	11.1	10.0	0.72	6.01
L							
L							
L							
L							

COMMENTS: Sample # 2

Pump rate set as low as possible, water level continually dropped during purge

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-15dr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 870.16
Static Water Level (ft.) 13.04
Ground Water Elevation: 857.12 feet
Well Depth:TOC Reference 58.00
Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-12-24
Time of Purge: 1050
Volume of Water in Casing: gals
Purge Volume 3X [ ] 5X [ ] Other [X] gals
Purge Water Appearance: clear
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [ ] S.S. Submersible Pump
Purge Method: [X] Low Flow Pump (peristaltic)
Decon Yes [ ] No [X]
Type: Liquinox & Water Wash [ ]
Water Rinse [ ] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-12-24
Time of Sampling: 1100
Field Filtration?: Yes [ ] No [X]
Weather: Sunny 51°F
Sample Appearance: clear

Sampling Method: [ ] Bailer [X] Pump
Decon?: Yes [ ] No [X]
Sp. Conductance 0.636 umohs/cm
Temperature °C: 11.1
pH: 7.33

PURGE DATA:

Volume Removed	SWL 13.06	pH	D.O. mg/l	Temperature °C	ORP mV	Specific Conductance u Siemens	Turbidity
1.0 L	13.33	7.33	0.21	11.2	-51.3	0.644	3.66
2.0 L	13.34	7.33	0.19	11.2	-57.9	0.640	3.22
3.0 L	13.34	7.33	0.18	11.1	-63.0	0.639	1.40
4.0 L	13.34	7.33	0.16	11.1	-64.9	0.636	0.02
L							
L							
L							
L							

COMMENTS: Sample #3

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-17sr** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SVS/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: ~~Galvanized~~ PVC
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 860.41
Static Water Level (ft.) 4.47
Ground Water Elevation: 855.94 feet
Well Depth:TOC Reference 43.00

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-12-24
Time of Purge: 1105
Volume of Water in Casing: gals
Purge Volume 3X [ ] 5X [ ] Other [X] gals.
Purge Water Appearance: clear
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [ ] S.S. Submersible Pump
Purge Method: [X] Low Flow (peristaltic)
Decon: Yes [ ] No [X]
Type: Liquinox & Water Wash [ ]
Water Rinse [ ] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-12-24
Time of Sampling: 1115
Field Filtration?: Yes [ ] No [X]
Weather: Sunny 53°F
Sample Appearance: clear

Sampling Method: [ ] Bailer [X] Pump
Decon?: Yes [ ] No [X]
Sp. Conductance: 0.81 umohs/cm
Temperature °C: 10.7
pH: 7.04

PURGE DATA:

Volume Removed	SWL 4.48	pH	D.O. mg/L	Temperature °C	ORP mV	Specific Conductance u Siemens	Turbidity
1.0 L	4.49	7.03	0.46	10.7	-22.7	0.82	5.24
2.0 L	4.49	7.04	0.20	10.7	-26.3	0.81	7.06
3.0 L	4.49	7.04	0.16	10.7	-28.0	0.81	6.65
4.0 L	4.49	7.04	0.16	10.7	-29.7	0.81	3.60
L							
L							
L							
L							

COMMENTS: Sample # 4

STRATA ENVIRONMENTAL SERVICES, INC.

GROUNDWATER MONITORING FIELD DATA SHEET

SITE LOCATION: Eaton County Landfill

Well Number: **MW-19s** Period of Sampling: **Mar-24**

Facility: **Eaton County**

Address: **1045 Independendence Blvd** (Street Number (PO Box)) **Charlotte** (City) **MI** (State) **48813** (Zip)

Contact: **Chad Powers** (Name) **517-543-2552** (Telephone)

Personnel Present: SV.S/NP

WELL DATA:

Well Secure Upon Arrival: Yes [X] No [ ]
TOC Survey Mark: North
Well Conditions: Good [X] Fair [ ] Poor [ ]
Casing Material: Galvanized
Casing Diameter: 2"
Concrete Pad: Yes [X] No [ ]
Screen: ---
Frost Heave: Yes [ ] No [X]

TOC Elevation: 860.87
Static Water Level (ft.) 4.89
Ground Water Elevation: 855.98 feet
Well Depth:TOC Reference 39.20

Standing Water: Yes [ ] No [X]
Secured Upon Departure: Yes [X] No [ ]
Well ID Present/Readable: Yes [X] No [ ]

PURGING DATA:

Date of Purge: 3-12-24
Time of Purge: 1120
Volume of Water in Casing: gals.
Purge Volume 3X [ ] 5X [ ] Other [X] gals.
Purge Water Appearance: faint yellow + cloudy to light rust
Fate of Purge Water: [X] Ground 10'+ Contained [ ]

Purge Method: [ ] Disposable Bailer
Purge Method: [ ] S. Submersible Pump
Purge Method: [X] Low Flow (peristaltic)
Decon: Yes [ ] No [X]
Type: Liquinox & Water Wash [ ]
Water Rinse [ ] Distilled Rinse [ ]

SAMPLING DATA:

Date of Sampling: 3-12-24
Time of Sampling: 1140
Field Filtration?: Yes [ ] No [X]
Weather: Sunny 53°F
Sample Appearance: clear

Sampling Method: [ ] Bailer [X] Pump
Decon?: Yes [ ] No [X]
Sp. Conductance: 0.94 umohs/cm
Temperature °C: 10.8
pH: 7.12

PURGE DATA:

Volume Removed	SWL	pH	D.O. mg/L	Temperature °C	ORP mV	Specific Conductance u Siemens	Turbidity
	4.89						
1.0 L	4.93	7.83	0.28	10.7	-33.2	4.00	80.0
3.0 L	4.94	7.44	0.22	10.8	-56.3	0.90	38.6
5.0 L	4.94	7.16	0.25	10.8	-49.0	0.94	>40.0
9.0 L	4.94	7.13	0.31	10.8	-49.1	0.95	70.5
13.0 L	4.94	7.12	0.49	10.8	-50.9	0.94	17.4
14.0 L	4.94	7.12	0.52	10.8	-51.4	0.94	12.9
15.0 L	4.94	7.12	0.56	10.8	-52.0	0.94	8.78
L							

COMMENTS: sample #5

ATTACHMENT 2

Metiri Group - Holt
1914 Holloway Dr, Holt, MI 48842 - Phone (517) 699-0345 - www.metirigroup.com

March 26, 2024

Mike Serafini
Strata Environmental Services, Inc.
538 W. Ash Street
Mason, MI 48854

RE: Eaton County Landfill PFAS
24C0026

Thank you for selecting Metiri Group - Holt as your analytical laboratory. The samples submitted have been analyzed in accordance with all method and NELAC standards, as applicable. Any exceptions to compliance are noted in the report.

Please note that TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results, or if we may be of further assistance to you, please contact us at (517) 699-0345.

Sincerely,

Rikki Lott
Project Manager
rikki.lott@metirigroup.com
517-273-4925

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
24C0026-01	MW-3	Water	03/12/2024 10:20	03/12/2024
24C0026-02	MW-15sr	Water	03/12/2024 10:40	03/12/2024
24C0026-03	MW-15dr	Water	03/12/2024 11:00	03/12/2024
24C0026-04	MW-17sr	Water	03/12/2024 11:15	03/12/2024
24C0026-05	MW-19s	Water	03/12/2024 11:40	03/12/2024
24C0026-06	Equipment Blank	Water	03/12/2024 09:55	03/12/2024
24C0026-07	Filed Blank	Water	03/12/2024 10:00	03/12/2024

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results

Sample: MW-3
24C0026-01 (Water)

		Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances										
‡	1	PFBA	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	2	PFPeA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	3	PFHxA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	4	PFHpA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	5	PFOA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	6	PFNA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	7	PFDA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	8	PFUnA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	9	PFDoA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	10	PFTrDA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	11	PFTeDA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	12	PFBS	1.2		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	13	PFPeS	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	14	PFHxS	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	15	PFHpS	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	16	PFOS	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	17	PFNS	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	18	PFDS	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	19	4:2FTS	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	20	6:2FTS	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	21	8:2FTS	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	22	PFOSA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	23	PFBSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	24	NMeFOSAA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	25	PFHxSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	26	NEtFOSAA	ND		0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	27	HFPO-DA	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	28	ADONA	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	29	9Cl-PF3ONS	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	30	11Cl-PF3OUDS	ND		3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	31	PFECHS	8.1		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
Extracted Internal Standards (EIS): 13C4-PFBA			*88%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C5-PFPEA			*85%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-3 (Continued)
24C0026-01 (Water)

Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)								
Extracted Internal Standards (EIS): 13C5-PFHXA	*89%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*85%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*90%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*91%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*93%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*96%*		*30-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*84%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*81%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*99%*		*40-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*86%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*87%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*94%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*93%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*80%*		*40-300*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*81%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*80%*		*40-170*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*79%*		*25-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*87%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-15sr
24C0026-02 (Water)

		Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances										
‡	1	PFBA	5.1		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	2	PFPeA	3.1		1.7	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	3	PFHxA	4.3		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	4	PFHpA	1.9		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	5	PFOA	9.4		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	6	PFNA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	7	PFDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	8	PFUnA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	9	PFDoA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	10	PFTrDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	11	PFTeDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	12	PFBS	4.5		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	13	PFPeS	1.3		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	14	PFHxS	5.2		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	15	PFHpS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	16	PFOS	6.6		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	17	PFNS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	18	PFDS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	19	4:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	20	6:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	21	8:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	22	PFOSA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	23	PFBSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	24	NMeFOSAA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	25	PFHxSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	26	NEtFOSAA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	27	HFPO-DA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	28	ADONA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	29	9Cl-PF3ONS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	30	11Cl-PF3OUDS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	31	PFECHS	3.1		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
Extracted Internal Standards (EIS): 13C4-PFBA			*89%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C5-PFPEA			*84%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-15sr (Continued)
24C0026-02 (Water)

Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)								
Extracted Internal Standards (EIS): 13C5-PFHXA	*84%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*81%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*82%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*83%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*83%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*84%*		*30-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*74%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*70%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*94%*		*40-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*78%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*76%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*100%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*87%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*80%*		*40-300*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*85%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*74%*		*40-170*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*74%*		*25-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*83%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-15dr
24C0026-03 (Water)

		Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances										
‡	1	PFBA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	2	PFPeA	ND		1.7	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	3	PFHxA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	4	PFHpA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	5	PFOA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	6	PFNA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	7	PFDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	8	PFUnA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	9	PFDoA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	10	PFTrDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	11	PFTeDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	12	PFBS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	13	PFPeS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	14	PFHxS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	15	PFHpS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	16	PFOS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	17	PFNS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	18	PFDS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	19	4:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	20	6:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	21	8:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	22	PFOSA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	23	PFBSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	24	NMeFOSAA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	25	PFHxSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	26	NEtFOSAA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	27	HFPO-DA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	28	ADONA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	29	9Cl-PF3ONS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	30	11Cl-PF3OUDS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	31	PFECHS	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
		Extracted Internal Standards (EIS): 13C4-PFBA	*80%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
		Extracted Internal Standards (EIS): 13C5-PFPEA	*75%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-15dr (Continued)
24C0026-03 (Water)

Analyte	Result /Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)							
Extracted Internal Standards (EIS): 13C5-PFHXA	*71%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*73%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*75%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*69%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*73%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*69%*	*30-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*58%*	*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*42%*	*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*75%*	*40-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*68%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*63%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*86%*	*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*76%*	*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*67%*	*40-300*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*83%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*63%*	*40-170*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*63%*	*25-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*78%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-17sr
24C0026-04 (Water)

		Analyte	Result/Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances									
‡	1	PFBA	3.9	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	2	PFPeA	3.5	1.6	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	3	PFHxA	3.0	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	4	PFHpA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	5	PFOA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	6	PFNA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	7	PFDA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	8	PFUnA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	9	PFDoA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	10	PFTrDA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	11	PFTeDA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	12	PFBS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	13	PFPeS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	14	PFHxS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	15	PFHpS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	16	PFOS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	17	PFNS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	18	PFDS	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	19	4:2FTS	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	20	6:2FTS	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	21	8:2FTS	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	22	PFOSA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	23	PFBSA	ND	1.6	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	24	NMeFOSAA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	25	PFHxSA	ND	1.6	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	26	NEtFOSAA	ND	0.80	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	27	HFPO-DA	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	28	ADONA	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	29	9Cl-PF3ONS	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	30	11Cl-PF3OUDS	ND	3.2	ng/L	03/25/24	1	EPA 537M	BDC0050
‡	31	PFECHS	ND	1.6	ng/L	03/25/24	1	EPA 537M	BDC0050
		Extracted Internal Standards (EIS): 13C4-PFBA	*77%*	*10-130*		*03/25/24*	*1*	*EPA 537M*	
		Extracted Internal Standards (EIS): 13C5-PFPEA	*76%*	*40-130*		*03/25/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-17sr (Continued)
24C0026-04 (Water)

Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)								
Extracted Internal Standards (EIS): 13C5-PFHXA	*74%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*77%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*73%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*71%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*79%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*72%*		*30-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*73%*		*10-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*81%*		*10-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*68%*		*40-135*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*67%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*72%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*81%*		*40-200*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*78%*		*40-200*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*74%*		*40-300*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*73%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*72%*		*40-170*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*74%*		*25-135*		*03/25/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*74%*		*40-130*		*03/25/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-19s
24C0026-05 (Water)

		Analyte	Result	/Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances										
‡	1	PFBA	14		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	2	PFPeA	8.9		1.7	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	3	PFHxA	12		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	4	PFHpA	1.6		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	5	PFOA	2.3		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	6	PFNA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	7	PFDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	8	PFUnA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	9	PFDoA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	10	PFTrDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	11	PFTeDA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	12	PFBS	8.0		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	13	PFPeS	1.1		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	14	PFHxS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	15	PFHpS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	16	PFOS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	17	PFNS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	18	PFDS	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	19	4:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	20	6:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	21	8:2FTS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	22	PFOSA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	23	PFBSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	24	NMeFOSAA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	25	PFHxSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	26	NEtFOSAA	ND		0.83	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	27	HFPO-DA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	28	ADONA	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	29	9Cl-PF3ONS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	30	11Cl-PF3OUDS	ND		3.3	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	31	PFECHS	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
Extracted Internal Standards (EIS): 13C4-PFBA			*89%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C5-PFPEA			*90%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: MW-19s (Continued)
24C0026-05 (Water)

Analyte	Result	/Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)								
Extracted Internal Standards (EIS): 13C5-PFHXA	*84%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*87%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*94%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*86%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*93%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*94%*		*30-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*84%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*83%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*92%*		*40-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*89%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*91%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*97%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*93%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*83%*		*40-300*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*80%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*82%*		*40-170*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*79%*		*25-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*85%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: Equipment Blank
24C0026-06 (Water)

		Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances										
‡	1	PFBA	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	2	PFPeA	ND		1.9	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	3	PFHxA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	4	PFHpA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	5	PFOA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	6	PFNA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	7	PFDA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	8	PFUnA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	9	PFDoA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	10	PFTrDA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	11	PFTeDA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	12	PFBS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	13	PFPeS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	14	PFHxS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	15	PFHpS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	16	PFOS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	17	PFNS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	18	PFDS	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	19	4:2FTS	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	20	6:2FTS	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	21	8:2FTS	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	22	PFOSA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	23	PFBSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	24	NMeFOSAA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	25	PFHxSA	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	26	NEtFOSAA	ND		0.95	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	27	HFPO-DA	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	28	ADONA	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	29	9Cl-PF3ONS	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	30	11Cl-PF3OUDS	ND		3.8	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	31	PFECHS	ND		1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
Extracted Internal Standards (EIS): 13C4-PFBA			*93%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C5-PFPEA			*87%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: Equipment Blank (Continued)
24C0026-06 (Water)

Analyte	Result	/Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)								
Extracted Internal Standards (EIS): 13C5-PFHXA	*91%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*91%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*93%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*86%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*94%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*89%*		*30-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*80%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*75%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*96%*		*40-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*94%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*91%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*88%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*88%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*79%*		*40-300*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*82%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*81%*		*40-170*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*75%*		*25-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*88%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: Filed Blank
24C0026-07 (Water)

		Analyte	Result/Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances									
‡	1	PFBA	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	2	PFPeA	ND	1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	3	PFHxA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	4	PFHpA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	5	PFOA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	6	PFNA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	7	PFDA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	8	PFUnA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	9	PFDoA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	10	PFTrDA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	11	PFTeDA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	12	PFBS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	13	PFPeS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	14	PFHxS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	15	PFHpS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	16	PFOS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	17	PFNS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	18	PFDS	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	19	4:2FTS	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	20	6:2FTS	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	21	8:2FTS	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	22	PFOSA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	23	PFBSA	ND	1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	24	NMeFOSAA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	25	PFHxSA	ND	1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	26	NEtFOSAA	ND	0.80	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	27	HFPO-DA	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	28	ADONA	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	29	9Cl-PF3ONS	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	30	11Cl-PF3OUDS	ND	3.2	ng/L	03/14/24	1	EPA 537M	BDC0026
‡	31	PFECHS	ND	1.6	ng/L	03/14/24	1	EPA 537M	BDC0026
		Extracted Internal Standards (EIS): 13C4-PFBA	*91%*	*10-130*		*03/14/24*	*1*	*EPA 537M*	
		Extracted Internal Standards (EIS): 13C5-PFPEA	*87%*	*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Sample Results
(Continued)

Sample: Filed Blank (Continued)
24C0026-07 (Water)

Analyte	Result	Qual	PQL	Units	Date Analyzed	DF	Method	Prep Batch
Per- and Polyfluoroalkyl Substances (Continued)								
Extracted Internal Standards (EIS): 13C5-PFHXA	*91%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C4-PFHPA	*84%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOA	*88%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C9-PFNA	*90%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C6-PFDA	*86%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C7-PFUnA	*88%*		*30-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFDOA	*83%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-PFTEDA	*76%*		*10-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFBS	*94%*		*40-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-PFHXS	*90%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOS	*84%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-4:2FTS	*94%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-6:2FTS	*91%*		*40-200*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C2-8:2FTS	*83%*		*40-300*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C8-PFOSA	*80%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D3-NMEFOSAA	*79%*		*40-170*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): D5-NETFOSAA	*77%*		*25-135*		*03/14/24*	*1*	*EPA 537M*	
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*90%*		*40-130*		*03/14/24*	*1*	*EPA 537M*	

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

PREPARATION BATCH SUMMARY

EPA 537M

Laboratory: Metiri Group - Holt

Client:

Batch: BDC0026 Batch Matrix: Water Preparation: 537M

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
MW-3	24C0026-01	03/13/24 13:07	250	2
MW-15sr	24C0026-02	03/13/24 13:07	240	2
MW-15dr	24C0026-03	03/13/24 13:07	240	2
MW-19s	24C0026-05	03/13/24 13:07	240	2
Equipment Blank	24C0026-06	03/13/24 13:07	210	2
Filed Blank	24C0026-07	03/13/24 13:07	250	2
Blank	BDC0026-BLK1	03/13/24 13:07	250	2
LCS	BDC0026-BS1	03/13/24 13:07	250	2
LCS Dup	BDC0026-BSD1	03/13/24 13:07	250	2
MW-3	BDC0026-DUP1	03/13/24 13:07	250	2

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

PREPARATION BATCH SUMMARY

EPA 537M

Laboratory: Metiri Group - Holt

Client:

Batch: BDC0050 Batch Matrix: Water Preparation: 537M

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
MW-17sr	24C0026-04RE1	03/13/24 13:07	250	2
Blank	BDC0050-BLK1	03/22/24 09:01	250	2
LCS	BDC0050-BS1	03/22/24 09:01	250	2
LCS Dup	BDC0050-BSD1	03/22/24 09:01	250	2
MW-17sr	BDC0050-DUP1	03/22/24 09:01	250	2

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Method: EPA 537M									
Batch: BDC0026 - 537M									
Blank (BDC0026-BLK1)				Prepared & Analyzed: 03/13/24 23:12					
PFBA	ND	3.2	ng/L						
PFPeA	ND	1.6	ng/L						
PFHxA	ND	0.80	ng/L						
PFHpA	ND	0.80	ng/L						
PFOA	ND	0.80	ng/L						
PFNA	ND	0.80	ng/L						
PFDA	ND	0.80	ng/L						
PFUnA	ND	0.80	ng/L						
PFDoA	ND	0.80	ng/L						
PFTrDA	ND	0.80	ng/L						
PFTeDA	ND	0.80	ng/L						
PFBS	ND	0.80	ng/L						
PFPeS	ND	0.80	ng/L						
PFHxS	ND	0.80	ng/L						
PFHpS	ND	0.80	ng/L						
PFOS	ND	0.80	ng/L						
PFNS	ND	0.80	ng/L						
PFDS	ND	0.80	ng/L						
4:2FTS	ND	3.2	ng/L						
6:2FTS	ND	3.2	ng/L						
8:2FTS	ND	3.2	ng/L						
PFOSA	ND	0.80	ng/L						
PFBSA	ND	1.6	ng/L						
NMeFOSAA	ND	0.80	ng/L						
PFHxSA	ND	1.6	ng/L						
NEtFOSAA	ND	0.80	ng/L						
HFPO-DA	ND	3.2	ng/L						
ADONA	ND	3.2	ng/L						
9Cl-PF3ONS	ND	3.2	ng/L						
11Cl-PF3OUDS	ND	3.2	ng/L						
PFECHS	ND	1.6	ng/L						
Extracted Internal Standards (EIS): 13C4-PFBA	*57*		*ng/L*	*64.0*		*89*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*29*		*ng/L*	*32.0*		*90*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*14*		*ng/L*	*16.0*		*84*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*14*		*ng/L*	*16.0*		*88*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*15*		*ng/L*	*16.0*		*91*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*7.1*		*ng/L*	*8.00*		*89*	*40-130*		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (BDC0026-BLK1)				Prepared & Analyzed: 03/13/24 23:12					
Extracted Internal Standards (EIS): 13C6-PFDA	*7.1*		*ng/L*	*8.00*		*88*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*7.2*		*ng/L*	*8.00*		*90*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*6.7*		*ng/L*	*8.00*		*83*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*6.5*		*ng/L*	*8.00*		*81*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*15*		*ng/L*	*14.9*		*102*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*14*		*ng/L*	*15.2*		*90*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*13*		*ng/L*	*15.3*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*29*		*ng/L*	*30.0*		*98*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*27*		*ng/L*	*30.4*		*90*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*28*		*ng/L*	*30.7*		*90*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*13*		*ng/L*	*16.0*		*82*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*25*		*ng/L*	*32.0*		*78*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*26*		*ng/L*	*32.0*		*83*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*55*		*ng/L*	*64.0*		*86*	*40-130*		
LCS (BDC0026-BS1)				Prepared & Analyzed: 03/13/24 23:26					
PFBA	60	3.2	ng/L	64.0		94	70-140		
PFPeA	33	1.6	ng/L	32.0		102	65-135		
PFHxA	15	0.80	ng/L	16.0		96	70-145		
PFHpA	16	0.80	ng/L	16.0		98	70-150		
PFOA	15	0.80	ng/L	16.0		96	70-150		
PFNA	15	0.80	ng/L	16.0		93	70-150		
PFDA	15	0.80	ng/L	16.0		96	70-140		
PFUnA	15	0.80	ng/L	16.0		95	70-145		
PFDoA	16	0.80	ng/L	16.0		102	70-140		
PFTrDA	15	0.80	ng/L	16.0		94	65-140		
PFTeDA	16	0.80	ng/L	16.0		103	60-140		
PFBS	14	0.80	ng/L	14.2		100	60-145		
PFPeS	15	0.80	ng/L	15.0		102	65-140		
PFHxS	15	0.80	ng/L	14.6		100	65-145		
PFHpS	15	0.80	ng/L	15.2		98	70-150		
PFOS	14	0.80	ng/L	14.9		95	55-150		
PFNS	17	0.80	ng/L	15.4		111	65-145		
PFDS	15	0.80	ng/L	15.4		98	60-145		
4:2FTS	58	3.2	ng/L	60.0		97	70-145		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BDC0026-BS1)				Prepared & Analyzed: 03/13/24 23:26					
6:2FTS	60	3.2	ng/L	60.9		99	65-155		
8:2FTS	62	3.2	ng/L	61.4		102	60-150		
PFOSA	16	0.80	ng/L	16.0		103	70-145		
PFBSA	17	1.6	ng/L	16.0		106	40-150		
NMeFOSAA	17	0.80	ng/L	16.0		105	50-140		
PFHxSA	17	1.6	ng/L	16.0		105	40-150		
NEtFOSAA	16	0.80	ng/L	16.0		99	70-145		
HFPO-DA	66	3.2	ng/L	64.0		103	70-140		
ADONA	60	3.2	ng/L	60.5		100	65-145		
9Cl-PF3ONS	58	3.2	ng/L	59.7		98	70-155		
11Cl-PF3OUDS	59	3.2	ng/L	60.3		97	55-160		
PFECHS	13	1.6	ng/L	14.8		91	40-150		
Extracted Internal Standards (EIS): 13C4-PFBA	*57*		*ng/L*	*64.0*		*89*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*26*		*ng/L*	*32.0*		*81*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*13*		*ng/L*	*16.0*		*83*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*13*		*ng/L*	*16.0*		*82*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*14*		*ng/L*	*16.0*		*86*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*6.8*		*ng/L*	*8.00*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*6.9*		*ng/L*	*8.00*		*87*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*7.1*		*ng/L*	*8.00*		*89*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*6.7*		*ng/L*	*8.00*		*84*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*5.9*		*ng/L*	*8.00*		*74*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*13*		*ng/L*	*14.9*		*85*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*12*		*ng/L*	*15.2*		*79*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*13*		*ng/L*	*15.3*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*25*		*ng/L*	*30.0*		*84*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*25*		*ng/L*	*30.4*		*81*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*26*		*ng/L*	*30.7*		*83*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*13*		*ng/L*	*16.0*		*84*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*25*		*ng/L*	*32.0*		*79*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*25*		*ng/L*	*32.0*		*79*	*25-135*		

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BDC0026-BS1)				Prepared & Analyzed: 03/13/24 23:26					
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*53*		*ng/L*	*64.0*		*83*	*40-130*		
LCS Dup (BDC0026-BSD1)				Prepared & Analyzed: 03/13/24 23:39					
PFBA	63	3.2	ng/L	64.0		99	70-140	5	30
PFPeA	33	1.6	ng/L	32.0		104	65-135	1	30
PFHxA	15	0.80	ng/L	16.0		97	70-145	0.9	30
PFHpA	16	0.80	ng/L	16.0		101	70-150	3	30
PFOA	16	0.80	ng/L	16.0		100	70-150	4	30
PFNA	15	0.80	ng/L	16.0		96	70-150	4	30
PFDA	16	0.80	ng/L	16.0		98	70-140	2	30
PFUnA	16	0.80	ng/L	16.0		102	70-145	7	30
PFDoA	18	0.80	ng/L	16.0		111	70-140	8	30
PFTrDA	18	0.80	ng/L	16.0		113	65-140	18	30
PFTeDA	16	0.80	ng/L	16.0		101	60-140	1	30
PFBS	14	0.80	ng/L	14.2		101	60-145	2	30
PFPeS	16	0.80	ng/L	15.0		105	65-140	3	30
PFHxS	14	0.80	ng/L	14.6		96	65-145	5	30
PFHpS	15	0.80	ng/L	15.2		99	70-150	0.5	30
PFOS	14	0.80	ng/L	14.9		96	55-150	0.4	30
PFNS	17	0.80	ng/L	15.4		113	65-145	2	30
PFDS	14	0.80	ng/L	15.4		91	60-145	7	30
4:2FTS	58	3.2	ng/L	60.0		97	70-145	0.3	30
6:2FTS	61	3.2	ng/L	60.9		101	65-155	2	30
8:2FTS	61	3.2	ng/L	61.4		99	60-150	3	30
PFOSA	17	0.80	ng/L	16.0		107	70-145	4	30
PFBSA	18	1.6	ng/L	16.0		110	40-150	3	30
NMeFOSAA	16	0.80	ng/L	16.0		102	50-140	3	30
PFHxSA	17	1.6	ng/L	16.0		107	40-150	2	30
NEtFOSAA	15	0.80	ng/L	16.0		91	70-145	8	30
HFPO-DA	63	3.2	ng/L	64.0		99	70-140	4	30
ADONA	62	3.2	ng/L	60.5		103	65-145	3	30
9Cl-PF3ONS	58	3.2	ng/L	59.7		97	70-155	1	30
11Cl-PF3OUDS	56	3.2	ng/L	60.3		93	55-160	5	30
PFECHS	13	1.6	ng/L	14.8		88	40-150	3	30
Extracted Internal Standards (EIS): 13C4-PFBA	*60*		*ng/L*	*64.0*		*94*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*28*		*ng/L*	*32.0*		*87*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*15*		*ng/L*	*16.0*		*91*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*14*		*ng/L*	*16.0*		*89*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*15*		*ng/L*	*16.0*		*94*	*40-130*		

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS Dup (BDC0026-BSD1)				Prepared & Analyzed: 03/13/24 23:39					
Extracted Internal Standards (EIS): 13C9-PFNA	*7.6*		*ng/L*	*8.00*		*94*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*8.1*		*ng/L*	*8.00*		*101*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*7.4*		*ng/L*	*8.00*		*92*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*6.2*		*ng/L*	*8.00*		*78*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*6.4*		*ng/L*	*8.00*		*80*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*13*		*ng/L*	*14.9*		*86*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*13*		*ng/L*	*15.2*		*88*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*13*		*ng/L*	*15.3*		*87*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*28*		*ng/L*	*30.0*		*93*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*27*		*ng/L*	*30.4*		*90*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*27*		*ng/L*	*30.7*		*88*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*14*		*ng/L*	*16.0*		*87*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*26*		*ng/L*	*32.0*		*82*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*27*		*ng/L*	*32.0*		*84*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*58*		*ng/L*	*64.0*		*90*	*40-130*		
Duplicate (BDC0026-DUP1)	**Source: 24C0026-01**			Prepared & Analyzed: 03/13/24 23:51					
PFBA	ND	3.2	ng/L		ND				30
PFPeA	ND	1.6	ng/L		ND				30
PFHxA	ND	0.80	ng/L		ND				30
PFHpA	ND	0.80	ng/L		ND				30
PFOA	ND	0.80	ng/L		ND				30
PFNA	ND	0.80	ng/L		ND				30
PFDA	ND	0.80	ng/L		ND				30
PFUnA	ND	0.80	ng/L		ND				30
PFDoA	ND	0.80	ng/L		ND				30
PFTrDA	ND	0.80	ng/L		ND				30
PFTeDA	ND	0.80	ng/L		ND				30
PFBS	1.2	0.80	ng/L		1.2			4	30
PFPeS	ND	0.80	ng/L		ND				30
PFHxS	ND	0.80	ng/L		ND				30
PFHpS	ND	0.80	ng/L		ND				30
PFOS	ND	0.80	ng/L		ND				30
PFNS	ND	0.80	ng/L		ND				30

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BDC0026-DUP1)	**Source: 24C0026-01**			Prepared & Analyzed: 03/13/24 23:51					
PFDS	ND	0.80	ng/L		ND				30
4:2FTS	ND	3.2	ng/L		ND				30
6:2FTS	ND	3.2	ng/L		ND				30
8:2FTS	ND	3.2	ng/L		ND				30
PFOSA	ND	0.80	ng/L		ND				30
PFBSA	ND	1.6	ng/L		ND				30
NMeFOSAA	ND	0.80	ng/L		ND				30
PFHxSA	ND	1.6	ng/L		ND				30
NEtFOSAA	ND	0.80	ng/L		ND				30
HFPO-DA	ND	3.2	ng/L		ND				30
ADONA	ND	3.2	ng/L		ND				30
9Cl-PF3ONS	ND	3.2	ng/L		ND				30
11Cl-PF3OUDS	ND	3.2	ng/L		ND				30
PFECHS	8.6	1.6	ng/L		8.1			6	30
Extracted Internal Standards (EIS): 13C4-PFBA	*58*		*ng/L*	*64.0*		*91*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*27*		*ng/L*	*32.0*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*13*		*ng/L*	*16.0*		*83*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*13*		*ng/L*	*16.0*		*81*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*14*		*ng/L*	*16.0*		*88*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*6.4*		*ng/L*	*8.00*		*80*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*7.2*		*ng/L*	*8.00*		*90*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*6.9*		*ng/L*	*8.00*		*86*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*6.1*		*ng/L*	*8.00*		*76*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*5.8*		*ng/L*	*8.00*		*72*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*14*		*ng/L*	*14.9*		*94*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*13*		*ng/L*	*15.2*		*89*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*13*		*ng/L*	*15.3*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*30*		*ng/L*	*30.0*		*100*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*27*		*ng/L*	*30.4*		*88*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*25*		*ng/L*	*30.7*		*80*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*13*		*ng/L*	*16.0*		*82*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*24*		*ng/L*	*32.0*		*76*	*40-170*		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BDC0026-DUP1)	**Source: 24C0026-01**			Prepared & Analyzed: 03/13/24 23:51					
Extracted Internal Standards (EIS): D5-NETFOSAA	*24*		*ng/L*	*32.0*		*76*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*53*		*ng/L*	*64.0*		*84*	*40-130*		

Method: EPA 537M

Batch: BDC0050 - 537M

Blank (BDC0050-BLK1)				Prepared: 03/22/24 09:01 Analyzed: 03/25/24 21:46
PFBA	ND	3.2	ng/L	
PFPeA	ND	1.6	ng/L	
PFHxA	ND	0.80	ng/L	
PFHpA	ND	0.80	ng/L	
PFOA	ND	0.80	ng/L	
PFNA	ND	0.80	ng/L	
PFDA	ND	0.80	ng/L	
PFUnA	ND	0.80	ng/L	
PFDoA	ND	0.80	ng/L	
PFTrDA	ND	0.80	ng/L	
PFTeDA	ND	0.80	ng/L	
PFBS	ND	0.80	ng/L	
PFPeS	ND	0.80	ng/L	
PFHxS	ND	0.80	ng/L	
PFHpS	ND	0.80	ng/L	
PFOS	ND	0.80	ng/L	
PFNS	ND	0.80	ng/L	
PFDS	ND	0.80	ng/L	
4:2FTS	ND	3.2	ng/L	
6:2FTS	ND	3.2	ng/L	
8:2FTS	ND	3.2	ng/L	
PFOSA	ND	0.80	ng/L	
PFBSA	ND	1.6	ng/L	
PFHxSA	ND	1.6	ng/L	
NMeFOSAA	ND	0.80	ng/L	
NEtFOSAA	ND	0.80	ng/L	
HFPO-DA	ND	3.2	ng/L	
ADONA	ND	3.2	ng/L	
9Cl-PF3ONS	ND	3.2	ng/L	
11Cl-PF3OUDS	ND	3.2	ng/L	
PFECHS	ND	1.6	ng/L	
Extracted Internal Standards (EIS): 13C4-PFBA	*33*		*ng/L*	*64.0*		*51*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*16*		*ng/L*	*32.0*		*49*	*40-130*		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (BDC0050-BLK1)				Prepared: 03/22/24 09:01 Analyzed: 03/25/24 21:46					
Extracted Internal Standards (EIS): 13C5-PFHXA	*7.9*		*ng/L*	*16.0*		*49*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*8.8*		*ng/L*	*16.0*		*55*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*8.8*		*ng/L*	*16.0*		*55*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*4.2*		*ng/L*	*8.00*		*52*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*4.7*		*ng/L*	*8.00*		*58*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*3.9*		*ng/L*	*8.00*		*49*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*4.2*		*ng/L*	*8.00*		*52*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*4.8*		*ng/L*	*8.00*		*60*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*6.7*		*ng/L*	*14.9*		*45*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*7.3*		*ng/L*	*15.2*		*48*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*7.6*		*ng/L*	*15.3*		*49*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*17*		*ng/L*	*30.0*		*57*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*16*		*ng/L*	*30.4*		*53*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*16*		*ng/L*	*30.7*		*53*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*10*		*ng/L*	*16.0*		*64*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*19*		*ng/L*	*32.0*		*61*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*17*		*ng/L*	*32.0*		*53*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*34*		*ng/L*	*64.0*		*54*	*40-130*		
LCS (BDC0050-BS1)				Prepared: 03/22/24 09:01 Analyzed: 03/25/24 22:01					
PFBA	67	3.2	ng/L	64.0		105	70-140		
PFPeA	32	1.6	ng/L	32.0		101	65-135		
PFHxA	17	0.80	ng/L	16.0		107	70-145		
PFHpA	17	0.80	ng/L	16.0		104	70-150		
PFOA	15	0.80	ng/L	16.0		97	70-150		
PFNA	17	0.80	ng/L	16.0		106	70-150		
PFDA	15	0.80	ng/L	16.0		91	70-140		
PFUnA	16	0.80	ng/L	16.0		98	70-145		
PFDoA	16	0.80	ng/L	16.0		100	70-140		
PFTrDA	16	0.80	ng/L	16.0		97	65-140		
PFTeDA	16	0.80	ng/L	16.0		98	60-140		
PFBS	15	0.80	ng/L	14.2		103	60-145		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BDC0050-BS1)				Prepared: 03/22/24 09:01		Analyzed: 03/25/24 22:01			
PFPeS	18	0.80	ng/L	15.0		121	65-140		
PFHxS	15	0.80	ng/L	14.6		101	65-145		
PFHpS	17	0.80	ng/L	15.2		114	70-150		
PFOS	16	0.80	ng/L	14.9		107	55-150		
PFNS	17	0.80	ng/L	15.4		109	65-145		
PFDS	16	0.80	ng/L	15.4		107	60-145		
4:2FTS	70	3.2	ng/L	60.0		117	70-145		
6:2FTS	68	3.2	ng/L	60.9		111	65-155		
8:2FTS	69	3.2	ng/L	61.4		112	60-150		
PFOSA	17	0.80	ng/L	16.0		104	70-145		
PFBSA	18	1.6	ng/L	16.0		110	40-150		
PFHxSA	18	1.6	ng/L	16.0		110	40-150		
NMeFOSAA	15	0.80	ng/L	16.0		95	50-140		
NEtFOSAA	16	0.80	ng/L	16.0		99	70-145		
HFPO-DA	58	3.2	ng/L	64.0		91	70-140		
ADONA	59	3.2	ng/L	60.5		97	65-145		
9Cl-PF3ONS	57	3.2	ng/L	59.7		95	70-155		
11Cl-PF3OUDS	59	3.2	ng/L	60.3		99	55-160		
PFECHS	16	1.6	ng/L	14.8		105	40-150		
Extracted Internal Standards (EIS): 13C4-PFBA	*54*		*ng/L*	*64.0*		*84*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*27*		*ng/L*	*32.0*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*13*		*ng/L*	*16.0*		*79*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*14*		*ng/L*	*16.0*		*89*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*14*		*ng/L*	*16.0*		*88*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*6.6*		*ng/L*	*8.00*		*83*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*7.4*		*ng/L*	*8.00*		*92*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*6.3*		*ng/L*	*8.00*		*79*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*6.2*		*ng/L*	*8.00*		*77*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*6.3*		*ng/L*	*8.00*		*79*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*12*		*ng/L*	*14.9*		*78*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*12*		*ng/L*	*15.2*		*80*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*12*		*ng/L*	*15.3*		*77*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*26*		*ng/L*	*30.0*		*88*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*27*		*ng/L*	*30.4*		*90*	*40-200*		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BDC0050-BS1)				Prepared: 03/22/24 09:01 Analyzed: 03/25/24 22:01					
Extracted Internal Standards (EIS): 13C2-8:2FTS	*26*		*ng/L*	*30.7*		*85*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*11*		*ng/L*	*16.0*		*71*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*29*		*ng/L*	*32.0*		*91*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*26*		*ng/L*	*32.0*		*80*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*55*		*ng/L*	*64.0*		*85*	*40-130*		
LCS Dup (BDC0050-BSD1)				Prepared: 03/22/24 09:01 Analyzed: 03/25/24 22:14					
PFBA	69	3.2	ng/L	64.0		108	70-140	2	30
PFPeA	33	1.6	ng/L	32.0		104	65-135	3	30
PFHxA	15	0.80	ng/L	16.0		96	70-145	11	30
PFHpA	16	0.80	ng/L	16.0		103	70-150	1	30
PFOA	15	0.80	ng/L	16.0		91	70-150	5	30
PFNA	17	0.80	ng/L	16.0		105	70-150	1	30
PFDA	15	0.80	ng/L	16.0		95	70-140	4	30
PFUnA	17	0.80	ng/L	16.0		108	70-145	10	30
PFDoA	16	0.80	ng/L	16.0		97	70-140	2	30
PFTrDA	15	0.80	ng/L	16.0		94	65-140	3	30
PFTeDA	15	0.80	ng/L	16.0		93	60-140	6	30
PFBS	15	0.80	ng/L	14.2		105	60-145	2	30
PFPeS	19	0.80	ng/L	15.0		124	65-140	2	30
PFHxS	15	0.80	ng/L	14.6		105	65-145	4	30
PFHpS	17	0.80	ng/L	15.2		111	70-150	3	30
PFOS	15	0.80	ng/L	14.9		101	55-150	6	30
PFNS	16	0.80	ng/L	15.4		101	65-145	7	30
PFDS	16	0.80	ng/L	15.4		104	60-145	2	30
4:2FTS	64	3.2	ng/L	60.0		107	70-145	8	30
6:2FTS	69	3.2	ng/L	60.9		113	65-155	2	30
8:2FTS	63	3.2	ng/L	61.4		103	60-150	9	30
PFOSA	16	0.80	ng/L	16.0		102	70-145	2	30
PFBSA	17	1.6	ng/L	16.0		106	40-150	4	30
PFHxSA	17	1.6	ng/L	16.0		106	40-150	4	30
NMeFOSAA	14	0.80	ng/L	16.0		89	50-140	7	30
NEtFOSAA	15	0.80	ng/L	16.0		91	70-145	9	30
HFPO-DA	64	3.2	ng/L	64.0		100	70-140	10	30
ADONA	65	3.2	ng/L	60.5		107	65-145	10	30
9Cl-PF3ONS	67	3.2	ng/L	59.7		112	70-155	16	30
11Cl-PF3OUDS	70	3.2	ng/L	60.3		116	55-160	16	30
PFECHS	17	1.6	ng/L	14.8		112	40-150	7	30
Extracted Internal Standards (EIS): 13C4-PFBA	*53*		*ng/L*	*64.0*		*83*	*10-130*		

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS Dup (BDC0050-BSD1)				Prepared: 03/22/24 09:01 Analyzed: 03/25/24 22:14					
Extracted Internal Standards (EIS): 13C5-PFPEA	*27*		*ng/L*	*32.0*		*86*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*13*		*ng/L*	*16.0*		*83*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*14*		*ng/L*	*16.0*		*91*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*14*		*ng/L*	*16.0*		*86*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*7.0*		*ng/L*	*8.00*		*87*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*7.1*		*ng/L*	*8.00*		*88*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*6.3*		*ng/L*	*8.00*		*79*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*7.1*		*ng/L*	*8.00*		*89*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*7.0*		*ng/L*	*8.00*		*88*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*12*		*ng/L*	*14.9*		*77*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*12*		*ng/L*	*15.2*		*77*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*12*		*ng/L*	*15.3*		*79*	*40-130*		
Extracted Internal Standards (EIS): 13C2-4:2FTS	*27*		*ng/L*	*30.0*		*89*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*24*		*ng/L*	*30.4*		*80*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*26*		*ng/L*	*30.7*		*85*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*11*		*ng/L*	*16.0*		*67*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*30*		*ng/L*	*32.0*		*92*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*26*		*ng/L*	*32.0*		*80*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*52*		*ng/L*	*64.0*		*81*	*40-130*		
Duplicate (BDC0050-DUP1)		**Source: 24C0026-04RE1**		Prepared: 03/22/24 09:01 Analyzed: 03/25/24 22:27					
PFBA	3.8	3.2	ng/L		3.9			3	30
PFPeA	3.4	1.6	ng/L		3.5			2	30
PFHxA	3.1	0.80	ng/L		3.0			3	30
PFHpA	ND	0.80	ng/L		ND				30
PFOA	ND	0.80	ng/L		ND				30
PFNA	ND	0.80	ng/L		ND				30
PFDA	ND	0.80	ng/L		ND				30
PFUnA	ND	0.80	ng/L		ND				30
PFDoA	ND	0.80	ng/L		ND				30
PFTrDA	ND	0.80	ng/L		ND				30

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Strata Environmental Services, Inc.	Project: Eaton County Landfill PFAS	
538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BDC0050-DUP1)	**Source: 24C0026-04RE1**			Prepared: 03/22/24 09:01	Analyzed: 03/25/24 22:27				
PFTeDA	ND	0.80	ng/L		ND				30
PFBS	ND	0.80	ng/L		ND				30
PFPeS	ND	0.80	ng/L		ND				30
PFHxS	ND	0.80	ng/L		ND				30
PFHpS	ND	0.80	ng/L		ND				30
PFOS	ND	0.80	ng/L		ND				30
PFNS	ND	0.80	ng/L		ND				30
PFDS	ND	0.80	ng/L		ND				30
4:2FTS	ND	3.2	ng/L		ND				30
6:2FTS	ND	3.2	ng/L		ND				30
8:2FTS	ND	3.2	ng/L		ND				30
PFOSA	ND	0.80	ng/L		ND				30
PFBSA	ND	1.6	ng/L		ND				30
PFHxSA	ND	1.6	ng/L		ND				30
NMeFOSAA	ND	0.80	ng/L		ND				30
NEtFOSAA	ND	0.80	ng/L		ND				30
HFPO-DA	ND	3.2	ng/L		ND				30
ADONA	ND	3.2	ng/L		ND				30
9Cl-PF3ONS	ND	3.2	ng/L		ND				30
11Cl-PF3OUDS	ND	3.2	ng/L		ND				30
PFECHS	ND	1.6	ng/L		ND				30
Extracted Internal Standards (EIS): 13C4-PFBA	*54*		*ng/L*	*64.0*		*84*	*10-130*		
Extracted Internal Standards (EIS): 13C5-PFPEA	*26*		*ng/L*	*32.0*		*80*	*40-130*		
Extracted Internal Standards (EIS): 13C5-PFHXA	*12*		*ng/L*	*16.0*		*78*	*40-130*		
Extracted Internal Standards (EIS): 13C4-PFHPA	*14*		*ng/L*	*16.0*		*85*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOA	*13*		*ng/L*	*16.0*		*83*	*40-130*		
Extracted Internal Standards (EIS): 13C9-PFNA	*6.2*		*ng/L*	*8.00*		*77*	*40-130*		
Extracted Internal Standards (EIS): 13C6-PFDA	*6.5*		*ng/L*	*8.00*		*82*	*40-130*		
Extracted Internal Standards (EIS): 13C7-PFUnA	*5.6*		*ng/L*	*8.00*		*70*	*30-130*		
Extracted Internal Standards (EIS): 13C2-PFDOA	*5.7*		*ng/L*	*8.00*		*71*	*10-130*		
Extracted Internal Standards (EIS): 13C2-PFTEDA	*6.4*		*ng/L*	*8.00*		*81*	*10-130*		
Extracted Internal Standards (EIS): 13C3-PFBS	*11*		*ng/L*	*14.9*		*75*	*40-135*		
Extracted Internal Standards (EIS): 13C3-PFHXS	*12*		*ng/L*	*15.2*		*79*	*40-130*		
Extracted Internal Standards (EIS): 13C8-PFOS	*11*		*ng/L*	*15.3*		*74*	*40-130*		

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Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BDC0050-DUP1)	**Source: 24C0026-04RE1**			Prepared: 03/22/24 09:01	Analyzed: 03/25/24 22:27				
Extracted Internal Standards (EIS): 13C2-4:2FTS	*30*		*ng/L*	*30.0*		*101*	*40-200*		
Extracted Internal Standards (EIS): 13C2-6:2FTS	*27*		*ng/L*	*30.4*		*88*	*40-200*		
Extracted Internal Standards (EIS): 13C2-8:2FTS	*25*		*ng/L*	*30.7*		*80*	*40-300*		
Extracted Internal Standards (EIS): 13C8-PFOSA	*11*		*ng/L*	*16.0*		*70*	*40-130*		
Extracted Internal Standards (EIS): D3-NMEFOSAA	*27*		*ng/L*	*32.0*		*85*	*40-170*		
Extracted Internal Standards (EIS): D5-NETFOSAA	*25*		*ng/L*	*32.0*		*78*	*25-135*		
Extracted Internal Standards (EIS): 13C3-HFPO-DA	*51*		*ng/L*	*64.0*		*80*	*40-130*		

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Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
MDL	Method Detection Limit (only displays if reported to the MDL)
ND	Analyte NOT DETECTED at or above the reporting limit.
DF	Dilution Factor
DL	Detection Limit
‡	Parameter not included in NELAC Scope of Analysis.

Soil pH measured in water at degree C

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

PQL, Practical Quantitation Limit = Method Reporting Limit (MRL).

Accreditation Number(s):
TX-C24-00039 (TX)

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

METIRI

WORK ORDER

24C0026

Printed: 03/26/2024 4:21 pm

Project: **Eaton County Landfill PFAS**
Project Number: **Eaton County Landfill PFAS. 926-1422**
Project Manager: **Rikki Lott**
PO Number: **6278**

Report To:

Strata Environmental Services, Inc.
Mike Serafini
538 W. Ash Street
Mason, MI 48854
Phone: 5176766900
Fax: 5176768834

Invoice To:

Strata Environmental Services, Inc.
Mike Serafini
538 W. Ash Street
Mason, MI 48854
Phone: 5176766900
Fax: 5176768834

Date Received: 03/12/2024 02:15 PM
Date Due: 03/26/2024 (10.00 day TAT)

Logged In By: Lexie Rowe-Lawson
Received By: Sarah Hannon

Analysis		Comments
24C0026-01 MW-3 [Water] Sampled 3/12/2024 10:20:00AM		
537M-MI	31 Compounds	31 Compounds
24C0026-02 MW-15sr [Water] Sampled 3/12/2024 10:40:00AM		
537M-MI	31 Compounds	31 Compounds
24C0026-03 MW-15dr [Water] Sampled 3/12/2024 11:00:00AM		
537M-MI	31 Compounds	31 Compounds
24C0026-04 MW-17sr [Water] Sampled 3/12/2024 11:15:00AM		
537M-MI	31 Compounds	31 Compounds
24C0026-05 MW-19s [Water] Sampled 3/12/2024 11:40:00AM		
537M-MI	31 Compounds	31 Compounds
24C0026-06 Equipment Blank [Water] Sampled 3/12/2024 9:55:00AM		
537M-MI	31 Compounds	31 Compounds
24C0026-07 Filed Blank [Water] Sampled 3/12/2024 10:00:00AM		
537M-MI	31 Compounds	31 Compounds

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538 W. Ash Street	Project Number: Eaton County Landfill PFAS. 926-1422	
Mason, MI 48854	Project Manager: Mike Serafini	Reported: 03/26/2024 16:21

24C0026 **Sample Receipt Log**

Default Cooler

Samples Received at: **2.6°C**

Were Custody Seals present and signed?	No	Container/preservative correct for test requested?	Yes
Received on Ice and within proper temp?	Yes	Sufficient amount sent for tests requested?	Yes
Were all Air Hg and PCB tubes received at ambient?	No	Required containers sealed in separate bags?	Yes
Were all TO-15 samples received at ambient?	No	Were all samples inspected and sampled correctly?	Yes
Was a chain of custody received?	Yes	Were bubbles absent in volatile samples?	Yes
COCs complete/signed in the appropriate places?	Yes	Sufficient remaining holding time for analyses?	Yes
Were all samples listed on COC received?	Yes	If Applicable pH documented for necessary samples?	No
Did all samples/container labels agree with COCs?	Yes	If applicable, was the chlorine test negative?	No
Did all containers arrive in good condition?	Yes	If applicable, samples free of oxidizers?	No
Containers Intact	Yes	Thermometer # : 10003954 used?	Yes

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STRATA ENVIRONMENTAL SERVICES, INC.
538 W. Ash Street • Mason, Michigan 48854
Phone (517) 676-6900 • Fax (517) 676-8834

Air	A
Drinking Water	D
Groundwater	W
Soil	S
Sludge	L
Oil	O
Other	X

Client: EATON COUNTY
Project Name: ECLF PFAS
Project #: 926-1422
Send Results to: MCS
Sampling Personnel: SVS/NP

CHAIN OF CUSTODY

Lab Use	Sample Information					Preservative						Analysis Requested
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	PID	MATRIX	None	H2SO4	HNO3	HCl	NaOH	Other	PFAS
1	3/2/24	1020	MW-3		W						3	X
2		1040	MW-15sr		W						3	X
3		1100	MW-15dr		W						3	X
4		1115	MW-17sr		W						3	X
5		1140	MW-19s		W						3	X
		0955	EQUIPMENT BLANK		X						3	X
		1000	FIELD BLANK		X						1	X

Received By Lab
MAR 2 2024
Initials SH

Received On Ice

Comments: PO # 6278
QUOTE # Strata031124-Eaton County Landfill 2024

24C0026
2.6 C

Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/2/24	1415	[signature]								
Relinquished by Signature:	Date	Time	Received by: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory by:	Date	Time	Data Package Relinquished by:	Date	Time	Date Received by:	Date	Time			

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ANNUAL REPORT

2023

Richard Wagner
Eaton County Drain Commissioner

Annual Report of the Drain Commissioner

January 1, 2023 through December 31, 2023

CONTENTS

Petition, Construction and Maintenance Activity; Complaints and Inquiries

Petitions and construction activity

Maintenance and repair activity, complaints and inquiries

National Pollutant Discharge Elimination System Permit (MS4 Program)

Soil Erosion Sedimentation Control Activity

Assessing Activity

Assessing activity
Table 1. 2023 special drain assessment rolls
Table 2. Twelve- year summary of assessment history

Finance

Finance

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Table 4.....Drainage district account liabilities

Table 5.....Drain orders issued

2023 Annual Report

Office of the Eaton County Drain Commissioner

Richard Wagner

PETITION AND CONSTRUCTION ACTIVITY

The **Hobart Drain** was petitioned by landowners in the district. That petition was received in July, 2015. A legal opinion was written by legal counsel. Engineers were being consulted to determine if work on this drain would be beneficial to the landowners or whether another drain in the area could be more beneficial. In the meantime, a second petition was received from Hamlin Township dated July 12, 2017. The Board of Determination Hearing was held on September 21, 2017, and it was found necessary. Spicer Group is the engineering firm assigned the project. The scope of the project has been confirmed and the preliminary design is being worked on. A meeting with the township supervisor was held and he originally asked us to hold off on this project until 2021. He has continued to ask us to hold off.

The **Brown Drain** had a petition submitted on December 19, 2016. This project will include collaboration with the Eaton County Road Commission. There were meetings scheduled with the Drain Office, the Road Commission, and engineers from Spicer Group and GEI in order to determine what the problems are and what the possible solutions may be to determine a preliminary plan to present at the Board of Determination Hearing. Those plans were developed and the Board of Determination Hearing was held on January 31, 2018 at which time the Board found the project to be necessary. There were meetings with the Eaton County Road Commission regarding the project and then a Public Information Meeting was held on June 27, 2018. It was determined at that meeting after hearing from the landowners in the area that a project would only go forward if the Eaton County Road Commission were involved with the project. After waiting three years for the road commission to agree to be involved, the drain office was notified by the Eaton County Road Commission that they will be receiving monies for a project at or near this location in the form of a grant. We are now waiting to see what the road commission has planned for this area and hope to be involved with that project as well from a drainage standpoint.

The **Dillon Drain** had a petition filed on February 7, 2017. The Board of Determination Hearing was on June 27, 2017 and was found necessary. Civil Engineers Inc. was the assigned engineering firm. Final design and easement acquisition was finalized this year and the project has been bid. Spicer Group is now overseeing the project and construction began in fall 2023 and should be completed in the summer of 2024.

The **McGilvra Drain** had a petition filed by Hamlin Township on July 12, 2017. The Board of Determination Hearing was on September 21, 2017, and was found necessary. Spicer Group is the assigned engineering firm. Plans were finalized, bids were received and financing was arranged. Construction began in 2021 and is mostly complete. There is still an MDOT crossing that needs to be completed but we are waiting on MDOT for their final requirements and approval for the crossing before we can move forward with that portion of the project.

The **Trumbull Drain** had a petition filed by Carmel Township on December 21, 2017. The Board of Determination Hearing was on February 6, 2018 and was found necessary. The project was assigned to

Civil Engineers Inc. for engineering. During the early review of the drain, it was determined that consolidating the Wonser Drain into the Trumbull Drain would be a logical step to take. Carmel Township was contacted regarding this matter and the Board submitted a township resolution and petition to start this process. A Board of Determination Hearing on that matter was held on October 30, 2018, and found necessary. Final design development and easement acquisition has been completed. The project has been bid with construction beginning in the fall of 2023 and completed in the summer of 2024.

The **Cooper Frost & Reynolds Consolidated** had a consolidation petition which included the Ray, Stemphler, and Ransom Drain submitted by Carmel Township. The Ray Drain had a previous petition filed with a Board of Determination being held and being found necessary. The process of moving forward with that project resulted in the filing of the Cooper Frost & Reynolds consolidation petition. They filed that consolidation petition on October 18, 2018. The Board of Determination for the consolidation and necessity was held on December 19, 2018 and passed. As Land and Resource Engineering was the designated engineering firm for the Ray Drain, they continued with the consolidation project. Design was completed, bids were received and construction is substantially complete. We anticipate completion in the spring of 2024 with final restoration.

The **Lee Drain** had a landowner petition filed on March 19, 2019. The engineering group assigned the project is Spicer Group. The Board of Determination Hearing was held on February 27, 2020 and found necessary. The petitioners are requesting a branch to alleviate some back-yard flooding. The first step in this process is to determine if easements can be acquired for the branch as it will need to cross lands not owned by the petitioners. If easements cannot be acquired, a branch will not be able to be constructed.

The **Bellaire Hills Drainage District** had an Application for Laying out and Designating a Drainage District was received from landowners in the Bellaire Hills Subdivision because they are having flooding issues and the system within this subdivision is not currently under anyone's jurisdiction. This application was received on May 10, 2019. This is the first application of this nature this administration has received. We are working with Clark Hill, P.L.C. for the legal aspects of how to handle this process and Hubbell Roth and Clark for the engineering aspect. All necessary steps were taken and hearings held to designate the drainage district and to then a Chapter 4 Petition was required. We did receive that petition, held the Board of Determination Hearing with an outcome of a need for necessity. The entire system was reviewed and a scope for a project to clean up the system that is in place as well as possibly add some branches was developed. Notice of Letting was held and bids solicited. None were received. We are currently reviewing scope and the bid documents to determine if there is a way to make this project more appealing to bidders. It is basically a "rehab in place" project so we are hopeful that is we extend the timeline to complete the work and bid it in a way that contractors could use the project as filler work between other projects, it may seem more appealing and we'll get bids. We have pulled together a schedule to receive bids and hold all hearings in early 2024.

The **Cummings Drain** had a landowner petition filed on August 27, 2019. The Board of Determination Hearing for this drain was held on February 26, 2020 and was found necessary. The project was assigned to Land and Resource Engineering for engineering. The scope of the project has been determined and we have worked through some relocation issues with Consumers Energy and some of the MDOT requirements. The project has been bid and construction began in the late summer early fall of 2023. We anticipate final completion in the summer of 2024.

The **Watson and Watson: Chris J. Drive Branch** had a landowner petition filed on September 27, 2019. The engineering firm assigned to the petition is Hubbell Roth and Clark. The Chris J. Drive Branch is a sub-district within the Watson and Watson. The petitioners are requesting a branch for some minor flooding that occurs near the roadway. The entire benefit for a branch at this location would be for three

landowners. A meeting was scheduled on-site with these landowners to discuss whether this is something they can undertake themselves as property owners as it will be much more cost effective if they do so. The drain office has already contacted the Eaton County Road Commission to ascertain their willingness to allow the landowners to put some tile in the road right-of-way to alleviate this flooding and it was indicated that they would be amenable to this. It was the drain office's belief that the landowners had undertaken a project on their own as they have not contacted the drain office since that meeting. However, we then received an additional complaint of some significant flooding within the district which was investigated. Based on this new information with additional concerns, a Board of Determination Hearing was scheduled and held on March 9, 2022 and found necessary. Hubbell Roth and Clark has done an entire evaluation of the system, located a couple areas of minor flooding that can be addressed as part of the project, and found some delta water and sanitary lines that are impeding the drain system. Project scope was finalized, agreements with Delta to help fund the water and sanitary obstruction corrections were entered into and the project was then bid and the Day of Review was held. Construction took place during 2023 and we will need to complete some lawn restoration projects in spring of 2024 and then this project can be closed out.

The **Bentley and DePue Drain** had a landowner petition filed on March 20, 2020. The engineering firm assigned the project is Spicer Group. The Board of Determination Hearing was held on June 30, 2020 and was found necessary. Initial work included the coordination of cleanup efforts in the area that was disturbed during the removal of water from the road in the winter of 2019/2020 near Columbia and Canal. The cleanup work was performed to coincide with the preliminary design of the drain near that intersection. That cleanup work was completed prior to October 1, 2020. Concurrently with that restoration work, collection of survey data was completed. This data was collection on the storm sewer, the open channels, and the private and road crossings. Project design was completed, Notice of Letting held, bids opened, Day of Review held, financing arranged and the project is currently under construction and should be finalized with some restoration work in spring of 2024 and then this project can be closed out.

The **Higby Drain** had a petition submitted by the City of Charlotte on March 1, 2021. This project has been assigned to Land and Resources Engineering for engineering. The Board of Determination Hearing was held on October 28, 2021 and was found necessary. We are currently working on project scope and design. There are quite a few buildings on top of or within our current easement of this drain. We will be contacting landowners within the district next to determine where we may be able to move this system in order to get it out from under buildings. There is also a section on the City of Charlotte airport property where there are city utilities that interfere with our system. And the city may be interested in moving the alignment of the drain on their property at this time in order to better serve the future functions of the airport. There are still quite a few details to work out on this project that we hope to move through in a timely manner.

The **Lemon Drain** had a landowner petition submitted on July 9, 2021. This project was assigned to Hubbell Roth and Clark for engineering. Upon initial review of the area, it was suggested that consolidating the Martin Drain into the Lemon Drain may be beneficial as they appear to work as one unit. Windsor Township Supervisor was contacted regarding the possibility of a consolidation petition. After a presentation to their Board, they executed the consolidation petition on September 14, 2021. The Board of Determination Hearing was held on January 26, 2022 and found necessary. Project scope and easements have been finalized and bids were received. The cost to proceed with this project is more extensive than anticipated. We have looked at ways to cut back on the scope while still alleviating the flooding complaints in the area and had meetings with the higher stakeholders in the district. A final determination regarding this project has not yet been made.

The **Watson No. 2 Drain** had a landowner petition submitted on July 27, 2021. The project has been assigned to Land and Resources for engineering as they were involved with a previous petition that was received but found not necessary. The Board of Determination Hearing was held on January 27, 2022, and was found necessary. Project scope has been determined, easements obtained, bids received and construction of the project should begin in winter of 2024. Final completion should occur by fall of 2024.

The **Allison Heights Drain** had a landowner petition submitted on May 17, 2022. The project was assigned to Spicer Group for engineering. Once they have completed a preliminary inspection of the system and are ready for a presentation to a board, the Board of Determination Hearing will be held.

The **Potter Drain** had a landowner petition submitted on June 30, 2022. The project was assigned to Land and Resource Engineering for engineering. The Board of Determination Hearing has taken place with an Order of Necessity made. We have been informed that Potterville Schools and MDOT are in the preliminary stages of a project that will occur within the drain right of way so we are hoping that we can coordinate our project with that project.

The **Harriett Avenue Drain** had a landowner petition submitted on August 15, 2023. The project was assigned to Spicer Group for engineering. Once they have completed a preliminary assessment of the system, a Board of Determination Hearing will be scheduled.

There are several additional petitions that have been provided to landowners who requested them that have not been submitted to our office.

A spreadsheet of all returned petitions and their status is attached.

The **Bank Intercounty Drain** had a landowner petition filed with the Intercounty Board for improvement and consolidation with a portion of the Briggs Intercounty Drain on November 19, 2021. The Intercounty Board held the Hearing of Practicability for this drain on April 25, 2022 and determined that it was practicable to move forward towards the next step which is a Hearing of Necessity. The Board authorized Spicer Group to obtain preliminary information and determine some options along with the approximate costs for those options to be presented at the Hearing of Necessity. Spicer Group has presented that information at the Hearing of Necessity and the Board determined that there was a need for Necessity. Spicer Group has been working on the plans for scope and there have been a few meetings with Delta Township as they have many utilities within this area that will be impacted. While we typically do not include intercounty petitions in this report as all decisions are made by a Board, given that this has the potential to be a very large-scaled project, we will include it within this report until its completion. The hope is to have everything designed and all easements in place so that bids can be obtained and contracts signed prior to the end of 2024. A presentation to the Public Works and Planning Commission is set to occur in January of 2024.

Year Rec'd	Drain Name	Engineer	Legal	Status	Municipality	Municipality	Municipality	Municipalit	BOD outcome	Petition Type	Cost
2013	Figg	Spicer	FSBR	Completed in 2018	Windsor				necessary	Both	$140,000.00
2013	McCabe	Spicer	FSBR	Completed in 2018 w/Figg	Windsor				necessary	Both	
2014	Burns	Spicer	FSBR	Just needs closing documents	Sunfield	Village of Sunfield			necessary	Landowner	$2,292,317.00
2014	Kinnie Brook	LSG	FSBR	Completed	Sunfield				necessary	Landowner	$750,000.00
2014	Old Maid Relaid, Harris, Whaley	Spicer	FSBR	Completed in 2019	Windsor				necessary	Landowner	$2,209,498.00
2015	Guinan	Spicer	FSBR	Completed	Oneida	Roxand			necessary	Landowner	$475,000.00
2016	Fulton	Spicer	FSBR	Completed	Windsor				necessary	Landowner	$1,270,000.00
2016	Brown	Spicer	FSBR	Project design phase	Carmel	Eaton			necessary	Landowner	
2016	Burns Village Extension	Spicer	FSBR	Div I complete - Div II needs fianlizing	Sunfield	Village of Sunfield			necessary	Municipality	$529,886.32
2016	John Earl	Spicer	FSBR	Completed	Oneida	Benton	City of Grand Ledge		necessary	Landowner	$2,901,000.00
2016	Loveless	Spicer	FSBR	Completed	Brookfield	Walton			necessary	Landowner	$269,000.00
2016	Lumbart	Spicer	FSBR	Completed	Oneida	City of Grand Ledge			necessary	Landowner	$360,007.07
2016	Blair Acres	LSG	FSBR	Landowners resolved	Eaton	City of Charlotte			necessary	Landowner	
2016	Watson No 2	LRE	FSBR		Oneida				not necessary	Landowner	
2017	Dillon	CEI	FSBR	Under construction	Carmel	Walton			necessary	Landowner	$2,930,000.00
2017	Trumbull	CEI	FSBR	Under construction	Carmel				necessary	Municipality	$1,500,000.00
2017	Hobart	Spicer	FSBR	Hamlin Township asked to hold	Hamlin	City of Eaton Rapids			necessary	Municipality	
2017	McGilvra	Spicer	FSBR	MDOT reevaluating their crossing	Hamlin				necessary	Municipality	$723,083.22
2017	Mills & Post	Spicer	FSBR		Brookfield	Eaton	Eaton Rapids	Hamlin	not necessary	Municipality	
2018	Glen No. 2	CEI	FSBR	Awaiting final stabilization	Oneida				necessary	Municipality	$1,282,821.85
2018	Ray	LRE	Clark	Consolidated in Cooper Frost Reynolds	Carmel				necessary	Municipality	
2018	Windsor	HRC	FSBR	Completed	Windsor				necessary	Landowner	$998,000.00
2018	Garvey and Branch	LRE	FSBR	Completed	Eaton				necessary	Landowner	$770,000.00
2018	Patterson and Dubois	HRC	FSBR	Completed	Oneida				necessary	Municipality	$1,380,000.00
2018	Munson	LRE	Clark	Completed	Benton	Carmel	Chester	Eaton	necessary	Landowner	$995,000.00
2018	Cooper Frost and Reynolds	LRE	Clark	Spring 2024 stabilization confirmation	Carmel	Charlotte			necessary	Municipality	$4,190,000.00
2018	McCreery	Spicer	FSBR	Awaiting final stabilization	Walton				necessary	Municipality	$935,000.00
2019	Church and McClintic	LRE	Clark	Awaiting final stabilization	Benton	Eaton			necessary	Landowner	$1,150,000.00
2019	Woodview Estates	LRE	FSBR	Under construction	Oneida	City of Grand Ledge			necessary	Landowner	$912,588.71
2019	Lee	Spicer	FSBR	Working on Project Scope	Delta				necessary	Landowner	
2019	Bellaire Hills - app for district	HRC	Clark	Order Designating District Filed-	Delta					Landowner	
2019	Cummings	LRE	FSBR	Under construction	Eaton	City of Charlotte			necessary	Landowner	$4,354,599.39
2019	Watson & Watson: Chris J Drive	HRC	Clark	Spring 2024 stabilization confirmation	Delta					Landowner	$907,580.02
2020	Bentley and DePue	Spicer	FSBR	Spring 2024 stabilization confirmation	Eaton Rapids				necessary	Landowner	$3,760,000.00
2021	Higby	LRE	FSBR	Working on Project Scope	City of Charlott	Eaton				Municipality	
2021	Lemon	HRC	FSBR	Project expense being reviewed	Windsor					Landowner	
2021	Watson No 2	LRE	FSBR	Construction to begin winter 2023	Oneida					Landowner	$867,000.00
2022	Bellaire Hills - establish drain	HRC	Clark	working on rebidding	Delta					Landowner	
2022	Allison Heights	Spicer	FSBR	Engineering Study	Delta					Landowner	
2022	Potter (Benton Township)	LRE	FSBR	Working on Project Scope	Benton	City of Potterville				Landowner	
2022	Harvest Park - petition for district	Spicer	FSBR	landowners executed 433 agreement	Windsor					Landowner	
	Harriet Avenue	Spicer	FSBR	Engineering Study	Delta					Landowner	

not necessary

completed

needs BOD

MAINTENANCE & REPAIR ACTIVITY

Open Channel Work

The **Big Thornapple Drain** is undergoing a major clean-out project that consists of approximately 36,447 feet (7 miles) of tree removal, removal of excess sediment, beaver dam removal, correction of any erosion issues along the way, and a 10-foot wide lane clearing along one side for the spray program vehicle. This job was bid out via sealed bids on December 18, 2019 and awarded to Burkett. During 2023 there was over 6000' of open ditch cleared from just west of Cochran Road to almost the confluence of the Little Thornapple as part of our continued effort to remove all the deadfall and sand bars from the drain to restore proper flow and relieve some of the backups within the drainage districts.

The **Little Thornapple Drain** had an open channel clean-out project completed in 2023. Approximately 5000' of drain was cleared of deadfall and obstructions causing erosion and minor dipping in areas of sand bars from the confluence of the Baker drain to Kinsel Highway. This stretch was a multiyear project for 2022 and 2023. There were 8 culverts installed along the drain to allow access for the spray program truck to facility the ongoing maintenance of the drain. We started work on the Little Thornapple in2021 and will take years to complete the entire drain.

The **McMullen and Branches Drain** had 2500' of open ditch cleared of dead fall and overgrowth removed from drain to restore flow from East Mt. Hope Highway to the north. This was a continuation of a project started in 2020

The **Shanty Brook Drain** is a project started this year that will take several years to complete under drain maintenance dollars. We cleared 2200' of dead fall and dipped as needed to restore flow starting at the north of Nashville Hwy at the Big Thornapple Drain.

The **Huber Drain, Huber Extension Drain, Sidwell & Relaid Mills Drain** and **Childs Drain** received multiple complaints. Sediment build up in the Huber made it so we needed to start there to restore flow in the others. These drains will take several years to complete work. Huber Drain had 754' of clearing, Huber Extension Drain had 900' of clearing, the Sidwell & Relaid Mills Drain had 2000' of clearing, and the Childs Drain had 1250' of clearing. Clearing consisted of log jams, dead falls and beaver dams removed with dipping to help restore flow to the system. This project started 500' upstream of Narrow Lake Road.

Enclosed Tile Work

The **Cox Drain** is a continuation of project that began in 2022. We replaced 800' of 10" clay tile and plastic repairs with 10" dual wall HDPE (high density polyethylene) across a farm field.

The **Crandall Drain** is a continuation of a project that began in 2022. We replaced 700' of 10" clay tile with 10" dual wall HDPE through a flooded area. The drain right-of-way also needed cleared of trees and brush. This drain will take several years of continuous work to restore flow.

The **Dooling Drain** is a continuation of project that began in 2022. We replaced 560' of 15" clay and plastic repairs with 15" dual wall HDPE across farm fields to resolve blow holes in the field. More work is needed to repair issues upstream.

The **Churchill Drain** is a continuation of projects since 2019. In 2023 we replaced 500' of 15" clay tile with 15" dual wall HDPE across a farm field.

The **Doxie Drain** is a continuation of projects since 2020 that required a resolution to exceed with Sunfield Township to complete. Starting at the Sebewa Intercounty drain and working upstream, there was 700' of open ditch work that needed dipped to restore proper flow and then 1070' of 24" clay needed replaced with 24" dual wall HDPE to stop all the blow holes from forming and replacement of the road crossing of Dow Rd to complete this project.

Additional Work

The storm of August 24th added an additional 100 drain complaints for complete drain blockages of tree root masses being flipped into the drains.

We are at 22 beaver removed at this point in the year and counting.

This is just some of the more extensive maintenance and repair situations that we have handled this year.

It should be noted that all of our maintenance and petition projects are complaint-based. The drain office does not go out looking for petitions or large maintenance projects to complete. We are 100% complaint-based when it comes to maintenance work. If the necessary maintenance cannot be done under current drain code rules or the complainant is asking for work to be completed that is outside of what drain code allows, such as adding a branch or enlarging a pipe size, they are informed that the only way those options can occur is if the landowner does it themselves and pays for it in full, or they have the option to file a petition.

COMPLAINTS & INQUIRIES

Complaints and inquiries continue to come in on a regular basis. Landowner complaints continue to be related to sink holes in fields that farmers need repaired prior to planting or after the crops come off the field or standing water that can't get to its designated outlet. We also get quite a few calls about flooded roadways. Drain inspections and evaluations continue to lead to an increase in the amount of tile that is completely failing, and we continue to put more pipe in the ground than just a typical sinkhole repair. We have been doing more open channel work as well. There are quite a few roads that need some significant structure repairs. This is also an issue where collaborative work with the road commission could rectify problems more efficiently. We strive to achieve a more harmonious relationship with the Eaton County Road Commission.

We continue to have several areas where we receive complaints that the work required exceeds the financial limits that the current drain code allows us to do under normal maintenance. We are still getting requests for petitions from landowners. We have also requested from townships some resolutions to exceed normal maintenance repair. We have one emergency declaration repair this year that has not yet been completed. Our only other course of action is to set up yearly maintenance programs for these drains where we do one section at time within what the drain code allows each year until the entire problem is repaired. We have several drains that are already working on this type of a program. There have been bills introduced in legislation that would raise the amount we can spend per mile per year from $5,000 to $7,500 which also has an inflation component to it. They seem to have gotten pushed off for the last couple of years but the Michigan Association of Drain Commissioners continues to work towards getting this implemented.

SPRAY PROGRAM

We continued with the spray program that was implemented in 2020. Right-of-Way Management came in and sprayed a total of 35 drains this year for a total of 251,934 feet of drains sprayed in 2022. As part of the program, inspection reports are provided back to the drain office that include issues with the drain

itself such as washouts and blockages but also invasive species developments and other maintenance issues that need to be addressed. This is a cost-saving project for the drainage districts overall.

EATON COUNTY DRAIN COMMISSIONER

2023 NPDES MS4 PHASE II STORM WATER ACTIVITIES REPORT

This report summarizes the activities started or completed in the year 2023 in the Urbanized Area of Eaton County. The Eaton County Drain Commissioner's staff oversees the Municipal Separate Storm Sewer (MS4) activities for Eaton County and ensures that regulatory tasks are completed efficiently and accurately. The following paragraphs outline work completed in 2023 as well as anticipated 2024 effort:

1. ***Trainings*** –Excal Illicit Discharge Elimination Plan (IDEP) and Good Housekeeping stormwater trainings took place internally on January 8, 9, 10, 13, and 23, 2023. Five Eaton County Road Commission (ECRC) personnel attended these virtual trainings. The link to the Excal materials is shown below.

   https://mitcrpc.box.com/s/cf2cdn0ryhrmtbj8jfw4luzemu36hdu6

2. ***Website Updates*** – The Eaton County Drain Commissioner's office keeps their stormwater webpage and Facebook page up to date with current information relating to stormwater. Often the content posted is provided by the Greater Lansing Regional Committee for Stormwater Management (GLRC) and relates to stormwater stewardship and management. Topics include responsible car washing, lawn and garden care, green infrastructure at home, and motor oil management, among others. During 2023, ten Facebook posts on the Drain Commissioner's Facebook page were related to responsible stormwater management and stewardship.

3. ***Presentation of GLRC Scroll Information*** – Informational stormwater scrolls from GLRC were on display in the lobby of the Eaton County offices for the month of August in 2023. The intent of the scrolls is to help raise awareness of stormwater, stormwater management, and stormwater pollution prevention for county residents and visitors to the County Building. Additional digital methods of educating the public on stormwater continued in 2023, as noted in item 2 above.

4. ***Greater Lansing Regional Committee (GLRC) membership*** – The Eaton County Drain Commissioner's office continues to be active within the GLRC by attending meetings and events coordinated by the GLRC. This active role continues to ensure that Eaton County has strong representation within the GLRC and continues to be a leader in promoting stormwater management in the Greater Lansing Area. More information regarding the GLRC can be found at the following website link: https://www.mywatersheds.org/

5. ***Total Maximum Daily Load (TMDL)*** – The TMDL Plan for Eaton County was approved by EGLE in August of 2019 for the following issues: *Escherichia coli* (*E. coli*) bacteria in the Grand River and Degradation of macroinvertebrates in the sediment of Carrier Creek. The schedule proposed in the plan was to complete testing in 2020 and again in 2022 for the current permit cycle. The testing involves obtaining water samples for *E. coli* bacteria testing at 5 sites in the county and for one macroinvertebrate survey in Carrier Creek, which was/is to be conducted by Michigan's Department of Environment, Great Lakes and Energy (EGLE).

In 2022, the five TMDL monitoring sites were scheduled to be sampled for second time during the permit cycle. Weather conditions and TMDL plan requirements made a qualifying TMDL rain event uncommon. However, two of the five sample sites were able to be sampled per TMDL monitoring requirements. This meant that three sites remained to be sampled in 2023. These three sites were successfully sampled in 2023. First round (2021) sample event *E. coli* results were higher in concentration than second round (2022, 2023) sample event results. Data suggests that *E. coli* concentrations are trending down in Eaton County Drains, therefore helping to meet the local TMDL's goal of reducing E. coli in the Grand and Red Cedar River watersheds. E. coli results are shown below.

Drain Name	***Sample Date***	***E. coli Results (MPN/100 mL)***	***First/Second Round of Sampling***
Watson & Watson Drain	10/14/2021	14,000	First
Watson & Watson Drain	7/20/2023	1,300	Second
Keller Drain	10/14/2021	18,000	First
Keller Drain	4/13/2022	820	Second
Hunter & Branches Drain	10/14/2021	4,900	First
Hunter & Branches Drain	7/20/2023	2,400	Second
Clements-Underhill Drain	10/14/2021	1,600	First
Clements-Underhill Drain	4/13/2022	37	Second
Bollman-Damon Drain	12/1/2021	920	First
Bollman-Damon Drain	7/27/2023	410	Second

6. ***Dry Weather Screening*** – During the summer and fall of 2023, the Eaton County Drain Commissioner (ECDC) completed dry weather screening inspections on the 32 outfalls and points of discharge that remained to be screened for the current permit cycle. Of the 32 inspected sites, 19 required follow ups. IDEP screenings, during dry weather conditions, provide information on whether there are any illicit connections to the existing storm pipes in the ground. If there is flow present in the outfall or point of discharge pipe being inspected, the water is tested to determine if it is uncontaminated groundwater. Follow-up inspections are completed if there is flow present during the initial inspection. A follow-up inspection is completed within two weeks of the initial inspection. In 2023, follow-up inspections showed that there was no evidence of illicit connections and/or illicit dumping. A report documenting observations, and if applicable, water quality data, is generated for each inspection site. During the 2024 season, no IDEP screening is required, as all the sites have been inspected during this permit cycle. IDEP inspections and reports of illicit connections or dumping will be carried out on an as-needed basis.

7. ***Detention Basin Inspection*** – Eleven county owned detention basins and constructed wetlands were inspected in 2023. No major issues were found while inspecting the basins, however minor maintenance issues were identified. Maintenance issues remained consistent with what was observed during 2022 inspections. The most common maintenance needs for the detention basins included vegetation and tree management. Vegetation and trees are in the beginning stages of impeding full access to the detention facilities, however, the vegetation is not impeding

the function. Reports have been completed and are on file. Detention basins are to be inspected again in 2024.

8. ***Spills*** – Three spills were reported in 2023. The first reported spill took place on February 8, 2023. An oily sheen on the Butternut Creek Drain by the Charlotte Airport was reported to the drain office by the airport manager. Inspectors followed the sheen upstream to a home off Island Highway, where a sump pump outlet pipe was intermittently flowing into the drain. Each time the pipe would flow, more oily sheen would come out with the water. The homeowner's daughter and fire department arrived. Upon entry to the home, there was a strong petroleum smell. In the basement it was discovered that a home heating oil tank was leaking and flowing into the sump pump crock. Each time the sump pump would pump groundwater into the drain (which is an allowable discharge), with it came the leaked heating oil. After identifying the cause of the sheen, the leak was promptly stopped, and the spilled oil was cleaned immediately from the crock, basement floor, pipe, rocks, and drain. As cleanup was taking place, water samples were collected at the sump pump outlet pipe to the drain and at the Lansing Road and Packard Street crossings of the drain. Diesel range organic compounds and volatile organic compounds were detected only at the source sample site.

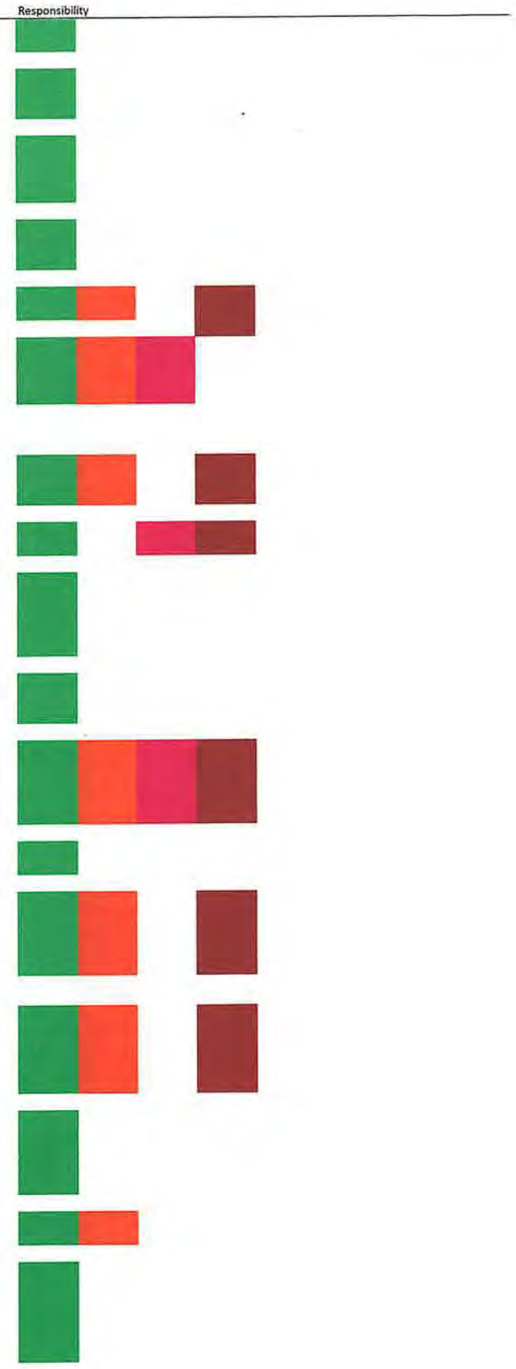
   The second spill took place on June 1, 2023. A semi-truck was traveling on southbound I-69 just north of the interchange with Lansing Road in Windsor Township, Eaton County, Michigan, when a protruding object pierced the truck and lead to a hydraulic fluid spill. The truck pulled off on the off ramp to Lansing Road. The spilled material did not leave the roadway, and absorbent materials were installed quickly to sorb the fluid and begin the cleanup process. The spilled material did not discharge to the nearby Old Maid Relaid, Harris and Whaley Drain, any other water bodies, or the ground.

   The third spill took place on August 14, 2023 in the Garvey Drain east of Charlotte. A tractor applying approved herbicide to weeds within the drain right of way tipped over. Hydraulic fluid and the herbicide spilled into the drain. Water within the drain at this location was slow to stagnant and low due to lack of rainfall and runoff for approximately seven days. Immediately downstream of the spill was a culvert that passes underneath Island Highway. The culvert had a buildup of sand and sediment that did not allow the spilled substance to flow past that point. The sand in the culvert, low water level, and the lack of flow within the drain allowed for the spill to be contained while clean-up activities commenced. Booms were installed immediately to soak up fluid on the surface of the water. A professional environmental cleaning service was called and the remaining spilled material was cleaned up.

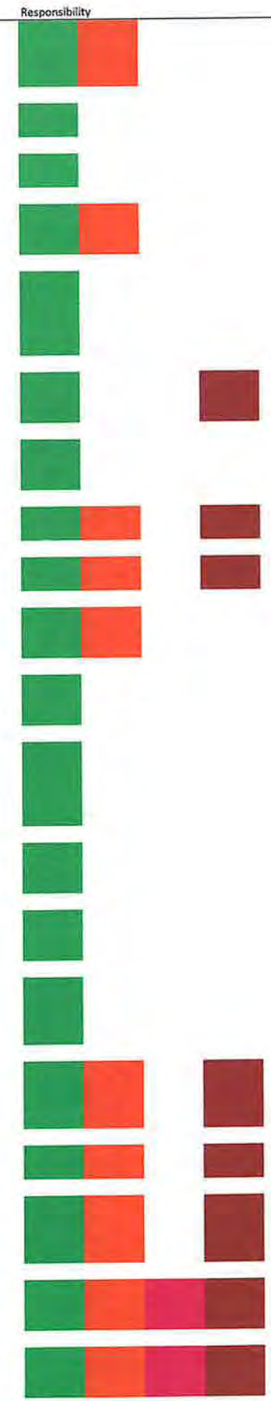
9. ***Catch Basin Cleaning*** – In 2019, the Eaton County Drain Commissioner implemented a Catch Basin Cleaning program within the Urbanized Area per NPDES MS4 permit requirements. A total of 309 catch basins were cleaned in 2023. Per Eaton County's NPDES MS4 permit, 2% of catch basins cleaned or a total of 40 cleaned catch basins, whichever number is higher, must be randomly inspected by a third-party following maintenance. A total of 40 random follow-up catch basin inspections were completed and documented.

		Goal	Evaluation	Start/Complete	Documentation	Comments - Activiti	Responsibility	
Public Participation								
	Post PEP, Progress Reports, etc to the GLRC website		Track website traffic related to the documents	On-Going				
	Post SWMP and Progress Reports to the community website. Include a link on the community website to the GLRC website. Follow the local public notice requirements		Track website traffic related to the documents and number of inquiries related to the program	On-Going				
Develop and Maintain Master PEP								
	Maintain Master PEP document as needed for progress report submittal. Update Document based on BMPs completed in preparation for progress submittal.	Updated Master PEP	Updated BMPs with completed progress reports	On-Going				
PEP Evaluation and Effectiveness								
	Provide information to GLRC members on an updated survey to evaluate the effectiveness of the PEP			Follow up survey 2016		Was recently completed. A follow up survey was to be conducted in 2016		
	Partner with GLRC to conduct follow up survey to determine PEP effectiveness		Survey results, number of people surveyed	July 2016 - Oct 2016		Was this completed?		
PEP: Website Management and Education								
	Update www.mywatersheds.org	Updated website		On-Going				
PEP Collaboration								
	Represent GLRC in a regional public education campaign with the Middle Grand River Organization of Watersheds		Effectiveness of educational materials / strategies	Start - Jan 2013		Follow up ? Status?		
PEP A : A Public Responsibility & Watershed Stewardship								
	Maintain watershed signage			On-Going	Number of signs installed	How many signs have been installed? Which ones need to be replaced?		
	Promote Do you know your watershed brochure			On-Going	Number of brochures given	How many have been distributed and who have they been distributed to?		
	Support and promote Mid-MEAC's volunteer stream monitoring effort			On-Going		Who has participated and when? When are there upcoming events?		
	Utilize the GLRC educational display for Adopt A River / Quiet Water Symposium, community events, lobby traffic, etc			On-Going		What events has the display been at? What is being displayed? Does it have to be updated?		
	Update the GLRC education display panels to relate more specifically to the minimum control measures and target audiences	Updated GLRC education display		Start - August 2013 Finish - December 2014		Was this completed? Does it need to be updated?		
P2 Good Housekeeping - Employee Training								
	Maintain and track the usage of Excel Visual employee training videos "Rain Check" and "Storm Watch"			On-Going		How many employees will be trained? When will they be trained?		
	Provide a training session showing the training video for all GLRC members twice during the permit cycle	Two training sessions per year		On-Going: Twice a year		When will these training sessions take place?		
	Implement employees training schedule. New employees within the first year , other staff once during permit cycle	Developed employee schedules		On-Going. Once per permit cycle. First year for new hire		Have schedules been developed?		Spicer to do staff training
TMDL Implementation - Water Quality Data								
	Maintain the Master Quality Database to assist the GLRC members. Data includes all local sources of monitoring from biological to chemical pathogens, etc		Amount of monitoring data, number of active monitoring programs	On-Going		Is that data base updated?		
TMDL Implementation - BMPs								
	Implement BMPs to meet the TMDL implementation plan			On-Going		Have any BMPs been implemented? How can we move forward implement BMPs in the future for individual projects.		
TMDL Implementation - Collaboration								
	Indicate the collaborative efforts of the project			On-Going				
TMDL Implementation - prioritizing /monitoring								
	Implement the prioritized BMP's and the monitoring program for assessing progress of the BMP's							Spicer to direct BMP and monitoring
Progress Reports								
	Provide Progress Reports to GLRC members for preparation of individual progress submittals							Spicer Group to assist ECDC
PEP A : Public Responsibility & Watershed Stewardship								
	Billboard posting			Start - March 2013 Annually		What is the status of this? Are we still doing it?		
	Promote and distribute news articles series		Number of articles published, track website traffic	On-Going		What has been published and who was it distributed to?		
	Promote and Support Children's Water Festival		Number of students and teachers attending	On-Going		When is the festival? Are we participating in it? How have we promoted it?		
PEP B: MS4 Connection								

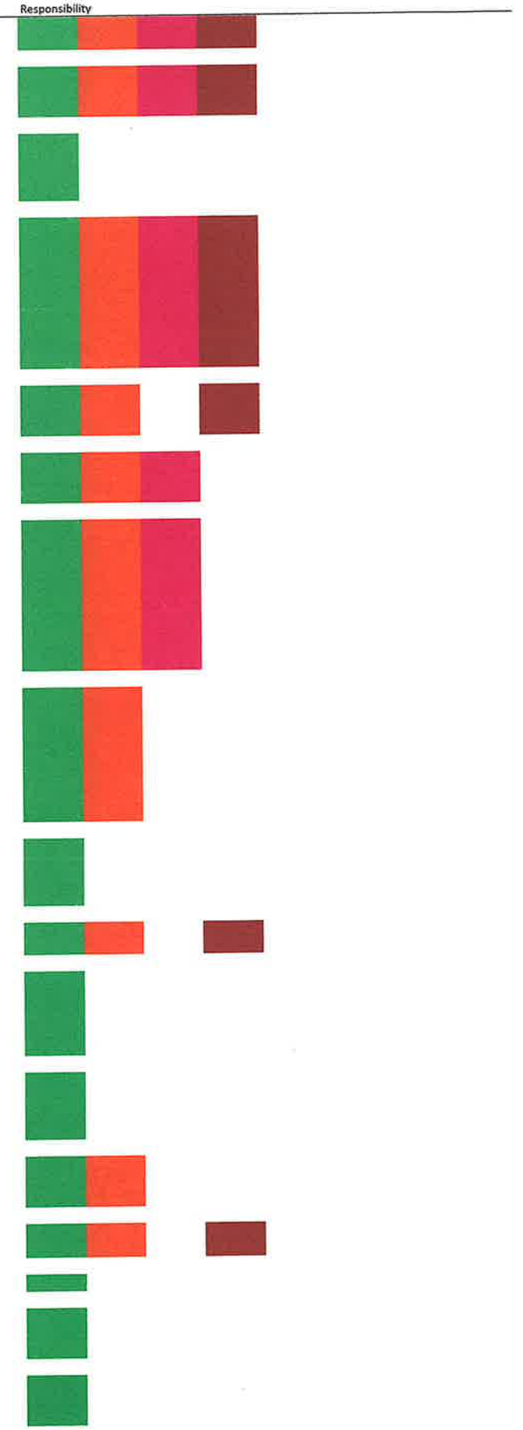
		Goal	Evaluation	Start/Complete	Documentation	Comments - Activiti	Responsibility		
	Maintain and update the GLRC webpage "My Watershed"			On-Going	Track Website Traffic	When was the last update?			
	Quarterly newsletters and annual report developed and distributed through email list, social media, and website			On-Going		Have they been generated? Who were they distributed to?			
PEP C: Reporting Illicit Discharges									
	Maintain the GLRC webpage, social media that lists contact information for all members and the state hotline regarding reporting of illicit discharges and illegal dumping to the public			Completed		Is the information up to date? When was it last updated?			
	Explore new language, delivery mechanism to make the illicit discharge awareness more reliable to the public			Start - April 2015 Complete - April 2015	Number of incidents reported	Was this completed? How many incidents were reported?			
	Provide Contact Information for reporting illicit discharge and illegal dumping on the website			On-Going		Is the necessary contact information provided in the appropriated locations?			
PEP D: Car Washing									
	Promote poster/brochure series : car washing, motor oil, fertilizer, pet waste			On-Going	How much material has been provided to the public?	Have these been updated and are the relevant?			
PEP E: Disposal of Pesticides		Coordinated with Topic Area G							
PEP F: Disposal of pet waste									
	Review and provide existing materials related to leaf litter disposal and grass clippings to GLRC members for distribution			Start July 2013		What materials have been distributed?			
	Maintain pet waste signage at local parks, dog parks, trails, etc			On-Going	Track number of signs posted	Where are signs located? Do we need to put more out? Have the signs been maintained?			
PEP G: P2 HHW									
	Promote local household hazardous waste, local travel trailer waste stations, yard waste procedures and recycling events via email and website postings, social media			On-Going	Track how much waste has been collected. Track website traffic	Where is the documentation to show that we have been doing this?			Coordinate with County Solid Waste program
PEP H: Septic System Care									
	Coordinate links to local county programs related to septic inspections, and 319 partner materials on GLRC website and social media			On-Going	Inspections and media updates	How many inspections have taken place?			
PEP I: GI & LID									
	Promote LID brochure, post on website, social media and use with educational display. Update as appropriate			On-Going	Number of materials provided to the public and website traffic	Where is the material located?			
	Maintain and update the GLRC webpage listing local LID Projects			On-Going					
	Incorporate all local LID projects into the Networked Neighborhoods for Eco-Conservation Online, incorporate all completed projects by 2014.			Start - August 2013	Track number of projects posted, comments received, etc	Were all the projects incorporated by 2014? Are we still doing this?			
	Promote local projects on website, public meetings, social media, etc.			On-Going	Track number of projects posted, comments received, etc				
	Develop topics with the ordinance/ BMP Committee for LID Presentation Series. Promote through email, websites, social media. Inform appropriate staff to LID Presentations Series Events			Start - April 2013 Finish - April 2017		What is the status of this?			
	Send appropriate staff/elected officials to LID Presentation Series events			On-Going Finish - April 2017		Who has been sent and to which events?			These can be drain conferences, MWEA presentations in East Lansing
	Participate in the Local Greening Mid-Michigan Project through TCRPC to support the GI vision, improved land use policies, and LID techniques. The GI vision includes a natural features inventory, identification of potential conservation areas and habitat sensitive lands.			On-Going					



		Goal	Evaluation	Start/Complete	Documentation	Comments - Activiti	Responsibility		
	Support the development of the GI video, promote the video through website, social media and through the GMM project on website		Number of people reached with videos	Start - June 2013 Finish - April 2017	Number of people reached with videos	How many people have been reached?			
	Promote videos provided through the GMM project on the website and social media			Start - January 2014 Finish - April 2017	Quarterly postings	Have the postings occurred? Are we continuing to update them?			
	Adopt the GI Vision			On-Going Finish - April 2017		Has the vision been adopted?			
PEP J: Riparian Lands									
	Promote riparian buffer brochure and other resources through website, social media. Update as appropriate			On-Going		What materials have been provided to the public?			
	Maintain riparian landowner list, provide materials via email, website or social media			On-Going	Number of people on the riparian list / materials provided	Is the list up to date? Are we still providing materials?			
PEP K: Business / Commercial education = Not Applicable									
	Explore opportunities to connect with local business regarding pollution prevention through storm water runoff.			Start - April 2013		How many business have been reached? Are they on board?			
IDEP									
	Implement the municipal separate storm sewer system Illicit Discharge Elimination Plan (IDEP). Include nested jurisdiction if applicable			On-Going	Number of corrective actions taken				
IDEP Mapping Locations									
	Maintain the GPS (Lat/Lon) locations of all MS4 outlets to waters of the state			On-Going		Are we up to date on this?			
	Maintain the location of an up-to date storm sewer map (s)			On-Going		Are we up to date on this?			Spicer to update based on field assessment
IDEP Prioritize the System									
	Implement the procedure for prioritizing the identification and investigation of outfalls and points of discharge			Start - April 2013	Procedure implemented	Was the procedure implemented? Does is need to be updated?			Spicer to review
	Maintain the geographical locations of each prioritized area using either a narrative description or map detailing			Start - April 2013	Maintain prioritized area locations	Have we maintained the locations?			Spicer to review and update
IDEP Screening									
	Implement the procedure and schedule for conducting field observations at all of outfalls and point of discharge in priority areas			Complete by 2017	Number of outfalls and points of discharge observed	Was this completed? Do we have proper documentation?			
	Perform field observations and points of discharge once per permit cycle in the prioritized area or entire MS4			Complete by 2017. Once per MS4 cycle	Number of outfalls and points of	Was this completed? Do we have proper documentation?			
	Implement the procedure for performing field screening if flow is observed and a potential source is not identified			On-Going	Number of field screenings performed	How many field screenings were performed?			
Source Investigation									
	Implement the procedure for performing a source investigation if the source of an illicit discharge is not identified by field screening			On-Going	Number of source investigation performed	How many were performed?			Spicer to assist
IDEP Response									
	Implement the procedure for responding to illegal dumping/spills			On-Going	Number of spills/illegal dumping responded to	Is there a plan? Does it need to be updated? Is the contact information correct?			
	Implement the procedure for responding to illicit discharges outside of the priority areas			On-Going		Is there a plan? Does it need to be updated? Is the contact information correct?			
IDEP Reporting									
	Implement the procedure for reporting any release of any polluting materials from the MS4 to waters of the state as identified by the Part 5 Rules (part of IDEP)			On-Going	Number of incidents reported				
IDEP Training									
	Track the Usage of Excel Visual employee training video "Illicit Discharge Detention and Elimination: A Grate Concern"			On-Going	Number of staff trained	Are we continuing training? What is planned? How many staff have been trained?			
	Provide a training session showing the training video for all GLRC members twice during the permit cycle			On-Going. 2 sessions per permit cycle	Number of staff trained				



		Goal	Evaluation	Start/Complete	Documentation	Comments - Activiti	Responsibility		
	Coordinate with the City of Lansing IDEP training program when appropriate			On-Going		Who is the contact? Have we been doing this?			
	Train new employees within first year of employment and other staff once during the permit cycle on all procedures described in the IDEP			On-Going		Who is in charge of this? Is it being done?			Spicer to assist in this training or provide materials
IDEP Evaluation									
	Implement the IDEP ordinance or other regulatory mechanism in place that covers section VII.			On-Going Once per permit cycle or first year of new hire					Spicer to review with ECDC
IDEP Regulatory Authority									
	Meet once a year to discuss member issues related to implementation and management of IDEP, sharing concerns, situations, solutions			Complete - May 2013	Number of illicit discharges eliminated, timeframe for eliminating the discharge, enforcement actions taken	Has this been happening? When is the next meeting?			
Construction SW									
	Implement the procedures for notifying the Part 91 agency or appropriate staff when soil or sediment is discharged to the MS4			Start - April 2013	Number of notifications				ECDC is the CEA for Eaton County These following items are in place
	Implement the procedure for notifying the MDEQ when soil sediment or other pollutants are discharged to the MS4			Start - April 2013	Number of notifications				
	Implement the procedure for ensuring that construction activity one acre or more obtains a Part 91 permit or is conducted by an approved Authorized Public Agency as appropriate			Start - April 2013	% of Part 91 permits obtained s part of site plan review. Number of projects completed as an APA				
	Implement the procedure for advising the landowner or recorded easement holder of the State of Michigan Permit by Rule			Start - April 2013	% landowner or recorded easement holders notified of Permit by Rule as part of Construction				
PCSWC - Collaboration									
	Maintain template ordinance; design manual (including inspection checklists, etc.) and policy and procedures manual for post-construction storm water control measures as developed by GLRC Members			On-Going					
	Convene the Post-Construction Storm water Control Technical Workgroup to discuss implementation strategies			Start - April 2013 Finish - April 2017		Occurs annually			
PCSWC - Regulatory authority / design criteria									
	Implement an ordinance or other regulatory mechanism that covers the water quality treatment performance standard and channel protection performance standard as described in section VII			On-Going	Number of ordinances / regulatory mechanisms adopted	Currently doing, What is the status			Spicer to review with ECDC
PCSWC - Alternative Approach									
	If utilizing the alternative approach, or off-site mitigation or payment in lieu programs, implement the procedure (including PCSWC manuals)			On-Going Finish - May 2013	Number of alternative approaches adopted.	Not applicable right now. Do we see further implementation of it?			Spicer to assist as needed
PCSWC Collaboration and Education									
	Develop a series of LID presentations that are beneficial to GLRC members (street trees, stormceptors, local project details, etc)			On-Going	5 per permit cycle	Are we continuing with this?			
P2 Good Housekeeping									
	Maintain the GLRC developed "Pollution Prevention and Good Housekeeping for Municipal Activities" handbook			On-Going					
	Update the handbook as necessary			On-Going					
	Use the Handbook or other method to meet P2/good housekeeping requirements to review existing program and make necessary changes			On-Going					Determine how to make sure Contractors working on ECDC projects implement
	Implement site specific BMPs/SOPs for each facility, operation and structure. Use the P2/good housekeeping manuals for scheduling and inspection criteria			On-Going					Training with staff on what this will entail



SOIL EROSION & SEDIMINDATION CONTROL ACTIVITY

The Eaton County Enforcing Agency (Drain Commissioner's Office) is responsible for the enforcement of soil erosion and sedimentation laws within the boundaries of Eaton County, except the City of Lansing. There are also several Authorized Public Agencies in the county responsible for monitoring their own activities. These include the Michigan Department of Transportation, the Eaton County Road Commission, the Eaton County Drain Commissioner, the City of Charlotte and the Lansing Board of Water and Light.

Site inspections must be performed before and during construction to ensure that Part 91 requirements are being met. A final inspection is performed to ensure the exposed soils have been permanently stabilized and the permit can be closed. During 2023, 109 Soil Erosion Permits were closed.

1 Permit issued in **2015** was closed in **2023**

1 Permit issued in **2019** was closed in **2023**

17 Permits issued in **2021** were closed in **2023**

74 Permits issued in **2022** were closed in **2023**

16 Permits issued in **2023** were closed in **2023**

During 2023, there was a total of **122 Soil Erosion & Sedimentation Control (SESC) Permits issued.** The breakdown by category for the SESC permits is as follows:

Category 1 – 12 Permits Issued
PROJECT TYPE
POLE BUILDING
INGROUND POOL
BUILDING ADDITION - <1000 SQ FT
LANDSCAPING

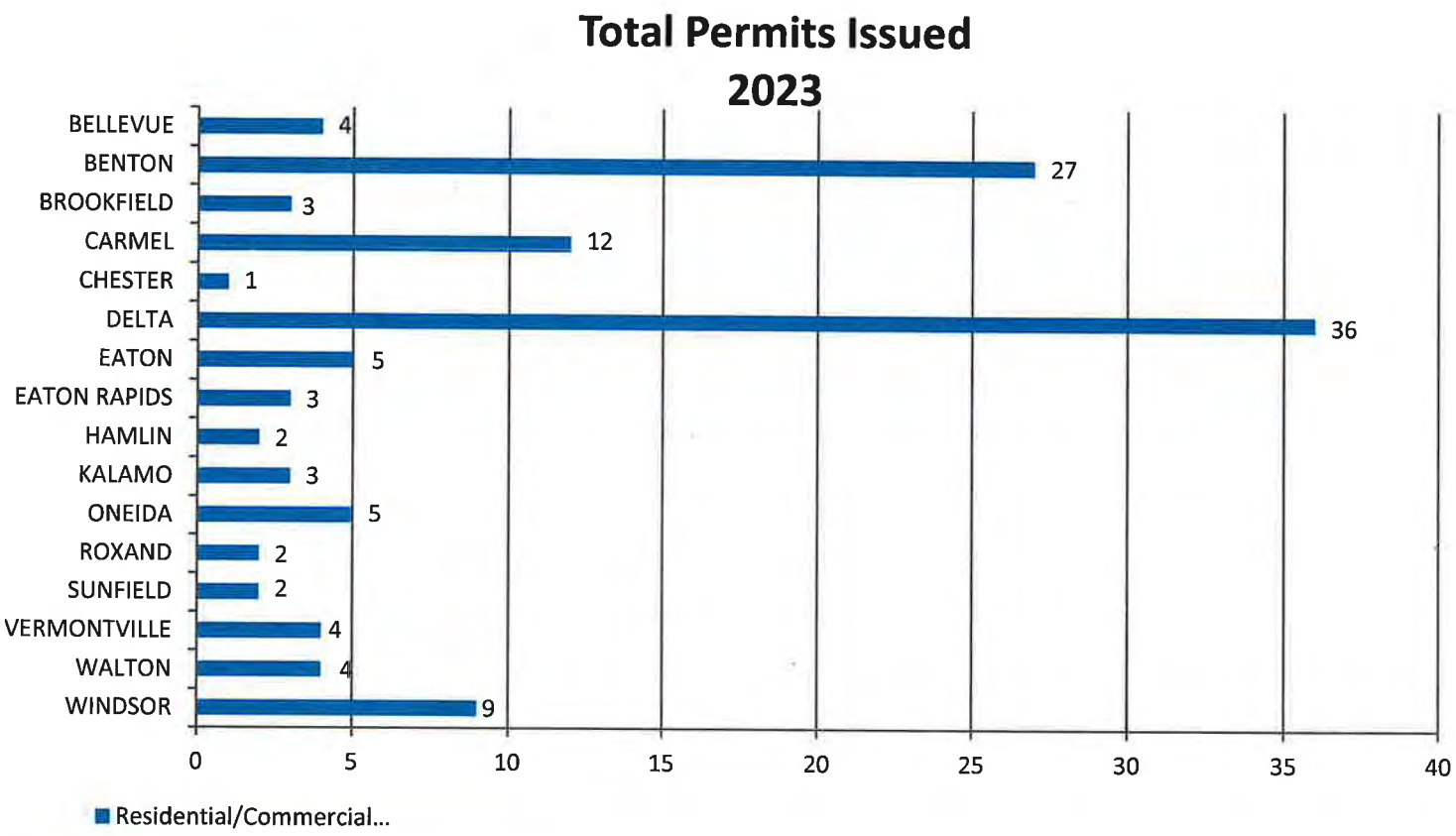
Category 2 – 70 Permits Issued
PROJECT TYPE
BUILDING ADDITION - ≥1000 sq. ft.)
SINGLE RESIDENCE
DUPLEX RESIDENCE

Category 3 – 24 Permits Issued
PROJECT TYPE
MULTIPLE RESIDENTIAL
INSTITUTIONAL
COMMERICIAL
INDUSTRIAL
PRIVATE ROAD

Category 4 – 9 Permits Issued
PROJECT TYPE
SURFACE MINING OPERATIONS
FILL SITE - < 1 ACRE
FILL SITE - 1 TO 4 ACRES
FILL SITE - ≥ 5 ACRES
MASS GRADING
PARKING LOT (NEW)
POND

Category 5 – 7 Permits Issued
PROJECT TYPE
(UTILITIES)
UNDERGROUND PLOWED
UNDERGROUND TRENCHED/BORING
LAND CLEARING

The chart below indicates the breakdown by township for SESC permits (Commercial & Residential) issued in 2023:



In addition to the permits issued in 2023 requiring site inspections, 95 permits from previous years were still open as of January 1, 2023 and required site inspections; for a total of 214 sites requiring weekly, monthly or final inspections. There are also 10 active surface mines that must be inspected throughout the year for compliance.

The Eaton County SESC program generated **$106,135.00** of revenue during 2023. This is a 23% decrease from 2022.

Fourteen (14) of the commercial development projects in 2023 required a Storm Water Impact Plan Review, Generating an additional **$5,600.00** of revenue for the Drain Office.

The SESC program works under the auspices of the Michigan Department of Environment, Great Lakes & Energy (EGLE). All organizations in the State of Michigan, that enforce the SESC Part 91 program, must partake in an EGLE audit approximately every 5 years. The audit is a 2-day process and involves examinations of the record keeping, reporting, file systems and forms. In addition, approximately 12 sites are randomly selected for field inspections. The last audit for the Eaton County Drain Office Soil Erosion Program was in May 2023. Based on the final Audit Report received from EGLE, Eaton County's SESC program had a violation. Responses have been submitted to EGLE as well as supporting documents and we are awaiting a response back from EGLE.

ASSESSING ACTIVITY

Assessments were levied against 185 drainage districts in 2023. Table 1 lists the amounts levied in each drainage district. In 27 districts, the levies were single installments of multiple year assessment rolls for newly constructed drains (petition projects). Zero long term issues will be retired in 2024 from 2023 tax collections.

A landowner affected by a long term levy has the right to pay off or pay down the outstanding amount, paying only interest accrued up to the date of payment. Unfortunately, given the conflict between return on investments and interest rates of the bonds themselves, this could result in these districts being subject to a deficit roll in the final year to meet the final bond payment obligation. An entire drainage district is liable for assessment under that scenario (M.C.L. 280.243). In some districts, funds may be left in construction to pay for maintenance through the end of the levy period.

Table 2 provides a sense of the assessment history of the Drain Commissioner's Office. This year's total assessment amount was above the previous year's amounts due the construction of 5 petitions projects beginning is 2023 and the first year assessments for those 5 projects all beginning this year as well. We continue to receive calls requesting that large maintenance projects be completed and have also requested and obtained resolutions to exceed the allowed maintenance dollars from township boards.

TABLE 1

SPECIAL DRAIN ASSESSMENT ROLLS

	A	B	C	D	E	F	G	H	I
2	**Year: 2023**								
3	**Project**	**Multiple Year**	**# of Parcels**	**TOTAL LAND OWNERS**	**TOTAL AT-LARGE**	**TOTAL MDOT**	**TOTAL ECRC**	**TOTAL RAILROAD**	**SUB-TOTAL**
4	**1009 LOWER SPRINGBROOK**	**2 OF 2**	**1730**	**$ 61,800.83**	**$ 11,649.00**	**$ 354.75**	**$ 7,136.25**		**$ 80,940.83**
5	218 BAKER	1 OF 2	225	$ 8,597.87	$ 1,060.35	$ 95.43	$ 850.40		**$ 10,604.05**
6	**221 BARHYTE**	**1 OF 1**	**54**	**$ 1,236.95**	**$ 75.00**	**$ 47.25**	**$ 140.85**		**$ 1,500.05**
7	227 BASELINE AND DEVIL'S LAKE IC	1 OF 2	61	$ 5,907.17	$ 867.30		$ 453.17		**$ 7,227.64**
8	**229 BASTEDO**	**2 OF 4**	**16**	**$ 1,271.27**	**$ 193.28**		**$ 158.76**		**$ 1,623.31**
9	234 BEAVER	3 OF 6	32	$ 4,358.54	$ 259.07		$ 259.07		**$ 4,876.68**
10	**235 BELL AND ALLEN**	**2 OF 6**	**12**	**$ 1,305.79**	**$ 199.25**	**$ 58.29**	**$ 97.14**		**$ 1,660.47**
11	236 BELLOWS	3 OF 8	6	$ 397.51	$ 66.25		$ 66.25		**$ 530.01**
12	**240 BENTELY & DEPUE**	**2 OF 20**	**341**	**$ 178,904.66**	**$ 30,456.68**		**$ 82,368.26**		**$ 291,729.60**
13	242 BENTON	1 OF 2	56	$ 1,080.21	$ 454.29		$ 790.95		**$ 2,325.45**
14	**245 BIG THORNAPPLE**	**1 OF 1**	**9884**	**$ 77,750.55**	**$ 42,744.00**	**$ 1,352.00**	**$ 11,232.00**	**$ 208.00**	**$ 133,286.55**
15	248 BLISS AND MCCLELLAND IC	5 OF 15	23	$ 10,587.57	$ 2,307.55		$ 678.69		**$ 13,573.81**
16	**249 BOATMAN**	**2 OF 3**	**11**	**$ 523.39**	**$ 66.67**		**$ 76.60**		**$ 666.66**
17	252 BODELL	2 OF 4	4	$ 180.76	$ 25.65		$ 50.06		**$ 256.47**
18	**254 BOND**	**3 OF 3**	**25**	**$ 3,100.97**			**$ 363.54**		**$ 3,464.51**
19	258 BOYER (EATON)	3 OF 3	24	$ 1,984.58	$ 12.63		$ 88.38		**$ 2,085.59**
20	**260 BRADLEY (KALAMO)**	**2 OF 2**	**33**	**$ 634.14**	**$ 64.64**		**$ 91.06**		**$ 789.84**
21	261 MCCABE	3 OF 3	22	$ 2,911.86	$ 1,077.33		$ 1,328.90		**$ 5,318.09**
22	**264 BRADLEY (CHESTER)**	**1 OF 2**	**11**	**$ 1,792.04**	**$ 182.21**		**$ 303.38**		**$ 2,277.63**
23	266 GAYTON BRANCH ONE	3 OF 10	57	$ 4,999.19	$ 295.46		$ 614.55		**$ 5,909.20**
24	**277 BRIGHTY**	**3 OF 4**	**19**	**$ 2,719.65**	**$ 357.00**	**$ 126.74**	**$ 366.64**		**$ 3,570.03**
25	280 BROWN	1 OF 1	67	$ 3,589.50	$ 1,000.00	$ 11.00	$ 399.50		**$ 5,000.00**
26	**283 SAVAGE**	**3 OF 3**	**31**	**$ 2,387.09**	**$ 363.56**		**$ 279.03**		**$ 3,029.68**
27	286 GETTYSBURG	13 OF 20	155	$ 77,522.78	$ 24,921.60		$ 53,996.80		**$ 156,441.18**
28	**288 BUCHANAN**	**1 OF 2**	**46**	**$ 4,071.86**	**$ 636.31**		**$ 594.41**		**$ 5,302.58**
29	291 BURNS	7 OF 20	120	$ 84,900.36	$ 39,625.08		$ 18,682.39	$ 695.81	**$ 143,903.64**
30	**294 BURNS VILLAGE EXTENSION**	**3 OF 15**	**55**	**$ 22,073.63**	**$ 9,560.96**		**$ 4,780.48**		**$ 36,415.07**
31	294-S BURNS VIILAGE EXTENSION SUPP	3 OF 15	1	$ 414.43					**$ 414.43**
32	**296 BURRELL IC**	**11 of 15**	**29**	**$ 18,210.60**	**$ 11,134.79**		**$ 14,135.06**		**$ 43,480.45**
33	298 BUTTERFIELD	3 OF 4	20	$ 773.01	$ 303.34		$ 1,083.36		**$ 2,159.71**
34	**299 BUTTERNUT CR TILSON BRYAN**	**2 OF 2**	**1048**	**$ 20,841.25**	**$ 1,731.69**	**$ 752.06**	**$ 2,197.91**	**$ 327.47**	**$ 25,850.38**
35	309 BARRETT (EATON RAPIDS)	2 OF 3	40	$ 2,387.00	$ 300.00		$ 255.30		**$ 2,942.30**
36	**311 BLAIR ACRES**	**2 OF 2**	**119**	**$ 3,021.52**	**$ 66.34**		**$ 1,010.07**		**$ 4,097.93**
37	323 CARMAN	12 OF 15	73	$ 22,829.86	$ 1,869.16		$ 1,836.17	$ 255.19	**$ 26,790.38**
38	**326- 3 Carrier Crk Supplemental**	**18 OF 19**	**2**	**$ 4,972.64**	**$ 18,552.33**				**$ 23,524.97**
39	326-1 CARRIER CREEK	19 OF 20	1690	$ 1,192,603.04	$ 76,158.99		$ 182,998.12	$ 2,995.99	**$ 1,454,756.14**
40	**326-MA22 CARRIER CREEK MAINTENANCE**	**1 OF 1**	**3707**	**$ 34,960.23**	**$ 7,366.99**	**$ 3,109.07**	**$ 4,324.19**	**$ 78.20**	**$ 49,838.68**
41	332 CHAPMAN	2 OF 7	25	$ 1,743.93	$ 345.13	$ 9.21	$ 46.02		**$ 2,144.29**
42	**338 CHURCH AND MCCLINTIC**	**2 OF 15**	**280**	**$ 60,710.77**	**$ 10,214.88**		**$ 15,889.81**	**$ 272.40**	**$ 87,087.86**
43	339 CHURCHILL	1 OF 7	42	$ 4,570.57	$ 437.48		$ 460.45		**$ 5,468.50**
44	**340 CLAFLIN**	**1 OF 2**	**2164**	**$ 25,707.85**	**$ 6,810.21**	**$ 1,289.95**	**$ 1,555.00**		**$ 35,363.01**
45	346 CODDING	3 OF 6	17	$ 1,984.00	$ 129.35		$ 214.46		**$ 2,327.81**
46	**347 COLE (CARMEL)**	**2 OF 4**	**47**	**$ 2,883.40**			**$ 1,222.16**		**$ 4,105.56**
47	351 COLE WRIGHT AND HELMS	1 OF 10	155	$ 3,840.79	$ 579.74		$ 406.78		**$ 4,827.31**
48	**355 COLTON**	**2 OF 8**	**40**	**$ 2,173.45**	**$ 130.39**		**$ 242.52**		**$ 2,546.36**
49	358 COOLEY	3 OF 5	40	$ 3,659.78	$ 92.68		$ 509.73		**$ 4,262.19**

	A	B	C	D	E	F	G	H	I
3	Project	Multiple Year	# of Parcels	TOTAL LAND OWNERS	TOTAL AT-LARGE	TOTAL MDOT	TOTAL ECRC	TOTAL RAILROAD	SUB-TOTAL
50	**360 COOPER FROST & REYNOLDS**	**1 OF 20**	**370**	**$ 301,073.15**	**$ 2,947.65**		**$ 61,592.63**		**$ 365,613.43**
51	362 COUNTY FARM	3 OF 5	55	$ 3,283.98	$ 193.64		$ 372.45		**$ 3,850.07**
52	**364 COX**	**2 OF 8**	**15**	**$ 721.78**			**$ 192.47**		**$ 914.25**
53	365 CRANDALL	1 OF 7	57	$ 3,288.70	$ 313.36		$ 314.93		**$ 3,916.99**
54	**366 CRONK AND BRANCH ONE**	**3 OF 10**	**24**	**$ 4,346.93**	**$ 10.22**		**$ 10.22**		**$ 4,367.37**
55	367 CROSS AND HORTON	3 OF 3	12	$ 836.50	$ 64.22		$ 302.92		**$ 1,203.64**
56	**368 CROUP**	**2 OF 4**	**22**	**$ 2,842.75**	**$ 437.38**		**$ 1,093.44**		**$ 4,373.57**
57	370 CUMMINGS	1 OF 20	57	$ 87,217.84	$ 25,038.58		$ 16,692.39	$ 3,472.02	**$ 132,420.83**
58	**374 CAMBRIDGE AND BRANCHES**	**2 OF 3**	**63**	**$ 2,111.29**	**$ 138.57**		**$ 332.56**		**$ 2,582.42**
59	390 DARLING	1 OF 10	45	$ 2,756.23	$ 551.24		$ 367.49		**$ 3,674.96**
60	**391 DAVIS EXTENSION**	**1 OF 5**	**32**	**$ 1,656.10**	**$ 163.32**		**$ 222.12**		**$ 2,041.54**
61	396 DECKE	2 OF 5	16	$ 4,673.09	$ 594.27		$ 135.06		**$ 5,402.42**
62	**402-1 DELTA SECTION 17**	**16 OF 20**	**94**	**$ 35,234.65**			**$ 14,232.19**		**$ 49,466.84**
63	406 DENSMORE PERKINS AND FISH CREEK	1 OF 5	307	$ 12,916.95	$ 1,966.82	$ 149.15	$ 1,357.11		**$ 16,390.03**
64	**407 DERNIER**	**3 OF 5**	**17**	**$ 1,994.23**	**$ 118.43**		**$ 233.31**		**$ 2,345.97**
65	409 DILLON	1 OF 20	290	$ 110,300.53			$ 37,830.39	$ 2,324.74	**$ 150,455.66**
66	**413 DIVINE**	**3 OF 3**	**39**	**$ 2,434.93**	**$ 269.33**		**$ 241.39**	**$ 129.28**	**$ 3,074.93**
67	420 DOXIE AND EXTENSION	3 OF 4	55	$ 3,281.53	$ 191.24		$ 349.97		**$ 3,822.74**
68	**422 DOXTATER**	**1 OF 1**	**43**	**$ 1,597.42**	**$ 160.00**		**$ 240.60**		**$ 1,998.02**
69	448 ELLETSON	3 OF 10	11	$ 2,097.38	$ 161.86		$ 438.36		**$ 2,697.60**
70	**449 ELLIOTT**	**3 OF 10**	**17**	**$ 870.39**	**$ 53.88**		**$ 153.34**		**$ 1,077.61**
71	452 FOX RIDGE	3 OF 5	50	$ 3,064.36	$ 1,228.20		$ 1,737.90		**$ 6,030.46**
72	**454 FAIRFAX**	**3 OF 4**	**22**	**$ 1,418.02**	**$ 146.88**	**$ 21.30**	**$ 147.43**		**$ 1,733.63**
73	460 FIGG (ROXAND)	1 OF 2	18	$ 793.46	$ 102.30		$ 106.60		**$ 1,002.36**
74	**461 FIGG (WINDSOR)**	**3 OF 5**	**27**	**$ 1,807.62**	**$ 535.48**		**$ 267.74**		**$ 2,610.84**
75	464 FISHER (ROXAND)	3 OF 6	7	$ 804.32	$ 124.51		$ 108.74		**$ 1,037.57**
76	**465 FISHER (BROOKFIELD/WALTON)**	**1 OF 6**	**26**	**$ 1,935.10**	**$ 57.91**		**$ 265.46**		**$ 2,258.47**
77	466 FIVE CORNERS	2 OF 4	106	$ 3,178.39	$ 756.60	$ 480.98	$ 653.92		**$ 5,069.89**
78	**469 FOREST GLEN**	**15 OF 20**	**85**	**$ 22,751.43**			**$ 20,352.27**		**$ 43,103.70**
79	474 FULTON	4 OF 20	44	$ 20,113.54	$ 22,743.76		$ 22,809.33		**$ 65,666.63**
80	**485 GAGE RELAID AND CORSETT**	**3 OF 4**	**36**	**$ 5,636.79**	**$ 226.34**		**$ 732.56**		**$ 6,595.69**
81	490 GARVEY	4 OF 20	55	$ 47,163.30			$ 8,130.51		**$ 55,293.81**
82	**492 GETTER**	**3 OF 3**	**24**	**$ 1,663.33**	**$ 168.33**		**$ 272.50**		**$ 2,104.16**
83	493 CROOKED BROOK IC	2 OF 15	111	$ 43,984.89	$ 7,429.81		$ 5,275.16		**$ 56,689.86**
84	**494c Gilbert & West Town IC**	**15 OF 20**	**112**	**$ 3,353.27**	**$ 455.53**		**$ 472.03**		**$ 4,280.83**
85	495 GLENN NO 2	2 OF 20	38	$ 55,434.00			$ 10,735.97		**$ 66,169.97**
86	**496 GRAGG**	**2 OF 2**	**10**	**$ 1,196.49**	**$ 151.46**	**$ 90.87**	**$ 75.73**		**$ 1,514.55**
87	501 GRANT	3 OF 4	58	$ 7,915.22	$ 795.60		$ 966.65		**$ 9,677.47**
88	**506 GRIER**	**2 OF 2**	**28**	**$ 596.31**		**$ 35.21**	**$ 51.12**		**$ 682.64**
89	508 GROAK	2 OF 4	22	$ 1,646.00			$ 205.79		**$ 1,851.79**
90	**510 GRUESBECK CLARK BROUGHTON**	**1 OF 7**	**200**	**$ 10,830.78**	**$ 1,046.83**		**$ 1,207.79**		**$ 13,085.40**
91	514 GUINAN	7 OF 10	42	$ 19,285.58			$ 5,446.59		**$ 24,732.17**
92	**529 HADDIX**	**2 OF 3**	**53**	**$ 1,226.64**	**$ 152.87**	**$ 31.34**	**$ 105.94**		**$ 1,516.79**
93	536 HARPSTER	3 OF 9	9	$ 1,780.97	$ 103.98		$ 194.65		**$ 2,079.60**
94	**543 HAZEL**	**3 OF 5**	**87**	**$ 2,415.97**	**$ 463.38**	**$ 463.38**	**$ 926.76**		**$ 4,269.49**
95	546 HESS	1 OF 5	31	$ 3,054.78	$ 368.57		$ 262.43		**$ 3,685.78**
96	**547 HETRICK**	**15 OF 20**	**62**	**$ 30,540.43**	**$ 14,299.20**		**$ 6,381.02**		**$ 51,220.65**

	A	B	C	D	E	F	G	H	I
3	Project	Multiple Year	# of Parcels	TOTAL LAND OWNERS	TOTAL AT-LARGE	TOTAL MDOT	TOTAL ECRC	TOTAL RAILROAD	SUB-TOTAL
97	554 HOLBROOK	1 OF 1	23	$ 1,437.31	$ 218.55		$ 165.37		$ 1,821.23
98	566 HUBER	1 OF 1	508	$ 7,137.60	$ 424.03	$ 68.69	$ 763.25		$ 8,393.57
99	567 HULL	3 OF 3	42	$ 3,025.79	$ 320.51		$ 245.08		$ 3,591.38
100	570 HUNTINGTON AND BRANCHES	1 OF 1	100	$ 2,431.16	$ 619.64		$ 534.65		$ 3,585.45
101	573 HUTCHINGS	2 OF 3	54	$ 1,526.46	$ 35.04		$ 179.87		$ 1,741.37
102	586 KENYON IC	2 OF 3	5	$ 1,715.40	$ 318.16		$ 353.25		$ 2,386.81
103	593 JACARANDA	1 OF 1	46	$ 2,793.30	$ 353.63		$ 1,013.47		$ 4,160.40
104	597 JOHN EARL	5 OF 20	883	$ 125,136.35	$ 10,574.92		$ 23,161.54		$ 158,872.81
105	597-19S JOHN EARL SUPPLEMENTAL	5 OF 20	14	$ 6,886.47					$ 6,886.47
106	598 JOHNSON	3 OF 4	91	$ 4,290.69		$ 536.13	$ 1,197.79	$ 95.76	$ 6,120.37
107	608 KINNIE BROOK	8 OF 20	50	$ 31,670.61	$ 2,343.00		$ 7,108.66		$ 41,122.27
108	609 KINT	2 OF 2	48	$ 2,952.61	$ 454.38	$ 62.86	$ 316.55		$ 3,786.40
109	612 LORA IC	1 OF 1	27	$ 357.86	$ 220.00		$ 220.00		$ 797.86
110	618 LEISHER	3 OF 3	80	$ 4,372.03	$ 411.07		$ 472.18		$ 5,255.28
111	622 LETT	2 OF 2	18	$ 765.20	$ 96.40		$ 104.90	$ 18.70	$ 985.20
112	625 LITCHFIELD	2 OF 4	9	$ 477.89	$ 27.03		$ 35.68		$ 540.60
113	627 LOCK	1 OF 5	82	$ 2,349.79	$ 230.78		$ 304.35		$ 2,884.92
114	629 LOEHR	1 OF 1	29	$ 1,256.40	$ 120.00		$ 123.60		$ 1,500.00
115	630 LOVELESS	6 OF 10	21	$ 25,218.23	$ 3,284.49		$ 3,284.49		$ 31,787.21
116	631 LUMBERT	3 OF 10	14	$ 11,576.60	$ 9,928.89		$ 4,702.36		$ 26,207.85
117	632 LUNDQUIST	2 OF 10	16	$ 2,359.02	$ 299.67		$ 338.03		$ 2,996.72
118	636 LITTLE THORNAPPLE	1 OF 3	1179	$ 31,916.75	$ 4,873.17	$ 344.89	$ 3,254.18		$ 40,388.99
119	645 MAST	1 OF 1	20	$ 1,195.35	$ 120.00		$ 184.65		$ 1,500.00
120	654 MEAD	1 OF 1	142	$ 3,077.01	$ 474.30		$ 401.18		$ 3,952.49
121	660 MILBOURN ALLEN AND CRANE	1 OF 1	671	$ 9,633.45	$ 1,205.28	$ 72.32	$ 1,141.40		$ 12,052.45
122	661 MILBOURN EAST-WEST EXT	2 OF 5	175	$ 4,232.98	$ 287.66	$ 49.05	$ 557.14		$ 5,126.83
123	663 MILES	1 OF 4	29	$ 758.52	$ 101.90		$ 158.54		$ 1,018.96
124	670 MITCHELL (BENTON)	1 OF 4	52	$ 3,917.42	$ 387.53	$ 219.44	$ 319.71		$ 4,844.10
125	673 MIX	1 OF 2	21	$ 964.62	$ 189.35		$ 113.61		$ 1,267.58
126	675 MOON	2 OF 3	15	$ 1,308.76	$ 203.82		$ 185.99		$ 1,698.57
127	683 MUNSON	4 OF 15	91	$ 39,653.27	$ 14,847.35		$ 7,892.54		$ 62,393.16
128	668 MURRAY	1 OF 1	106	$ 3,309.49	$ 1,208.26		$ 213.22		$ 4,730.97
129	691 MCCREERY	3 OF 20	42	$ 33,365.75			$ 15,876.18	$ 2,653.06	$ 51,894.99
130	694 MCGILVRA	3 OF 15	104	$ 40,932.21	$ 20,852.99		$ 5,307.64		$ 67,092.84
131	696 MCMULLEN AND BRANCHES	3 OF 4	69	$ 3,944.66			$ 170.96		$ 4,115.62
132	699 MCPHEE	3 OF 6	21	$ 2,444.17	$ 270.40		$ 290.00	$ 241.00	$ 3,245.57
133	723 NEWELL	2 OF 2	11	$ 390.48	$ 40.31		$ 62.54		$ 493.33
134	726 NYE AND EATON	1 OF 7	128	$ 3,340.82	$ 192.17	$ 43.81	$ 266.74		$ 3,843.54
135	732 O'DELL	3 OF 3	34	$ 1,912.47	$ 272.67		$ 518.07		$ 2,703.21
136	733 OLD MAID, HARRIS, WHALEY	7 OF 20	398	$ 80,011.63	$ 6,388.14		$ 9,659.89	$ 694.69	$ 96,754.35
137	733-S OLD MAID SUPPLEMENTAL	7 OF 20	33	$ 18,032.52			$ 45,442.28		$ 63,474.80
138	735 OLIVET SOUTH SIDE	1 OF 2	120	$ 1,532.44	$ 248.03		$ 60.06		$ 1,840.53
139	742 OWEN-EATON RAPIDS	2 OF 3	52	$ 1,965.25	$ 182.23	$ 80.18	$ 30.07		$ 2,257.73
140	748 PALMER	2 OF 6	41	$ 1,357.05	$ 78.63		$ 136.97		$ 1,572.65
141	752 PATTERSON AND DUBOIS	4 OF 15	141	$ 66,701.93			$ 12,733.96		$ 79,435.89
142	759 PHILLIPS TOWNSHIP	3 OF 3	54	$ 3,967.93	$ 605.94		$ 413.05		$ 4,986.92
143	764 PINNOCK	1 OF 2	56	$ 4,768.38	$ 277.76		$ 512.75		$ 5,558.89

	A	B	C	D	E	F	G	H	I
3	Project	Multiple Year	# of Parcels	TOTAL LAND OWNERS	TOTAL AT-LARGE	TOTAL MDOT	TOTAL ECRC	TOTAL RAILROAD	SUB-TOTAL
144	772 POTTER MULLIKEN EATON	2 OF 2	203	$ 4,220.21	$ 2,196.57	$ 85.66	$ 366.09	$ 324.35	$ 7,192.88
145	785 PHILLIPS	2 OF 4	16	$ 1,736.56	$ 347.30		$ 231.54		$ 2,315.40
146	803 REEDER AND OVERFLOW	3 OF 5	23	$ 1,664.75	$ 195.69	$ 37.77	$ 58.71		$ 1,956.92
147	809 RIMMEL	3 OF 4	18	$ 1,315.51	$ 76.50		$ 138.01		$ 1,530.02
148	811 RIVER RIDGE AND BRANCH	1 OF 1	135	$ 2,079.70	$ 1,126.92		$ 625.44		$ 3,832.06
149	815 RIVER COVE	1 OF 1	20	$ 1,352.56	$ 260.11		$ 121.38		$ 1,734.05
150	817 ROOT	1 OF 7	9	$ 1,175.50	$ 150.58		$ 179.63		$ 1,505.71
151	820 ROXAND SECTION 10	1 OF 6	6	$ 471.49	$ 61.53		$ 82.26		$ 615.28
152	822 REUBEN	2 OF 4	27	$ 1,375.93	$ 143.94		$ 279.43		$ 1,799.30
153	830-1 SHERWOOD FOREST	15 OF 20	49	$ 20,467.81			$ 3,825.93		$ 24,293.74
154	840 HAMLIN SECTION 16	3 OF 4	15	$ 1,731.99	$ 408.00		$ 408.00		$ 2,547.99
155	843 SEITLER	2 OF 4	13	$ 584.69	$ 34.74		$ 75.39		$ 694.82
156	847 SHAYTOWN	1 OF 2	55	$ 3,671.58	$ 499.95	$ 16.47	$ 42.23		$ 4,230.23
157	849 SHELLHORN & REAHM IC	3 OF 3	0	$ -	$ 13.78	$ 23.41			$ 37.19
158	850 SHERMAN	2 OF 6	38	$ 1,679.00	$ 311.03		$ 104.93		$ 2,094.96
159	854 SHRONTZ	3 OF 5	26	$ 6,977.83	$ 865.20		$ 808.96		$ 8,651.99
160	856 SILVER CREEK	2 OF 7	279	$ 5,784.68	$ 696.22		$ 417.73		$ 6,898.63
161	858 SKINNER EXTENSION	1 OF 1	450	$ 2,249.98	$ 510.00	$ 94.50	$ 145.50		$ 2,999.98
162	861 SMITH & EVANS IC	1 OF 1	0		$ 1,439.39				$ 1,439.39
163	862 SNYDER & WALKER IC	8 OF 8	4	$ 4,621.60	$ 192.55				$ 4,814.15
164	882 SCOTT	2 OF 3	9	$ 532.10	$ 54.38		$ 93.33		$ 679.81
165	899 TAYLOR (BROOKFIELD)	1 OF 1	20	$ 750.00	$ 50.00		$ 200.00		$ 1,000.00
166	902 THOMAS (BENTON-ONEIDA)	2 OF 3	40	$ 1,363.09	$ 169.82		$ 156.23		$ 1,689.14
167	903 THOMAS (ROXAND-SUNFIELD)	2 OF 4	18	$ 662.24	$ 77.25		$ 283.23		$ 1,022.72
168	905 THOMPSON	1 OF 1	53	$ 975.36	$ 120.00		$ 104.64		$ 1,200.00
169	917 TRUMBULL	1 OF 20	62	$ 60,099.68			$ 18,440.77		$ 78,540.45
170	920-2 THORNAPPLE & EXTENSION	13 OF 15	712	$ 34,048.25	$ 5,919.99		$ 3,296.06	$ 1,530.08	$ 44,794.38
171	924 UPTON	1 OF 2	116	$ 4,799.16	$ 1,919.55		$ 959.78		$ 7,678.49
172	929 VAN ALLEN	2 OF 3	17	$ 1,107.50	$ 169.70		$ 180.39		$ 1,457.59
173	937 WALKER	1 OF 2	7	$ 486.05	$ 52.52		$ 117.98		$ 656.55
174	938 WALSH	3 OF 3	54	$ 2,521.11	$ 262.60		$ 329.89		$ 3,113.60
175	944-20 WATSON NO. 2	1 OF 20	52	$ 33,391.34			$ 10,408.48		$ 43,799.82
176	945 WEAVER	2 OF 4	44	$ 518.80	$ 197.79		$ 161.83		$ 878.42
177	948 WILLIAMSBURG	1 OF 1	212	$ 2,240.00	$ 672.00		$ 1,568.00		$ 4,480.00
178	952 WHEELER	1 OF 5	22	$ 1,663.69	$ 97.64		$ 191.36		$ 1,952.69
179	954 WHITE & CARPENTER IC	1 OF 1	47	$ 7,067.63	$ 669.60		$ 632.77		$ 8,370.00
180	957 WILCOX (BROOKFIELD)	3 OF 4	22	$ 3,908.49	$ 481.87		$ 963.73		$ 5,354.09
181	958 WILE NORTH	1 OF 1	46	$ 1,656.82	$ 160.00	$ 62.40	$ 120.80		$ 2,000.02
182	964 WILLIS-SHAW	3 OF 3	62	$ 5,671.81	$ 1,831.77	$ 462.83	$ 357.63		$ 8,324.04
183	967 WILSON (KALAMO)	1 OF 4	24	$ 1,522.63	$ 152.85		$ 235.20		$ 1,910.68
184	970 WINCHELL AND UNION	3 OF 10	133	$ 10,928.84	$ 2,001.02		$ 1.30		$ 12,931.16
185	972 WINSLOW	3 OF 3	4	$ 335.48	$ 78.20		$ 90.81		$ 504.49
186	974 WOOD	3 OF 9	21	$ 1,424.79	$ 213.53		$ 141.11		$ 1,779.43
187	976 WRIGHT PARDEE MAXSON	1 OF 1	295	$ 5,440.32	$ 1,080.00		$ 679.68		$ 7,200.00
188	978-1 Watson/Watson & Branches	14 OF 15	374	$ 112,292.40	$ 18,599.96	$ 5,858.59	$ 27,880.09		$ 164,631.04
189	981 WINDSOR	5 OF 15	50	$ 37,478.97	$ 28,409.33		$ 7,965.64		$ 73,853.94
190	985 WESTLAND PARK	1 OF 1	47	$ 2,340.96	$ 2,818.44	$ 172.20	$ 366.00	$ 302.40	$ 6,000.00

	A	B	C	D	E	F	G	H	I
3	**Project**	**Multiple Year**	**# of Parcels**	**TOTAL LAND OWNERS**	**TOTAL AT-LARGE**	**TOTAL MDOT**	**TOTAL ECRC**	**TOTAL RAILROAD**	**SUB-TOTAL**
191	986 WATSON WATSON WINDCHARME	1 OF 1	131	$ 33.46	$ 467.50		$ 1,502.05		**$ 2,003.01**
192	987 WATSON WATSON CHRIS J DRIVE	1 OF 15	119	$ 50,017.69	$ 17,864.21		$ 21,066.37		**$ 88,948.27**
193	997 WOODVIEW ESTATES	2 OF 15	160	$ 45,887.31	$ 5,124.51		$ 9,682.94		**$ 60,694.76**
194	TOTALS:		35,987	$ 3,952,705.60	$ 572,310.27	$ 16,769.18	$ 905,850.19	$ 16,619.14	**$ 5,464,254.38**

TABLE 2

TWELVE-YEAR SUMMARY OF ASSESSMENT HISTORY

Twelve Year Summary of Assessment History

	2012	2013	2014	2015
Number of Districts Levied	132	122	119	133
Number of Parcels	22,230	14,410	19,368	31,829
Levied against Eaton County	752,013.86	712,957.69	682,939.66	667,801.55
Levied against State of Michigan (a)	6,053.25	13,292.85	20,142.76	25,927.66
Levied against Local Government (b)	506,917.31	431,306.18	423,961.26	509,933.03
Levied against Railroad Properties (c)	10,578.57	8,886.31	8,959.92	8,721.61
Levied against Private Lands	4,050,582.83	3,565,845.77	3,313,652.61	3,319,794.05
Total Special Assessment (d):	5,326,145.82	4,746,698.80	4,449,656.20	4,532,177.90

	2016	2017	2018	2019
Number of Districts Levied	87	119	141	229
Number of Parcels	21,393	26,153	25,170	31,280
Levied against Eaton County	564,850.90	628,110.60	630,555.42	648,264.83
Levied against State of Michigan (a)	22,913.76	26,609.24	24,568.02	30,155.64
Levied against Local Government (b)	425,468.98	471,435.96	436,628.92	473,350.27
Levied against Railroad Properties (c)	7,309.99	11,184.32	8911.32	8,670.17
Levied against Private Lands	2,974,997.72	3,371,471.37	3,246,214.18	3,288,968.05
Total Special Assessment (d):	3,995,541.35	4,508,811.49	4,346,877.86	4,449,408.96

	2020	2021	2022	2023
Number of Districts Levied	148	182	210.00	185.00
Number of Parcels	28,716	38,314	43,095.00	35,987.00
Levied against Eaton County	695,306.30	751,551.98	772,472.03	905,850.19
Levied against State of Michigan (a)	28,158.88	33,534.85	23,351.82	16,769.18
Levied against Local Government (b)	507,626.45	795,778.89	629,083.23	572,310.27
Levied against Railroad Properties (c)	8291.45	11587.43	11,522.45	16,619.14
Levied against Private Lands	3,269,758.97	3,686,968.12	3,580,634.70	3,952,705.60
Total Special Assessment (d):	4,509,142.05	5,279,421.27	5,017,064.23	5,464,254.38

NOTES

(a) Excludes prepayments received from MDOT for multiple year levies (typically before bonding).

(b) Includes amounts levied for benefits to local municipal streets.

(c) Includes amounts billed directly to railroads for lands not identified by standard parcel code numbers.

(d) Excludes prepayments received from all sources prior to date of levy.

FINANCE

A common misconception is that the Board of Commissioners allocates a certain amount of general revenue funds each year to pay for drain maintenance. Instead, all expenses incurred for the construction, repair or maintenance of county drains, including legal and engineering expense, are reimbursed through special assessment. Each of the drainage districts in the county has its own separate account from which invoices are paid and into which proceeds from assessments are deposited. The drain commissioner is required to give an account of the fund balance at the end of each fiscal year. The fiscal year for the drain commissioner is currently January 1 through December 31.

Table 3 lists cash on hand in each account (001.801), assets in the construction fund (001.100), assets in the debt service fund (001.851), receivables from interest bearing loans to other drainage districts (084.801) and the value of all assets (199.000). Only bonded accounts or projects for which long- term loans were procured have construction and debt service funds.

Table 4 lists the liabilities for each account and the source of the funds. Most liabilities will be erased in June of 2024 with proceeds from 2023 tax collections although a few may not be reconciled until the following year. Liabilities that have occurred as a result of a bond sale are not reflected in this table.

Promissory Notes are interest bearing short term obligations between drainage districts and are typically employed when an expense exceeds $1,000 for a particular repair. Although the Drain Code establishes a *drain revolving fund* for paying repair expense, the amount allocated in Eaton County is insufficient to begin to cover actual costs given the number of repairs completed over the course of a year.

Security Agreements or Notes are executed when a drainage district borrows from a banking institution or an individual. Occasionally securities are needed to pay for drain maintenance because of high costs or because assessments for the work will be levied over a number of years. Most security agreements or notes however are for loans secured for preliminary expenses leading to the eventual construction of a new drain. Security agreements and notes are typically paid off when a construction loan is secured or bonds are sold.

Obligations to the Drain Revolving Fund must be repaid within ten years of an expense. The amounts listed in Table 4 reflect outstanding obligations as of December 28, 2023. Some of these will be converted to promissory obligations before 2023 assessment levies are received in order to maintain a balance in the drain revolving fund to cover smaller expenses.

Table 5 lists drain orders issued during the past year.

TABLE 3

ASSETS IN DRAIN ACCOUNTS

Current Balance Report

balances as of: Thursday, December 28, 2023

DRAIN ASSETS

Drain Code	Drain Name	001.000 Cash	001.100 Construction Pool Investment Cash	001.851 Debt Pool Investment Cash	084.001 Receivable - Promissory Notes	199.000 Total Assets
1001	ALSPAUGH	$730.42	$0.00	$0.00	$1,303.48	$2,033.90
1002	DANE'S LAKE	$0.00	$0.00	$0.00	$0.00	$0.00
1003	WALWORTH	$0.00	$0.00	$0.00	$0.00	$0.00
1004	SHINER	$0.00	$0.00	$0.00	$0.00	$0.00
1005	HADDIX (ROXAND)	$0.00	$0.00	$0.00	$0.00	$0.00
1006	MEAD (KALAMO)	$129.47	$0.00	$0.00	$0.00	$129.47
1007	SECOND LAKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
1008	RULE	$0.00	$0.00	$0.00	$0.00	$0.00
1009	LOWER SPRINGBROOK	$0.00	$0.00	$0.00	$0.00	$0.00
1010	TRISKETT	$0.00	$0.00	$0.00	$0.00	$0.00
1011	BELAIRE HILLS	$0.00	$0.00	$0.00	$0.00	$0.00
1012	BOWEN	$0.00	$0.00	$0.00	$0.00	$0.00
1013	BROWN (KALAMO)	$0.00	$0.00	$0.00	$0.00	$0.00
1014	DALE	$0.00	$0.00	$0.00	$0.00	$0.00
1016	FOWLER (KALAMO)	$0.00	$0.00	$0.00	$0.00	$0.00
1017	NELSON & GOULD	$0.00	$0.00	$0.00	$0.00	$0.00
1018	POLLARD	$0.00	$0.00	$0.00	$0.00	$0.00
1019	SECTION 7 (EATON)	$0.00	$0.00	$0.00	$0.00	$0.00
1020	ROUSE (KALAMO)	$0.00	$0.00	$0.00	$0.00	$0.00
1021	TARBELL	$0.00	$0.00	$0.00	$0.00	$0.00
1022	WILE SOUTH	$0.00	$0.00	$0.00	$0.00	$0.00
1023	HARVEST PARK	$0.00	$0.00	$0.00	$0.00	$0.00
200	Revolving Fund Control	$1,936.80	$0.00	$0.00	$0.00	$2,550.30
201	ABEL	$164.53	$0.00	$0.00	$5,455.82	$5,620.35
202	ACKLEY	$0.00	$0.00	$0.00	$0.00	$0.00
203	ALDRICH	$31.51	$0.00	$0.00	$0.00	$31.51
204	AUTUMN WOODS	$0.00	$0.00	$0.00	$0.00	$0.00
205	AMES RELIEF	$181.89	$0.00	$0.00	$24,346.18	$24,528.07
206	ALLEN RICE AND BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
207	AMES	$473.11	$0.00	$0.00	$1,034.89	$1,508.00
208	ANDREWS	$404.04	$0.00	$0.00	$3,664.55	$4,068.59
209	ARMSTRONG HILLS	$2,697.39	$0.00	$0.00	$15,757.64	$18,455.03

Current Balance Report

balances as of: Thursday, December 28, 2023

Drain Code	Drain Name	001.000 Cash	001.100 Construction Pool Investment Cash	001.851 Debt Pool Investment Cash	084.001 Receivable - Promissory Notes	199.000 Total Assets
210	ARNOLD	$0.00	$0.00	$0.00	$0.00	$0.00
211	ASH	$0.00	$0.00	$0.00	$0.00	$0.00
212	AUSTIN	$478.50	$0.00	$0.00	$1,879.38	$2,357.88
213	ARDEN-MAYCROFT	$0.00	$0.00	$0.00	$0.00	$0.00
214	ALLISON HEIGHTS	$0.00	$0.00	$0.00	$0.00	$0.00
215	ASHFORD MANOR	$419.39	$0.00	$0.00	$7,018.55	$7,437.94
216	ZENTMYER	$150.87	$0.00	$0.00	$0.00	$150.87
217	BAILEY	$40.32	$0.00	$0.00	$0.00	$40.32
218	BAKER	$95.43	$0.00	$0.00	$0.00	$95.43
219	BALL	$94.11	$0.00	$0.00	$0.00	$94.11
220	BANK (Eaton)	$0.00	$0.00	$0.00	$0.00	$0.00
221	BARHYTE	$0.00	$0.00	$0.00	$0.00	$0.00
223	BARNHART	$454.43	$0.00	$0.00	$0.00	$454.43
224	BARRETT (Vermontville)	$48.72	$0.00	$0.00	$1,452.54	$1,501.26
225	BARRETT: MAIN BRANCH	$62.53	$0.00	$0.00	$0.00	$62.53
226	BARRY AND EATON INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
227	BASELINE DEVIL'S LAKE INTERCO	$0.00	$0.00	$0.00	$0.00	$0.00
228	BABCOCK	$0.00	$0.00	$0.00	$0.00	$0.00
229	BASTEDO	$62.04	$0.00	$0.00	$0.00	$62.04
230	BATTLE CREEK INTERCOUNTY	$15,659.50	$0.00	$0.00	$0.00	$15,659.50
232	BATTLE CREEK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
233	BEASORE & MAIER INTERCOUNTY	$1,275.86	$0.00	$0.00	$0.00	$1,275.86
234	BEAVER	$0.00	$0.00	$0.00	$0.00	$0.00
235	BELL AND ALLEN	$58.29	$0.00	$0.00	$0.00	$58.29
236	BELLOWS	$0.00	$0.00	$0.00	$0.00	$0.00
237	BENJAMIN AND BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
238	BANK INTERCOUNTY	$986.18	$1,305,999.59	$0.00	$0.00	$1,306,985.77
240	BENTLEY & DEPUE	$0.00	$897,046.92	$99,266.25	$0.00	$996,313.17
241	BENTLEY: SOUTH BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
242	BENTON	$0.00	$0.00	$0.00	$0.00	$0.00
243	BIGELOW	$0.00	$0.00	$0.00	$0.00	$0.00
244	BIG SWAMP INTERCOUNTY	$1,010.93	$0.00	$0.00	$0.00	$1,010.93

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Drain Code	Drain Name	001.000 Cash	001.100 Construction Pool Investment Cash	001.851 Debt Pool Investment Cash	084.001 Receivable - Promissory Notes	199.000 Total Assets
245	BIG THORNAPPLE	$144.18	$0.00	$0.00	$0.00	$144.18
246	BLAIR	$120.90	$0.00	$0.00	$0.00	$120.90
247	BLASIER	$0.00	$0.00	$0.00	$0.00	$0.00
248	BLISS AND McCLELLAND INTERCO	$0.00	$0.00	$0.00	$0.00	$0.00
249	BOATMAN	$0.00	$0.00	$0.00	$0.00	$0.00
251	BOBIER	$0.00	$0.00	$0.00	$0.00	$0.00
252	BODELL	$0.00	$0.00	$0.00	$0.00	$0.00
253	BOLLMAN & DAMON & BRANCHES	$5,195.54	$0.00	$0.00	$21,529.82	$26,725.36
254	BOND	$0.00	$0.00	$0.00	$0.00	$0.00
255	BOOTH AND HAUN	$159.36	$0.00	$0.00	$4,964.28	$5,123.64
256	BORTON	$42.91	$0.00	$0.00	$1,304.35	$1,347.26
257	BOSWORTH	$0.00	$0.00	$0.00	$0.00	$0.00
258	BOYER EATON TWP	$0.00	$0.00	$0.00	$0.00	$0.00
259	BOYER ROXAND TWP	$0.00	$0.00	$0.00	$0.00	$0.00
260	BRADLEY (KALAMO)	$0.00	$0.00	$0.00	$0.00	$0.00
261	MCCABE	$0.00	$0.00	$0.00	$0.00	$0.00
262	BANK BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
263	BLISS & McCLELLAND BRANCH INT	$0.00	$0.00	$0.00	$0.00	$0.00
264	BRADLEY	$0.00	$0.00	$0.00	$0.00	$0.00
265	MARIETTA	$87.60	$0.00	$0.00	$0.00	$87.60
266	GAYTON BRANCH ONE (Gayton & P	$0.00	$0.00	$0.00	$0.00	$0.00
267	ACKLEY	$0.00	$0.00	$0.00	$0.00	$0.00
268	BELLEVUE AND BRANCH	$9,238.99	$0.00	$0.00	$13,445.69	$22,684.68
269	BANK-BRIGGS (Eaton)	$0.00	$0.00	$0.00	$0.00	$0.00
270	TOWNLINE BROOK BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
271	BRAY	$0.00	$0.00	$0.00	$0.00	$0.00
272	BRETTON WOODS	$976.94	$0.00	$0.00	$0.00	$976.94
273	BRIGGS	$3,473.33	$0.00	$0.00	$21,865.37	$25,338.70
274	BROOKS RIVER LANDING	$0.00	$0.00	$0.00	$0.00	$0.00
275	BROADBENT WOODS	$2,026.34	$0.00	$0.00	$19,868.26	$21,894.60
276	MORRIS	$0.00	$0.00	$0.00	$0.00	$0.00
277	BRIGHTY	$126.74	$0.00	$0.00	$0.00	$126.74

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278	BRONSON, ROGERS AND KINGSLA	$0.00	$0.00	$0.00	$0.00	$0.00
279	BROOKS	$164.68	$0.00	$0.00	$2,066.94	$2,231.62
280	BROWN (Carmel/Walton)	$0.00	$0.00	$0.00	$0.00	$0.00
281	BRUBAKER AND HORACE	$0.00	$0.00	$0.00	$0.00	$0.00
282	BRUNDIGE AND WILCOX	$265.02	$0.00	$0.00	$0.00	$265.02
283	SAVAGE	$0.00	$0.00	$0.00	$0.00	$0.00
284	BRUNGER AND GLENN	$192.99	$0.00	$0.00	$0.00	$192.99
285	BRYAN AND RELIEF	$0.05	$0.00	$0.00	$0.00	$0.05
286	GETTYSBURG	$18,985.65	$0.00	$586,384.23	$125,984.45	$731,354.33
287	BRYDE	$3.85	$0.00	$0.00	$3,099.55	$3,103.40
288	BUCHANAN	$0.00	$0.00	$0.00	$0.00	$0.00
289	BULOCK	$5,886.36	$0.00	$0.00	$23,482.67	$29,369.03
290	BURKHEAD	$0.00	$0.00	$0.00	$0.00	$0.00
291	BURNS	$0.00	$0.00	$471,208.99	$0.00	$471,208.99
292	BURNS TILE	$0.00	$0.00	$0.00	$0.00	$0.00
293	JONES	$0.00	$0.00	$0.00	$0.00	$0.00
294	BURNS VILLAGE AND EXTENSION	$6,107.88	$0.00	$11,290.25	$145,483.18	$162,881.31
296	BURRELL INTERCOUNTY	$10,673.27	$0.00	$62,110.33	$0.00	$72,783.60
297	BURSLEY	$0.00	$0.00	$0.00	$0.00	$0.00
298	BUTTERFIELD	$0.00	$0.00	$0.00	$0.00	$0.00
299	BUTTERNUT CR., TILSON BR. AND	$327.47	$0.00	$0.00	$0.00	$327.47
301	MILLS AND POST BRANCH	$224.72	$0.00	$0.00	$0.00	$224.72
303	BANK-BRIGGS INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
304	PHELPS	$315.56	$0.00	$0.00	$0.00	$315.56
305	CRICKET BR. WOODVIEW ESTATE	$2,080.10	$0.00	$0.00	$0.00	$2,080.10
306	BRANCH OF THE DOLAN	$0.00	$0.00	$0.00	$0.00	$0.00
307	BURT ROAD	$3,816.29	$0.00	$0.00	$101,716.55	$105,532.84
308	BRONSON, ROGERS & KINGSLAND	$0.00	$0.00	$0.00	$0.00	$0.00
309	BARRETT (Eaton Rapids)	$120.83	$0.00	$0.00	$0.00	$120.83
310	BLOTT	$9.68	$0.00	$0.00	$0.00	$9.68
311	BLAIR ACRES	$31.16	$0.00	$0.00	$0.00	$31.16
312	GARLOCK/FOSTER BR ONE EXT	$50.13	$0.00	$0.00	$0.00	$50.13

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313	NORRIS	$0.00	$0.00	$0.00	$0.00	$0.00
314	WEST WILLOW HEIGHTS	$0.00	$0.00	$0.00	$0.00	$0.00
316	WISEMAN	$27.15	$0.00	$0.00	$0.00	$27.15
317	JORGENSEN	$2,083.75	$0.00	$0.00	$0.00	$2,083.75
318	SPEARS	$73.42	$0.00	$0.00	$1,980.84	$2,054.26
319	LEDGEWAY	$0.00	$0.00	$0.00	$0.00	$0.00
320	WESTCHARME	$418.77	$0.00	$0.00	$0.00	$418.77
322	CANAL ROAD	$0.00	$0.00	$0.00	$0.00	$0.00
323	CARMAN	$0.00	$0.00	$102,786.93	$0.00	$102,786.93
324	CARMEL AND EATON	$51.94	$0.00	$0.00	$0.00	$51.94
326	CARRIER CREEK	$5,389.10	$0.00	$2,011,604.42	$0.00	$2,016,993.52
327	CARROLL INTERCOUNTY	$2,303.21	$0.00	$0.00	$0.00	$2,303.21
328	CARTER: WEST BRANCH	$171.62	$0.00	$0.00	$1,817.92	$1,989.54
329	CEMETERY	$551.22	$0.00	$0.00	$0.00	$551.22
330	COBURN: NORTH BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
331	CHAMBLIN	$267.35	$0.00	$0.00	$0.00	$267.35
332	CHAPMAN	$0.00	$0.00	$0.00	$0.00	$0.00
333	CHARLESWORTH	$0.00	$0.00	$0.00	$0.00	$0.00
334	CHATFIELD	$85.14	$0.00	$0.00	$0.00	$85.14
336	CHILDS	$0.00	$0.00	$0.00	$0.00	$0.00
337	HUNTER and CHILDS	$3,654.09	$0.00	$0.00	$22,896.93	$26,551.02
338	CHURCH AND McCLINTIC	$4,227.54	$45,742.59	$220,783.89	$15,623.59	$286,377.61
339	CHURCHILL	$2,531.47	$0.00	$0.00	$0.00	$2,531.47
340	CLAFLIN	$69.26	$0.00	$0.00	$0.00	$69.26
341	CLARKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
342	CLARKE AND BROUGHTON	$0.00	$0.00	$0.00	$0.00	$0.00
343	CLEMENTS AND UNDERHILL	$2,501.75	$0.00	$0.00	$63,773.12	$66,274.87
344	COBURN: N&S BR., MUD LAKE & M	$0.00	$0.00	$0.00	$0.00	$0.00
345	COBURN: SOUTH BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
346	CODDING	$0.00	$0.00	$0.00	$0.00	$0.00
347	COLE (Carmel)	$0.00	$0.00	$0.00	$0.00	$0.00
348	CHURCH/ McCLINTIC PACKARD HG	$0.00	$0.00	$0.00	$0.00	$0.00

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349	COLE (Oneida)	$0.00	$0.00	$0.00	$0.00	$0.00
350	COLE (Roxand)	$0.00	$0.00	$0.00	$0.00	$0.00
351	COLE, WRIGHT AND HELMS	$0.00	$0.00	$0.00	$0.00	$0.00
352	COLLIER AND MUD CREEK INTERC	$0.00	$0.00	$0.00	$0.00	$0.00
353	COLLIER AND MUD CREEK OVERF	$0.00	$0.00	$0.00	$0.00	$0.00
354	CENTER POINT	$0.00	$0.00	$0.00	$0.00	$0.00
355	COLTON	$288.51	$0.00	$0.00	$0.00	$288.51
357	COOK	$0.00	$0.00	$0.00	$0.00	$0.00
358	COOLEY	$9,107.07	$0.00	$0.00	$0.00	$9,107.07
359	COOLEY EXTENSION	$1,159.43	$0.00	$0.00	$0.00	$1,159.43
360	COOPER, FROST AND REYNOLDS	$0.00	$1,003,472.67	$125,834.34	$0.00	$1,129,307.01
361	CORWIN	$0.00	$0.00	$0.00	$0.00	$0.00
362	COUNTY FARM	$0.00	$0.00	$0.00	$0.00	$0.00
363	COUNTY LINE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
364	COX	$0.00	$0.00	$0.00	$0.00	$0.00
365	CRANDALL	$163.17	$0.00	$0.00	$0.00	$163.17
366	CRONK AND BRANCH ONE	$0.00	$0.00	$0.00	$0.00	$0.00
367	CROSS AND HORTON	$0.00	$0.00	$0.00	$0.00	$0.00
368	CROUP	$0.00	$0.00	$0.00	$0.00	$0.00
369	CRYDERMAN LAKE INTERCOUNTY	$5,226.97	$0.00	$0.00	$0.00	$5,226.97
370	CUMMINGS	$0.00	$1,873,679.49	$49,405.15	$0.00	$1,923,084.64
371	CLARK	$226.93	$0.00	$0.00	$4,247.32	$4,474.25
372	CROY	$0.00	$0.00	$0.00	$0.00	$0.00
374	CAMBRIDGE AND BRANCHES	$0.00	$0.00	$0.00	$0.00	$0.00
376	CARRIER CREEK: BROOKSIDE BRA	$0.00	$0.00	$0.00	$0.00	$0.00
377	CARTER: EAST BRANCH	$111.23	$0.00	$0.00	$5,776.22	$5,887.45
378	CARLTON	$49.59	$0.00	$0.00	$0.00	$49.59
379	BALDWIN	$242.10	$0.00	$0.00	$0.00	$242.10
387	DANN	$0.00	$0.00	$0.00	$0.00	$0.00
389	DARKEN AND BOYER	$47.27	$0.00	$0.00	$0.00	$47.27
390	DARLING	$0.00	$0.00	$0.00	$0.00	$0.00
391	DAVIS AND EXTENSION	$0.00	$0.00	$0.00	$0.00	$0.00

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392	DAVIS DRAIN	$341.29	$0.00	$0.00	$0.00	$341.29
393	DeLUCA	$54.96	$0.00	$0.00	$1,219.88	$1,274.84
394	DIMONDALE	$0.00	$0.00	$0.00	$0.00	$0.00
395	DAY	$0.00	$0.00	$0.00	$0.00	$0.00
396	DECKE	$0.00	$0.00	$0.00	$0.00	$0.00
397	DEER	$0.00	$0.00	$0.00	$0.00	$0.00
398	DELLWOOD	$0.00	$0.00	$0.00	$0.00	$0.00
399	DELTA GLENS #1, 2 AND 4	$164.71	$0.00	$0.00	$1,661.25	$1,825.96
400	DELTA MILLS	$0.00	$0.00	$0.00	$0.00	$0.00
402	DELTA SECTION 17	$17,432.91	$0.00	$92,264.63	$177,004.73	$286,702.27
403	DENNISTON	$357.06	$0.00	$0.00	$3,249.08	$3,606.14
404	TREADWELL	$507.35	$0.00	$0.00	$0.00	$507.35
406	DENSMORE, PERKINS & FISH CRE	$0.00	$0.00	$0.00	$0.00	$0.00
407	DERNIER	$0.00	$0.00	$0.00	$0.00	$0.00
408	DEVILS LAKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
409	DILLON	$0.00	$1,964,040.53	$150,553.43	$0.00	$2,114,593.96
411	DIMONDALE FARMS	$3,055.53	$0.00	$0.00	$10,676.68	$13,732.21
412	DISBROW	$0.00	$0.00	$0.00	$0.00	$0.00
413	DIVINE	$129.28	$0.00	$0.00	$0.00	$129.28
415	DOOLING	$0.00	$0.00	$0.00	$0.00	$0.00
417	MICHIGAN AVENUE: DORNET BRA	$838.88	$0.00	$0.00	$2,544.25	$3,383.13
418	DOW	$0.00	$0.00	$0.00	$0.00	$0.00
419	DOWNING	$529.67	$0.00	$0.00	$0.00	$529.67
420	DOXIE AND EXTENSION	$0.00	$0.00	$0.00	$0.00	$0.00
422	DOXTATER	$0.00	$0.00	$0.00	$0.00	$0.00
423	DRALLETT	$128.93	$0.00	$0.00	$0.00	$128.93
424	DUCK LAKE INTERCOUNTY	$150.00	$0.00	$0.00	$0.00	$150.00
426	DUFFY AND EXTENSION	$35,941.92	$0.00	$0.00	$103,302.87	$139,244.79
427	DYE	$19.95	$0.00	$0.00	$0.00	$19.95
428	DUTCH HILL FARMS	$0.00	$0.00	$0.00	$0.00	$0.00
430	DIMONDALE ESTATES	$0.00	$0.00	$0.00	$0.00	$0.00
440	EARLINGTON	$0.00	$0.00	$0.00	$0.00	$0.00

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441	EAST PAGE	$3,195.19	$0.00	$0.00	$0.00	$3,195.19
442	EAST SIDE NARROW LAKE & BRAN	$25.05	$0.00	$0.00	$0.00	$25.05
445	EDICK	$1,128.19	$0.00	$0.00	$0.00	$1,128.19
446	EDWARDS INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
447	EDWARDS AND SMITH	$324.56	$0.00	$0.00	$1,660.40	$1,984.96
448	ELLETSON	$0.00	$0.00	$0.00	$0.00	$0.00
449	ELLIOTT	$0.00	$0.00	$0.00	$0.00	$0.00
450	EDWINS	$0.00	$0.00	$0.00	$0.00	$0.00
452	FOX RIDGE	$0.00	$0.00	$0.00	$0.00	$0.00
453	FIELDVIEW BRANCH TWO	$1,389.41	$0.00	$0.00	$0.00	$1,389.41
454	FAIRFAX	$21.30	$0.00	$0.00	$0.00	$21.30
455	FAST	$0.00	$0.00	$0.00	$0.00	$0.00
457	FIELDVIEW	$2,756.85	$0.00	$0.00	$0.00	$2,756.85
458	FRED FEES AND EXTENSION	$178.62	$0.00	$0.00	$10,787.41	$10,966.03
459	FERGUSON	$70.37	$0.00	$0.00	$0.00	$70.37
460	FIGG (Roxand Twp)	$0.00	$0.00	$0.00	$0.00	$0.00
461	FIGG	$0.00	$0.00	$0.00	$0.00	$0.00
462	FINCH AND EXTENSION	$0.87	$0.00	$0.00	$0.00	$0.87
463	FIELDSTONE FARMS AND BRANCH	$370.66	$0.00	$0.00	$9,610.32	$9,980.98
464	FISHER (ROXAND)	$0.00	$0.00	$0.00	$0.00	$0.00
465	FISHER (BROOKFIELD/WALTON)	$0.00	$0.00	$0.00	$0.00	$0.00
466	FIVE CORNERS	$0.00	$0.00	$0.00	$0.00	$0.00
467	FLEMING	$3,851.85	$0.00	$0.00	$70,485.99	$74,337.84
468	FOOTE	$54.94	$0.00	$0.00	$0.00	$54.94
469	FOREST GLEN	$9,702.24	$0.00	$263,305.17	$142,078.26	$415,085.67
470	FOWLER RELAID	$137.50	$0.00	$0.00	$0.00	$137.50
472	FRANTZ	$0.00	$0.00	$0.00	$0.00	$0.00
473	FREEMIRE	$0.00	$0.00	$0.00	$0.00	$0.00
474	FULTON	$706.98	$0.00	$48,077.68	$102,547.80	$151,332.46
475	FULTS	$0.00	$0.00	$0.00	$0.00	$0.00
476	FAWN CREEK	$133.77	$0.00	$0.00	$0.00	$133.77
484	GAGE	$0.00	$0.00	$0.00	$0.00	$0.00

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485	GAGE RELAID AND CORSETTE	$0.00	$0.00	$0.00	$0.00	$0.00
486	GALE	$0.00	$0.00	$0.00	$0.00	$0.00
487	GARBER	$0.00	$0.00	$0.00	$0.00	$0.00
488	GARFIELD AVENUE	$532.95	$0.00	$0.00	$0.00	$532.95
489	GARLOCK & FOSTER AND BRANCH	$3,414.05	$0.00	$0.00	$2,983.39	$6,397.44
490	GARVEY	$10,117.61	$0.00	$137,623.12	$78,949.25	$226,689.98
491	GAYTON AND POWERS EXTENSIO	$1,037.65	$0.00	$0.00	$10,235.44	$11,273.09
492	GETTER	$0.00	$0.00	$0.00	$0.00	$0.00
493	CROOKED BROOK INTERCOUNTY	$0.00	$40,080.86	$185,998.68	$0.00	$226,079.54
494	GILBERT & WEST TOWN INTERCO	$445.49	$0.00	$0.00	$0.00	$445.49
495	GLEN NO. TWO	$0.00	$338,965.79	$58,628.94	$0.00	$397,594.73
496	GRAGG	$48.32	$0.00	$0.00	$0.00	$48.32
497	GRAHAM	$0.00	$0.00	$0.00	$0.00	$0.00
498	GRAHAM AND SOUTH WINDSOR	$798.66	$0.00	$0.00	$0.00	$798.66
499	GRAND LEDGE	$269.64	$0.00	$0.00	$0.00	$269.64
500	GRAND RIVER	$0.00	$0.00	$0.00	$0.00	$0.00
501	GRANT	$0.00	$0.00	$0.00	$0.00	$0.00
502	GILDART AND MUD LAKE	$172.27	$0.00	$0.00	$0.00	$172.27
503	GREEN	$0.00	$0.00	$0.00	$0.00	$0.00
504	GREENFIELD ACRES	$0.00	$0.00	$0.00	$0.00	$0.00
505	GRIDLEY	$548.71	$0.00	$0.00	$0.00	$548.71
506	GRIER	$0.00	$0.00	$0.00	$0.00	$0.00
507	GRIFFIN	$0.00	$0.00	$0.00	$0.00	$0.00
508	GROAK	$0.00	$0.00	$0.00	$0.00	$0.00
509	GROOMS	$134.97	$0.00	$0.00	$0.00	$134.97
510	GRUESBECK, CLARK AND BROUG	$126.66	$0.00	$0.00	$0.00	$126.66
511	GLENVIEW TERRACE	$575.26	$0.00	$0.00	$0.00	$575.26
512	GUILDFORD	$0.00	$0.00	$0.00	$0.00	$0.00
514	GUINAN AND EXTENSION	$0.00	$0.00	$37,794.16	$0.00	$37,794.16
516	GURLEY LAKE INTERCOUNTY	$1,574.41	$0.00	$0.00	$0.00	$1,574.41
517	WATSON & WATSON: GARFIELD B	$4,344.32	$0.00	$0.00	$154,019.43	$158,363.75
518	GLENN	$154.51	$0.00	$0.00	$0.00	$154.51

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Drain Code	Drain Name	001.000 Cash	001.100 Construction Pool Investment Cash	001.851 Debt Pool Investment Cash	084.001 Receivable - Promissory Notes	199.000 Total Assets
519	GROHE	$0.00	$0.00	$0.00	$0.00	$0.00
520	GRAND WOODS	$1,655.58	$0.00	$0.00	$25,632.87	$27,288.45
522	GRAND BLUFF ESTATES	$2,816.50	$0.00	$0.00	$5,558.57	$8,375.07
529	HADDIX	$31.34	$0.00	$0.00	$0.00	$31.34
530	HALE & POST INTEROCUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
532	HALL	$0.00	$0.00	$0.00	$0.00	$0.00
533	HAMILL	$77.36	$0.00	$0.00	$1,439.39	$1,516.75
534	HAMILTON	$0.00	$0.00	$0.00	$0.00	$0.00
535	HARMON	$0.00	$0.00	$0.00	$0.00	$0.00
536	HARPSTER	$0.00	$0.00	$0.00	$0.00	$0.00
537	HARRIETT AVENUE	$3,990.39	$0.00	$0.00	$0.00	$3,990.39
538	HARRINGTON	$102.31	$0.00	$0.00	$0.00	$102.31
540	HART INTEROCUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
541	HAYES	$62.79	$0.00	$0.00	$0.00	$62.79
543	HAZEL	$0.00	$0.00	$0.00	$0.00	$0.00
544	HEISRODT	$0.00	$0.00	$0.00	$0.00	$0.00
545	HARRIS	$0.00	$0.00	$0.00	$0.00	$0.00
546	HESS	$164.92	$0.00	$0.00	$0.00	$164.92
547	HETRICK	$41,156.50	$0.00	$149,611.29	$54,412.78	$245,180.57
549	HIGBY	$0.00	$0.00	$0.00	$0.00	$0.00
550	HILL	$61.52	$0.00	$0.00	$3,753.31	$3,814.83
551	HILLIKER	$0.00	$0.00	$0.00	$0.00	$0.00
552	HOBART	$0.00	$0.00	$0.00	$0.00	$0.00
553	HOGLE AND MILLER INTERCOUNT	$0.00	$0.00	$0.00	$0.00	$0.00
554	HOLBROOK	$0.00	$0.00	$0.00	$0.00	$0.00
555	HOLDEN	$250.04	$0.00	$0.00	$0.00	$250.04
556	HOLDEN BRANCH	$6.10	$0.00	$0.00	$0.00	$6.10
557	HOLLY	$32.13	$0.00	$0.00	$3,583.79	$3,615.92
558	HOLMES	$23,429.21	$0.00	$0.00	$74,341.64	$97,770.85
559	HOLTON AND BROOKS INTERCOU	$186.73	$0.00	$0.00	$0.00	$186.73
560	HORNER	$767.28	$0.00	$0.00	$0.00	$767.28
561	HORR	$284.34	$0.00	$0.00	$1,821.23	$2,105.57

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562	HOSEY	$42.57	$0.00	$0.00	$0.00	$42.57
563	HOTCHKISS	$0.00	$0.00	$0.00	$0.00	$0.00
564	HOYTVILLE	$0.00	$0.00	$0.00	$0.00	$0.00
565	HUBER EXTENSION	$0.00	$0.00	$0.00	$0.00	$0.00
566	HUBER	$0.00	$0.00	$0.00	$0.00	$0.00
567	HULL	$0.00	$0.00	$0.00	$0.00	$0.00
568	HULLETT	$88.09	$0.00	$0.00	$0.00	$88.09
569	HUNTER AND BRANCHES	$13,633.53	$0.00	$0.00	$123,044.02	$136,677.55
570	HUNTINGTON AND BRANCHES	$0.00	$0.00	$0.00	$0.00	$0.00
571	HUSTED AND LANDENBERGER INT	$0.00	$0.00	$0.00	$0.00	$0.00
572	HUSTON	$0.00	$0.00	$0.00	$0.00	$0.00
573	HUTCHINGS	$0.00	$0.00	$0.00	$0.00	$0.00
574	HYATT	$46.73	$0.00	$0.00	$0.00	$46.73
575	HOLLY RELIEF	$0.00	$0.00	$0.00	$0.00	$0.00
576	HOLT HIGHWAY	$0.00	$0.00	$0.00	$0.00	$0.00
577	HURD	$0.00	$0.00	$0.00	$0.00	$0.00
578	HUBER: EATON GREEN BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
579	HUNTINGTON ACRES	$0.00	$0.00	$0.00	$0.00	$0.00
584	INGERSOLL	$0.00	$0.00	$0.00	$0.00	$0.00
586	KENYON INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
589	JACARANDA NO. THREE	$0.00	$0.00	$0.00	$0.00	$0.00
590	JACARANDA NO. TWO	$605.47	$0.00	$0.00	$0.00	$605.47
591	INGHAM AND EATON INTERCOUNT	$0.00	$0.00	$0.00	$0.00	$0.00
592	IRVINGDALE ACRES	$226.06	$0.00	$0.00	$0.00	$226.06
593	JACARANDA	$0.00	$0.00	$0.00	$0.00	$0.00
594	JENKINS	$0.00	$0.00	$0.00	$0.00	$0.00
595	JACKSON	$0.00	$0.00	$0.00	$0.00	$0.00
596	JENNE	$126.61	$0.00	$0.00	$9,751.15	$9,877.76
597	JOHN EARL	$945.83	$0.00	$462,244.36	$300,938.12	$764,128.31
598	JOHNSON	$0.00	$0.00	$0.00	$0.00	$0.00
599	JOHN EARL: BIG TREE BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
600	JENNE: LANTERN GREEN BRANCH	$204.84	$0.00	$0.00	$0.00	$204.84

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601	KELLER	$1,321.85	$0.00	$0.00	$0.00	$1,321.85
602	KELLY	$0.00	$0.00	$0.00	$0.00	$0.00
603	KENYON	$15.65	$0.00	$0.00	$0.00	$15.65
604	KETTLER AND NORRIS	$2,180.86	$0.00	$0.00	$0.00	$2,180.86
605	KIKENDALL	$551.53	$0.00	$0.00	$0.00	$551.53
606	KING	$607.91	$0.00	$0.00	$3,051.28	$3,659.19
607	KINNIE	$6.24	$0.00	$0.00	$0.00	$6.24
608	KINNIE BROOK	$792.55	$0.00	$60,628.48	$44,938.66	$106,359.69
609	KINT	$62.86	$0.00	$0.00	$0.00	$62.86
610	KLOTZ	$0.00	$0.00	$0.00	$0.00	$0.00
611	LAURELWOOD	$588.57	$0.00	$0.00	$14,071.55	$14,660.12
612	LORA INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
613	LAMONT: SANSTONE BRANCH ON	$0.00	$0.00	$0.00	$0.00	$0.00
614	LAMIE	$421.03	$0.00	$0.00	$4,818.73	$5,239.76
615	LAMONT	$1,539.66	$0.00	$0.00	$0.00	$1,539.66
616	LAZELL	$134,237.06	$0.00	$0.00	$421,589.68	$555,826.74
617	LEE	$0.00	$0.00	$0.00	$0.00	$0.00
618	LEISHER	$0.00	$0.00	$0.00	$0.00	$0.00
619	LEMON	$0.00	$0.00	$0.00	$0.00	$0.00
620	LENIC	$0.00	$0.00	$0.00	$0.00	$0.00
622	LETT	$0.00	$0.00	$0.00	$0.00	$0.00
623	LIBBIE	$0.00	$0.00	$0.00	$0.00	$0.00
624	LINCOLN AND HEISER	$0.00	$0.00	$0.00	$0.00	$0.00
625	LITCHFIELD	$0.00	$0.00	$0.00	$0.00	$0.00
627	LOCK	$0.00	$0.00	$0.00	$0.00	$0.00
629	LOEHR	$0.00	$0.00	$0.00	$0.00	$0.00
630	LOVELESS	$20,676.19	$0.00	$17,831.00	$0.00	$38,507.19
631	LUMBERT	$0.00	$0.00	$0.00	$0.00	$0.00
632	LUNDQUIST	$0.00	$0.00	$0.00	$0.00	$0.00
633	LUNORE BRANCH	$24.86	$0.00	$0.00	$0.00	$24.86
634	LUSCOMB	$343.66	$0.00	$0.00	$1,563.05	$1,906.71
635	LACEY LAKE LEVEL	$0.00	$0.00	$0.00	$0.00	$0.00

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636	LITTLE THORNAPPLE	$37.05	$0.00	$0.00	$0.00	$37.05
637	LAMONT: SANSTONE BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
638	MICHIGAN AVENUE: BRANCH NINE	$1,002.71	$0.00	$0.00	$4,259.02	$5,261.73
639	MICHIGAN AVENUE: BRANCH SEVE	$1,385.36	$0.00	$0.00	$0.00	$1,385.36
640	MICHIGAN AVENUE: BRANCH EIGH	$0.00	$0.00	$0.00	$0.00	$0.00
641	MARTENS	$114.85	$0.00	$0.00	$0.00	$114.85
643	MAGDEN	$0.00	$0.00	$0.00	$0.00	$0.00
644	MANNING	$344.41	$0.00	$0.00	$0.00	$344.41
645	MAST	$0.00	$0.00	$0.00	$0.00	$0.00
646	MAPLEWOOD	$0.00	$0.00	$0.00	$0.00	$0.00
647	JENNIE MARSH	$0.00	$0.00	$0.00	$0.00	$0.00
648	MARTIN	$0.00	$0.00	$0.00	$0.00	$0.00
649	MARTINS	$0.00	$0.00	$0.00	$0.00	$0.00
650	MASON ROAD	$176.05	$0.00	$0.00	$0.00	$176.05
651	MASTEN	$1,417.61	$0.00	$0.00	$0.00	$1,417.61
652	MAYCROFT	$0.00	$0.00	$0.00	$0.00	$0.00
653	MAYWOOD	$309.79	$0.00	$0.00	$2,666.81	$2,976.60
654	MEAD	$0.00	$0.00	$0.00	$0.00	$0.00
655	MEDICARE STORM DRAIN	$0.00	$0.00	$0.00	$0.00	$0.00
656	MERRIAM	$317.95	$0.00	$0.00	$0.00	$317.95
657	MERRILL	$139.14	$0.00	$0.00	$0.00	$139.14
658	MERRYFIELD	$0.00	$0.00	$0.00	$0.00	$0.00
659	MICHIGAN AVENUE AND BRANCHE	$1,654.58	$0.00	$0.00	$21,609.52	$23,264.10
660	MILBOURN, ALLEN AND CRANE	$72.32	$0.00	$0.00	$0.00	$72.32
661	MILBOURN EAST AND WEST EXTE	$6.50	$0.00	$0.00	$0.00	$6.50
663	MILES	$0.00	$0.00	$0.00	$0.00	$0.00
664	MILES EARL	$0.00	$0.00	$0.00	$0.00	$0.00
665	MILLER (Delta Twp)	$15.54	$0.00	$0.00	$4,485.81	$4,501.35
666	SAIER: MILLETT HIGHWAY BRANC	$0.93	$0.00	$0.00	$0.00	$0.93
667	MILLS AND BLY	$1,743.48	$0.00	$0.00	$0.00	$1,743.48
668	MILLS AND POST	$493.28	$0.00	$0.00	$17,994.14	$18,487.42
669	MILLS AND PRICHARD	$757.95	$0.00	$0.00	$0.00	$757.95

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670	MITCHELL (BENTON)	$0.00	$0.00	$0.00	$0.00	$0.00
671	MITCHELL (Oneida)	$0.00	$0.00	$0.00	$0.00	$0.00
672	MITCHELL (Chester)	$0.00	$0.00	$0.00	$0.00	$0.00
673	MIX	$0.00	$0.00	$0.00	$0.00	$0.00
674	MONROE	$0.00	$0.00	$0.00	$0.00	$0.00
675	MOON	$0.00	$0.00	$0.00	$0.00	$0.00
676	Moon & Hamilton (CARRIER CREEK)	$0.00	$0.00	$0.00	$0.00	$0.00
677	OTTER CR & BRANCH INTERCOUN	$2,115.45	$0.00	$0.00	$0.00	$2,115.45
678	MOYER	$1,707.13	$0.00	$0.00	$0.00	$1,707.13
679	MUD CREEK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
680	MUD LAKE	$453.75	$0.00	$0.00	$0.00	$453.75
681	MUD LAKE BRANCH TWO	$0.00	$0.00	$0.00	$0.00	$0.00
682	MUD LAKE EXTENSION	$0.00	$0.00	$0.00	$0.00	$0.00
683	MUNSON	$14,664.34	$0.00	$147,626.65	$47,404.40	$209,695.39
684	MUNTON AND BRANCHES	$550.51	$0.00	$0.00	$57,875.19	$58,425.70
685	MURPHY	$129.54	$0.00	$0.00	$0.00	$129.54
686	MURRAY	$0.00	$0.00	$0.00	$0.00	$0.00
687	MURRAY AND ROBERTS INTERCO	$0.00	$0.00	$0.00	$0.00	$0.00
688	MYERS AND HENDERSON	$33,625.90	$0.00	$0.00	$636,225.21	$669,851.11
689	McCALPIN	$101.90	$0.00	$0.00	$2,292.69	$2,394.59
690	McCLINTIC	$0.00	$0.00	$0.00	$0.00	$0.00
691	McCREERY	$18,045.61	$6,234.21	$2,759.97	$34,123.30	$61,163.09
692	McCUTCHEON	$0.00	$0.00	$0.00	$0.00	$0.00
693	McDONALD	$0.00	$0.00	$0.00	$0.00	$0.00
694	McGILVRA	$0.00	$769,331.80	$40,859.19	$0.00	$810,190.99
695	McLAUGHLIN AND EXTENSION	$1,122.91	$0.00	$0.00	$0.00	$1,122.91
696	McMULLEN and BRANCHES	$3.74	$0.00	$0.00	$0.00	$3.74
697	MCMULLEN & BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
699	McPHEE	$241.00	$0.00	$0.00	$0.00	$241.00
700	MILLER - (Kalamo Twp)	$107.55	$0.00	$0.00	$2,443.60	$2,551.15
704	MOTT	$0.00	$0.00	$0.00	$0.00	$0.00
705	MORGAN CREEK	$1,170.64	$0.00	$0.00	$23,638.50	$24,809.14

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716	NORTHPORT	$0.00	$0.00	$0.00	$0.00	$0.00
717	NIXON HILLS	$3,642.31	$0.00	$0.00	$0.00	$3,642.31
718	NARROW LAKE DAM (Lake Level)	$1,690.42	$0.00	$0.00	$0.00	$1,690.42
719	NEEDMORE AND BRANCH	$66.53	$0.00	$0.00	$0.00	$66.53
720	NELLER	$0.00	$0.00	$0.00	$0.00	$0.00
721	NELSON	$0.00	$0.00	$0.00	$0.00	$0.00
722	NEWCOMBE	$0.00	$0.00	$0.00	$0.00	$0.00
723	NEWELL	$0.00	$0.00	$0.00	$0.00	$0.00
724	NICKLE	$1,921.48	$0.00	$0.00	$0.00	$1,921.48
725	PORTER: NORTH BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
726	NYE AND EATON	$43.81	$0.00	$0.00	$0.00	$43.81
727	NORTHRUP	$0.00	$0.00	$0.00	$0.00	$0.00
728	NARROW LAKE	$0.00	$0.00	$0.00	$0.00	$0.00
729	OAK PARK	$2,906.42	$0.00	$0.00	$22,184.63	$25,091.05
730	OAK PARK: WINIFRED BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
731	OCHSENBEIN	$402.35	$0.00	$0.00	$0.00	$402.35
732	O'DELL	$0.00	$0.00	$0.00	$0.00	$0.00
733	OLD MAID RELAID, HARRIS AND W	$7,706.83	$0.00	$441,772.65	$144,357.80	$593,837.28
734	OLIVET MILBOURN	$0.00	$0.00	$0.00	$0.00	$0.00
735	OLIVET SOUTH SIDE	$0.00	$0.00	$0.00	$0.00	$0.00
736	OLMSTEAD	$45.35	$0.00	$0.00	$0.00	$45.35
737	O'NEAL	$13.24	$0.00	$0.00	$0.00	$13.24
738	ONEIDA SECTION 29	$0.00	$0.00	$0.00	$0.00	$0.00
740	OTTNEY	$238.03	$0.00	$0.00	$0.00	$238.03
741	OWEN - BELLEVUE TWP	$73.74	$0.00	$0.00	$0.00	$73.74
742	OWEN - EATON RAPIDS TWP	$80.18	$0.00	$0.00	$0.00	$80.18
743	OLIVET SOUTH SIDE BRANCH FIVE	$57.73	$0.00	$0.00	$1,862.30	$1,920.03
744	OAK RIDGE	$2,628.38	$0.00	$0.00	$0.00	$2,628.38
745	OLD RIVER TRAIL	$110.06	$0.00	$0.00	$0.00	$110.06
746	PADDLE TOWN SEWER	$0.00	$0.00	$0.00	$0.00	$0.00
747	PAGE, BIG CREEK & SLEEPER INT	$29,035.06	$0.00	$0.00	$0.00	$29,035.06
748	PALMER	$0.00	$0.00	$0.00	$0.00	$0.00

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Drain Code	Drain Name	001.000 Cash	001.100 Construction Pool Investment Cash	001.851 Debt Pool Investment Cash	084.001 Receivable - Promissory Notes	199.000 Total Assets
749	PALMITER AND PHELPS	$2,231.60	$0.00	$0.00	$0.00	$2,231.60
750	PARKER INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
751	PARKER TILE	$64.22	$0.00	$0.00	$0.00	$64.22
752	PATTERSON & DUBOIS	$7,739.43	$0.00	$103,607.19	$236,300.28	$347,646.90
753	PEABODY	$44.10	$0.00	$0.00	$0.00	$44.10
755	PEACOCK INTERCOUNTY	$7,314.21	$0.00	$0.00	$0.00	$7,314.21
756	PEACOCK, CARTER AND REESE	$252.17	$0.00	$0.00	$0.00	$252.17
758	PHILLIPS NO. TWO	$0.00	$0.00	$0.00	$0.00	$0.00
759	PHILLIPS TOWNSHIP	$0.00	$0.00	$0.00	$0.00	$0.00
760	PICKWORTH	$0.00	$0.00	$0.00	$0.00	$0.00
761	PIKE	$0.00	$0.00	$0.00	$0.00	$0.00
762	PINGEL INTERCOUNTY	$3,415.09	$0.00	$0.00	$0.00	$3,415.09
763	PINGEL BRANCH	$32.65	$0.00	$0.00	$0.00	$32.65
764	PINNOCK	$228.14	$0.00	$0.00	$0.00	$228.14
765	PONTO AND LININGER INTERCOU	$1,064.34	$0.00	$0.00	$0.00	$1,064.34
767	PORTER AND EXTENSION	$32,451.50	$0.00	$0.00	$0.00	$32,451.50
768	POST NO. TWO	$308.79	$0.00	$0.00	$0.00	$308.79
769	POTTER (BENTON)	$0.00	$0.00	$0.00	$0.00	$0.00
770	POTTER (ROXAND)	$147.88	$0.00	$0.00	$0.00	$147.88
771	POINTE WEST	$764.17	$0.00	$0.00	$5,840.76	$6,604.93
772	POTTER AND MULLIKEN (EATON O	$0.00	$0.00	$0.00	$0.00	$0.00
773	POTTER AND MULLIKEN OUTLET I	$0.00	$0.00	$0.00	$0.00	$0.00
775	POWERS	$770.72	$0.00	$0.00	$2,655.33	$3,426.05
776	PRATT	$0.00	$0.00	$0.00	$0.00	$0.00
777	PRATT	$0.00	$0.00	$0.00	$0.00	$0.00
778	PRATT BRANCH and CHEAL	$4,350.63	$0.00	$0.00	$69,767.54	$74,118.17
779	PRESCOTT	$5.18	$0.00	$0.00	$0.00	$5.18
780	PRICE	$0.00	$0.00	$0.00	$0.00	$0.00
781	PUFFENBERGER INTERCOUNTY	$2.56	$0.00	$0.00	$0.00	$2.56
783	PLAYERS CLUB	$0.00	$0.00	$0.00	$0.00	$0.00
784	PLAYERS CLUB BRANCH	$323.51	$0.00	$0.00	$1,299.97	$1,623.48
785	PHILLIPS	$0.00	$0.00	$0.00	$0.00	$0.00

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Drain Code	Drain Name	001.000 Cash	001.100 Construction Pool Investment Cash	001.851 Debt Pool Investment Cash	084.001 Receivable - Promissory Notes	199.000 Total Assets
787	POWERS AND LINK	$173.27	$0.00	$0.00	$1,550.11	$1,723.38
791	QUAKER BROOK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
792	QUANTRELL	$487.67	$0.00	$0.00	$7,600.39	$8,088.06
795	RAMSEY	$5,204.12	$0.00	$0.00	$47,898.00	$53,102.12
796	RANDALL	$0.00	$0.00	$0.00	$0.00	$0.00
797	RANSOM	$0.00	$0.00	$0.00	$0.00	$0.00
798	RAY	$0.00	$0.00	$0.00	$0.00	$0.00
799	RAYMER	$4.87	$0.00	$0.00	$0.00	$4.87
800	REED	$2,143.20	$0.00	$0.00	$104,260.69	$106,403.89
802	REGENCY BRANCH DRAIN - GREE	$320.79	$0.00	$0.00	$2,052.75	$2,373.54
803	REEDER AND OVERFLOW	$37.77	$0.00	$0.00	$0.00	$37.77
804	REESE	$3.30	$0.00	$0.00	$0.00	$3.30
805	RENKER ROAD	$3,350.22	$0.00	$0.00	$2,263.36	$5,613.58
806	RIDDLE	$562.51	$0.00	$0.00	$3,069.67	$3,632.18
807	RICHARD	$0.00	$0.00	$0.00	$0.00	$0.00
808	RILEY & DELL INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
809	RIMMEL AND OVERFLOW	$0.00	$0.00	$0.00	$0.00	$0.00
811	RIVER RIDGE AND BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
812	ROACH	$0.00	$0.00	$0.00	$0.00	$0.00
814	ROBINSON	$0.00	$0.00	$0.00	$0.00	$0.00
815	RIVER COVE	$0.00	$0.00	$0.00	$0.00	$0.00
816	ROBINSON RELAID	$0.00	$0.00	$0.00	$0.00	$0.00
817	ROOT	$0.00	$0.00	$0.00	$0.00	$0.00
818	RORABECK	$677.25	$0.00	$0.00	$4,816.65	$5,493.90
819	ROUSE AND THOMAS	$2,579.91	$0.00	$0.00	$49,909.72	$52,489.63
820	ROXAND SECTION 10	$0.00	$0.00	$0.00	$0.00	$0.00
821	RUSSELL	$1,436.30	$0.00	$0.00	$0.00	$1,436.30
822	REUBEN	$0.00	$0.00	$0.00	$0.00	$0.00
823	MILLS RELAID AND EXTENSION	$1,989.66	$0.00	$0.00	$0.00	$1,989.66
826	REED INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
830	SHERWOOD FOREST	$0.00	$0.00	$94,563.37	$0.00	$94,563.37
832	SAIER	$0.00	$0.00	$0.00	$0.00	$0.00

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833	SANTEE	$47.95	$0.00	$0.00	$0.00	$47.95
834	SARATOGA	$207.09	$0.00	$0.00	$0.00	$207.09
835	SEELYE	$0.00	$0.00	$0.00	$0.00	$0.00
836	SEBEWA INTERCOUNTY	$7,846.25	$0.00	$0.00	$0.00	$7,846.25
837	SECOND LAKE (HAGER CREEK)	$0.84	$0.00	$0.00	$0.00	$0.84
838	WINDSOR SECTION 4 AND BRANC	$0.00	$0.00	$0.00	$0.00	$0.00
839	WALTON SECTION 12 AND 13	$77.73	$0.00	$0.00	$0.00	$77.73
840	HAMLIN SECTION 16	$0.00	$0.00	$0.00	$0.00	$0.00
841	EATON SECTION 29, 30 & 31	$113.64	$0.00	$0.00	$0.00	$113.64
842	SIDWELL & RELAID MILLS	$0.00	$0.00	$0.00	$0.00	$0.00
843	SEITLER	$0.00	$0.00	$0.00	$0.00	$0.00
844	SHANTY BROOK	$0.00	$0.00	$0.00	$0.00	$0.00
845	SHARP	$5,888.00	$0.00	$0.00	$9,201.81	$15,089.81
846	SHAW	$47.05	$0.00	$0.00	$0.00	$47.05
847	SHAYTOWN	$16.47	$0.00	$0.00	$0.00	$16.47
848	SHEETS AND BRANCHES	$0.00	$0.00	$0.00	$0.00	$0.00
849	SHELLHORN & REAHM INTERCOU	$23.41	$0.00	$0.00	$0.00	$23.41
850	SHERMAN	$0.00	$0.00	$0.00	$0.00	$0.00
851	SHERWOOD	$0.00	$0.00	$0.00	$0.00	$0.00
853	SHADOW GLEN	$2,297.94	$0.00	$0.00	$12,744.94	$15,042.88
854	SHRONTZ	$0.00	$0.00	$0.00	$0.00	$0.00
855	SIDWELL AND MILLS	$25.09	$0.00	$0.00	$0.00	$25.09
856	SILVER CREEK	$3,876.25	$0.00	$0.00	$0.00	$3,876.25
857	SKINNER	$1,035.82	$0.00	$0.00	$1,256.41	$2,292.23
858	SKINNER EXTENSION	$9.40	$0.00	$0.00	$0.00	$9.40
859	SLOCUM	$0.00	$0.00	$0.00	$0.00	$0.00
860	SMITH	$183.78	$0.00	$0.00	$0.00	$183.78
861	SMITH AND EVANS INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
862	SNYDER AND WALKER INTERCOU	$0.00	$0.00	$0.00	$0.00	$0.00
863	SOUTHERLAND	$0.00	$0.00	$0.00	$0.00	$0.00
865	SPICER CREEK	$0.00	$0.00	$0.00	$0.00	$0.00
866	SPITZER	$0.00	$0.00	$0.00	$0.00	$0.00

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867	SPORE	$0.00	$0.00	$0.00	$0.00	$0.00
868	SPRINGBROOK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
869	STAR TILE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
870	STATE AND INDIAN CREEK INTERC	$0.00	$0.00	$0.00	$0.00	$0.00
871	SHEPARD	$0.00	$0.00	$0.00	$0.00	$0.00
872	STEELE	$0.00	$0.00	$0.00	$0.00	$0.00
874	STOFFLET	$52.85	$0.00	$0.00	$0.00	$52.85
875	STROBEL	$0.04	$0.00	$0.00	$0.00	$0.04
876	SUNFIELD SECTION 9	$0.00	$0.00	$0.00	$0.00	$0.00
877	SUNFIELD SECTION 27	$100.02	$0.00	$0.00	$0.00	$100.02
878	SUNSHINE GARDENS	$1,374.37	$0.00	$0.00	$38,178.64	$39,553.01
879	SWICK	$0.00	$0.00	$0.00	$0.00	$0.00
880	SWIFT	$382.20	$0.00	$0.00	$3,681.09	$4,063.29
881	SWAN	$0.00	$0.00	$0.00	$0.00	$0.00
882	SCOTT	$0.00	$0.00	$0.00	$0.00	$0.00
883	SHREVE	$0.00	$0.00	$0.00	$0.00	$0.00
884	SILVER RIDGE	$0.00	$0.00	$0.00	$0.00	$0.00
885	STEMPHLER	$0.00	$0.00	$0.00	$0.00	$0.00
886	SHENANDOAH	$0.00	$0.00	$0.00	$0.00	$0.00
887	SWEETWATER PINES	$0.00	$0.00	$0.00	$0.00	$0.00
897	TECKWOOD	$1,512.77	$0.00	$0.00	$0.00	$1,512.77
898	TANNER	$0.00	$0.00	$0.00	$0.00	$0.00
899	TAYLOR (Brookfield)	$0.00	$0.00	$0.00	$0.00	$0.00
900	TAYLOR (Roxand)	$87.47	$0.00	$0.00	$0.00	$87.47
901	THEO AVENUE	$0.00	$0.00	$0.00	$0.00	$0.00
902	THOMAS (Benton/Oneida)	$0.00	$0.00	$0.00	$0.00	$0.00
903	THOMAS (Roxand/Sunfield)	$289.80	$0.00	$0.00	$0.00	$289.80
905	THOMPSON	$0.00	$0.00	$0.00	$0.00	$0.00
909	THORP	$0.00	$0.00	$0.00	$0.00	$0.00
910	THUMA	$0.00	$0.00	$0.00	$0.00	$0.00
911	TICE	$0.00	$0.00	$0.00	$0.00	$0.00
912	TOMLINSON	$0.00	$0.00	$0.00	$0.00	$0.00

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913	TOWAR AND BRANCHES	$0.00	$0.00	$0.00	$0.00	$0.00
914	TOWNLINE BROOK	$130.66	$0.00	$0.00	$2,561.86	$2,692.52
915	TOWNSHIP CLAFLIN	$0.00	$0.00	$0.00	$0.00	$0.00
917	TRUMBULL	$0.00	$2,943,854.86	$31,275.08	$0.00	$2,975,129.94
918	TULIP	$0.00	$0.00	$0.00	$0.00	$0.00
920	THORNAPPLE AND EXTENSION	$9,483.05	$0.00	$67,855.99	$191,111.04	$268,450.08
921	TOWAR: VERNDALE BRANCH	$250.33	$0.00	$0.00	$0.00	$250.33
923	TWIN LAKES	$1,069.11	$0.00	$0.00	$1,163.64	$2,232.75
924	UPTON	$18.63	$0.00	$0.00	$0.00	$18.63
925	UPRIGHT	$40.29	$0.00	$0.00	$0.00	$40.29
928	WILLOW HILLS BRANCH (Waldo)	$546.76	$0.00	$0.00	$1,373.37	$1,920.13
929	VAN ALLEN	$0.00	$0.00	$0.00	$0.00	$0.00
931	VERMONTVILLE SECTION 2	$0.00	$0.00	$0.00	$0.00	$0.00
932	VICKERY AND HOAG	$1,619.39	$0.00	$0.00	$1,958.77	$3,578.16
933	WARD	$4,121.77	$0.00	$0.00	$39,894.95	$44,016.72
934	WILLOW HIGHWAY	$0.00	$0.00	$0.00	$0.00	$0.00
935	WALDO AND BRANCHES	$4,348.83	$0.00	$0.00	$119,060.95	$123,409.78
936	WALDO NO. 2	$118.25	$0.00	$0.00	$0.00	$118.25
937	WALKER	$0.00	$0.00	$0.00	$0.00	$0.00
938	WALSH	$0.00	$0.00	$0.00	$0.00	$0.00
939	WANGER	$7.51	$0.00	$0.00	$0.00	$7.51
941	WARREN	$13.69	$0.00	$0.00	$0.00	$13.69
942	WATSON NO. ONE	$0.00	$0.00	$0.00	$0.00	$0.00
943	W/WATSON & BR (archive- do not us	$0.00	$0.00	$0.00	$0.00	$0.00
944	WATSON NO. TWO	$0.00	$743,753.15	$37,262.40	$0.00	$781,015.55
945	WEAVER	$23.15	$0.00	$0.00	$0.00	$23.15
946	WELCHER	$0.00	$0.00	$0.00	$0.00	$0.00
947	WELLS	$9.01	$0.00	$0.00	$0.00	$9.01
948	WILLIAMSBURG	$0.00	$0.00	$0.00	$0.00	$0.00
950	WHALEY	$18.88	$0.00	$0.00	$0.00	$18.88
951	WHEATON (Chester)	$0.00	$0.00	$0.00	$0.00	$0.00
952	WHEELER	$0.00	$0.00	$0.00	$0.00	$0.00

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953	WHITE (Eaton Rapids)	$0.00	$0.00	$0.00	$0.00	$0.00
954	WHITE & CARPENTER INTERCOUN	$0.00	$0.00	$0.00	$0.00	$0.00
955	WHITNEY	$3,727.83	$0.00	$0.00	$31,663.99	$35,391.82
956	WHITTUM	$0.00	$0.00	$0.00	$0.00	$0.00
957	WILCOX (Brookfield)	$19,852.00	$0.00	$0.00	$0.00	$19,852.00
958	WILE NORTH	$62.40	$0.00	$0.00	$0.00	$62.40
959	WILLIAMS (DELTA)	$406.73	$0.00	$0.00	$0.00	$406.73
960	WILLOW COVE	$920.03	$0.00	$0.00	$21,151.35	$22,071.38
961	WELLINGTON FIELDS	$0.00	$0.00	$0.00	$0.00	$0.00
962	WILLIAMS (WINDSOR)	$0.00	$0.00	$0.00	$0.00	$0.00
963	WILLIS J. TORPY INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
964	WILLIS-SHAW	$0.00	$0.00	$0.00	$0.00	$0.00
965	WILLOW BROOK	$0.95	$0.00	$0.00	$0.00	$0.95
966	WILSON (Hamlin)	$0.00	$0.00	$0.00	$0.00	$0.00
967	WILSON (Kalamo)	$0.00	$0.00	$0.00	$0.00	$0.00
968	WILTON INTERCOUNTY	$0.00	$0.00	$0.00	$0.00	$0.00
969	WHITE (Windsor)	$3.27	$0.00	$0.00	$0.00	$3.27
970	WINCHELL AND UNION	$0.00	$0.00	$0.00	$0.00	$0.00
971	WINDSOR SECTION 27 AND 34	$0.00	$0.00	$0.00	$0.00	$0.00
972	WINSLOW	$0.00	$0.00	$0.00	$0.00	$0.00
973	WONSER	$0.00	$0.00	$0.00	$0.00	$0.00
974	WOOD	$0.00	$0.00	$0.00	$0.00	$0.00
975	WOODBURY VILLAGE INTERCOUN	$0.00	$0.00	$0.00	$0.00	$0.00
976	WRIGHT, PARDEE AND MAXSON	$0.00	$0.00	$0.00	$0.00	$0.00
977	WINDSOR GLENS	$0.00	$0.00	$0.00	$0.00	$0.00
978	WATSON & WATSON and BRANCHE	$5,389.10	$0.00	$443,579.67	$54,205.37	$503,174.14
980	WILCOX (Eaton)	$0.00	$0.00	$0.00	$0.00	$0.00
981	WINDSOR	$2,257.47	$0.00	$186,127.18	$37,389.81	$225,774.46
982	WESTON	$0.00	$0.00	$0.00	$0.00	$0.00
983	WILLIS-SHAW: CONCORD BRANCH	$0.00	$0.00	$0.00	$0.00	$0.00
984	WHEATON (Roxand)	$47.76	$0.00	$0.00	$0.00	$47.76
985	WESTLAND PARK	$474.60	$0.00	$0.00	$0.00	$474.60

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986	WATSON & WATSON: WINDCHARM	$0.00	$0.00	$0.00	$0.00	$0.00
987	WATSON & WATSON: CHRIS J. DRI	$0.00	$80,210.77	$40,390.20	$0.00	$120,600.97
988	WALMAR & Branch 4	$1,049.88	$0.00	$0.00	$0.00	$1,049.88
989	YOUNGBLOOD	$0.00	$0.00	$0.00	$0.00	$0.00
991	YOUNGS (Eaton Rapids Twp)	$103.84	$0.00	$0.00	$1,740.58	$1,844.42
992	WILLOW WOODS	$657.69	$0.00	$0.00	$10,021.97	$10,679.66
993	WILLOW CREEK	$0.00	$0.00	$0.00	$0.00	$0.00
997	WOODVIEW ESTATES	$0.00	$188,522.23	$20,061.83	$0.00	$208,584.06
999	CAIRN	$56.91	$0.00	$0.00	$0.00	$56.91
9999	POSTING ERRORS	$0.00	$0.00	$0.00	$0.00	$0.00
Total	Drain Count: 682	$799,384.47	$12,200,935.46	$7,062,977.09	$4,781,235.01	$24,845,145.53

TABLE 4

ACCOUNT LIABILITIES

Current Balance Report

balances as of: Thursday, December 28, 2023

DRAIN LIABILITIES

Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
1001	ALSPAUGH	$0.00	$0.00	$0.00	$0.00
1002	DANE'S LAKE	$2,544.25	$0.00	$0.00	$2,544.25
1003	WALWORTH	$0.00	$0.00	$805.98	$805.98
1004	SHINER	$0.00	$0.00	$0.00	$0.00
1005	HADDIX (ROXAND)	$0.00	$0.00	$216.00	$216.00
1006	MEAD (KALAMO)	$0.00	$0.00	$0.00	$0.00
1007	SECOND LAKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
1008	RULE	$0.00	$0.00	$306.55	$306.55
1009	LOWER SPRINGBROOK	$79,156.49	$0.00	$0.00	$79,156.49
1010	TRISKETT	$4,880.74	$0.00	$0.00	$4,880.74
1011	BELAIRE HILLS	$145,987.71	$0.00	$0.00	$145,987.71
1012	BOWEN	$0.00	$0.00	$0.00	$0.00
1013	BROWN (KALAMO)	$0.00	$0.00	$292.82	$292.82
1014	DALE	$0.00	$0.00	$0.00	$0.00
1016	FOWLER (KALAMO)	$0.00	$0.00	$0.00	$0.00
1017	NELSON & GOULD	$0.00	$0.00	$0.00	$0.00
1018	POLLARD	$0.00	$0.00	$0.00	$0.00
1019	SECTION 7 (EATON)	$0.00	$0.00	$0.00	$0.00
1020	ROUSE (KALAMO)	$0.00	$0.00	$63.82	$63.82
1021	TARBELL	$0.00	$0.00	$0.00	$0.00
1022	WILE SOUTH	$0.00	$0.00	$0.00	$0.00
1023	HARVEST PARK	$0.00	$0.00	$388.36	$388.36
200	Revolving Fund Control	$0.00	$0.00	$0.00	$0.00
201	ABEL	$0.00	$0.00	$0.00	$0.00
202	ACKLEY	$0.00	$0.00	$0.00	$0.00
203	ALDRICH	$0.00	$0.00	$0.00	$0.00
204	AUTUMN WOODS	$0.00	$0.00	$541.30	$541.30
205	AMES RELIEF	$0.00	$0.00	$0.00	$0.00
206	ALLEN RICE AND BRANCH	$0.00	$0.00	$0.00	$0.00
207	AMES	$0.00	$0.00	$0.00	$0.00
208	ANDREWS	$0.00	$0.00	$0.00	$0.00
209	ARMSTRONG HILLS	$0.00	$0.00	$0.00	$0.00
210	ARNOLD	$11,425.17	$0.00	$0.00	$11,425.17
211	ASH	$0.00	$0.00	$167.70	$167.70
212	AUSTIN	$0.00	$0.00	$0.00	$0.00
213	ARDEN-MAYCROFT	$0.00	$0.00	$0.00	$0.00
214	ALLISON HEIGHTS	$17,248.81	$0.00	$0.00	$17,248.81
215	ASHFORD MANOR	$0.00	$0.00	$0.00	$0.00
216	ZENTMYER	$0.00	$0.00	$0.00	$0.00
217	BAILEY	$0.00	$0.00	$0.00	$0.00
218	BAKER	$21,529.82	$0.00	$0.00	$21,529.82
219	BALL	$0.00	$0.00	$0.00	$0.00
220	BANK (Eaton)	$0.00	$0.00	$0.00	$0.00
221	BARHYTE	$1,197.99	$0.00	$0.00	$1,197.99
223	BARNHART	$0.00	$0.00	$0.00	$0.00

Current Balance Report

balances as of: Thursday, December 28, 2023

Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
224	BARRETT (Vermontville)	$0.00	$0.00	$0.00	$0.00
225	BARRETT: MAIN BRANCH	$0.00	$0.00	$0.00	$0.00
226	BARRY AND EATON INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
227	BASELINE DEVIL'S LAKE INTERCO	$0.00	$0.00	$0.00	$0.00
228	BABCOCK	$0.00	$0.00	$392.50	$392.50
229	BASTEDO	$5,455.82	$0.00	$0.00	$5,455.82
230	BATTLE CREEK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
232	BATTLE CREEK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
233	BEASORE & MAIER INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
234	BEAVER	$31,551.47	$0.00	$26.66	$31,578.13
235	BELL AND ALLEN	$7,729.42	$0.00	$0.00	$7,729.42
236	BELLOWS	$10,021.97	$0.00	$0.00	$10,021.97
237	BENJAMIN AND BRANCH	$16,819.03	$0.00	$0.00	$16,819.03
238	BANK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
240	BENTLEY & DEPUE	$0.00	$0.00	$0.00	$0.00
241	BENTLEY: SOUTH BRANCH	$0.00	$0.00	$212.36	$212.36
242	BENTON	$4,282.46	$0.00	$0.00	$4,282.46
243	BIGELOW	$0.00	$0.00	$81.88	$81.88
244	BIG SWAMP INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
245	BIG THORNAPPLE	$143,808.44	$0.00	$0.00	$143,808.44
246	BLAIR	$0.00	$0.00	$0.00	$0.00
247	BLASIER	$5,776.22	$0.00	$0.00	$5,776.22
248	BLISS AND McCLELLAND INTERCO	$0.00	$0.00	$0.00	$0.00
249	BOATMAN	$13,202.27	$0.00	$0.00	$13,202.27
251	BOBIER	$0.00	$0.00	$28.75	$28.75
252	BODELL	$0.00	$0.00	$611.22	$611.22
253	BOLLMAN & DAMON & BRANCHES	$0.00	$0.00	$0.00	$0.00
254	BOND	$49,909.72	$0.00	$42.55	$49,952.27
255	BOOTH AND HAUN	$0.00	$0.00	$0.00	$0.00
256	BORTON	$0.00	$0.00	$0.00	$0.00
257	BOSWORTH	$0.00	$0.00	$483.79	$483.79
258	BOYER EATON TWP	$2,771.29	$0.00	$0.00	$2,771.29
259	BOYER ROXAND TWP	$0.00	$0.00	$65.98	$65.98
260	BRADLEY (KALAMO)	$0.00	$0.00	$777.17	$777.17
261	MCCABE	$7,942.54	$0.00	$0.00	$7,942.54
262	BANK BRANCH	$0.00	$0.00	$0.00	$0.00
263	BLISS & McCLELLAND BRANCH INT	$0.00	$0.00	$0.00	$0.00
264	BRADLEY	$4,507.40	$0.00	$0.00	$4,507.40
265	MARIETTA	$0.00	$0.00	$0.00	$0.00
266	GAYTON BRANCH ONE (Gayton & P	$40,472.39	$0.00	$0.00	$40,472.39
267	ACKLEY	$0.00	$0.00	$9.51	$9.51
268	BELLEVUE AND BRANCH	$0.00	$0.00	$0.00	$0.00
269	BANK-BRIGGS (Eaton)	$0.00	$0.00	$0.00	$0.00
270	TOWNLINE BROOK BRANCH	$5,558.57	$0.00	$0.00	$5,558.57
271	BRAY	$0.00	$0.00	$0.00	$0.00

Current Balance Report

balances as of: Thursday, December 28, 2023

Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
272	BRETTON WOODS	$0.00	$0.00	$0.00	$0.00
273	BRIGGS	$0.00	$0.00	$0.00	$0.00
274	BROOKS RIVER LANDING	$4,259.02	$0.00	$0.00	$4,259.02
275	BROADBENT WOODS	$0.00	$0.00	$0.00	$0.00
276	MORRIS	$1,990.07	$0.00	$0.00	$1,990.07
277	BRIGHTY	$11,502.38	$0.00	$0.00	$11,502.38
278	BRONSON, ROGERS AND KINGSLA	$0.00	$0.00	$11.74	$11.74
279	BROOKS	$0.00	$0.00	$0.00	$0.00
280	BROWN (Carmel/Walton)	$177,004.73	$0.00	$0.00	$177,004.73
281	BRUBAKER AND HORACE	$0.00	$0.00	$518.20	$518.20
282	BRUNDIGE AND WILCOX	$0.00	$0.00	$0.00	$0.00
283	SAVAGE	$2,941.74	$0.00	$0.00	$2,941.74
284	BRUNGER AND GLENN	$0.00	$0.00	$0.00	$0.00
285	BRYAN AND RELIEF	$3,099.55	$0.00	$0.00	$3,099.55
286	GETTYSBURG	$0.00	$0.00	$0.00	$0.00
287	BRYDE	$0.00	$0.00	$0.00	$0.00
288	BUCHANAN	$10,676.68	$0.00	$0.00	$10,676.68
289	BULOCK	$0.00	$0.00	$0.00	$0.00
290	BURKHEAD	$13,445.69	$0.00	$0.00	$13,445.69
291	BURNS	$21,026.17	$0.00	$0.00	$21,026.17
292	BURNS TILE	$0.00	$0.00	$0.00	$0.00
293	JONES	$0.00	$0.00	$0.00	$0.00
294	BURNS VILLAGE AND EXTENSION	$0.00	$0.00	$0.00	$0.00
296	BURRELL INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
297	BURSLEY	$0.00	$0.00	$379.81	$379.81
298	BUTTERFIELD	$4,508.41	$0.00	$0.00	$4,508.41
299	BUTTERNUT CR., TILSON BR. AND	$68,965.99	$0.00	$0.00	$68,965.99
301	MILLS AND POST BRANCH	$0.00	$0.00	$0.00	$0.00
303	BANK-BRIGGS INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
304	PHELPS	$0.00	$0.00	$0.00	$0.00
305	CRICKET BR. WOODVIEW ESTATE	$0.00	$0.00	$0.00	$0.00
306	BRANCH OF THE DOLAN	$25,974.98	$0.00	$0.00	$25,974.98
307	BURT ROAD	$0.00	$0.00	$0.00	$0.00
308	BRONSON, ROGERS & KINGSLAND	$0.00	$0.00	$0.00	$0.00
309	BARRETT (Eaton Rapids)	$8,455.49	$0.00	$0.00	$8,455.49
310	BLOTT	$0.00	$0.00	$0.00	$0.00
311	BLAIR ACRES	$60,061.66	$0.00	$0.00	$60,061.66
312	GARLOCK/FOSTER BR ONE EXT	$0.00	$0.00	$0.00	$0.00
313	NORRIS	$0.00	$0.00	$0.00	$0.00
314	WEST WILLOW HEIGHTS	$1,291.05	$0.00	$0.00	$1,291.05
316	WISEMAN	$0.00	$0.00	$0.00	$0.00
317	JORGENSEN	$0.00	$0.00	$0.00	$0.00
318	SPEARS	$0.00	$0.00	$0.00	$0.00
319	LEDGEWAY	$0.00	$0.00	$0.00	$0.00
320	WESTCHARME	$0.00	$0.00	$0.00	$0.00

Current Balance Report

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Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
322	CANAL ROAD	$0.00	$0.00	$0.00	$0.00
323	CARMAN	$1,584.52	$0.00	$0.00	$1,584.52
324	CARMEL AND EATON	$0.00	$0.00	$0.00	$0.00
326	CARRIER CREEK	$0.00	$0.00	$0.00	$0.00
327	CARROLL INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
328	CARTER: WEST BRANCH	$0.00	$0.00	$0.00	$0.00
329	CEMETERY	$0.00	$0.00	$0.00	$0.00
330	COBURN: NORTH BRANCH	$0.00	$0.00	$0.00	$0.00
331	CHAMBLIN	$0.00	$0.00	$0.00	$0.00
332	CHAPMAN	$12,744.94	$0.00	$0.00	$12,744.94
333	CHARLESWORTH	$0.00	$0.00	$625.72	$625.72
334	CHATFIELD	$0.00	$0.00	$0.00	$0.00
336	CHILDS	$18,865.80	$0.00	$85.10	$18,950.90
337	HUNTER and CHILDS	$0.00	$0.00	$0.00	$0.00
338	CHURCH AND McCLINTIC	$0.00	$0.00	$0.00	$0.00
339	CHURCHILL	$36,162.01	$0.00	$0.00	$36,162.01
340	CLAFLIN	$63,703.81	$0.00	$0.00	$63,703.81
341	CLARKE INTERCOUNTY	$0.00	$0.00	$510.29	$510.29
342	CLARKE AND BROUGHTON	$0.00	$0.00	$0.00	$0.00
343	CLEMENTS AND UNDERHILL	$0.00	$0.00	$0.00	$0.00
344	COBURN: N&S BR., MUD LAKE & M	$0.00	$0.00	$0.00	$0.00
345	COBURN: SOUTH BRANCH	$33,119.18	$0.00	$0.00	$33,119.18
346	CODDING	$25,710.37	$0.00	$0.00	$25,710.37
347	COLE (Carmel)	$11,899.29	$0.00	$0.00	$11,899.29
348	CHURCH/ McCLINTIC PACKARD HG	$0.00	$0.00	$0.00	$0.00
349	COLE (Oneida)	$0.00	$0.00	$654.86	$654.86
350	COLE (Roxand)	$0.00	$0.00	$7.56	$7.56
351	COLE, WRIGHT AND HELMS	$53,814.90	$0.00	$62.82	$53,877.72
352	COLLIER AND MUD CREEK INTERC	$0.00	$0.00	$42.55	$42.55
353	COLLIER AND MUD CREEK OVERF	$0.00	$0.00	$0.00	$0.00
354	CENTER POINT	$0.00	$0.00	$638.36	$638.36
355	COLTON	$27,669.95	$0.00	$0.00	$27,669.95
357	COOK	$5,156.47	$0.00	$0.00	$5,156.47
358	COOLEY	$55,464.52	$0.00	$0.00	$55,464.52
359	COOLEY EXTENSION	$0.00	$0.00	$0.00	$0.00
360	COOPER, FROST AND REYNOLDS	$0.00	$0.00	$0.00	$0.00
361	CORWIN	$57,182.75	$0.00	$0.00	$57,182.75
362	COUNTY FARM	$11,802.14	$0.00	$0.00	$11,802.14
363	COUNTY LINE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
364	COX	$24,346.18	$0.00	$0.00	$24,346.18
365	CRANDALL	$26,878.81	$0.00	$0.00	$26,878.81
366	CRONK AND BRANCH ONE	$59,412.35	$0.00	$21.27	$59,433.62
367	CROSS AND HORTON	$1,879.38	$0.00	$42.55	$1,921.93
368	CROUP	$28,948.10	$0.00	$0.00	$28,948.10
369	CRYDERMAN LAKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00

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Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
370	CUMMINGS	$0.00	$0.00	$0.00	$0.00
371	CLARK	$0.00	$0.00	$0.00	$0.00
372	CROY	$0.00	$0.00	$0.00	$0.00
374	CAMBRIDGE AND BRANCHES	$4,895.28	$0.00	$0.09	$4,895.37
376	CARRIER CREEK: BROOKSIDE BRA	$0.00	$0.00	$0.00	$0.00
377	CARTER: EAST BRANCH	$0.00	$0.00	$0.00	$0.00
378	CARLTON	$0.00	$0.00	$0.00	$0.00
379	BALDWIN	$0.00	$0.00	$0.00	$0.00
387	DANN	$57,875.19	$0.00	$0.00	$57,875.19
389	DARKEN AND BOYER	$0.00	$0.00	$0.00	$0.00
390	DARLING	$34,695.73	$0.00	$0.00	$34,695.73
391	DAVIS AND EXTENSION	$10,071.44	$0.00	$0.00	$10,071.44
392	DAVIS DRAIN	$0.00	$0.00	$0.00	$0.00
393	DeLUCA	$0.00	$0.00	$0.00	$0.00
394	DIMONDALE	$0.00	$0.00	$43.39	$43.39
395	DAY	$0.00	$0.00	$0.00	$0.00
396	DECKE	$22,611.20	$0.00	$148.92	$22,760.12
397	DEER	$7,028.39	$0.00	$0.00	$7,028.39
398	DELLWOOD	$6,769.26	$0.00	$0.00	$6,769.26
399	DELTA GLENS #1, 2 AND 4	$0.00	$0.00	$0.00	$0.00
400	DELTA MILLS	$7,050.34	$0.00	$0.00	$7,050.34
402	DELTA SECTION 17	$0.00	$0.00	$0.00	$0.00
403	DENNISTON	$0.00	$0.00	$0.00	$0.00
404	TREADWELL	$0.00	$0.00	$0.00	$0.00
406	DENSMORE, PERKINS & FISH CRE	$85,019.93	$0.00	$0.00	$85,019.93
407	DERNIER	$21,865.37	$0.00	$0.00	$21,865.37
408	DEVILS LAKE INTERCOUNTY	$0.00	$0.00	$42.55	$42.55
409	DILLON	$0.00	$0.00	$0.00	$0.00
411	DIMONDALE FARMS	$0.00	$0.00	$0.00	$0.00
412	DISBROW	$0.00	$0.00	$0.00	$0.00
413	DIVINE	$3,021.67	$0.00	$0.00	$3,021.67
415	DOOLING	$0.00	$0.00	$15.76	$15.76
417	MICHIGAN AVENUE: DORNET BRA	$0.00	$0.00	$0.00	$0.00
418	DOW	$0.00	$0.00	$34.79	$34.79
419	DOWNING	$0.00	$0.00	$0.00	$0.00
420	DOXIE AND EXTENSION	$123,299.67	$0.00	$0.00	$123,299.67
422	DOXTATER	$1,740.58	$0.00	$0.00	$1,740.58
423	DRALLETT	$0.00	$0.00	$0.00	$0.00
424	DUCK LAKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
426	DUFFY AND EXTENSION	$0.00	$0.00	$0.00	$0.00
427	DYE	$0.00	$0.00	$0.00	$0.00
428	DUTCH HILL FARMS	$1,209.11	$0.00	$0.00	$1,209.11
430	DIMONDALE ESTATES	$0.00	$0.00	$316.61	$316.61
440	EARLINGTON	$4,500.67	$0.00	$0.00	$4,500.67
441	EAST PAGE	$0.00	$0.00	$0.00	$0.00

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442	EAST SIDE NARROW LAKE & BRAN	$0.00	$0.00	$0.00	$0.00
445	EDICK	$0.00	$0.00	$0.00	$0.00
446	EDWARDS INTERCOUNTY	$0.00	$0.00	$85.10	$85.10
447	EDWARDS AND SMITH	$0.00	$0.00	$0.00	$0.00
448	ELLETSON	$21,151.35	$0.00	$0.00	$21,151.35
449	ELLIOTT	$10,787.41	$0.00	$0.00	$10,787.41
450	EDWINS	$0.00	$0.00	$646.83	$646.83
452	FOX RIDGE	$22,855.25	$0.00	$0.00	$22,855.25
453	FIELDVIEW BRANCH TWO	$0.00	$0.00	$0.00	$0.00
454	FAIRFAX	$4,550.10	$0.00	$0.00	$4,550.10
455	FAST	$0.00	$0.00	$31.44	$31.44
457	FIELDVIEW	$0.00	$0.00	$0.00	$0.00
458	FRED FEES AND EXTENSION	$0.00	$0.00	$0.00	$0.00
459	FERGUSON	$0.00	$0.00	$0.00	$0.00
460	FIGG (Roxand Twp)	$1,758.03	$0.00	$0.00	$1,758.03
461	FIGG	$9,935.36	$0.00	$0.00	$9,935.36
462	FINCH AND EXTENSION	$0.00	$0.00	$0.00	$0.00
463	FIELDSTONE FARMS AND BRANCH	$0.00	$0.00	$0.00	$0.00
464	FISHER (ROXAND)	$3,664.55	$0.00	$0.00	$3,664.55
465	FISHER (BROOKFIELD/WALTON)	$13,237.05	$0.00	$0.00	$13,237.05
466	FIVE CORNERS	$15,979.77	$0.00	$0.00	$15,979.77
467	FLEMING	$0.00	$0.00	$0.00	$0.00
468	FOOTE	$0.00	$0.00	$0.00	$0.00
469	FOREST GLEN	$0.00	$0.00	$0.00	$0.00
470	FOWLER RELAID	$0.00	$0.00	$0.00	$0.00
472	FRANTZ	$0.00	$0.00	$402.10	$402.10
473	FREEMIRE	$0.00	$0.00	$146.82	$146.82
474	FULTON	$0.00	$0.00	$0.00	$0.00
475	FULTS	$3,711.46	$0.00	$0.00	$3,711.46
476	FAWN CREEK	$0.00	$0.00	$0.00	$0.00
484	GAGE	$0.00	$0.00	$0.00	$0.00
485	GAGE RELAID AND CORSETTE	$23,638.50	$0.00	$0.00	$23,638.50
486	GALE	$3,099.72	$0.00	$0.00	$3,099.72
487	GARBER	$0.00	$0.00	$232.77	$232.77
488	GARFIELD AVENUE	$0.00	$0.00	$0.00	$0.00
489	GARLOCK & FOSTER AND BRANCH	$0.00	$0.00	$0.00	$0.00
490	GARVEY	$0.00	$0.00	$0.00	$0.00
491	GAYTON AND POWERS EXTENSIO	$0.00	$0.00	$0.00	$0.00
492	GETTER	$2,561.86	$0.00	$0.00	$2,561.86
493	CROOKED BROOK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
494	GILBERT & WEST TOWN INTERCO	$0.00	$0.00	$0.00	$0.00
495	GLEN NO. TWO	$0.00	$0.00	$0.00	$0.00
496	GRAGG	$2,066.94	$0.00	$0.00	$2,066.94
497	GRAHAM	$0.00	$0.00	$275.87	$275.87
498	GRAHAM AND SOUTH WINDSOR	$0.00	$0.00	$0.00	$0.00

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Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
499	GRAND LEDGE	$0.00	$0.00	$0.00	$0.00
500	GRAND RIVER	$0.00	$0.00	$17.66	$17.66
501	GRANT	$27,118.43	$0.00	$0.00	$27,118.43
502	GILDART AND MUD LAKE	$0.00	$0.00	$0.00	$0.00
503	GREEN	$0.00	$0.00	$571.58	$571.58
504	GREENFIELD ACRES	$0.00	$0.00	$991.38	$991.38
505	GRIDLEY	$0.00	$0.00	$0.00	$0.00
506	GRIER	$0.00	$0.00	$659.42	$659.42
507	GRIFFIN	$0.00	$0.00	$40.24	$40.24
508	GROAK	$11,378.88	$0.00	$0.00	$11,378.88
509	GROOMS	$0.00	$0.00	$0.00	$0.00
510	GRUESBECK, CLARK AND BROUG	$88,263.36	$0.00	$0.00	$88,263.36
511	GLENVIEW TERRACE	$0.00	$0.00	$0.00	$0.00
512	GUILDFORD	$0.00	$0.00	$170.67	$170.67
514	GUINAN AND EXTENSION	$22,077.24	$0.00	$0.00	$22,077.24
516	GURLEY LAKE INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
517	WATSON & WATSON: GARFIELD B	$0.00	$0.00	$0.00	$0.00
518	GLENN	$0.00	$0.00	$0.00	$0.00
519	GROHE	$0.00	$0.00	$228.00	$228.00
520	GRAND WOODS	$0.00	$0.00	$0.00	$0.00
522	GRAND BLUFF ESTATES	$0.00	$0.00	$0.00	$0.00
529	HADDIX	$4,087.44	$0.00	$0.00	$4,087.44
530	HALE & POST INTEROCUNTY	$0.00	$0.00	$0.00	$0.00
532	HALL	$0.00	$0.00	$97.56	$97.56
533	HAMILL	$0.00	$0.00	$0.00	$0.00
534	HAMILTON	$0.00	$0.00	$0.00	$0.00
535	HARMON	$0.00	$0.00	$755.92	$755.92
536	HARPSTER	$13,733.20	$0.00	$0.00	$13,733.20
537	HARRIETT AVENUE	$0.00	$0.00	$0.00	$0.00
538	HARRINGTON	$0.00	$0.00	$0.00	$0.00
540	HART INTEROCUNTY	$0.00	$0.00	$0.00	$0.00
541	HAYES	$0.00	$0.00	$0.00	$0.00
543	HAZEL	$14,591.29	$0.00	$85.00	$14,676.29
544	HEISRODT	$0.00	$0.00	$226.86	$226.86
545	HARRIS	$1,661.25	$0.00	$0.00	$1,661.25
546	HESS	$17,994.14	$0.00	$0.00	$17,994.14
547	HETRICK	$0.00	$0.00	$0.00	$0.00
549	HIGBY	$125,519.33	$0.00	$0.00	$125,519.33
550	HILL	$0.00	$0.00	$0.00	$0.00
551	HILLIKER	$0.00	$0.00	$645.78	$645.78
552	HOBART	$125,984.45	$0.00	$0.00	$125,984.45
553	HOGLE AND MILLER INTERCOUNT	$1,252.62	$0.00	$0.00	$1,252.62
554	HOLBROOK	$1,821.23	$0.00	$0.00	$1,821.23
555	HOLDEN	$0.00	$0.00	$0.00	$0.00
556	HOLDEN BRANCH	$0.00	$0.00	$0.00	$0.00

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Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
557	HOLLY	$0.00	$0.00	$0.00	$0.00
558	HOLMES	$0.00	$0.00	$0.00	$0.00
559	HOLTON AND BROOKS INTERCOU	$0.00	$0.00	$0.00	$0.00
560	HORNER	$0.00	$0.00	$0.00	$0.00
561	HORR	$0.00	$0.00	$0.00	$0.00
562	HOSEY	$0.00	$0.00	$0.00	$0.00
563	HOTCHKISS	$0.00	$0.00	$15.00	$15.00
564	HOYTVILLE	$0.00	$0.00	$585.24	$585.24
565	HUBER EXTENSION	$15,358.41	$0.00	$0.00	$15,358.41
566	HUBER	$9,668.88	$0.00	$0.00	$9,668.88
567	HULL	$30,253.85	$0.00	$148.92	$30,402.77
568	HULLETT	$0.00	$0.00	$0.00	$0.00
569	HUNTER AND BRANCHES	$0.00	$0.00	$0.00	$0.00
570	HUNTINGTON AND BRANCHES	$2,655.33	$0.00	$0.00	$2,655.33
571	HUSTED AND LANDENBERGER INT	$0.00	$0.00	$0.00	$0.00
572	HUSTON	$0.00	$0.00	$129.76	$129.76
573	HUTCHINGS	$22,184.63	$0.00	$0.00	$22,184.63
574	HYATT	$0.00	$0.00	$0.00	$0.00
575	HOLLY RELIEF	$0.00	$0.00	$274.58	$274.58
576	HOLT HIGHWAY	$0.00	$0.00	$0.00	$0.00
577	HURD	$0.00	$0.00	$178.00	$178.00
578	HUBER: EATON GREEN BRANCH	$0.00	$0.00	$0.00	$0.00
579	HUNTINGTON ACRES	$0.00	$0.00	$837.58	$837.58
584	INGERSOLL	$0.00	$0.00	$192.99	$192.99
586	KENYON INTERCOUNTY	$9,536.03	$0.00	$0.00	$9,536.03
589	JACARANDA NO. THREE	$2,311.74	$0.00	$0.00	$2,311.74
590	JACARANDA NO. TWO	$0.00	$0.00	$0.00	$0.00
591	INGHAM AND EATON INTERCOUNT	$0.00	$0.00	$99.64	$99.64
592	IRVINGDALE ACRES	$0.00	$0.00	$0.00	$0.00
593	JACARANDA	$1,660.40	$0.00	$0.00	$1,660.40
594	JENKINS	$0.00	$0.00	$0.00	$0.00
595	JACKSON	$0.00	$0.00	$4.00	$4.00
596	JENNE	$0.00	$0.00	$0.00	$0.00
597	JOHN EARL	$0.00	$0.00	$0.00	$0.00
598	JOHNSON	$19,868.26	$0.00	$0.00	$19,868.26
599	JOHN EARL: BIG TREE BRANCH	$0.00	$0.00	$0.00	$0.00
600	JENNE: LANTERN GREEN BRANCH	$0.00	$0.00	$0.00	$0.00
601	KELLER	$0.00	$0.00	$0.00	$0.00
602	KELLY	$0.00	$0.00	$4.65	$4.65
603	KENYON	$0.00	$0.00	$0.00	$0.00
604	KETTLER AND NORRIS	$0.00	$0.00	$0.00	$0.00
605	KIKENDALL	$0.00	$0.00	$0.00	$0.00
606	KING	$0.00	$0.00	$0.00	$0.00
607	KINNIE	$0.00	$0.00	$0.00	$0.00
608	KINNIE BROOK	$0.00	$0.00	$0.00	$0.00

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609	KINT	$3,681.09	$0.00	$0.00	$3,681.09
610	KLOTZ	$0.00	$0.00	$223.37	$223.37
611	LAURELWOOD	$0.00	$0.00	$0.00	$0.00
612	LORA INTERCOUNTY	$0.00	$0.00	$255.30	$255.30
613	LAMONT: SANSTONE BRANCH ON	$0.00	$0.00	$0.00	$0.00
614	LAMIE	$0.00	$0.00	$0.00	$0.00
615	LAMONT	$0.00	$0.00	$0.00	$0.00
616	LAZELL	$0.00	$0.00	$0.00	$0.00
617	LEE	$147,179.56	$0.00	$0.00	$147,179.56
618	LEISHER	$5,727.50	$0.00	$0.00	$5,727.50
619	LEMON	$263,174.25	$0.00	$0.00	$263,174.25
620	LENIC	$0.00	$0.00	$71.76	$71.76
622	LETT	$0.00	$0.00	$598.68	$598.68
623	LIBBIE	$0.00	$0.00	$67.49	$67.49
624	LINCOLN AND HEISER	$1,862.30	$0.00	$0.00	$1,862.30
625	LITCHFIELD	$2,263.36	$0.00	$0.00	$2,263.36
627	LOCK	$14,071.55	$0.00	$0.00	$14,071.55
629	LOEHR	$1,303.48	$0.00	$0.00	$1,303.48
630	LOVELESS	$0.00	$0.00	$0.00	$0.00
631	LUMBERT	$69,767.54	$0.00	$0.00	$69,767.54
632	LUNDQUIST	$36,870.86	$0.00	$0.00	$36,870.86
633	LUNORE BRANCH	$0.00	$0.00	$0.00	$0.00
634	LUSCOMB	$0.00	$0.00	$0.00	$0.00
635	LACEY LAKE LEVEL	$0.00	$0.00	$42.91	$42.91
636	LITTLE THORNAPPLE	$119,060.95	$0.00	$0.00	$119,060.95
637	LAMONT: SANSTONE BRANCH	$0.00	$0.00	$0.00	$0.00
638	MICHIGAN AVENUE: BRANCH NINE	$0.00	$0.00	$0.00	$0.00
639	MICHIGAN AVENUE: BRANCH SEVE	$0.00	$0.00	$0.00	$0.00
640	MICHIGAN AVENUE: BRANCH EIGH	$10,235.44	$0.00	$0.00	$10,235.44
641	MARTENS	$0.00	$0.00	$0.00	$0.00
643	MAGDEN	$0.00	$0.00	$0.00	$0.00
644	MANNING	$0.00	$0.00	$0.00	$0.00
645	MAST	$1,034.89	$0.00	$0.00	$1,034.89
646	MAPLEWOOD	$0.00	$0.00	$253.67	$253.67
647	JENNIE MARSH	$0.00	$0.00	$14.22	$14.22
648	MARTIN	$0.00	$0.00	$743.84	$743.84
649	MARTINS	$0.00	$0.00	$428.65	$428.65
650	MASON ROAD	$0.00	$0.00	$0.00	$0.00
651	MASTEN	$0.00	$0.00	$0.00	$0.00
652	MAYCROFT	$0.00	$0.00	$0.00	$0.00
653	MAYWOOD	$0.00	$0.00	$0.00	$0.00
654	MEAD	$1,452.54	$0.00	$0.00	$1,452.54
655	MEDICARE STORM DRAIN	$0.00	$0.00	$417.52	$417.52
656	MERRIAM	$0.00	$0.00	$0.00	$0.00
657	MERRILL	$0.00	$0.00	$0.00	$0.00

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658	MERRYFIELD	$0.00	$0.00	$104.41	$104.41
659	MICHIGAN AVENUE AND BRANCHE	$0.00	$0.00	$0.00	$0.00
660	MILBOURN, ALLEN AND CRANE	$2,052.75	$0.00	$0.00	$2,052.75
661	MILBOURN EAST AND WEST EXTE	$23,482.67	$0.00	$0.00	$23,482.67
663	MILES	$3,753.31	$0.00	$42.55	$3,795.86
664	MILES EARL	$0.00	$0.00	$482.58	$482.58
665	MILLER (Delta Twp)	$0.00	$0.00	$0.00	$0.00
666	SAIER: MILLETT HIGHWAY BRANC	$0.00	$0.00	$0.00	$0.00
667	MILLS AND BLY	$0.00	$0.00	$0.00	$0.00
668	MILLS AND POST	$0.00	$0.00	$0.00	$0.00
669	MILLS AND PRICHARD	$0.00	$0.00	$0.00	$0.00
670	MITCHELL (BENTON)	$18,569.59	$0.00	$0.00	$18,569.59
671	MITCHELL (Oneida)	$0.00	$0.00	$18.50	$18.50
672	MITCHELL (Chester)	$0.00	$0.00	$0.00	$0.00
673	MIX	$2,443.60	$0.00	$0.00	$2,443.60
674	MONROE	$8,700.52	$0.00	$0.00	$8,700.52
675	MOON	$3,249.08	$0.00	$0.00	$3,249.08
676	Moon & Hamilton (CARRIER CREEK)	$0.00	$0.00	$0.00	$0.00
677	OTTER CR & BRANCH INTERCOUN	$0.00	$0.00	$0.00	$0.00
678	MOYER	$0.00	$0.00	$0.00	$0.00
679	MUD CREEK INTERCOUNTY	$4,483.87	$0.00	$0.00	$4,483.87
680	MUD LAKE	$0.00	$0.00	$0.00	$0.00
681	MUD LAKE BRANCH TWO	$0.00	$0.00	$0.00	$0.00
682	MUD LAKE EXTENSION	$0.00	$0.00	$0.00	$0.00
683	MUNSON	$0.00	$0.00	$0.00	$0.00
684	MUNTON AND BRANCHES	$0.00	$0.00	$0.00	$0.00
685	MURPHY	$0.00	$0.00	$0.00	$0.00
686	MURRAY	$3,572.29	$0.00	$0.00	$3,572.29
687	MURRAY AND ROBERTS INTERCO	$9,139.43	$0.00	$0.00	$9,139.43
688	MYERS AND HENDERSON	$0.00	$0.00	$0.00	$0.00
689	McCALPIN	$0.00	$0.00	$0.00	$0.00
690	McCLINTIC	$0.00	$0.00	$0.00	$0.00
691	McCREERY	$0.00	$0.00	$0.00	$0.00
692	McCUTCHEON	$0.00	$0.00	$51.60	$51.60
693	McDONALD	$2,372.71	$0.00	$0.00	$2,372.71
694	McGILVRA	$0.00	$0.00	$0.00	$0.00
695	McLAUGHLIN AND EXTENSION	$0.00	$0.00	$0.00	$0.00
696	McMULLEN and BRANCHES	$35,253.90	$0.00	$0.00	$35,253.90
697	MCMULLEN & BRANCH	$0.00	$0.00	$0.00	$0.00
699	McPHEE	$32,930.74	$0.00	$0.00	$32,930.74
700	MILLER - (Kalamo Twp)	$0.00	$0.00	$0.00	$0.00
704	MOTT	$0.00	$0.00	$670.53	$670.53
705	MORGAN CREEK	$0.00	$0.00	$0.00	$0.00
716	NORTHPORT	$0.00	$0.00	$0.00	$0.00
717	NIXON HILLS	$0.00	$0.00	$0.00	$0.00

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718	NARROW LAKE DAM (Lake Level)	$0.00	$0.00	$0.00	$0.00
719	NEEDMORE AND BRANCH	$0.00	$0.00	$0.00	$0.00
720	NELLER	$0.00	$0.00	$245.48	$245.48
721	NELSON	$0.00	$0.00	$525.46	$525.46
722	NEWCOMBE	$1,163.64	$0.00	$0.00	$1,163.64
723	NEWELL	$0.00	$0.00	$274.05	$274.05
724	NICKLE	$0.00	$0.00	$0.00	$0.00
725	PORTER: NORTH BRANCH	$0.00	$0.00	$0.00	$0.00
726	NYE AND EATON	$25,776.42	$0.00	$0.00	$25,776.42
727	NORTHRUP	$0.00	$0.00	$159.93	$159.93
728	NARROW LAKE	$0.00	$0.00	$469.51	$469.51
729	OAK PARK	$0.00	$0.00	$0.00	$0.00
730	OAK PARK: WINIFRED BRANCH	$0.00	$0.00	$0.00	$0.00
731	OCHSENBEIN	$0.00	$0.00	$0.00	$0.00
732	O'DELL	$2,666.81	$0.00	$0.00	$2,666.81
733	OLD MAID RELAID, HARRIS AND W	$0.00	$0.00	$0.00	$0.00
734	OLIVET MILBOURN	$0.00	$0.00	$342.68	$342.68
735	OLIVET SOUTH SIDE	$3,295.33	$0.00	$127.65	$3,422.98
736	OLMSTEAD	$0.00	$0.00	$0.00	$0.00
737	O'NEAL	$0.00	$0.00	$0.00	$0.00
738	ONEIDA SECTION 29	$0.00	$0.00	$0.00	$0.00
740	OTTNEY	$0.00	$0.00	$0.00	$0.00
741	OWEN - BELLEVUE TWP	$0.00	$0.00	$0.00	$0.00
742	OWEN - EATON RAPIDS TWP	$4,485.81	$0.00	$0.00	$4,485.81
743	OLIVET SOUTH SIDE BRANCH FIVE	$0.00	$0.00	$0.00	$0.00
744	OAK RIDGE	$0.00	$0.00	$0.00	$0.00
745	OLD RIVER TRAIL	$0.00	$0.00	$0.00	$0.00
746	PADDLE TOWN SEWER	$0.00	$0.00	$614.33	$614.33
747	PAGE, BIG CREEK & SLEEPER INT	$0.00	$0.00	$0.00	$0.00
748	PALMER	$7,202.76	$0.00	$0.00	$7,202.76
749	PALMITER AND PHELPS	$0.00	$0.00	$0.00	$0.00
750	PARKER INTERCOUNTY	$18,353.45	$0.00	$0.00	$18,353.45
751	PARKER TILE	$0.00	$0.00	$0.00	$0.00
752	PATTERSON & DUBOIS	$0.00	$0.00	$0.00	$0.00
753	PEABODY	$0.00	$0.00	$0.00	$0.00
755	PEACOCK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
756	PEACOCK, CARTER AND REESE	$0.00	$0.00	$0.00	$0.00
758	PHILLIPS NO. TWO	$0.00	$0.00	$22.61	$22.61
759	PHILLIPS TOWNSHIP	$5,412.80	$0.00	$0.00	$5,412.80
760	PICKWORTH	$0.00	$0.00	$196.56	$196.56
761	PIKE	$0.00	$0.00	$210.35	$210.35
762	PINGEL INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
763	PINGEL BRANCH	$0.00	$0.00	$0.00	$0.00
764	PINNOCK	$10,969.53	$0.00	$0.00	$10,969.53
765	PONTO AND LININGER INTERCOU	$0.00	$0.00	$0.00	$0.00

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767	PORTER AND EXTENSION	$0.00	$0.00	$0.00	$0.00
768	POST NO. TWO	$0.00	$0.00	$0.00	$0.00
769	POTTER (BENTON)	$77,667.16	$0.00	$0.00	$77,667.16
770	POTTER (ROXAND)	$0.00	$0.00	$0.00	$0.00
771	POINTE WEST	$0.00	$0.00	$0.00	$0.00
772	POTTER AND MULLIKEN (EATON O	$7,072.93	$0.00	$0.00	$7,072.93
773	POTTER AND MULLIKEN OUTLET I	$6,437.53	$0.00	$0.00	$6,437.53
775	POWERS	$0.00	$0.00	$0.00	$0.00
776	PRATT	$17,428.95	$0.00	$0.00	$17,428.95
777	PRATT	$1,219.88	$0.00	$0.00	$1,219.88
778	PRATT BRANCH and CHEAL	$0.00	$0.00	$0.00	$0.00
779	PRESCOTT	$0.00	$0.00	$0.00	$0.00
780	PRICE	$1,550.11	$0.00	$0.00	$1,550.11
781	PUFFENBERGER INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
783	PLAYERS CLUB	$4,052.39	$0.00	$0.00	$4,052.39
784	PLAYERS CLUB BRANCH	$0.00	$0.00	$0.00	$0.00
785	PHILLIPS	$6,465.04	$0.00	$85.10	$6,550.14
787	POWERS AND LINK	$0.00	$0.00	$0.00	$0.00
791	QUAKER BROOK INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
792	QUANTRELL	$0.00	$0.00	$0.00	$0.00
795	RAMSEY	$0.00	$0.00	$0.00	$0.00
796	RANDALL	$0.00	$0.00	$640.63	$640.63
797	RANSOM	$0.00	$0.00	$0.00	$0.00
798	RAY	$0.00	$0.00	$0.00	$0.00
799	RAYMER	$0.00	$0.00	$0.00	$0.00
800	REED	$0.00	$0.00	$0.00	$0.00
802	REGENCY BRANCH DRAIN - GREE	$0.00	$0.00	$0.00	$0.00
803	REEDER AND OVERFLOW	$6,803.34	$0.00	$0.00	$6,803.34
804	REESE	$0.00	$0.00	$0.00	$0.00
805	RENKER ROAD	$0.00	$0.00	$0.00	$0.00
806	RIDDLE	$0.00	$0.00	$0.00	$0.00
807	RICHARD	$0.00	$0.00	$292.62	$292.62
808	RILEY & DELL INTERCOUNTY	$54,412.78	$0.00	$0.00	$54,412.78
809	RIMMEL AND OVERFLOW	$4,121.82	$0.00	$0.00	$4,121.82
811	RIVER RIDGE AND BRANCH	$1,256.41	$0.00	$42.55	$1,298.96
812	ROACH	$0.00	$0.00	$359.81	$359.81
814	ROBINSON	$0.00	$0.00	$682.28	$682.28
815	RIVER COVE	$1,740.24	$0.00	$0.00	$1,740.24
816	ROBINSON RELAID	$0.00	$0.00	$73.03	$73.03
817	ROOT	$10,182.65	$0.00	$0.00	$10,182.65
818	RORABECK	$0.00	$0.00	$0.00	$0.00
819	ROUSE AND THOMAS	$0.00	$0.00	$0.00	$0.00
820	ROXAND SECTION 10	$3,583.79	$0.00	$0.00	$3,583.79
821	RUSSELL	$0.00	$0.00	$0.00	$0.00
822	REUBEN	$4,816.65	$0.00	$0.00	$4,816.65

Current Balance Report

balances as of: Thursday, December 28, 2023

Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
823	MILLS RELAID AND EXTENSION	$0.00	$0.00	$0.00	$0.00
826	REED INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
830	SHERWOOD FOREST	$4,818.73	$0.00	$42.54	$4,861.27
832	SAIER	$0.00	$0.00	$495.05	$495.05
833	SANTEE	$0.00	$0.00	$0.00	$0.00
834	SARATOGA	$0.00	$0.00	$0.00	$0.00
835	SEELYE	$0.00	$0.00	$0.00	$0.00
836	SEBEWA INTERCOUNTY	$0.00	$0.00	$0.00	$0.00
837	SECOND LAKE (HAGER CREEK)	$0.00	$0.00	$0.00	$0.00
838	WINDSOR SECTION 4 AND BRANC	$0.00	$0.00	$0.00	$0.00
839	WALTON SECTION 12 AND 13	$0.00	$0.00	$0.00	$0.00
840	HAMLIN SECTION 16	$21,609.52	$0.00	$0.00	$21,609.52
841	EATON SECTION 29, 30 & 31	$0.00	$0.00	$0.00	$0.00
842	SIDWELL & RELAID MILLS	$15,623.59	$0.00	$0.00	$15,623.59
843	SEITLER	$1,958.77	$0.00	$0.00	$1,958.77
844	SHANTY BROOK	$36,557.70	$0.00	$0.00	$36,557.70
845	SHARP	$0.00	$0.00	$0.00	$0.00
846	SHAW	$0.00	$0.00	$0.00	$0.00
847	SHAYTOWN	$8,361.19	$0.00	$0.00	$8,361.19
848	SHEETS AND BRANCHES	$0.00	$0.00	$416.65	$416.65
849	SHELLHORN & REAHM INTERCOU	$0.00	$0.00	$0.00	$0.00
850	SHERMAN	$9,825.56	$0.00	$0.00	$9,825.56
851	SHERWOOD	$0.00	$0.00	$112.50	$112.50
853	SHADOW GLEN	$0.00	$0.00	$0.00	$0.00
854	SHRONTZ	$44,709.57	$0.00	$0.00	$44,709.57
855	SIDWELL AND MILLS	$0.00	$0.00	$0.00	$0.00
856	SILVER CREEK	$45,365.05	$0.00	$0.00	$45,365.05
857	SKINNER	$0.00	$0.00	$0.00	$0.00
858	SKINNER EXTENSION	$1,563.05	$0.00	$0.00	$1,563.05
859	SLOCUM	$0.00	$0.00	$759.44	$759.44
860	SMITH	$0.00	$0.00	$0.00	$0.00
861	SMITH AND EVANS INTERCOUNTY	$1,439.39	$0.00	$0.00	$1,439.39
862	SNYDER AND WALKER INTERCOU	$0.00	$0.00	$0.00	$0.00
863	SOUTHERLAND	$0.00	$0.00	$110.16	$110.16
865	SPICER CREEK	$50,371.88	$0.00	$0.00	$50,371.88
866	SPITZER	$0.00	$0.00	$113.20	$113.20
867	SPORE	$0.00	$0.00	$428.98	$428.98
868	SPRINGBROOK INTERCOUNTY	$15,277.99	$0.00	$0.00	$15,277.99
869	STAR TILE INTERCOUNTY	$2,718.05	$0.00	$0.00	$2,718.05
870	STATE AND INDIAN CREEK INTERC	$0.00	$0.00	$58.56	$58.56
871	SHEPARD	$2,983.39	$0.00	$0.00	$2,983.39
872	STEELE	$0.00	$0.00	$122.18	$122.18
874	STOFFLET	$0.00	$0.00	$0.00	$0.00
875	STROBEL	$0.00	$0.00	$0.00	$0.00
876	SUNFIELD SECTION 9	$0.00	$0.00	$13.38	$13.38

Current Balance Report

balances as of: Thursday, December 28, 2023

Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
877	SUNFIELD SECTION 27	$0.00	$0.00	$0.00	$0.00
878	SUNSHINE GARDENS	$0.00	$0.00	$0.00	$0.00
879	SWICK	$1,003.52	$0.00	$0.00	$1,003.52
880	SWIFT	$0.00	$0.00	$0.00	$0.00
881	SWAN	$0.00	$0.00	$1.00	$1.00
882	SCOTT	$1,304.35	$0.00	$0.00	$1,304.35
883	SHREVE	$2,611.31	$0.00	$0.00	$2,611.31
884	SILVER RIDGE	$7,779.23	$0.00	$0.00	$7,779.23
885	STEMPHLER	$0.00	$0.00	$0.00	$0.00
886	SHENANDOAH	$0.00	$0.00	$456.65	$456.65
887	SWEETWATER PINES	$6,176.56	$0.00	$85.10	$6,261.66
897	TECKWOOD	$0.00	$0.00	$0.00	$0.00
898	TANNER	$0.00	$0.00	$0.00	$0.00
899	TAYLOR (Brookfield)	$964.27	$0.00	$0.00	$964.27
900	TAYLOR (Roxand)	$0.00	$0.00	$0.00	$0.00
901	THEO AVENUE	$0.00	$0.00	$6.15	$6.15
902	THOMAS (Benton/Oneida)	$3,051.28	$0.00	$0.00	$3,051.28
903	THOMAS (Roxand/Sunfield)	$38,873.73	$0.00	$0.00	$38,873.73
905	THOMPSON	$1,022.53	$0.00	$0.00	$1,022.53
909	THORP	$1,774.74	$0.00	$0.00	$1,774.74
910	THUMA	$5,115.33	$0.00	$0.00	$5,115.33
911	TICE	$0.00	$0.00	$48.04	$48.04
912	TOMLINSON	$0.00	$0.00	$347.32	$347.32
913	TOWAR AND BRANCHES	$82,064.36	$0.00	$0.00	$82,064.36
914	TOWNLINE BROOK	$0.00	$0.00	$0.00	$0.00
915	TOWNSHIP CLAFLIN	$0.00	$0.00	$758.45	$758.45
917	TRUMBULL	$0.00	$0.00	$0.00	$0.00
918	TULIP	$0.00	$0.00	$0.00	$0.00
920	THORNAPPLE AND EXTENSION	$0.00	$0.00	$0.00	$0.00
921	TOWAR: VERNDALE BRANCH	$0.00	$0.00	$0.00	$0.00
923	TWIN LAKES	$0.00	$0.00	$0.00	$0.00
924	UPTON	$14,737.99	$0.00	$255.10	$14,993.09
925	UPRIGHT	$0.00	$0.00	$0.00	$0.00
928	WILLOW HILLS BRANCH (Waldo)	$0.00	$0.00	$0.00	$0.00
929	VAN ALLEN	$3,069.67	$0.00	$42.55	$3,112.22
931	VERMONTVILLE SECTION 2	$0.00	$0.00	$856.43	$856.43
932	VICKERY AND HOAG	$0.00	$0.00	$0.00	$0.00
933	WARD	$0.00	$0.00	$0.00	$0.00
934	WILLOW HIGHWAY	$0.00	$0.00	$0.00	$0.00
935	WALDO AND BRANCHES	$0.00	$0.00	$0.00	$0.00
936	WALDO NO. 2	$0.00	$0.00	$0.00	$0.00
937	WALKER	$1,299.97	$0.00	$0.00	$1,299.97
938	WALSH	$5,235.47	$0.00	$0.00	$5,235.47
939	WANGER	$0.00	$0.00	$0.00	$0.00
941	WARREN	$0.00	$0.00	$0.00	$0.00

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Drain Code	Drain Name	241.001 Due To - Promissory Notes	241.002 Due To - Security Agreements	241.802 Due to Revolving	299.000 Total Liabilities
942	WATSON NO. ONE	$44,999.41	$0.00	$0.00	$44,999.41
943	W/WATSON & BR (archive- do not us	$0.00	$0.00	$0.00	$0.00
944	WATSON NO. TWO	$0.00	$0.00	$0.00	$0.00
945	WEAVER	$2,292.69	$0.00	$0.00	$2,292.69
946	WELCHER	$0.00	$0.00	$0.00	$0.00
947	WELLS	$0.00	$0.00	$0.00	$0.00
948	WILLIAMSBURG	$1,980.84	$0.00	$63.82	$2,044.66
950	WHALEY	$0.00	$0.00	$0.00	$0.00
951	WHEATON (Chester)	$0.00	$0.00	$246.74	$246.74
952	WHEELER	$9,524.63	$0.00	$0.00	$9,524.63
953	WHITE (Eaton Rapids)	$0.00	$0.00	$914.76	$914.76
954	WHITE & CARPENTER INTERCOUN	$13,228.05	$0.00	$0.00	$13,228.05
955	WHITNEY	$0.00	$0.00	$0.00	$0.00
956	WHITTUM	$4,247.32	$0.00	$0.00	$4,247.32
957	WILCOX (Brookfield)	$40,127.89	$0.00	$118.30	$40,246.19
958	WILE NORTH	$1,817.92	$0.00	$0.00	$1,817.92
959	WILLIAMS (DELTA)	$0.00	$0.00	$0.00	$0.00
960	WILLOW COVE	$0.00	$0.00	$0.00	$0.00
961	WELLINGTON FIELDS	$0.00	$0.00	$589.32	$589.32
962	WILLIAMS (WINDSOR)	$37,389.81	$0.00	$0.00	$37,389.81
963	WILLIS J. TORPY INTERCOUNTY	$4,067.22	$0.00	$0.00	$4,067.22
964	WILLIS-SHAW	$14,896.25	$0.00	$0.00	$14,896.25
965	WILLOW BROOK	$0.00	$0.00	$0.00	$0.00
966	WILSON (Hamlin)	$0.00	$0.00	$137.47	$137.47
967	WILSON (Kalamo)	$7,070.36	$0.00	$0.00	$7,070.36
968	WILTON INTERCOUNTY	$2,694.06	$0.00	$0.00	$2,694.06
969	WHITE (Windsor)	$0.00	$0.00	$0.00	$0.00
970	WINCHELL AND UNION	$160,063.29	$0.00	$0.00	$160,063.29
971	WINDSOR SECTION 27 AND 34	$0.00	$0.00	$157.81	$157.81
972	WINSLOW	$0.00	$0.00	$351.12	$351.12
973	WONSER	$0.00	$0.00	$0.00	$0.00
974	WOOD	$34,883.31	$0.00	$0.00	$34,883.31
975	WOODBURY VILLAGE INTERCOUN	$0.00	$0.00	$0.00	$0.00
976	WRIGHT, PARDEE AND MAXSON	$9,610.32	$0.00	$0.00	$9,610.32
977	WINDSOR GLENS	$1,373.37	$0.00	$0.00	$1,373.37
978	WATSON & WATSON and BRANCHE	$0.00	$0.00	$0.00	$0.00
980	WILCOX (Eaton)	$0.00	$0.00	$24.00	$24.00
981	WINDSOR	$0.00	$0.00	$0.00	$0.00
982	WESTON	$24,948.79	$0.00	$0.00	$24,948.79
983	WILLIS-SHAW: CONCORD BRANCH	$5,116.73	$0.00	$42.55	$5,159.28
984	WHEATON (Roxand)	$0.00	$0.00	$0.00	$0.00
985	WESTLAND PARK	$5,840.76	$0.00	$0.00	$5,840.76
986	WATSON & WATSON: WINDCHARM	$6,064.93	$0.00	$0.00	$6,064.93
987	WATSON & WATSON: CHRIS J. DRI	$0.00	$0.00	$0.00	$0.00
988	WALMAR & Branch 4	$0.00	$0.00	$0.00	$0.00

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989	YOUNGBLOOD	$0.00	$0.00	$0.00	$0.00
991	YOUNGS (Eaton Rapids Twp)	$0.00	$0.00	$0.00	$0.00
992	WILLOW WOODS	$0.00	$0.00	$0.00	$0.00
993	WILLOW CREEK	$0.00	$0.00	$0.00	$0.00
997	WOODVIEW ESTATES	$0.00	$0.00	$0.00	$0.00
999	CAIRN	$0.00	$0.00	$0.00	$0.00
9999	POSTING ERRORS	$0.00	$0.00	$0.00	$0.00
Total	Drain Count: 682	$4,692,294.32	$0.00	$36,526.73	$4,728,821.05

TABLE 5

DRAIN ORDERS ISSUED

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19440	294	BURNS VILLAGE AND EX	01/05/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19441	365	CRANDALL	01/05/2023	ADVANCED D	3,406.12	801-901-901.000 901.000	801-000-001.000 001.000
19442	997	WOODVIEW ESTATES	01/05/2023	ADVANCED D	12,797.10	801-901-901.000 901.000	801-000-001.000 001.000
19443	627	LOCK	01/05/2023	ADVANCED D	1,737.46	801-901-901.000 901.000	801-000-001.000 001.000
19444	360	COOPER, FROST AND RE	01/05/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19445	360	COOPER, FROST AND RE	01/05/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19446	360	COOPER, FROST AND RE	01/05/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19447	360	COOPER, FROST AND RE	01/05/2023	ADVANCED D	9,822.56	801-901-901.000 901.000	801-000-001.000 001.000
19448	360	COOPER, FROST AND RE	01/05/2023	ADVANCED D	7,238.57	801-901-901.000 901.000	801-000-001.000 001.000
19449	361	CORWIN	01/05/2023	Kepitis Farms	6,740.00	801-901-901.000 901.000	801-000-001.000 001.000
19450	339	CHURCHILL	01/05/2023	Kepitis Farms	1,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19451	280	BROWN (Carmel/Walton)	01/05/2023	SPICER GROU	6,975.25	801-901-901.000 901.000	801-000-001.000 001.000
19452	240	BENTLEY & DEPUE	01/05/2023	SPICER GROU	23,478.88	801-901-901.000 901.000	801-000-001.000 001.000
19453	694	McGILVRA	01/05/2023	SPICER GROU	1,374.75	801-901-901.000 901.000	801-000-001.000 001.000
19454	636	LITTLE THORNAPPLE	01/09/2023	BURKETT EXC	61,975.00	801-901-901.000 901.000	801-000-001.000 001.000
19455	510	GRUESBECK, CLARK AND	01/09/2023	BURKETT EXC	25,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19456	1011	BELLAIRE HILLS	01/09/2023	Hubbell, Roth	1,641.90	801-901-901.000 901.000	801-000-001.000 001.000
19457	619	LEMON	01/09/2023	Hubbell, Roth	8,567.77	801-901-901.000 901.000	801-000-001.000 001.000
19458	306	BRANCH OF THE DOLAN	01/09/2023	Precision Grad	7,710.00	801-901-901.000 901.000	801-000-001.000 001.000
19459	365	CRANDALL	01/09/2023	Precision Grad	11,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19460	627	LOCK	01/09/2023	Precision Grad	11,572.00	801-901-901.000 901.000	801-000-001.000 001.000
19461	387	DANN	01/09/2023	BURKETT EXC	39,551.00	801-901-901.000 901.000	801-000-001.000 001.000
19462	617	LEE	01/09/2023	SPICER GROU	13,321.50	801-901-901.000 901.000	801-000-001.000 001.000
19463	987	WATSON & WATSON: CH	01/09/2023	Hubbell, Roth	650.03	801-901-901.000 901.000	801-000-001.000 001.000
19464	987	WATSON & WATSON: CH	01/09/2023	Hubbell, Roth	10,835.30	801-901-901.000 901.000	801-000-001.000 001.000
19465	552	HOBART	01/09/2023	SPICER GROU	12,501.00	801-901-901.000 901.000	801-000-001.000 001.000
19466	420	DOXIE AND EXTENSION	01/09/2023	BURKETT EXC	13,275.00	801-901-901.000 901.000	801-000-001.000 001.000
19467	360	COOPER, FROST AND RE	01/09/2023	MWT, LLC	115,725.60	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19468	997	WOODVIEW ESTATES	01/09/2023	C.L. Trucking	144,859.73	801-901-901.000 901.000	801-000-001.000 001.000
19469	986	WATSON & WATSON: WI	01/09/2023	LANSING BOA	52.42	801-901-901.000 901.000	801-000-001.000 001.000
19470	360	COOPER, FROST AND RE	01/17/2023	JACKSON DIR	115,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19471	495	GLEN NO. TWO	01/20/2023	CEI - Civil Engi	18,098.60	801-901-901.000 901.000	801-000-001.000 001.000
19472	360	COOPER, FROST AND RE	01/20/2023	LRE Engineers	14,299.65	801-901-901.000 901.000	801-000-001.000 001.000
19473	360	COOPER, FROST AND RE	01/20/2023	LRE Engineers	12,595.26	801-901-901.000 901.000	801-000-001.000 001.000
19474	997	WOODVIEW ESTATES	01/20/2023	LRE Engineers	23,393.67	801-901-901.000 901.000	801-000-001.000 001.000
19475	370	CUMMINGS	01/20/2023	LRE Engineers	12,335.29	801-901-901.000 901.000	801-000-001.000 001.000
19476	944	WATSON NO. TWO	01/21/2023	LRE Engineers	2,803.75	801-901-901.000 901.000	801-000-001.000 001.000
19477	769	POTTER (BENTON)	01/21/2023	LRE Engineers	1,451.90	801-901-901.000 901.000	801-000-001.000 001.000
19478	696	McMULLEN and BRANCHE	01/21/2023	LRE Engineers	97.50	801-901-901.000 901.000	801-000-001.000 001.000
19479	430	DIMONDALE ESTATES	01/21/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
19480	274	BROOKS RIVER LANDING	01/21/2023	M & K Jetting a	510.00	801-901-901.000 901.000	801-000-001.000 001.000
19481	411	DIMONDALE FARMS	01/21/2023	M & K Jetting a	765.00	801-901-901.000 901.000	801-000-001.000 001.000
19482	411	DIMONDALE FARMS	01/21/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
19483	276	MORRIS	01/21/2023	M & K Jetting a	680.00	801-901-901.000 901.000	801-000-001.000 001.000
19484	997	WOODVIEW ESTATES	01/21/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19485	987	WATSON & WATSON: CH	01/21/2023	Clark Hill PLC	1,551.00	801-901-901.000 901.000	801-000-001.000 001.000
19486	1011	BELAIRE HILLS	01/21/2023	Clark Hill PLC	1,950.50	801-901-901.000 901.000	801-000-001.000 001.000
19487	390	DARLING	01/21/2023	Eaton Acres F	5,330.00	801-901-901.000 901.000	801-000-001.000 001.000
19488	1011	BELAIRE HILLS	01/21/2023	USA Today Ne	106.00	801-901-901.000 901.000	801-000-001.000 001.000
19489	370	CUMMINGS	01/21/2023	Fahey Schultz	411.00	801-901-901.000 901.000	801-000-001.000 001.000
19490	917	TRUMBULL	01/21/2023	Fahey Schultz	79.00	801-901-901.000 901.000	801-000-001.000 001.000
19491	997	WOODVIEW ESTATES	01/21/2023	Fahey Schultz	462.00	801-901-901.000 901.000	801-000-001.000 001.000
19492	409	DILLON	01/21/2023	Fahey Schultz	38.00	801-901-901.000 901.000	801-000-001.000 001.000
19493	597	JOHN EARL	01/21/2023	Fahey Schultz	127.50	801-901-901.000 901.000	801-000-001.000 001.000
19494	769	POTTER (BENTON)	01/21/2023	Fahey Schultz	38.00	801-901-901.000 901.000	801-000-001.000 001.000
19495	254	BOND	01/23/2023	ROOTER EXPR	585.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19496	360	COOPER, FROST AND RE	01/23/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19497	360	COOPER, FROST AND RE	01/23/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19498	970	WINCHELL AND UNION	01/23/2023	Kepitis Farms	10,795.00	801-901-901.000 901.000	801-000-001.000 001.000
19499	970	WINCHELL AND UNION	01/23/2023	ADVANCED D	4,790.82	801-901-901.000 901.000	801-000-001.000 001.000
19500	299	BUTTERNUT CR., TILSON	01/23/2023	ADVANCED D	11,144.66	801-901-901.000 901.000	801-000-001.000 001.000
19501	326	CARRIER CREEK	01/23/2023	Kepitis Farms	9,850.00	801-901-901.000 901.000	801-000-001.000 001.000
19502	959	WILLIAMS (DELTA)	01/23/2023	M & K Jetting a	935.00	801-901-901.000 901.000	801-000-001.000 001.000
19503	752	PATTERSON & DUBOIS	01/23/2023	Hubbell, Roth	2,967.48	801-901-901.000 901.000	801-000-001.000 001.000
19504	294	BURNS VILLAGE AND EX	01/30/2023	SPICER GROU	1,364.75	801-901-901.000 901.000	801-000-001.000 001.000
19505	617	LEE	01/30/2023	SPICER GROU	2,076.50	801-901-901.000 901.000	801-000-001.000 001.000
19506	596	JENNE	01/30/2023	SPICER GROU	887.25	801-901-901.000 901.000	801-000-001.000 001.000
19507	240	BENTLEY & DEPUE	01/30/2023	SPICER GROU	21,061.34	801-901-901.000 901.000	801-000-001.000 001.000
19508	694	McGILVRA	01/30/2023	SPICER GROU	3,902.75	801-901-901.000 901.000	801-000-001.000 001.000
19509	299	BUTTERNUT CR., TILSON	01/30/2023	EJ USA Inc. (E	109.15	801-901-901.000 901.000	801-000-001.000 001.000
19510	493	CROOKED BROOK INTERC	01/30/2023	LRE Engineers	2,050.00	801-901-901.000 901.000	801-000-001.000 001.000
19511	493	CROOKED BROOK INTERC	01/30/2023	LRE Engineers	1,575.00	801-901-901.000 901.000	801-000-001.000 001.000
19512	326	CARRIER CREEK	01/30/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
19513	276	MORRIS	01/30/2023	M & K Jetting a	85.00	801-901-901.000 901.000	801-000-001.000 001.000
19514	569	HUNTER AND BRANCHES	01/30/2023	M & K Jetting a	425.00	801-901-901.000 901.000	801-000-001.000 001.000
19515	326	CARRIER CREEK	01/30/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19516	360	COOPER, FROST AND RE	01/30/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19517	360	COOPER, FROST AND RE	01/30/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19518	326	CARRIER CREEK	01/30/2023	LANSING BOA	106.18	801-901-901.000 901.000	801-000-001.000 001.000
19519	326	CARRIER CREEK	01/30/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000
19520	326	CARRIER CREEK	01/30/2023	LANSING BOA	80.00	801-901-901.000 901.000	801-000-001.000 001.000
19521	253	BOLLMAN & DAMON & B	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19522	272	BRETTON WOODS	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19523	274	BROOKS RIVER LANDING	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19524	374	CAMBRIDGE AND BRANC	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19525	326	CARRIER CREEK	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19526	354	CENTER POINT	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19527	343	CLEMENTS AND UNDERH	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19528	400	DELTA MILLS	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19529	430	DIMONDALE ESTATES	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19530	411	DIMONDALE FARMS	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19531	461	FIGG	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19532	488	GARFIELD AVENUE	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19533	489	GARLOCK & FOSTER AN	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19534	520	GRAND WOODS	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19535	537	HARRIETT AVENUE	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19536	547	HETRICK	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19537	569	HUNTER AND BRANCHES	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19538	584	INGERSOLL	02/03/2023	SPICER GROU	63.92	801-901-901.000 901.000	801-000-001.000 001.000
19539	592	IRVINGDALE ACRES	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19540	596	JENNE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19541	597	JOHN EARL	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19542	601	KELLER	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19543	617	LEE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19544	646	MAPLEWOOD	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19545	261	MCCABE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19546	665	MILLER (Delta Twp)	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19547	276	MORRIS	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19548	686	MURRAY	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19549	688	MYERS AND HENDERSON	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19550	721	NELSON	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19551	729	OAK PARK	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19552	745	OLD RIVER TRAIL	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19553	746	PADDLE TOWN SEWER	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19554	780	PRICE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19555	805	RENKER ROAD	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19556	815	RIVER COVE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19557	811	RIVER RIDGE AND BRANC	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19558	821	RUSSELL	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19559	832	SAIER	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19560	834	SARATOGA	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19561	856	SILVER CREEK	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19562	884	SILVER RIDGE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19563	878	SUNSHINE GARDENS	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19564	901	THEO AVENUE	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19565	988	WALMAR & Branch 4	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19566	935	WALDO AND BRANCHES	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19567	978	WATSON & WATSON and	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19568	982	WESTON	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19569	955	WHITNEY	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19570	964	WILLIS-SHAW	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19571	981	WINDSOR	02/03/2023	SPICER GROU	63.93	801-901-901.000 901.000	801-000-001.000 001.000
19572	253	BOLLMAN & DAMON & B	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19573	272	BRETTON WOODS	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19574	274	BROOKS RIVER LANDING	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19575	374	CAMBRIDGE AND BRANC	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19576	326	CARRIER CREEK	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19577	354	CENTER POINT	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19578	343	CLEMENTS AND UNDERH	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19579	400	DELTA MILLS	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19580	430	DIMONDALE ESTATES	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19581	411	DIMONDALE FARMS	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19582	461	FIGG	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19583	488	GARFIELD AVENUE	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19584	489	GARLOCK & FOSTER AN	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19585	520	GRAND WOODS	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19586	537	HARRIETT AVENUE	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19587	547	HETRICK	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19588	569	HUNTER AND BRANCHES	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19589	584	INGERSOLL	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19590	592	IRVINGDALE ACRES	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19591	596	JENNE	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19592	597	JOHN EARL	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19593	601	KELLER	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19594	617	LEE	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19595	646	MAPLEWOOD	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19596	261	MCCABE	02/03/2023	SPICER GROU	101.24	801-901-901.000 901.000	801-000-001.000 001.000
19597	665	MILLER (Delta Twp)	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19598	276	MORRIS	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19599	686	MURRAY	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19600	688	MYERS AND HENDERSON	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19601	721	NELSON	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19602	729	OAK PARK	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19603	745	OLD RIVER TRAIL	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19604	746	PADDLE TOWN SEWER	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19605	780	PRICE	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19606	805	RENKER ROAD	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19607	815	RIVER COVE	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19608	811	RIVER RIDGE AND BRANC	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19609	821	RUSSELL	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19610	832	SAIER	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19611	834	SARATOGA	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19612	856	SILVER CREEK	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19613	884	SILVER RIDGE	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19614	878	SUNSHINE GARDENS	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19615	901	THEO AVENUE	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19616	988	WALMAR & Branch 4	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19617	935	WALDO AND BRANCHES	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19618	978	WATSON & WATSON and	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19619	982	WESTON	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19620	955	WHITNEY	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19621	964	WILLIS-SHAW	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19622	981	WINDSOR	02/03/2023	SPICER GROU	101.25	801-901-901.000 901.000	801-000-001.000 001.000
19623	253	BOLLMAN & DAMON & B	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19624	272	BRETTON WOODS	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19625	274	BROOKS RIVER LANDING	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19626	374	CAMBRIDGE AND BRANC	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19627	326	CARRIER CREEK	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19628	354	CENTER POINT	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19629	343	CLEMENTS AND UNDERH	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19630	400	DELTA MILLS	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19631	430	DIMONDALE ESTATES	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19632	411	DIMONDALE FARMS	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19633	461	FIGG	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19634	488	GARFIELD AVENUE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19635	489	GARLOCK & FOSTER AN	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19636	520	GRAND WOODS	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19637	537	HARRIETT AVENUE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19638	547	HETRICK	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19639	569	HUNTER AND BRANCHES	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19640	584	INGERSOLL	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19641	592	IRVINGDALE ACRES	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19642	596	JENNE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19643	597	JOHN EARL	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19644	601	KELLER	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19645	617	LEE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19646	646	MAPLEWOOD	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19647	261	MCCABE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19648	665	MILLER (Delta Twp)	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19649	276	MORRIS	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19650	686	MURRAY	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19651	688	MYERS AND HENDERSON	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19652	721	NELSON	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19653	729	OAK PARK	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19654	745	OLD RIVER TRAIL	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19655	746	PADDLE TOWN SEWER	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19656	780	PRICE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19657	805	RENKER ROAD	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19658	815	RIVER COVE	02/03/2023	SPICER GROU	24.55	801-901-901.000 901.000	801-000-001.000 001.000
19659	811	RIVER RIDGE AND BRANC	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19660	821	RUSSELL	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19661	832	SAIER	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19662	834	SARATOGA	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19663	856	SILVER CREEK	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19664	884	SILVER RIDGE	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19665	878	SUNSHINE GARDENS	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19666	901	THEO AVENUE	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19667	988	WALMAR & Branch 4	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19668	935	WALDO AND BRANCHES	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19669	978	WATSON & WATSON and	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19670	982	WESTON	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19671	955	WHITNEY	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19672	964	WILLIS-SHAW	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19673	981	WINDSOR	02/03/2023	SPICER GROU	24.58	801-901-901.000 901.000	801-000-001.000 001.000
19674	944	WATSON NO. TWO	02/03/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19675	986	WATSON & WATSON: WI	02/03/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000
19676	987	WATSON & WATSON: CH	02/03/2023	Hubbell, Roth	13,919.27	801-901-901.000 901.000	801-000-001.000 001.000
19677	987	WATSON & WATSON: CH	02/03/2023	Hubbell, Roth	14,116.38	801-901-901.000 901.000	801-000-001.000 001.000
19678	619	LEMON	02/03/2023	Hubbell, Roth	20,250.49	801-901-901.000 901.000	801-000-001.000 001.000
19679	1011	BELAIRE HILLS	02/03/2023	Hubbell, Roth	19,279.11	801-901-901.000 901.000	801-000-001.000 001.000
19680	1011	BELAIRE HILLS	02/03/2023	Hubbell, Roth	1,952.89	801-901-901.000 901.000	801-000-001.000 001.000
19681	494	GILBERT & WEST TOWN	02/05/2023	Ingham County	5,782.19	801-901-901.000 901.000	801-000-001.000 001.000
19682	326	CARRIER CREEK	02/05/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19683	261	MCCABE	02/05/2023	M & K Jetting a	85.00	801-901-901.000 901.000	801-000-001.000 001.000
19684	360	COOPER, FROST AND RE	02/05/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19685	360	COOPER, FROST AND RE	02/05/2023	ADVANCED D	8,011.20	801-901-901.000 901.000	801-000-001.000 001.000
19686	360	COOPER, FROST AND RE	02/10/2023	ADVANCED D	6,676.00	801-901-901.000 901.000	801-000-001.000 001.000
19687	364	COX	02/10/2023	ADVANCED D	4,084.42	801-901-901.000 901.000	801-000-001.000 001.000
19688	465	FISHER (BROOKFIELD/WA	02/10/2023	ADVANCED D	2,595.42	801-901-901.000 901.000	801-000-001.000 001.000
19689	236	BELLOWS	02/10/2023	ADVANCED D	262.80	801-901-901.000 901.000	801-000-001.000 001.000
19690	236	BELLOWS	02/10/2023	ADVANCED D	4,827.44	801-901-901.000 901.000	801-000-001.000 001.000
19691	370	CUMMINGS	02/10/2023	Fahey Schultz	1,313.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19692	214	ALLISON HEIGHTS	02/10/2023	Fahey Schultz	80.00	801-901-901.000 901.000	801-000-001.000 001.000
19693	240	BENTLEY & DEPUE	02/10/2023	MEAD BROTH	60,606.45	801-901-901.000 901.000	801-000-001.000 001.000
19694	997	WOODVIEW ESTATES	02/10/2023	C.L. Trucking	94,493.48	801-901-901.000 901.000	801-000-001.000 001.000
19695	360	COOPER, FROST AND RE	02/10/2023	MWT, LLC	91,472.40	801-901-901.000 901.000	801-000-001.000 001.000
19696	944	WATSON NO. TWO	02/10/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19697	495	GLEN NO. TWO	02/12/2023	JACKSON DIR	353,240.84	801-901-901.000 901.000	801-000-001.000 001.000
19698	238	BANK INTERCOUNTY	02/19/2023	ATA MIDSTAT	10,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19699	238	BANK INTERCOUNTY	02/19/2023	SPICER GROU	5,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19700	987	WATSON & WATSON: CH	02/19/2023	USA Today Ne	154.00	801-901-901.000 901.000	801-000-001.000 001.000
19701	1011	BELAIRE HILLS	02/19/2023	USA Today Ne	490.00	801-901-901.000 901.000	801-000-001.000 001.000
19702	1011	BELAIRE HILLS	02/19/2023	Clark Hill PLC	282.00	801-901-901.000 901.000	801-000-001.000 001.000
19703	987	WATSON & WATSON: CH	02/19/2023	Clark Hill PLC	1,057.50	801-901-901.000 901.000	801-000-001.000 001.000
19704	360	COOPER, FROST AND RE	02/19/2023	ADVANCED D	7,589.59	801-901-901.000 901.000	801-000-001.000 001.000
19705	326	CARRIER CREEK	02/24/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19706	569	HUNTER AND BRANCHES	02/24/2023	M & K Jetting a	425.00	801-901-901.000 901.000	801-000-001.000 001.000
19707	985	WESTLAND PARK	02/24/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19708	666	SAIER: MILLETT HIGHWA	02/24/2023	M & K Jetting a	85.00	801-901-901.000 901.000	801-000-001.000 001.000
19709	430	DIMONDALE ESTATES	02/24/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19710	733	OLD MAID RELAID, HARR	02/24/2023	M & K Jetting a	425.00	801-901-901.000 901.000	801-000-001.000 001.000
19711	569	HUNTER AND BRANCHES	02/24/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
19712	402	DELTA SECTION 17	02/24/2023	M & K Jetting a	85.00	801-901-901.000 901.000	801-000-001.000 001.000
19713	364	COX	02/24/2023	ADVANCED D	49.00	801-901-901.000 901.000	801-000-001.000 001.000
19714	346	CODDING	02/24/2023	ADVANCED D	2,689.93	801-901-901.000 901.000	801-000-001.000 001.000
19715	360	COOPER, FROST AND RE	02/24/2023	ADVANCED D	10,065.51	801-901-901.000 901.000	801-000-001.000 001.000
19716	694	McGILVRA	02/24/2023	SPICER GROU	975.50	801-901-901.000 901.000	801-000-001.000 001.000
19717	240	BENTLEY & DEPUE	02/24/2023	SPICER GROU	6,893.75	801-901-901.000 901.000	801-000-001.000 001.000
19718	659	MICHIGAN AVENUE AND	02/24/2023	SPICER GROU	6,944.50	801-901-901.000 901.000	801-000-001.000 001.000
19719	913	TOWAR AND BRANCHES	02/24/2023	M & K Jetting a	2,910.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19720	913	TOWAR AND BRANCHES	02/24/2023	EJ USA Inc. (E	225.53	801-901-901.000 901.000	801-000-001.000 001.000
19721	1011	BELAIRE HILLS	02/24/2023	CHIRCO TITLE	325.00	801-901-901.000 901.000	801-000-001.000 001.000
19722	1011	BELAIRE HILLS	02/24/2023	CHIRCO TITLE	325.00	801-901-901.000 901.000	801-000-001.000 001.000
19723	619	LEMON	02/24/2023	Fahey Schultz	322.00	801-901-901.000 901.000	801-000-001.000 001.000
19724	402	DELTA SECTION 17	02/24/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19725	402	DELTA SECTION 17	02/24/2023	EATON COUN	60.00	801-901-901.000 901.000	801-000-001.000 001.000
19726	370	CUMMINGS	02/24/2023	LRE Engineers	12,850.65	801-901-901.000 901.000	801-000-001.000 001.000
19727	997	WOODVIEW ESTATES	02/24/2023	LRE Engineers	10,182.04	801-901-901.000 901.000	801-000-001.000 001.000
19728	360	COOPER, FROST AND RE	02/24/2023	LRE Engineers	16,434.10	801-901-901.000 901.000	801-000-001.000 001.000
19729	360	COOPER, FROST AND RE	02/24/2023	LRE Engineers	13,776.12	801-901-901.000 901.000	801-000-001.000 001.000
19730	493	CROOKED BROOK INTER	02/24/2023	LRE Engineers	1,810.63	801-901-901.000 901.000	801-000-001.000 001.000
19731	619	LEMON	02/24/2023	BELL TITLE A	736.00	801-901-901.000 901.000	801-000-001.000 001.000
19732	326	CARRIER CREEK	02/27/2023	LANSING BOA	98.82	801-901-901.000 901.000	801-000-001.000 001.000
19733	326	CARRIER CREEK	02/27/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000
19734	326	CARRIER CREEK	02/27/2023	LANSING BOA	80.00	801-901-901.000 901.000	801-000-001.000 001.000
19735	769	POTTER (BENTON)	03/03/2023	LRE Engineers	1,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19736	814	ROBINSON	03/03/2023	ROOTER EXPR	1,575.00	801-901-901.000 901.000	801-000-001.000 001.000
19737	986	WATSON & WATSON: WI	03/03/2023	LANSING BOA	37.80	801-901-901.000 901.000	801-000-001.000 001.000
19738	883	SHREVE	03/03/2023	Fahey Schultz	221.00	801-901-901.000 901.000	801-000-001.000 001.000
19739	214	ALLISON HEIGHTS	03/03/2023	Fahey Schultz	709.50	801-901-901.000 901.000	801-000-001.000 001.000
19740	370	CUMMINGS	03/03/2023	Fahey Schultz	471.00	801-901-901.000 901.000	801-000-001.000 001.000
19741	409	DILLON	03/03/2023	Fahey Schultz	60.00	801-901-901.000 901.000	801-000-001.000 001.000
19742	752	PATTERSON & DUBOIS	03/03/2023	Fahey Schultz	457.50	801-901-901.000 901.000	801-000-001.000 001.000
19743	370	CUMMINGS	03/03/2023	The County Jo	225.54	801-901-901.000 901.000	801-000-001.000 001.000
19744	920	THORNAPPLE AND EXTEN	03/03/2023	SPICER GROU	3,089.25	801-901-901.000 901.000	801-000-001.000 001.000
19745	917	TRUMBULL	03/03/2023	CEI - Civil Engi	19,929.50	801-901-901.000 901.000	801-000-001.000 001.000
19746	917	TRUMBULL	03/03/2023	CEI - Civil Engi	5,461.50	801-901-901.000 901.000	801-000-001.000 001.000
19747	495	GLEN NO. TWO	03/03/2023	CEI - Civil Engi	9,251.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19748	273	BRIGGS	03/03/2023	Ingham County	96.25	801-901-901.000 901.000	801-000-001.000 001.000
19749	591	INGHAM AND EATON INTE	03/03/2023	Ingham County	255.80	801-901-901.000 901.000	801-000-001.000 001.000
19750	238	BANK INTERCOUNTY	03/03/2023	Ingham County	231.00	801-901-901.000 901.000	801-000-001.000 001.000
19751	238	BANK INTERCOUNTY	03/03/2023	Ingham County	96.25	801-901-901.000 901.000	801-000-001.000 001.000
19752	360	COOPER, FROST AND RE	03/06/2023	JACKSON DIR	308,893.50	801-901-901.000 901.000	801-000-001.000 001.000
19753	360	COOPER, FROST AND RE	03/06/2023	MWT, LLC	30,458.25	801-901-901.000 901.000	801-000-001.000 001.000
19754	360	COOPER, FROST AND RE	03/06/2023	ADVANCED D	14,587.38	801-901-901.000 901.000	801-000-001.000 001.000
19755	360	COOPER, FROST AND RE	03/06/2023	ADVANCED D	11,485.68	801-901-901.000 901.000	801-000-001.000 001.000
19756	360	COOPER, FROST AND RE	03/06/2023	ADVANCED D	10,833.13	801-901-901.000 901.000	801-000-001.000 001.000
19757	573	HUTCHINGS	03/07/2023	CITY OF CHAR	50.00	801-901-901.000 901.000	801-000-001.000 001.000
19758	573	HUTCHINGS	03/13/2023	ROOTER EXPR	680.00	801-901-901.000 901.000	801-000-001.000 001.000
19759	240	BENTLEY & DEPUE	03/13/2023	ROOTER EXPR	525.00	801-901-901.000 901.000	801-000-001.000 001.000
19760	240	BENTLEY & DEPUE	03/13/2023	MEAD BROTH	147,674.16	801-901-901.000 901.000	801-000-001.000 001.000
19761	340	CLAFLIN	03/17/2023	LRE Engineers	3,552.97	801-901-901.000 901.000	801-000-001.000 001.000
19762	245	BIG THORNAPPLE	03/17/2023	LRE Engineers	3,183.33	801-901-901.000 901.000	801-000-001.000 001.000
19763	549	HIGBY	03/17/2023	LRE Engineers	2,018.90	801-901-901.000 901.000	801-000-001.000 001.000
19764	944	WATSON NO. TWO	03/17/2023	LRE Engineers	2,202.04	801-901-901.000 901.000	801-000-001.000 001.000
19765	944	WATSON NO. TWO	03/17/2023	Fahey Schultz	982.00	801-901-901.000 901.000	801-000-001.000 001.000
19766	944	WATSON NO. TWO	03/17/2023	Fahey Schultz	100.00	801-901-901.000 901.000	801-000-001.000 001.000
19767	619	LEMON	03/17/2023	Fahey Schultz	756.57	801-901-901.000 901.000	801-000-001.000 001.000
19768	597	JOHN EARL	03/17/2023	Fahey Schultz	127.50	801-901-901.000 901.000	801-000-001.000 001.000
19769	597	JOHN EARL	03/17/2023	Fahey Schultz	159.00	801-901-901.000 901.000	801-000-001.000 001.000
19770	597	JOHN EARL	03/17/2023	SPICER GROU	13,182.50	801-901-901.000 901.000	801-000-001.000 001.000
19771	597	JOHN EARL	03/17/2023	SPICER GROU	1,950.00	801-901-901.000 901.000	801-000-001.000 001.000
19772	617	LEE	03/17/2023	SPICER GROU	1,645.25	801-901-901.000 901.000	801-000-001.000 001.000
19773	552	HOBART	03/17/2023	SPICER GROU	7,816.75	801-901-901.000 901.000	801-000-001.000 001.000
19774	552	HOBART	03/17/2023	SPICER GROU	5,385.50	801-901-901.000 901.000	801-000-001.000 001.000
19775	280	BROWN (Carmel/Walton)	03/17/2023	SPICER GROU	4,676.50	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19776	280	BROWN (Carmel/Walton)	03/17/2023	SPICER GROU	3,650.00	801-901-901.000 901.000	801-000-001.000 001.000
19777	619	LEMON	03/17/2023	Hubbell, Roth	7,391.90	801-901-901.000 901.000	801-000-001.000 001.000
19778	1011	BELAIRE HILLS	03/17/2023	Hubbell, Roth	15,659.62	801-901-901.000 901.000	801-000-001.000 001.000
19779	987	WATSON & WATSON: CH	03/17/2023	Hubbell, Roth	345.51	801-901-901.000 901.000	801-000-001.000 001.000
19780	238	BANK INTERCOUNTY	03/19/2023	USA Today Ne	99.65	801-901-901.000 901.000	801-000-001.000 001.000
19781	238	BANK INTERCOUNTY	03/19/2023	REIMOLD PRIN	2,365.89	801-901-901.000 901.000	801-000-001.000 001.000
19782	346	CODDING	03/19/2023	Kepitis Farms	5,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19783	573	HUTCHINGS	03/19/2023	M & K Jetting a	1,950.00	801-901-901.000 901.000	801-000-001.000 001.000
19784	726	NYE AND EATON	03/19/2023	ST REGIS CUL	1,846.04	801-901-901.000 901.000	801-000-001.000 001.000
19785	726	NYE AND EATON	03/19/2023	XACT EXCAV	4,636.05	801-901-901.000 901.000	801-000-001.000 001.000
19786	777	PRATT	03/19/2023	ROOTER EXPR	725.00	801-901-901.000 901.000	801-000-001.000 001.000
19787	777	PRATT	03/19/2023	ROOTER EXPR	725.00	801-901-901.000 901.000	801-000-001.000 001.000
19788	493	CROOKED BROOK INTERC	03/20/2023	J. SEBASTIAN	6,958.00	801-901-901.000 901.000	801-000-001.000 001.000
19789	987	WATSON & WATSON: CH	03/20/2023	Bendzinski & C	10,400.00	801-901-901.000 901.000	801-000-001.000 001.000
19790	769	POTTER (BENTON)	03/27/2023	LRE Engineers	2,382.50	801-901-901.000 901.000	801-000-001.000 001.000
19791	944	WATSON NO. TWO	03/27/2023	LRE Engineers	4,505.00	801-901-901.000 901.000	801-000-001.000 001.000
19792	549	HIGBY	03/27/2023	LRE Engineers	2,882.50	801-901-901.000 901.000	801-000-001.000 001.000
19793	370	CUMMINGS	03/27/2023	LRE Engineers	6,201.25	801-901-901.000 901.000	801-000-001.000 001.000
19794	997	WOODVIEW ESTATES	03/27/2023	LRE Engineers	2,800.95	801-901-901.000 901.000	801-000-001.000 001.000
19795	360	COOPER, FROST AND RE	03/27/2023	LRE Engineers	5,183.69	801-901-901.000 901.000	801-000-001.000 001.000
19796	360	COOPER, FROST AND RE	03/27/2023	LRE Engineers	15,045.77	801-901-901.000 901.000	801-000-001.000 001.000
19797	493	CROOKED BROOK INTERC	03/27/2023	LRE Engineers	420.00	801-901-901.000 901.000	801-000-001.000 001.000
19798	944	WATSON NO. TWO	03/27/2023	ROOTER EXPR	895.00	801-901-901.000 901.000	801-000-001.000 001.000
19799	240	BENTLEY & DEPUE	03/27/2023	ST REGIS CUL	1,637.30	801-901-901.000 901.000	801-000-001.000 001.000
19800	299	BUTTERNUT CR., TILSON	03/27/2023	SPICER GROU	2,098.50	801-901-901.000 901.000	801-000-001.000 001.000
19801	920	THORNAPPLE AND EXTEN	03/27/2023	SPICER GROU	900.00	801-901-901.000 901.000	801-000-001.000 001.000
19802	240	BENTLEY & DEPUE	03/27/2023	SPICER GROU	15,713.75	801-901-901.000 901.000	801-000-001.000 001.000
19803	280	BROWN (Carmel/Walton)	03/27/2023	SPICER GROU	1,260.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19804	597	JOHN EARL	03/27/2023	SPICER GROU	3,131.50	801-901-901.000 901.000	801-000-001.000 001.000
19805	694	McGILVRA	03/27/2023	SPICER GROU	1,702.00	801-901-901.000 901.000	801-000-001.000 001.000
19806	360	COOPER, FROST AND RE	03/27/2023	ADVANCED D	7,054.60	801-901-901.000 901.000	801-000-001.000 001.000
19807	1011	BELAIRE HILLS	03/27/2023	Clark Hill PLC	446.50	801-901-901.000 901.000	801-000-001.000 001.000
19808	326	CARRIER CREEK	03/27/2023	LANSING BOA	80.00	801-901-901.000 901.000	801-000-001.000 001.000
19809	326	CARRIER CREEK	03/27/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000
19810	326	CARRIER CREEK	03/27/2023	LANSING BOA	92.63	801-901-901.000 901.000	801-000-001.000 001.000
19811	987	WATSON & WATSON: CH	03/27/2023	DICKINSON W	12,176.40	801-901-901.000 901.000	801-000-001.000 001.000
19812	884	SILVER RIDGE	03/31/2023	M & K Jetting a	850.00	801-901-901.000 901.000	801-000-001.000 001.000
19813	944	WATSON NO. TWO	03/31/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19814	944	WATSON NO. TWO	03/31/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19815	771	POINTE WEST	03/31/2023	Precision Grad	730.00	801-901-901.000 901.000	801-000-001.000 001.000
19816	288	BUCHANAN	03/31/2023	Precision Grad	1,940.00	801-901-901.000 901.000	801-000-001.000 001.000
19817	234	BEAVER	03/31/2023	Precision Grad	1,540.00	801-901-901.000 901.000	801-000-001.000 001.000
19818	817	ROOT	03/31/2023	BURKETT EXC	10,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19819	351	COLE, WRIGHT AND HEL	03/31/2023	BURKETT EXC	15,665.00	801-901-901.000 901.000	801-000-001.000 001.000
19820	465	FISHER (BROOKFIELD/WA	03/31/2023	Kepitis Farms	5,460.00	801-901-901.000 901.000	801-000-001.000 001.000
19821	597	JOHN EARL	03/31/2023	Kepitis Farms	350.00	801-901-901.000 901.000	801-000-001.000 001.000
19822	597	JOHN EARL	03/31/2023	M & M Outdoor	2,800.00	801-901-901.000 901.000	801-000-001.000 001.000
19823	970	WINCHELL AND UNION	03/31/2023	Kepitis Farms	500.00	801-901-901.000 901.000	801-000-001.000 001.000
19824	508	GROAK	03/31/2023	Kepitis Farms	2,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19825	735	OLIVET SOUTH SIDE	03/31/2023	Kepitis Farms	500.00	801-901-901.000 901.000	801-000-001.000 001.000
19826	986	WATSON & WATSON: WI	04/03/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000
19827	253	BOLLMAN & DAMON & B	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19828	272	BRETTON WOODS	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19829	274	BROOKS RIVER LANDING	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19830	374	CAMBRIDGE AND BRANC	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19831	326	CARRIER CREEK	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19832	354	CENTER POINT	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19833	343	CLEMENTS AND UNDERH	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19834	400	DELTA MILLS	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19835	430	DIMONDALE ESTATES	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19836	411	DIMONDALE FARMS	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19837	461	FIGG	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19838	488	GARFIELD AVENUE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19839	489	GARLOCK & FOSTER AN	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19840	520	GRAND WOODS	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19841	537	HARRIETT AVENUE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19842	547	HETRICK	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19843	569	HUNTER AND BRANCHES	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19844	584	INGERSOLL	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19845	592	IRVINGDALE ACRES	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19846	596	JENNE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19847	597	JOHN EARL	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19848	601	KELLER	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19849	617	LEE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19850	646	MAPLEWOOD	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19851	261	MCCABE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19852	665	MILLER (Delta Twp)	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19853	276	MORRIS	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19854	686	MURRAY	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19855	688	MYERS AND HENDERSON	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19856	721	NELSON	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19857	729	OAK PARK	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19858	745	OLD RIVER TRAIL	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19859	746	PADDLE TOWN SEWER	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19860	780	PRICE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19861	805	RENKER ROAD	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19862	815	RIVER COVE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19863	811	RIVER RIDGE AND BRANC	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19864	821	RUSSELL	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19865	832	SAIER	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19866	834	SARATOGA	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19867	856	SILVER CREEK	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19868	884	SILVER RIDGE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19869	878	SUNSHINE GARDENS	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19870	901	THEO AVENUE	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19871	988	WALMAR & Branch 4	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19872	935	WALDO AND BRANCHES	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19873	978	WATSON & WATSON and	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19874	982	WESTON	04/03/2023	SPICER GROU	33.53	801-901-901.000 901.000	801-000-001.000 001.000
19875	955	WHITNEY	04/03/2023	SPICER GROU	33.52	801-901-901.000 901.000	801-000-001.000 001.000
19876	964	WILLIS-SHAW	04/03/2023	SPICER GROU	33.52	801-901-901.000 901.000	801-000-001.000 001.000
19877	981	WINDSOR	04/03/2023	SPICER GROU	33.52	801-901-901.000 901.000	801-000-001.000 001.000
19878	917	TRUMBULL	04/04/2023	LOU'S CUTTIN	5,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19879	752	PATTERSON & DUBOIS	04/10/2023	Hubbell, Roth	300.42	801-901-901.000 901.000	801-000-001.000 001.000
19880	987	WATSON & WATSON: CH	04/10/2023	Hubbell, Roth	7,830.82	801-901-901.000 901.000	801-000-001.000 001.000
19881	619	LEMON	04/10/2023	Hubbell, Roth	6,461.98	801-901-901.000 901.000	801-000-001.000 001.000
19882	1011	BELAIRE HILLS	04/10/2023	Hubbell, Roth	6,528.73	801-901-901.000 901.000	801-000-001.000 001.000
19883	409	DILLON	04/10/2023	Fahey Schultz	66.00	801-901-901.000 901.000	801-000-001.000 001.000
19884	917	TRUMBULL	04/10/2023	Fahey Schultz	849.00	801-901-901.000 901.000	801-000-001.000 001.000
19885	370	CUMMINGS	04/10/2023	Fahey Schultz	3,054.30	801-901-901.000 901.000	801-000-001.000 001.000
19886	619	LEMON	04/10/2023	Fahey Schultz	559.00	801-901-901.000 901.000	801-000-001.000 001.000
19887	944	WATSON NO. TWO	04/10/2023	Fahey Schultz	40.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19888	664	MILES EARL	04/10/2023	Fahey Schultz	72.00	801-901-901.000 901.000	801-000-001.000 001.000
19889	573	HUTCHINGS	04/10/2023	ROOTER EXPR	835.00	801-901-901.000 901.000	801-000-001.000 001.000
19890	987	WATSON & WATSON: CH	04/10/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19891	985	WESTLAND PARK	04/10/2023	M & K Jetting a	1,275.00	801-901-901.000 901.000	801-000-001.000 001.000
19892	985	WESTLAND PARK	04/10/2023	M & K Jetting a	595.00	801-901-901.000 901.000	801-000-001.000 001.000
19893	985	WESTLAND PARK	04/10/2023	M & K Jetting a	510.00	801-901-901.000 901.000	801-000-001.000 001.000
19894	360	COOPER, FROST AND RE	04/10/2023	ADVANCED D	9,658.73	801-901-901.000 901.000	801-000-001.000 001.000
19895	360	COOPER, FROST AND RE	04/10/2023	ADVANCED D	9,658.73	801-901-901.000 901.000	801-000-001.000 001.000
19896	573	HUTCHINGS	04/10/2023	ADVANCED D	4,082.46	801-901-901.000 901.000	801-000-001.000 001.000
19897	364	COX	04/10/2023	Precision Grad	11,950.00	801-901-901.000 901.000	801-000-001.000 001.000
19898	306	BRANCH OF THE DOLAN	04/10/2023	Precision Grad	2,692.50	801-901-901.000 901.000	801-000-001.000 001.000
19899	917	TRUMBULL	04/10/2023	CEI - Civil Engi	7,567.25	801-901-901.000 901.000	801-000-001.000 001.000
19900	495	GLEN NO. TWO	04/10/2023	CEI - Civil Engi	3,546.00	801-901-901.000 901.000	801-000-001.000 001.000
19901	1011	BELAIRE HILLS	04/17/2023	Clark Hill PLC	94.00	801-901-901.000 901.000	801-000-001.000 001.000
19902	987	WATSON & WATSON: CH	04/17/2023	Clark Hill PLC	869.50	801-901-901.000 901.000	801-000-001.000 001.000
19903	396	DECKE	04/17/2023	ROOTER EXPR	785.00	801-901-901.000 901.000	801-000-001.000 001.000
19904	299	BUTTERNUT CR., TILSON	04/17/2023	Precision Grad	26,650.00	801-901-901.000 901.000	801-000-001.000 001.000
19905	573	HUTCHINGS	04/17/2023	Kepitis Farms	8,300.00	801-901-901.000 901.000	801-000-001.000 001.000
19906	977	WINDSOR GLENS	04/17/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
19907	569	HUNTER AND BRANCHES	04/17/2023	M & K Jetting a	85.00	801-901-901.000 901.000	801-000-001.000 001.000
19908	326	CARRIER CREEK	04/17/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
19909	326	CARRIER CREEK	04/17/2023	M & K Jetting a	595.00	801-901-901.000 901.000	801-000-001.000 001.000
19910	569	HUNTER AND BRANCHES	04/17/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19911	944	WATSON NO. TWO	04/17/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
19912	339	CHURCHILL	04/24/2023	ADVANCED D	7,551.55	801-901-901.000 901.000	801-000-001.000 001.000
19913	987	WATSON & WATSON: CH	04/24/2023	ADVANCED D	3,142.47	801-901-901.000 901.000	801-000-001.000 001.000
19914	987	WATSON & WATSON: CH	04/24/2023	ADVANCED D	7,803.01	801-901-901.000 901.000	801-000-001.000 001.000
19915	238	BANK INTERCOUNTY	04/24/2023	Fahey Schultz	66.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19916	238	BANK INTERCOUNTY	04/24/2023	Fahey Schultz	4,389.00	801-901-901.000 901.000	801-000-001.000 001.000
19917	238	BANK INTERCOUNTY	04/24/2023	Fahey Schultz	9,758.50	801-901-901.000 901.000	801-000-001.000 001.000
19918	238	BANK INTERCOUNTY	04/24/2023	Fahey Schultz	7,124.00	801-901-901.000 901.000	801-000-001.000 001.000
19919	238	BANK INTERCOUNTY	04/24/2023	Fahey Schultz	12,694.50	801-901-901.000 901.000	801-000-001.000 001.000
19920	238	BANK INTERCOUNTY	04/24/2023	SPICER GROU	19,272.75	801-901-901.000 901.000	801-000-001.000 001.000
19921	343	CLEMENTS AND UNDERH	04/24/2023	M & K Jetting a	380.00	801-901-901.000 901.000	801-000-001.000 001.000
19922	537	HARRIETT AVENUE	04/24/2023	M & K Jetting a	380.00	801-901-901.000 901.000	801-000-001.000 001.000
19923	985	WESTLAND PARK	04/24/2023	M & K Jetting a	380.00	801-901-901.000 901.000	801-000-001.000 001.000
19924	273	BRIGGS	04/24/2023	NORTHERN C	232.00	801-901-901.000 901.000	801-000-001.000 001.000
19925	398	DELLWOOD	04/24/2023	ROOTER EXPR	875.00	801-901-901.000 901.000	801-000-001.000 001.000
19926	360	COOPER, FROST AND RE	04/24/2023	LRE Engineers	7,843.14	801-901-901.000 901.000	801-000-001.000 001.000
19927	360	COOPER, FROST AND RE	04/24/2023	LRE Engineers	17,546.55	801-901-901.000 901.000	801-000-001.000 001.000
19928	338	CHURCH AND McCLINTIC	04/24/2023	LRE Engineers	750.00	801-901-901.000 901.000	801-000-001.000 001.000
19929	997	WOODVIEW ESTATES	04/24/2023	LRE Engineers	8,965.44	801-901-901.000 901.000	801-000-001.000 001.000
19930	370	CUMMINGS	04/24/2023	LRE Engineers	2,535.00	801-901-901.000 901.000	801-000-001.000 001.000
19931	944	WATSON NO. TWO	04/24/2023	LRE Engineers	1,391.49	801-901-901.000 901.000	801-000-001.000 001.000
19932	769	POTTER (BENTON)	04/24/2023	LRE Engineers	237.50	801-901-901.000 901.000	801-000-001.000 001.000
19933	696	McMULLEN and BRANCHE	04/24/2023	LRE Engineers	1,138.77	801-901-901.000 901.000	801-000-001.000 001.000
19934	693	McDONALD	04/24/2023	LRE Engineers	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19935	905	THOMPSON	04/24/2023	LRE Engineers	212.50	801-901-901.000 901.000	801-000-001.000 001.000
19936	351	COLE, WRIGHT AND HEL	04/24/2023	LRE Engineers	170.00	801-901-901.000 901.000	801-000-001.000 001.000
19937	238	BANK INTERCOUNTY	04/24/2023	Great Lakes S	768.00	801-901-901.000 901.000	801-000-001.000 001.000
19938	238	BANK INTERCOUNTY	04/24/2023	DICKINSON W	18,140.00	801-901-901.000 901.000	801-000-001.000 001.000
19939	750	PARKER INTERCOUNTY	04/24/2023	Precision Grad	9,245.90	801-901-901.000 901.000	801-000-001.000 001.000
19940	238	BANK INTERCOUNTY	04/24/2023	Bendzinski & C	13,500.00	801-901-901.000 901.000	801-000-001.000 001.000
19941	240	BENTLEY & DEPUE	04/24/2023	MEAD BROTH	54,744.75	801-901-901.000 901.000	801-000-001.000 001.000
19942	238	BANK INTERCOUNTY	04/27/2023	ATA MIDSTAT	108,765.01	801-901-901.000 901.000	801-000-001.000 001.000
19943	326	CARRIER CREEK	05/01/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19944	326	CARRIER CREEK	05/01/2023	LANSING BOA	80.00	801-901-901.000 901.000	801-000-001.000 001.000
19945	326	CARRIER CREEK	05/01/2023	LANSING BOA	91.85	801-901-901.000 901.000	801-000-001.000 001.000
19946	986	WATSON & WATSON: WI	05/01/2023	LANSING BOA	89.14	801-901-901.000 901.000	801-000-001.000 001.000
19947	238	BANK INTERCOUNTY	04/23/2023	Robert W. Bair	3,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19948	238	BANK INTERCOUNTY	05/01/2023	Robert W. Bair	3,000.00	801-901-901.000 901.000	801-000-001.000 001.000
19949	240	BENTLEY & DEPUE	05/01/2023	SPICER GROU	11,356.25	801-901-901.000 901.000	801-000-001.000 001.000
19950	694	McGILVRA	05/01/2023	SPICER GROU	1,888.50	801-901-901.000 901.000	801-000-001.000 001.000
19951	597	JOHN EARL	05/01/2023	SPICER GROU	3,422.75	801-901-901.000 901.000	801-000-001.000 001.000
19952	869	STAR TILE INTERCOUNTY	05/01/2023	Kepitis Farms	1,200.00	801-901-901.000 901.000	801-000-001.000 001.000
19953	238	BANK INTERCOUNTY	05/01/2023	Bendzinski & C	4,800.00	801-901-901.000 901.000	801-000-001.000 001.000
19954	752	PATTERSON & DUBOIS	05/01/2023	Hubbell, Roth	1,075.83	801-901-901.000 901.000	801-000-001.000 001.000
19955	987	WATSON & WATSON: CH	05/01/2023	Hubbell, Roth	12,225.66	801-901-901.000 901.000	801-000-001.000 001.000
19956	619	LEMON	05/01/2023	Hubbell, Roth	1,149.98	801-901-901.000 901.000	801-000-001.000 001.000
19957	1011	BELAIRE HILLS	05/01/2023	Hubbell, Roth	10,118.54	801-901-901.000 901.000	801-000-001.000 001.000
19958	240	BENTLEY & DEPUE	05/01/2023	ADVANCED D	6,068.82	801-901-901.000 901.000	801-000-001.000 001.000
19959	240	BENTLEY & DEPUE	05/01/2023	ADVANCED D	7,904.98	801-901-901.000 901.000	801-000-001.000 001.000
19960	273	BRIGGS	05/01/2023	EJ USA Inc. (E	568.13	801-901-901.000 901.000	801-000-001.000 001.000
19961	253	BOLLMAN & DAMON & B	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19962	272	BRETTON WOODS	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19963	274	BROOKS RIVER LANDING	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19964	374	CAMBRIDGE AND BRANC	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19965	326	CARRIER CREEK	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19966	354	CENTER POINT	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19967	343	CLEMENTS AND UNDERH	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19968	400	DELTA MILLS	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19969	430	DIMONDALE ESTATES	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19970	411	DIMONDALE FARMS	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19971	461	FIGG	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
19972	488	GARFIELD AVENUE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19973	489	GARLOCK & FOSTER AN	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19974	520	GRAND WOODS	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19975	537	HARRIETT AVENUE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19976	547	HETRICK	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19977	569	HUNTER AND BRANCHES	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19978	584	INGERSOLL	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19979	592	IRVINGDALE ACRES	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19980	596	JENNE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19981	597	JOHN EARL	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19982	601	KELLER	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19983	617	LEE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19984	646	MAPLEWOOD	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19985	261	MCCABE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19986	665	MILLER (Delta Twp)	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19987	276	MORRIS	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19988	686	MURRAY	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19989	688	MYERS AND HENDERSON	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19990	721	NELSON	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19991	729	OAK PARK	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19992	745	OLD RIVER TRAIL	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19993	746	PADDLE TOWN SEWER	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19994	780	PRICE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19995	805	RENKER ROAD	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19996	815	RIVER COVE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19997	811	RIVER RIDGE AND BRANC	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19998	821	RUSSELL	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
19999	832	SAIER	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20000	834	SARATOGA	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
20001	856	SILVER CREEK	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
20002	884	SILVER RIDGE	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
20003	878	SUNSHINE GARDENS	05/04/2023	SPICER GROU	81.42	801-901-901.000 901.000	801-000-001.000 001.000
20004	901	THEO AVENUE	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20005	988	WALMAR & Branch 4	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20006	935	WALDO AND BRANCHES	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20007	978	WATSON & WATSON and	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20008	982	WESTON	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20009	955	WHITNEY	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20010	964	WILLIS-SHAW	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20011	981	WINDSOR	05/04/2023	SPICER GROU	81.43	801-901-901.000 901.000	801-000-001.000 001.000
20012	360	COOPER, FROST AND RE	05/04/2023	JACKSON DIR	380,578.50	801-901-901.000 901.000	801-000-001.000 001.000
20013	502	GILDART AND MUD LAKE	05/08/2023	Jacob Ireland	1,340.00	801-901-901.000 901.000	801-000-001.000 001.000
20014	422	DOXTATER	05/08/2023	Precision Grad	895.00	801-901-901.000 901.000	801-000-001.000 001.000
20015	291	BURNS	05/08/2023	Precision Grad	1,691.69	801-901-901.000 901.000	801-000-001.000 001.000
20016	398	DELLWOOD	05/08/2023	Precision Grad	1,438.26	801-901-901.000 901.000	801-000-001.000 001.000
20017	496	GRAGG	05/08/2023	Precision Grad	480.52	801-901-901.000 901.000	801-000-001.000 001.000
20018	351	COLE, WRIGHT AND HEL	05/08/2023	BURKETT EXC	29,100.00	801-901-901.000 901.000	801-000-001.000 001.000
20019	696	McMULLEN and BRANCHE	05/08/2023	BURKETT EXC	3,920.00	801-901-901.000 901.000	801-000-001.000 001.000
20020	654	MEAD	05/08/2023	BURKETT EXC	2,100.00	801-901-901.000 901.000	801-000-001.000 001.000
20021	537	HARRIETT AVENUE	05/08/2023	M & K Jetting a	1,200.00	801-901-901.000 901.000	801-000-001.000 001.000
20022	354	CENTER POINT	05/08/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
20023	326	CARRIER CREEK	05/08/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
20024	264	BRADLEY	05/08/2023	Kepitis Farms	4,485.00	801-901-901.000 901.000	801-000-001.000 001.000
20025	567	HULL	05/08/2023	Kepitis Farms	1,540.00	801-901-901.000 901.000	801-000-001.000 001.000
20026	370	CUMMINGS	05/08/2023	DICKINSON W	27,250.00	801-901-901.000 901.000	801-000-001.000 001.000
20027	370	CUMMINGS	05/08/2023	Bendzinski & C	24,450.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20028	944	WATSON NO. TWO	05/08/2023	Fahey Schultz	439.00	801-901-901.000 901.000	801-000-001.000 001.000
20029	370	CUMMINGS	05/08/2023	Fahey Schultz	201.00	801-901-901.000 901.000	801-000-001.000 001.000
20030	917	TRUMBULL	05/08/2023	Fahey Schultz	1,130.00	801-901-901.000 901.000	801-000-001.000 001.000
20031	409	DILLON	05/08/2023	Fahey Schultz	1,246.00	801-901-901.000 901.000	801-000-001.000 001.000
20032	617	LEE	05/08/2023	Fahey Schultz	736.00	801-901-901.000 901.000	801-000-001.000 001.000
20033	883	SHREVE	05/08/2023	Fahey Schultz	69.00	801-901-901.000 901.000	801-000-001.000 001.000
20034	214	ALLISON HEIGHTS	05/08/2023	Fahey Schultz	66.00	801-901-901.000 901.000	801-000-001.000 001.000
20035	669	MILLS AND PRICHARD	05/08/2023	Fahey Schultz	253.00	801-901-901.000 901.000	801-000-001.000 001.000
20036	769	POTTER (BENTON)	05/08/2023	Fahey Schultz	296.00	801-901-901.000 901.000	801-000-001.000 001.000
20037	1011	BELAIRE HILLS	05/08/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
20038	360	COOPER, FROST AND RE	05/08/2023	ADVANCED D	6,045.04	801-901-901.000 901.000	801-000-001.000 001.000
20039	917	TRUMBULL	05/08/2023	CEI - Civil Engi	3,620.00	801-901-901.000 901.000	801-000-001.000 001.000
20040	495	GLEN NO. TWO	05/08/2023	CEI - Civil Engi	6,562.75	801-901-901.000 901.000	801-000-001.000 001.000
20041	273	BRIGGS	05/08/2023	NORTHERN C	91.00	801-901-901.000 901.000	801-000-001.000 001.000
20042	360	COOPER, FROST AND RE	05/15/2023	ADVANCED D	748.79	801-901-901.000 901.000	801-000-001.000 001.000
20043	346	CODDING	05/15/2023	Kepitis Farms	4,150.00	801-901-901.000 901.000	801-000-001.000 001.000
20044	589	JACARANDA NO. THREE	05/15/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
20045	569	HUNTER AND BRANCHES	05/15/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
20046	590	JACARANDA NO. TWO	05/15/2023	M & K Jetting a	85.00	801-901-901.000 901.000	801-000-001.000 001.000
20047	430	DIMONDALE ESTATES	05/15/2023	M & K Jetting a	255.00	801-901-901.000 901.000	801-000-001.000 001.000
20048	987	WATSON & WATSON: CH	05/15/2023	IRON HORSE E	35,313.68	801-901-901.000 901.000	801-000-001.000 001.000
20049	1011	BELAIRE HILLS	05/15/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
20050	238	BANK INTERCOUNTY	05/15/2023	SPICER GROU	9,328.00	801-901-901.000 901.000	801-000-001.000 001.000
20051	238	BANK INTERCOUNTY	05/15/2023	SPICER GROU	9,228.25	801-901-901.000 901.000	801-000-001.000 001.000
20053	238	BANK INTERCOUNTY	05/15/2023	SPICER GROU	33,144.25	801-901-901.000 901.000	801-000-001.000 001.000
20054	299	BUTTERNUT CR., TILSON	05/15/2023	Precision Grad	3,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20055	616	LAZELL	05/15/2023	IRON HORSE E	5,388.17	801-901-901.000 901.000	801-000-001.000 001.000
20056	992	WILLOW WOODS	05/15/2023	IRON HORSE E	1,411.80	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20057	985	WESTLAND PARK	05/15/2023	IRON HORSE E	1,448.80	801-901-901.000 901.000	801-000-001.000 001.000
20058	901	THEO AVENUE	05/15/2023	IRON HORSE E	1,719.90	801-901-901.000 901.000	801-000-001.000 001.000
20059	570	HUNTINGTON AND BRAN	05/22/2023	EJ USA Inc. (E	407.23	801-901-901.000 901.000	801-000-001.000 001.000
20060	985	WESTLAND PARK	05/22/2023	EJ USA Inc. (E	568.13	801-901-901.000 901.000	801-000-001.000 001.000
20061	238	BANK INTERCOUNTY	05/22/2023	Fahey Schultz	4,301.00	801-901-901.000 901.000	801-000-001.000 001.000
20062	210	ARNOLD	05/22/2023	Eaton Acres F	2,250.00	801-901-901.000 901.000	801-000-001.000 001.000
20063	669	MILLS AND PRICHARD	05/22/2023	Eaton Acres F	900.00	801-901-901.000 901.000	801-000-001.000 001.000
20064	814	ROBINSON	05/22/2023	Eaton Acres F	2,475.00	801-901-901.000 901.000	801-000-001.000 001.000
20065	976	WRIGHT, PARDEE AND M	05/22/2023	ST REGIS CUL	6,350.00	801-901-901.000 901.000	801-000-001.000 001.000
20066	366	CRONK AND BRANCH ON	05/22/2023	ROOTER EXPR	525.00	801-901-901.000 901.000	801-000-001.000 001.000
20067	493	CROOKED BROOK INTER	05/22/2023	LRE Engineers	2,182.42	801-901-901.000 901.000	801-000-001.000 001.000
20068	360	COOPER, FROST AND RE	05/22/2023	LRE Engineers	21,039.83	801-901-901.000 901.000	801-000-001.000 001.000
20069	360	COOPER, FROST AND RE	05/22/2023	LRE Engineers	20,613.74	801-901-901.000 901.000	801-000-001.000 001.000
20070	338	CHURCH AND McCLINTIC	05/22/2023	LRE Engineers	1,432.67	801-901-901.000 901.000	801-000-001.000 001.000
20071	997	WOODVIEW ESTATES	05/22/2023	LRE Engineers	4,785.95	801-901-901.000 901.000	801-000-001.000 001.000
20072	370	CUMMINGS	05/22/2023	LRE Engineers	1,562.50	801-901-901.000 901.000	801-000-001.000 001.000
20073	997	WOODVIEW ESTATES	05/22/2023	C.L. Trucking	50,736.14	801-901-901.000 901.000	801-000-001.000 001.000
20074	360	COOPER, FROST AND RE	05/22/2023	MWT, LLC	234,328.50	801-901-901.000 901.000	801-000-001.000 001.000
20075	326	CARRIER CREEK	05/30/2023	LANSING BOA	36.00	801-901-901.000 901.000	801-000-001.000 001.000
20076	326	CARRIER CREEK	05/30/2023	LANSING BOA	80.00	801-901-901.000 901.000	801-000-001.000 001.000
20077	326	CARRIER CREEK	05/30/2023	LANSING BOA	76.30	801-901-901.000 901.000	801-000-001.000 001.000
20078	987	WATSON & WATSON: CH	05/30/2023	IRON HORSE E	79,476.68	801-901-901.000 901.000	801-000-001.000 001.000
20079	883	SHREVE	06/05/2023	SPICER GROU	2,351.00	801-901-901.000 901.000	801-000-001.000 001.000
20080	240	BENTLEY & DEPUE	06/05/2023	SPICER GROU	10,535.00	801-901-901.000 901.000	801-000-001.000 001.000
20081	552	HOBART	06/05/2023	SPICER GROU	884.00	801-901-901.000 901.000	801-000-001.000 001.000
20082	597	JOHN EARL	06/05/2023	SPICER GROU	2,806.25	801-901-901.000 901.000	801-000-001.000 001.000
20083	221	BARHYTE	06/05/2023	LRE Engineers	2,976.49	801-901-901.000 901.000	801-000-001.000 001.000
20084	905	THOMPSON	06/05/2023	LRE Engineers	340.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20085	769	POTTER (BENTON)	06/05/2023	LRE Engineers	927.50	801-901-901.000 901.000	801-000-001.000 001.000
20086	944	WATSON NO. TWO	06/05/2023	LRE Engineers	8,154.76	801-901-901.000 901.000	801-000-001.000 001.000
20087	549	HIGBY	06/05/2023	LRE Engineers	706.44	801-901-901.000 901.000	801-000-001.000 001.000
20088	1011	BELAIRE HILLS	06/05/2023	Clark Hill PLC	705.00	801-901-901.000 901.000	801-000-001.000 001.000
20089	976	WRIGHT, PARDEE AND M	06/05/2023	Precision Grad	7,107.30	801-901-901.000 901.000	801-000-001.000 001.000
20090	365	CRANDALL	06/05/2023	Precision Grad	677.95	801-901-901.000 901.000	801-000-001.000 001.000
20091	750	PARKER INTERCOUNTY	06/05/2023	Precision Grad	4,967.60	801-901-901.000 901.000	801-000-001.000 001.000
20092	917	TRUMBULL	06/05/2023	The County Jo	220.50	801-901-901.000 901.000	801-000-001.000 001.000
20093	409	DILLON	06/05/2023	The County Jo	354.48	801-901-901.000 901.000	801-000-001.000 001.000
20094	750	PARKER INTERCOUNTY	06/05/2023	ST REGIS CUL	2,687.44	801-901-901.000 901.000	801-000-001.000 001.000
20095	240	BENTLEY & DEPUE	06/05/2023	MEAD BROTH	59,305.50	801-901-901.000 901.000	801-000-001.000 001.000
20096	986	WATSON & WATSON: WI	06/05/2023	LANSING BOA	508.76	801-901-901.000 901.000	801-000-001.000 001.000
20097	696	McMULLEN and BRANCHE	06/05/2023	Dan Edwards	3,800.00	801-901-901.000 901.000	801-000-001.000 001.000
20098	567	HULL	06/05/2023	Kepitis Farms	490.00	801-901-901.000 901.000	801-000-001.000 001.000
20099	396	DECKE	06/05/2023	Kepitis Farms	1,400.00	801-901-901.000 901.000	801-000-001.000 001.000
20100	326	CARRIER CREEK	06/05/2023	CUMMINS BRID	421.70	801-901-901.000 901.000	801-000-001.000 001.000
20101	326	CARRIER CREEK	06/05/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20102	326	CARRIER CREEK	06/05/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000
20103	326	CARRIER CREEK	06/05/2023	C & B LAWN C	175.00	801-901-901.000 901.000	801-000-001.000 001.000
20104	402	DELTA SECTION 17	06/05/2023	C & B LAWN C	175.00	801-901-901.000 901.000	801-000-001.000 001.000
20105	452	FOX RIDGE	06/05/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20106	570	HUNTINGTON AND BRAN	06/05/2023	C & B LAWN C	125.00	801-901-901.000 901.000	801-000-001.000 001.000
20107	616	LAZELL	06/05/2023	C & B LAWN C	740.00	801-901-901.000 901.000	801-000-001.000 001.000
20108	616	LAZELL	06/05/2023	C & B LAWN C	275.00	801-901-901.000 901.000	801-000-001.000 001.000
20109	686	MURRAY	06/05/2023	C & B LAWN C	100.00	801-901-901.000 901.000	801-000-001.000 001.000
20110	688	MYERS AND HENDERSON	06/05/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20111	688	MYERS AND HENDERSON	06/05/2023	C & B LAWN C	125.00	801-901-901.000 901.000	801-000-001.000 001.000
20112	688	MYERS AND HENDERSON	06/05/2023	C & B LAWN C	225.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20113	935	WALDO AND BRANCHES	06/05/2023	C & B LAWN C	125.00	801-901-901.000 901.000	801-000-001.000 001.000
20114	238	BANK INTERCOUNTY	06/05/2023	ATA MIDSTAT	1,867,134.58	801-901-901.000 901.000	801-000-001.000 001.000
20115	899	TAYLOR (Brookfield)	06/05/2023	Kepitis Farms	600.00	801-901-901.000 901.000	801-000-001.000 001.000
20116	448	ELLETSON	06/05/2023	Kepitis Farms	600.00	801-901-901.000 901.000	801-000-001.000 001.000
20117	339	CHURCHILL	06/12/2023	Kepitis Farms	6,650.00	801-901-901.000 901.000	801-000-001.000 001.000
20118	986	WATSON & WATSON: WI	06/12/2023	MID-MICHIGAN	612.00	801-901-901.000 901.000	801-000-001.000 001.000
20119	619	LEMON	06/12/2023	Fahey Schultz	644.00	801-901-901.000 901.000	801-000-001.000 001.000
20120	944	WATSON NO. TWO	06/12/2023	Fahey Schultz	501.00	801-901-901.000 901.000	801-000-001.000 001.000
20121	769	POTTER (BENTON)	06/12/2023	Fahey Schultz	100.00	801-901-901.000 901.000	801-000-001.000 001.000
20122	214	ALLISON HEIGHTS	06/12/2023	Fahey Schultz	247.50	801-901-901.000 901.000	801-000-001.000 001.000
20123	617	LEE	06/12/2023	Fahey Schultz	299.00	801-901-901.000 901.000	801-000-001.000 001.000
20124	409	DILLON	06/12/2023	Fahey Schultz	6,686.22	801-901-901.000 901.000	801-000-001.000 001.000
20125	917	TRUMBULL	06/12/2023	Fahey Schultz	2,573.30	801-901-901.000 901.000	801-000-001.000 001.000
20126	238	BANK INTERCOUNTY	06/12/2023	Fahey Schultz	4,295.00	801-901-901.000 901.000	801-000-001.000 001.000
20127	238	BANK INTERCOUNTY	06/12/2023	SPICER GROU	52,099.75	801-901-901.000 901.000	801-000-001.000 001.000
20128	987	WATSON & WATSON: CH	06/12/2023	Hubbell, Roth	35,206.14	801-901-901.000 901.000	801-000-001.000 001.000
20129	1011	BELAIRE HILLS	06/12/2023	Hubbell, Roth	6,131.24	801-901-901.000 901.000	801-000-001.000 001.000
20130	619	LEMON	06/12/2023	Hubbell, Roth	3,858.99	801-901-901.000 901.000	801-000-001.000 001.000
20131	954	WHITE & CARPENTER INT	06/12/2023	CEI - Civil Engi	1,875.00	801-901-901.000 901.000	801-000-001.000 001.000
20132	238	BANK INTERCOUNTY	06/12/2023	ROOTER EXPR	620.00	801-901-901.000 901.000	801-000-001.000 001.000
20133	735	OLIVET SOUTH SIDE	06/12/2023	ROOTER EXPR	525.00	801-901-901.000 901.000	801-000-001.000 001.000
20134	360	COOPER, FROST AND RE	06/12/2023	ADVANCED D	11,485.68	801-901-901.000 901.000	801-000-001.000 001.000
20135	360	COOPER, FROST AND RE	06/12/2023	ADVANCED D	715.64	801-901-901.000 901.000	801-000-001.000 001.000
20136	360	COOPER, FROST AND RE	06/12/2023	ADVANCED D	11,485.68	801-901-901.000 901.000	801-000-001.000 001.000
20137	360	COOPER, FROST AND RE	06/12/2023	ADVANCED D	11,485.68	801-901-901.000 901.000	801-000-001.000 001.000
20138	360	COOPER, FROST AND RE	06/12/2023	ADVANCED D	761.80	801-901-901.000 901.000	801-000-001.000 001.000
20139	862	SNYDER AND WALKER IN	06/12/2023	IONIA COUNT	4,814.21	801-901-901.000 901.000	801-000-001.000 001.000
20140	849	SHELLHORN & REAHM IN	06/12/2023	IONIA COUNT	490.91	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20141	248	BLISS AND McCLELLAND	06/12/2023	IONIA COUNT	13,989.59	801-901-901.000 901.000	801-000-001.000 001.000
20142	826	REED INTERCOUNTY	06/12/2023	Clinton County	2,579.01	801-901-901.000 901.000	801-000-001.000 001.000
20143	571	HUSTED AND LANDENBE	06/12/2023	Clinton County	1,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20144	446	EDWARDS INTERCOUNTY	06/12/2023	Clinton County	307.45	801-901-901.000 901.000	801-000-001.000 001.000
20145	494	GILBERT & WEST TOWN	06/12/2023	Ingham County	4,583.60	801-901-901.000 901.000	801-000-001.000 001.000
20146	363	COUNTY LINE INTERCOU	06/12/2023	Ingham County	25,521.61	801-901-901.000 901.000	801-000-001.000 001.000
20147	240	BENTLEY & DEPUE	06/16/2023	NORTHERN C	27,082.14	801-901-901.000 901.000	801-000-001.000 001.000
20148	326	CARRIER CREEK	06/16/2023	CUMMINS BRID	3,033.12	801-901-901.000 901.000	801-000-001.000 001.000
20149	326	CARRIER CREEK	06/16/2023	CUMMINS BRID	2,766.86	801-901-901.000 901.000	801-000-001.000 001.000
20150	326	CARRIER CREEK	06/16/2023	CUMMINS BRID	556.35	801-901-901.000 901.000	801-000-001.000 001.000
20151	1011	BELAIRE HILLS	06/16/2023	CHIRCO TITLE	325.00	801-901-901.000 901.000	801-000-001.000 001.000
20152	1011	BELAIRE HILLS	06/16/2023	CHIRCO TITLE	325.00	801-901-901.000 901.000	801-000-001.000 001.000
20153	1011	BELAIRE HILLS	06/16/2023	CHIRCO TITLE	325.00	801-901-901.000 901.000	801-000-001.000 001.000
20154	854	SHRONTZ	06/16/2023	C & H Undergr	2,890.00	801-901-901.000 901.000	801-000-001.000 001.000
20155	230	BATTLE CREEK INTERCO	06/16/2023	Hubbell, Roth	1,231.89	801-901-901.000 901.000	801-000-001.000 001.000
20156	210	ARNOLD	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20157	234	BEAVER	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20158	236	BELLOWS	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20159	306	BRANCH OF THE DOLAN	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20160	299	BUTTERNUT CR., TILSON	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20161	665	MILLER (Delta Twp)	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20162	670	MITCHELL (BENTON)	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20163	683	MUNSON	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20164	772	POTTER AND MULLIKEN	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20165	910	THUMA	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20166	320	WESTCHARME	06/16/2023	SPICER GROU	168.52	801-901-901.000 901.000	801-000-001.000 001.000
20167	970	WINCHELL AND UNION	06/16/2023	SPICER GROU	168.53	801-901-901.000 901.000	801-000-001.000 001.000
20168	1011	BELAIRE HILLS	06/22/2023	Clark Hill PLC	728.50	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20169	493	CROOKED BROOK INTER	06/22/2023	LRE Engineers	420.00	801-901-901.000 901.000	801-000-001.000 001.000
20170	360	COOPER, FROST AND RE	06/22/2023	LRE Engineers	14,682.20	801-901-901.000 901.000	801-000-001.000 001.000
20171	360	COOPER, FROST AND RE	06/22/2023	LRE Engineers	15,667.39	801-901-901.000 901.000	801-000-001.000 001.000
20172	338	CHURCH AND McCLINTIC	06/22/2023	LRE Engineers	689.96	801-901-901.000 901.000	801-000-001.000 001.000
20173	370	CUMMINGS	06/22/2023	LRE Engineers	3,828.22	801-901-901.000 901.000	801-000-001.000 001.000
20174	997	WOODVIEW ESTATES	06/22/2023	LRE Engineers	5,367.61	801-901-901.000 901.000	801-000-001.000 001.000
20175	221	BARHYTE	06/22/2023	LRE Engineers	502.33	801-901-901.000 901.000	801-000-001.000 001.000
20176	549	HIGBY	06/22/2023	LRE Engineers	859.96	801-901-901.000 901.000	801-000-001.000 001.000
20177	944	WATSON NO. TWO	06/22/2023	LRE Engineers	6,010.93	801-901-901.000 901.000	801-000-001.000 001.000
20178	769	POTTER (BENTON)	06/15/2023	LRE Engineers	397.50	801-901-901.000 901.000	801-000-001.000 001.000
20179	299	BUTTERNUT CR., TILSON	06/22/2023	SPICER GROU	2,007.00	801-901-901.000 901.000	801-000-001.000 001.000
20180	234	BEAVER	06/22/2023	Precision Grad	897.64	801-901-901.000 901.000	801-000-001.000 001.000
20181	420	DOXIE AND EXTENSION	06/22/2023	ADVANCED D	11,759.18	801-901-901.000 901.000	801-000-001.000 001.000
20182	360	COOPER, FROST AND RE	06/22/2023	ADVANCED D	668.00	801-901-901.000 901.000	801-000-001.000 001.000
20183	360	COOPER, FROST AND RE	06/22/2023	ADVANCED D	12,153.50	801-901-901.000 901.000	801-000-001.000 001.000
20184	326	CARRIER CREEK	06/22/2023	CUMMINS BRID	2,791.19	801-901-901.000 901.000	801-000-001.000 001.000
20185	326	CARRIER CREEK	06/22/2023	CUMMINS BRID	421.70	801-901-901.000 901.000	801-000-001.000 001.000
20186	493	CROOKED BROOK INTER	06/22/2023	JACKSON DIR	4,145.75	801-901-901.000 901.000	801-000-001.000 001.000
20187	985	WESTLAND PARK	06/22/2023	M & K Jetting a	680.00	801-901-901.000 901.000	801-000-001.000 001.000
20188	887	SWEETWATER PINES	06/22/2023	LOU'S CUTTIN	4,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20189	913	TOWAR AND BRANCHES	06/22/2023	IRON HORSE E	1,206.70	801-901-901.000 901.000	801-000-001.000 001.000
20190	253	BOLLMAN & DAMON & B	06/22/2023	IRON HORSE E	446.80	801-901-901.000 901.000	801-000-001.000 001.000
20191	783	PLAYERS CLUB	06/22/2023	IRON HORSE E	1,361.80	801-901-901.000 901.000	801-000-001.000 001.000
20192	253	BOLLMAN & DAMON & B	06/22/2023	IRON HORSE E	1,299.20	801-901-901.000 901.000	801-000-001.000 001.000
20193	326	CARRIER CREEK	06/22/2023	C & B LAWN C	1,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20194	326	CARRIER CREEK	06/26/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000
20195	326	CARRIER CREEK	06/26/2023	C & B LAWN C	350.00	801-901-901.000 901.000	801-000-001.000 001.000
20196	452	FOX RIDGE	06/26/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20197	570	HUNTINGTON AND BRAN	06/26/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20198	616	LAZELL	06/26/2023	C & B LAWN C	550.00	801-901-901.000 901.000	801-000-001.000 001.000
20199	616	LAZELL	06/26/2023	C & B LAWN C	2,220.00	801-901-901.000 901.000	801-000-001.000 001.000
20200	686	MURRAY	06/26/2023	C & B LAWN C	200.00	801-901-901.000 901.000	801-000-001.000 001.000
20201	688	MYERS AND HENDERSON	06/26/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20202	688	MYERS AND HENDERSON	06/26/2023	C & B LAWN C	450.00	801-901-901.000 901.000	801-000-001.000 001.000
20203	688	MYERS AND HENDERSON	06/26/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000
20204	935	WALDO AND BRANCHES	06/26/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20205	402	DELTA SECTION 17	06/26/2023	C & B LAWN C	350.00	801-901-901.000 901.000	801-000-001.000 001.000
20206	273	BRIGGS	06/26/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20207	326	CARRIER CREEK	06/26/2023	C & B LAWN C	325.00	801-901-901.000 901.000	801-000-001.000 001.000
20208	326	CARRIER CREEK	06/26/2023	C & B LAWN C	375.00	801-901-901.000 901.000	801-000-001.000 001.000
20209	326	CARRIER CREEK	06/26/2023	C & B LAWN C	150.00	801-901-901.000 901.000	801-000-001.000 001.000
20210	326	CARRIER CREEK	06/26/2023	C & B LAWN C	175.00	801-901-901.000 901.000	801-000-001.000 001.000
20211	323	CARMAN	06/26/2023	C & B LAWN C	300.00	801-901-901.000 901.000	801-000-001.000 001.000
20212	970	WINCHELL AND UNION	06/26/2023	C & B LAWN C	1,100.00	801-901-901.000 901.000	801-000-001.000 001.000
20213	616	LAZELL	06/26/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20214	617	LEE	06/26/2023	C & B LAWN C	150.00	801-901-901.000 901.000	801-000-001.000 001.000
20215	688	MYERS AND HENDERSON	06/26/2023	C & B LAWN C	225.00	801-901-901.000 901.000	801-000-001.000 001.000
20216	420	DOXIE AND EXTENSION	06/26/2023	ADVANCED D	10,854.62	801-901-901.000 901.000	801-000-001.000 001.000
20217	987	WATSON & WATSON: CH	06/26/2023	Hubbell, Roth	40,058.71	801-901-901.000 901.000	801-000-001.000 001.000
20218	426	DUFFY AND EXTENSION	06/26/2023	Hubbell, Roth	2,744.14	801-901-901.000 901.000	801-000-001.000 001.000
20219	917	TRUMBULL	06/26/2023	CEI - Civil Engi	9,809.25	801-901-901.000 901.000	801-000-001.000 001.000
20220	495	GLEN NO. TWO	06/26/2023	CEI - Civil Engi	10,063.75	801-901-901.000 901.000	801-000-001.000 001.000
20221	238	BANK INTERCOUNTY	06/26/2023	Detection Syst	264.00	801-901-901.000 901.000	801-000-001.000 001.000
20222	238	BANK INTERCOUNTY	06/26/2023	DELTA CHAR	197.24	801-901-901.000 901.000	801-000-001.000 001.000
20223	1023	HARVEST PARK	06/26/2023	EATON COUN	90.00	801-901-901.000 901.000	801-000-001.000 001.000
20224	986	WATSON & WATSON: WI	07/03/2023	LANSING BOA	480.98	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20225	326	CARRIER CREEK	07/03/2023	LANSING BOA	37.33	801-901-901.000 901.000	801-000-001.000 001.000
20226	326	CARRIER CREEK	07/03/2023	LANSING BOA	130.56	801-901-901.000 901.000	801-000-001.000 001.000
20227	326	CARRIER CREEK	07/03/2023	LANSING BOA	63.23	801-901-901.000 901.000	801-000-001.000 001.000
20228	691	McCREERY	07/03/2023	MWT, LLC	33,200.00	801-901-901.000 901.000	801-000-001.000 001.000
20229	360	COOPER, FROST AND RE	07/03/2023	MWT, LLC	130,500.45	801-901-901.000 901.000	801-000-001.000 001.000
20230	360	COOPER, FROST AND RE	07/03/2023	JACKSON DIR	308,373.30	801-901-901.000 901.000	801-000-001.000 001.000
20231	360	COOPER, FROST AND RE	07/10/2023	ADVANCED D	7,679.98	801-901-901.000 901.000	801-000-001.000 001.000
20232	360	COOPER, FROST AND RE	07/10/2023	ADVANCED D	13,695.67	801-901-901.000 901.000	801-000-001.000 001.000
20233	370	CUMMINGS	07/10/2023	ADVANCED D	4,419.20	801-901-901.000 901.000	801-000-001.000 001.000
20234	370	CUMMINGS	07/10/2023	ADVANCED D	6,628.80	801-901-901.000 901.000	801-000-001.000 001.000
20235	370	CUMMINGS	07/10/2023	ADVANCED D	6,628.80	801-901-901.000 901.000	801-000-001.000 001.000
20236	370	CUMMINGS	07/10/2023	ADVANCED D	6,628.80	801-901-901.000 901.000	801-000-001.000 001.000
20237	370	CUMMINGS	07/10/2023	ADVANCED D	6,628.80	801-901-901.000 901.000	801-000-001.000 001.000
20238	370	CUMMINGS	07/10/2023	ADVANCED D	6,628.80	801-901-901.000 901.000	801-000-001.000 001.000
20239	370	CUMMINGS	07/10/2023	ADVANCED D	6,628.80	801-901-901.000 901.000	801-000-001.000 001.000
20240	750	PARKER INTERCOUNTY	07/10/2023	DOUBLE Ds T	3,900.00	801-901-901.000 901.000	801-000-001.000 001.000
20241	406	DENSMORE, PERKINS & H	07/10/2023	Precision Grad	34,200.00	801-901-901.000 901.000	801-000-001.000 001.000
20242	406	DENSMORE, PERKINS & H	07/10/2023	ST REGIS CUL	22,954.60	801-901-901.000 901.000	801-000-001.000 001.000
20243	573	HUTCHINGS	07/10/2023	M & K Jetting a	1,500.00	801-901-901.000 901.000	801-000-001.000 001.000
20244	261	MCCABE	07/10/2023	M & K Jetting a	255.00	801-901-901.000 901.000	801-000-001.000 001.000
20245	769	POTTER (BENTON)	07/10/2023	The County Jo	176.30	801-901-901.000 901.000	801-000-001.000 001.000
20246	769	POTTER (BENTON)	07/10/2023	Rob Piercefield	70.96	801-901-901.000 901.000	801-000-001.000 001.000
20247	769	POTTER (BENTON)	07/10/2023	Don Cooley	60.48	801-901-901.000 901.000	801-000-001.000 001.000
20248	769	POTTER (BENTON)	07/10/2023	Steve Willard	65.72	801-901-901.000 901.000	801-000-001.000 001.000
20249	619	LEMON	07/10/2023	EATON COUN	60.00	801-901-901.000 901.000	801-000-001.000 001.000
20250	619	LEMON	07/10/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
20251	619	LEMON	07/10/2023	Hubbell, Roth	13,966.11	801-901-901.000 901.000	801-000-001.000 001.000
20252	1011	BELAIRE HILLS	07/10/2023	Hubbell, Roth	21,966.98	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20253	294	BURNS VILLAGE AND EX	07/10/2023	SPICER GROU	437.00	801-901-901.000 901.000	801-000-001.000 001.000
20254	597	JOHN EARL	07/10/2023	SPICER GROU	5,011.50	801-901-901.000 901.000	801-000-001.000 001.000
20255	694	McGILVRA	07/10/2023	SPICER GROU	1,943.75	801-901-901.000 901.000	801-000-001.000 001.000
20256	240	BENTLEY & DEPUE	07/10/2023	SPICER GROU	37,927.13	801-901-901.000 901.000	801-000-001.000 001.000
20257	1023	HARVEST PARK	07/10/2023	SPICER GROU	1,126.50	801-901-901.000 901.000	801-000-001.000 001.000
20258	1023	HARVEST PARK	07/10/2023	Fahey Schultz	2,046.00	801-901-901.000 901.000	801-000-001.000 001.000
20259	1023	HARVEST PARK	07/10/2023	Fahey Schultz	153.00	801-901-901.000 901.000	801-000-001.000 001.000
20260	1023	HARVEST PARK	07/11/2023	Fahey Schultz	92.00	801-901-901.000 901.000	801-000-001.000 001.000
20261	597	JOHN EARL	07/11/2023	Fahey Schultz	53.00	801-901-901.000 901.000	801-000-001.000 001.000
20262	769	POTTER (BENTON)	07/11/2023	Fahey Schultz	2,461.51	801-901-901.000 901.000	801-000-001.000 001.000
20263	619	LEMON	07/11/2023	Fahey Schultz	1,711.00	801-901-901.000 901.000	801-000-001.000 001.000
20264	944	WATSON NO. TWO	07/11/2023	Fahey Schultz	2,504.30	801-901-901.000 901.000	801-000-001.000 001.000
20265	238	BANK INTERCOUNTY	07/11/2023	Fahey Schultz	3,533.50	801-901-901.000 901.000	801-000-001.000 001.000
20266	540	HART INTEROCUNTY	07/11/2023	IONIA COUNT	1,126.39	801-901-901.000 901.000	801-000-001.000 001.000
20267	769	POTTER (BENTON)	07/11/2023	Great Lakes S	375.00	801-901-901.000 901.000	801-000-001.000 001.000
20268	987	WATSON & WATSON: CH	07/11/2023	IRON HORSE E	140,586.21	801-901-901.000 901.000	801-000-001.000 001.000
20269	420	DOXIE AND EXTENSION	07/11/2023	JACKSON DIR	30,250.00	801-901-901.000 901.000	801-000-001.000 001.000
20270	420	DOXIE AND EXTENSION	07/11/2023	JACKSON DIR	14,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20271	861	SMITH AND EVANS INTER	07/17/2023	Vlahakis Cole	1,195.50	801-901-901.000 901.000	801-000-001.000 001.000
20272	409	DILLON	07/17/2023	STANDARD A	13,500.00	801-901-901.000 901.000	801-000-001.000 001.000
20273	619	LEMON	07/17/2023	EATON COUN	30.00	801-901-901.000 901.000	801-000-001.000 001.000
20274	981	WINDSOR	07/17/2023	M & K Jetting a	340.00	801-901-901.000 901.000	801-000-001.000 001.000
20275	430	DIMONDALE ESTATES	07/17/2023	M & K Jetting a	170.00	801-901-901.000 901.000	801-000-001.000 001.000
20276	360	COOPER, FROST AND RE	07/17/2023	LRE Engineers	21,766.63	801-901-901.000 901.000	801-000-001.000 001.000
20277	360	COOPER, FROST AND RE	07/17/2023	LRE Engineers	55,601.05	801-901-901.000 901.000	801-000-001.000 001.000
20278	997	WOODVIEW ESTATES	07/17/2023	LRE Engineers	3,939.64	801-901-901.000 901.000	801-000-001.000 001.000
20279	370	CUMMINGS	07/17/2023	LRE Engineers	4,979.49	801-901-901.000 901.000	801-000-001.000 001.000
20280	493	CROOKED BROOK INTER	07/17/2023	LRE Engineers	2,130.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20281	769	POTTER (BENTON)	07/17/2023	LRE Engineers	1,713.77	801-901-901.000 901.000	801-000-001.000 001.000
20282	406	DENSMORE, PERKINS & H	07/17/2023	LRE Engineers	1,691.27	801-901-901.000 901.000	801-000-001.000 001.000
20283	944	WATSON NO. TWO	07/17/2023	LRE Engineers	3,112.23	801-901-901.000 901.000	801-000-001.000 001.000
20284	549	HIGBY	07/17/2023	LRE Engineers	1,118.12	801-901-901.000 901.000	801-000-001.000 001.000
20285	240	BENTLEY & DEPUE	07/17/2023	MEAD BROTH	440,008.86	801-901-901.000 901.000	801-000-001.000 001.000
20286	944	WATSON NO. TWO	07/17/2023	USA Today Ne	163.25	801-901-901.000 901.000	801-000-001.000 001.000
20287	735	OLIVET SOUTH SIDE	07/17/2023	IRON HORSE E	1,845.66	801-901-901.000 901.000	801-000-001.000 001.000
20288	360	COOPER, FROST AND RE	07/24/2023	ADVANCED D	10,269.26	801-901-901.000 901.000	801-000-001.000 001.000
20289	360	COOPER, FROST AND RE	07/24/2023	ADVANCED D	9,168.08	801-901-901.000 901.000	801-000-001.000 001.000
20290	360	COOPER, FROST AND RE	07/24/2023	ADVANCED D	9,168.08	801-901-901.000 901.000	801-000-001.000 001.000
20291	1011	BELAIRE HILLS	07/24/2023	Clark Hill PLC	540.50	801-901-901.000 901.000	801-000-001.000 001.000
20292	409	DILLON	07/24/2023	ARIZENT	1,535.00	801-901-901.000 901.000	801-000-001.000 001.000
20293	917	TRUMBULL	07/24/2023	ARIZENT	1,535.00	801-901-901.000 901.000	801-000-001.000 001.000
20294	726	NYE AND EATON	07/24/2023	BURKETT EXC	19,800.00	801-901-901.000 901.000	801-000-001.000 001.000
20295	845	SHARP	07/24/2023	BURKETT EXC	16,668.00	801-901-901.000 901.000	801-000-001.000 001.000
20296	355	COLTON	07/24/2023	BURKETT EXC	11,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20297	242	BENTON	07/24/2023	BURKETT EXC	4,125.00	801-901-901.000 901.000	801-000-001.000 001.000
20298	752	PATTERSON & DUBOIS	07/24/2023	Hubbell, Roth	148.50	801-901-901.000 901.000	801-000-001.000 001.000
20299	987	WATSON & WATSON: CH	07/24/2023	Hubbell, Roth	23,673.62	801-901-901.000 901.000	801-000-001.000 001.000
20300	426	DUFFY AND EXTENSION	07/24/2023	Hubbell, Roth	1,253.67	801-901-901.000 901.000	801-000-001.000 001.000
20301	1011	BELAIRE HILLS	07/24/2023	Hubbell, Roth	33,417.00	801-901-901.000 901.000	801-000-001.000 001.000
20302	619	LEMON	07/24/2023	Hubbell, Roth	24,584.47	801-901-901.000 901.000	801-000-001.000 001.000
20303	238	BANK INTERCOUNTY	07/24/2023	C & B LAWN C	800.00	801-901-901.000 901.000	801-000-001.000 001.000
20304	326	CARRIER CREEK	07/24/2023	C & B LAWN C	350.00	801-901-901.000 901.000	801-000-001.000 001.000
20305	326	CARRIER CREEK	07/24/2023	C & B LAWN C	1,000.00	801-901-901.000 901.000	801-000-001.000 001.000
20306	402	DELTA SECTION 17	07/24/2023	C & B LAWN C	350.00	801-901-901.000 901.000	801-000-001.000 001.000
20307	452	FOX RIDGE	07/24/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000
20308	463	FIELDSTONE FARMS AND	07/24/2023	C & B LAWN C	850.00	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20309	570	HUNTINGTON AND BRAN	07/24/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20310	326	CARRIER CREEK	07/24/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000
20311	616	LAZELL	07/24/2023	C & B LAWN C	550.00	801-901-901.000 901.000	801-000-001.000 001.000
20312	616	LAZELL	07/24/2023	C & B LAWN C	2,220.00	801-901-901.000 901.000	801-000-001.000 001.000
20313	686	MURRAY	07/24/2023	C & B LAWN C	200.00	801-901-901.000 901.000	801-000-001.000 001.000
20314	688	MYERS AND HENDERSON	07/24/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20315	688	MYERS AND HENDERSON	07/24/2023	C & B LAWN C	450.00	801-901-901.000 901.000	801-000-001.000 001.000
20316	688	MYERS AND HENDERSON	07/24/2023	C & B LAWN C	500.00	801-901-901.000 901.000	801-000-001.000 001.000
20317	935	WALDO AND BRANCHES	07/24/2023	C & B LAWN C	250.00	801-901-901.000 901.000	801-000-001.000 001.000
20318	238	BANK INTERCOUNTY	07/24/2023	DELTA CHAR	197.24	801-901-901.000 901.000	801-000-001.000 001.000
20319	238	BANK INTERCOUNTY	07/24/2023	CONSUMERS	16.00	801-901-901.000 901.000	801-000-001.000 001.000
20320	326	CARRIER CREEK	07/31/2023	LANSING BOA	59.12	801-901-901.000 901.000	801-000-001.000 001.000
20321	326	CARRIER CREEK	07/31/2023	LANSING BOA	40.38	801-901-901.000 901.000	801-000-001.000 001.000
20322	326	CARRIER CREEK	07/31/2023	LANSING BOA	147.74	801-901-901.000 901.000	801-000-001.000 001.000
20323	240	BENTLEY & DEPUE	07/31/2023	ADVANCED D	7,096.13	801-901-901.000 901.000	801-000-001.000 001.000
20324	360	COOPER, FROST AND RE	07/31/2023	ADVANCED D	435.17	801-901-901.000 901.000	801-000-001.000 001.000
20325	360	COOPER, FROST AND RE	07/31/2023	ADVANCED D	8,149.41	801-901-901.000 901.000	801-000-001.000 001.000
20326	495	GLEN NO. TWO	07/31/2023	Precision Grad	1,210.25	801-901-901.000 901.000	801-000-001.000 001.000
20327	360	COOPER, FROST AND RE	07/31/2023	ADVANCED D	7,640.07	801-901-901.000 901.000	801-000-001.000 001.000
20328	360	COOPER, FROST AND RE	07/31/2023	ADVANCED D	7,512.35	801-901-901.000 901.000	801-000-001.000 001.000
20329	238	BANK INTERCOUNTY	07/31/2023	LANSING BOA	17,727.80	801-901-901.000 901.000	801-000-001.000 001.000
20330	986	WATSON & WATSON: WI	07/31/2023	LANSING BOA	466.44	801-901-901.000 901.000	801-000-001.000 001.000
20331	360	COOPER, FROST AND RE	08/07/2023	ADVANCED D	13,888.55	801-901-901.000 901.000	801-000-001.000 001.000
20332	360	COOPER, FROST AND RE	08/07/2023	ADVANCED D	11,485.68	801-901-901.000 901.000	801-000-001.000 001.000
20333	240	BENTLEY & DEPUE	08/07/2023	MEAD BROTH	210,653.50	801-901-901.000 901.000	801-000-001.000 001.000
20334	691	McCREERY	08/07/2023	DICKINSON W	1,612.50	801-901-901.000 901.000	801-000-001.000 001.000
20335	409	DILLON	08/07/2023	CEI - Civil Engi	543.75	801-901-901.000 901.000	801-000-001.000 001.000
20336	409	DILLON	08/07/2023	CEI - Civil Engi	1,876.50	801-901-901.000 901.000	801-000-001.000 001.000

Drain Orders

Order #	Drain #	Drain Name	Order Date	Vendor Name	Amount	Debit	Credit
20337	409	DILLON	08/07/2023	SPICER GROU	15,592.50	801-901-901.000 901.000	801-000-001.000 001.000
20338	409	DILLON	08/07/2023	SPICER GROU	32,164.00	801-901-901.000 901.000	801-000-001.000 001.000
20339	409	DILLON	08/07/2023	SPICER GROU	40,995.50	801-901-901.000 901.000	801-000-001.000 001.000
20340	214	ALLISON HEIGHTS	08/07/2023	SPICER GROU	18,275.25	801-901-901.000 901.000	801-000-001.000 001.000
20341	420	DOXIE AND EXTENSION	08/07/2023	SPICER GROU	2,074.75	801-901-901.000 901.000	801-000-001.000 001.000
20342	294	BURNS VILLAGE AND EX	08/07/2023	SPICER GROU	442.50	801-901-901.000 901.000	801-000-001.000 001.000
20343	552	HOBART	08/07/2023	SPICER GROU	3,519.75	801-901-901.000 901.000	801-000-001.000 001.000
20344	617	LEE	08/07/2023	SPICER GROU	4,515.75	801-901-901.000 901.000	801-000-001.000 001.000
20345	240	BENTLEY & DEPUE	08/07/2023	SPICER GROU	43,393.51	801-901-901.000 901.000	801-000-001.000 001.000
20346	769	POTTER (BENTON)	08/07/2023	Fahey Schultz	247.00	801-901-901.000 901.000	801-000-001.000 001.000
20347	214	ALLISON HEIGHTS	08/07/2023	Fahey Schultz	23.00	801-901-901.000 901.000	801-000-001.000 001.000
20348	619	LEMON	08/07/2023	Fahey Schultz	339.00	801-901-901.000 901.000	801-000-001.000 001.000
20349	944	WATSON NO. TWO	08/07/2023	Fahey Schultz	17.00	801-901-901.000 901.000	801-000-001.000 001.000
					$8,576,384.02		

Number of Drain Orders: 909

Orders

12/28/2023 02:08 PM

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020350	08/14/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$123,089.85	Demand	MWT, LLC (50930)	08/23/2023	08/23/2023	530067	☑	☐
020351	08/14/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$70,985.47	Demand	IRON HORSE EXCAVATION (62281)	08/23/2023	08/23/2023	530055	☑	☐
020352	08/14/2023	Professional-Financing	801	917 : TRUMBULL	$20,850.00	Demand	Bendzinski & Co. (60390)	08/23/2023	08/23/2023	530036	☑	☐
020353	08/14/2023	Professional-Financing	801	409 : DILLON	$25,150.00	Demand	Bendzinski & Co. (60390)	08/23/2023	08/23/2023	530036	☑	☐
020354	08/14/2023	Publication	801	944 : WATSON NO. TWO	$1,080.00	Demand	ARIZENT (34328)	08/23/2023	08/23/2023	530020	☑	☐
020357	08/14/2023	Maintenance	801	294 : BURNS VILLAGE AND EXTENSION	$22,409.60	Demand	JACKSON DIRT WORKS (12412)	08/23/2023	08/23/2023	530056	☑	☐
020358	08/14/2023	Professional-Legal	801	238 : BANK INTERCOUNTY	$670.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	08/23/2023	08/23/2023	530046	☑	☐
020359	08/14/2023	Professional-Engineering	801	238 : BANK INTERCOUNTY	$64,094.02	Demand	SPICER GROUP INC. (9131)	08/23/2023	08/23/2023	5300798	☑	☐
020360	08/14/2023	Professional-Engineering	801	238 : BANK INTERCOUNTY	$35,745.25	Demand	SPICER GROUP INC. (9131)	08/23/2023	08/23/2023	530079	☑	☐
020361	08/14/2023	Utilities	801	238 : BANK INTERCOUNTY	$627.48	Demand	AT & T (824)	08/23/2023	08/23/2023	530000	☑	☐
020362	08/14/2023	Professional-Financial	801	917 : TRUMBULL	$20,239.00	Demand	DICKINSON WRIGHT PLLC (8608)	08/23/2023	08/23/2023	530042	☑	☐
020363	08/14/2023	Professional-Financial	801	409 : DILLON	$25,468.00	Demand	DICKINSON WRIGHT PLLC (8608)	08/23/2023			☑	☐
020364	08/14/2023	MS4 Catch Basin Cleaning	801	686 : MURRAY	$255.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020365	08/14/2023	MS4 Catch Basin Cleaning	801	590 : JACARANDA NO. TWO	$85.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020366	08/14/2023	MS4 Catch Basin Cleaning	801	569 : HUNTER AND BRANCHES	$85.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020367	08/14/2023	MS4 Catch Basin Cleaning	801	733 : OLD MAID RELAID, HARRIS AND WHALEY	$340.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2002	08/23/2023	530061	☑	☐
020368	08/14/2023	MS4 Catch Basin Cleaning	801	887 : SWEETWATER PINES	$595.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020369	08/14/2023	MS4 Catch Basin Cleaning	801	463 : FIELDSTONE FARMS AND BRANCHES	$340.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020370	08/14/2023	MS4 Catch Basin Cleaning	801	800 : REED	$170.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020371	08/14/2023	MS4 Catch Basin Cleaning	801	463 : FIELDSTONE FARMS AND BRANCHES	$680.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020372	08/14/2023	MS4 Catch Basin Cleaning	801	928 : WILLOW HILLS BRANCH (Waldo)	$510.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020373	08/14/2023	MS4 Catch Basin Cleaning	801	887 : SWEETWATER PINES	$510.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020374	08/14/2023	MS4 Catch Basin Cleaning	801	463 : FIELDSTONE FARMS AND BRANCHES	$170.00	Demand	M & K Jetting and Televising LLC (60039)	08/23/2023	08/23/2023	530061	☑	☐
020375	08/14/2023	Publication - Spray Program	801	338 : CHURCH AND McCLINTIC	$20.44	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020376	08/14/2023	Publication - Spray Program	801	691 : McCREERY	$20.44	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020377	08/14/2023	Publication - Spray Program	801	683 : MUNSON	$20.44	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020378	08/14/2023	Publication - Spray Program	801	495 : GLEN NO. TWO	$20.44	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020379	08/14/2023	Publication - Spray Program	801	694 : McGILVRA	$20.43	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020380	08/14/2023	Publication - Spray Program	801	338 : CHURCH AND McCLINTIC	$26.62	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020381	08/14/2023	Publication - Spray Program	801	691 : McCREERY	$26.62	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020382	08/14/2023	Publication - Spray Program	801	683 : MUNSON	$26.62	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020383	08/14/2023	Publication - Spray Program	801	495 : GLEN NO. TWO	$26.62	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020384	08/14/2023	Publication - Spray Program	801	694 : McGILVRA	$26.62	Demand	The County Journal (42102)	08/23/2023	08/23/2023	530086	☑	☐
020385	08/14/2023	Maintenance	801	253 : BOLLMAN & DAMON & BRANCHES	$250.00	Demand	ROOTER EXPRESS (41207)	08/23/2023	08/23/2023	530075	☑	☐
020386	08/14/2023	Maintenance	801	366 : CRONK AND BRANCH ONE	$525.00	Demand	ROOTER EXPRESS (41207)	08/23/2023	08/23/2023	530075	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020387	08/14/2023	Maintenance	801	314 : WEST WILLOW HEIGHTS	$325.00	Demand	ROOTER EXPRESS (41207)	08/23/2023	08/23/2023	530075	☑	☐
020388	08/21/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$10,700.35	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/30/2023	08/30/2023	530113	☑	☐
020389	08/21/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/30/2023	08/30/2023	530113	☑	☐
020390	08/21/2023	Maintenance Supplies	801	366 : CRONK AND BRANCH ONE	$4,700.93	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/30/2023	08/30/2023	530113	☑	☐
020391	08/21/2023	Professional-Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$3,455.94	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020392	08/21/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$11,604.83	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020393	08/21/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$28,959.48	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020394	08/21/2023	Professional-Engineering	801	997 : WOODVIEW ESTATES	$5,368.78	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020395	08/21/2023	Professional-Engineering	801	370 : CUMMINGS	$17,658.63	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020396	08/21/2023	Professional-Engineering	801	549 : HIGBY	$757.50	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020397	08/21/2023	Professional-Engineering	801	944 : WATSON NO. TWO	$1,020.00	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020398	08/21/2023	Professional-Engineering	801	769 : POTTER (BENTON)	$14,905.44	Demand	LRE Engineers & Surveyors (60811)	08/30/2023	08/30/2023	530146	☑	☐
020399	08/21/2023	Maintenance	801	314 : WEST WILLOW HEIGHTS	$875.00	Demand	M & K Jetting and Televising LLC (60039)	08/30/2023	08/30/2023	530147	☑	☐
020400	08/21/2023	Maintenance	801	209 : ARMSTRONG HILLS	$425.00	Demand	ROOTER EXPRESS (41207)	08/30/2023	08/30/2023	530152	☑	☐
020401	08/21/2023	Professional-Engineering	801	210 : ARNOLD	$26.66	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020402	08/21/2023	Professional-Engineering	801	234 : BEAVER	$26.66	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020403	08/21/2023	Professional-Engineering	801	236 : BELLOWS	$26.66	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020404	08/21/2023	Professional-Engineering	801	306 : BRANCH OF THE DOLAN	$26.66	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020405	08/21/2023	Professional-Engineering	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020406	08/21/2023	Professional-Engineering	801	665 : MILLER (Delta Twp)	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020407	08/21/2023	Professional-Engineering	801	670 : MITCHELL (BENTON)	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020408	08/21/2023	Professional-Engineering	801	683 : MUNSON	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020409	08/21/2023	Professional-Engineering	801	772 : POTTER AND MULLIKEN (EATON ONLY)	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020410	08/21/2023	Professional-Engineering	801	910 : THUMA	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020411	08/21/2023	Professional-Engineering	801	320 : WESTCHARME	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020412	08/21/2023	Professional-Engineering	801	970 : WINCHELL AND UNION	$26.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020413	08/21/2023	Professional-Engineering	801	237 : BENJAMIN AND BRANCH	$353.33	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020414	08/21/2023	Professionial-Engineering	801	767 : PORTER AND EXTENSION	$1,589.99	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020415	08/21/2023	Professional-Engineering	801	345 : COBURN: SOUTH BRANCH	$1,766.65	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020416	08/21/2023	Professional-Engineering	801	865 : SPICER CREEK	$2,208.29	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020417	08/21/2023	Professional-Engineering	801	964 : WILLIS-SHAW	$1,324.99	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020418	08/21/2023	Professioinal-Engineering	801	913 : TOWAR AND BRANCHES	$530.00	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020419	08/21/2023	Professional-Engineering	801	776 : PRATT	$265.00	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020420	08/21/2023	Professional-Engineering	801	397 : DEER	$265.00	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020421	08/21/2023	Professional-Engineering	801	400 : DELTA MILLS	$176.67	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020422	08/21/2023	Professional-Engineering	801	982 : WESTON	$353.33	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020423	08/21/2023	Professional-Engineering	801	237 : BENJAMIN AND BRANCH	$140.91	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020424	08/21/2023	Professonal-Engineering	801	767 : PORTER AND EXTENSION	$634.10	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020425	08/21/2023	Professional-Engineering	801	345 : COBURN: SOUTH BRANCH	$704.55	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020426	08/21/2023	Professional-Engineering	801	865 : SPICER CREEK	$880.69	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020427	08/21/2023	Professional-Engineering	801	964 : WILLIS-SHAW	$528.41	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020428	08/21/2023	Professional-Engineering	801	913 : TOWAR AND BRANCHES	$211.36	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020429	08/21/2023	Professional-Engineering	801	776 : PRATT	$105.68	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020430	08/21/2023	Professional-Engineering	801	397 : DEER	$105.68	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020431	08/21/2023	Professional-Engineering	801	400 : DELTA MILLS	$70.46	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020432	08/21/2023	Professional-Engineering	801	982 : WESTON	$140.91	Demand	SPICER GROUP INC. (9131)	08/30/2023	08/30/2023	530153	☑	☐
020433	08/21/2023	Maintenance	801	493 : CROOKED BROOK INTERCOUNTY	$47,794.60	Demand	J. SEBASTIAN TRUCKING AND (25637)	08/30/2023	08/30/2023	530145	☑	☐
020434	08/21/2023	Professional-Engineering	801	426 : DUFFY AND EXTENSION	$752.44	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/30/2023	08/30/2023	530144	☑	☐
020435	08/21/2023	Professional-Engineering	801	752 : PATTERSON & DUBOIS	$371.25	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/30/2023	08/30/2023	530144	☑	☐
020436	08/21/2023	Utilites	801	238 : BANK INTERCOUNTY	$14.48	Demand	CONSUMERS ENERGY (6659)	08/30/2023	08/30/2023	530115	☑	☐
020437	08/28/2023	maintenance	801	452 : FOX RIDGE	$340.00	Demand	M & K Jetting and Televising LLC (60039)	09/06/2023	09/06/2023	530271	☑	☐
020438	08/28/2023	maintenance	801	452 : FOX RIDGE	$85.00	Demand	M & K Jetting and Televising LLC (60039)	09/06/2023	09/06/2023	530271	☑	☐
020439	08/28/2023	Maintenance	801	924 : UPTON	$340.00	Demand	M & K Jetting and Televising LLC (60039)	09/06/2023	09/06/2023	530271	☑	☐
020440	08/28/2023	Utilities	801	238 : BANK INTERCOUNTY	$197.24	Demand	DELTA CHARTER TOWNSHIP (1999)	09/06/2023	09/06/2023	530206	☑	☐
020441	08/28/2023	maintenance	801	245 : BIG THORNAPPLE	$960.00	Demand	M.T. Bell Excavating and Dirt Works (61482)	09/06/2023	09/06/2023	530278	☑	☐
020442	08/28/2023	Engineering	801	619 : LEMON	$8,213.13	Demand	Hubbell, Roth & Clark, Inc. (60657)	09/06/2023	09/06/2023	530261	☑	☐
020443	08/28/2023	Engineering	801	1011 : BELAIRE HILLS	$4,197.56	Demand	Hubbell, Roth & Clark, Inc. (60657)	09/06/2023	09/06/2023	530261	☑	☐
020444	08/28/2023	Maintenance	801	688 : MYERS AND HENDERSON	$750.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020445	08/28/2023	Maintenance	801	402 : DELTA SECTION 17	$525.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020446	08/28/2023	Maintenance	801	452 : FOX RIDGE	$750.00	Demand	C & B LAWN CARE (52381)		09/06/2023	530243	☑	☐
020447	08/28/2023	Maintenance	801	935 : WALDO AND BRANCHES	$375.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020448	08/28/2023	Maintenance	801	688 : MYERS AND HENDERSON	$750.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020449	08/28/2023	Maintenance	801	616 : LAZELL	$825.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020450	08/28/2023	Maintenance	801	570 : HUNTINGTON AND BRANCHES	$375.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020451	08/28/2023	Maintenance	801	326 : CARRIER CREEK	$750.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020452	08/28/2023	Maintenance	801	686 : MURRAY	$300.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020453	08/28/2023	Maintenance	801	326 : CARRIER CREEK	$1,500.00	Demand	C & B LAWN CARE (52381)	09/06/2023		530243	☑	☐
020454	08/28/2023	Maintenance	801	688 : MYERS AND HENDERSON	$375.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020455	08/28/2023	Maintenance	801	616 : LAZELL	$2,960.00	Demand	C & B LAWN CARE (52381)	09/06/2023	09/06/2023	530243	☑	☐
020456	08/28/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$13,217.93	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	09/06/2023	09/06/2023	530205	☑	☐
020457	08/28/2023	Engineering	801	495 : GLEN NO. TWO	$5,854.00	Demand	CEI - Civil Engineers, Inc. (33986)	09/06/2023	09/06/2023	530246	☑	☐
020458	08/31/2023	maintenance	801	463 : FIELDSTONE FARMS AND BRANCHES	$800.00	Demand	C & B LAWN CARE (52381)	09/13/2023	09/06/2023	530242	☑	☐
020459	08/31/2023	maintenance	801	326 : CARRIER CREEK	$200.00	Demand	C & B LAWN CARE (52381)	09/13/2023	09/06/2023	530242	☑	☐
020460	08/31/2023	Maintenance	801	326 : CARRIER CREEK	$100.00	Demand	C & B LAWN CARE (52381)	09/13/2023	09/06/2023	530242	☑	☐
020461	08/31/2023	Maintenance	801	935 : WALDO AND BRANCHES	$700.00	Demand	C & B LAWN CARE (52381)	09/13/2023	09/06/2023	530242	☑	☐
020462	08/31/2023	Maintenance	801	326 : CARRIER CREEK	$100.00	Demand	C & B LAWN CARE (52381)	09/13/2023	09/06/2023	530242	☑	☐
020463	08/31/2023	Maintenance	801	323 : CARMAN	$125.00	Demand	C & B LAWN CARE (52381)	09/13/2023	09/06/2023	530242	☑	☐
020464	08/31/2023	Maintenance	801	366 : CRONK AND BRANCH ONE	$7,810.00	Demand	BURKETT EXCAVATING (4658)	09/13/2023	09/06/2023	530241	☑	☐
020465	08/31/2023	Maintenance	801	340 : CLAFLIN	$74,893.00	Demand	BURKETT EXCAVATING (4658)	09/13/2023	09/06/2023	530241	☑	☐
020466	08/31/2023	Maintenance	801	245 : BIG THORNAPPLE	$12,096.00	Demand	BURKETT EXCAVATING (4658)	09/13/2023	09/06/2023	530241	☑	☐
020467	08/31/2023	Utilities	801	326 : CARRIER CREEK	$57.82	Demand	LANSING BOARD OF WATER & LIGHT (18094)	09/13/2023	09/06/2023	530210	☑	☐
020468	08/31/2023	Utilities	801	326 : CARRIER CREEK	$159.64	Demand	LANSING BOARD OF WATER & LIGHT (18094)	09/13/2023	09/06/2023	530211	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020469	08/31/2023	Utilities	801	326 : CARRIER CREEK	$40.23	Demand	LANSING BOARD OF WATER & LIGHT (18094)	09/13/2023	09/06/2023	530212	☑	☐
020470	08/31/2023	Engineering	801	547 : HETRICK	$11,432.50	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020471	08/31/2023	Engineering	801	547 : HETRICK	$9,177.00	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020472	08/31/2023	Engineering	801	547 : HETRICK	$4,951.25	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020473	08/31/2023	Engineering	801	617 : LEE	$6,932.50	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020474	08/31/2023	Engineering	801	552 : HOBART	$2,633.75	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020475	08/31/2023	Engineering	801	694 : McGILVRA	$6,498.75	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020476	08/31/2023	Engineering	801	294 : BURNS VILLAGE AND EXTENSION	$510.00	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020477	08/31/2023	Engineering	801	240 : BENTLEY & DEPUE	$24,103.13	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020478	08/31/2023	Engineering	801	920 : THORNAPPLE AND EXTENSION	$650.00	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020479	08/31/2023	Engineering	801	659 : MICHIGAN AVENUE AND BRANCHES	$450.00	Demand	SPICER GROUP INC. (9131)	09/13/2023	09/06/2023	530289	☑	☐
020480	08/31/2023	Maintenance	801	338 : CHURCH AND McCLINTIC	$10,077.59	Demand	C.L. Trucking & Excavating, LLC (50836)	09/13/2023	09/06/2023	530249	☑	☐
020481	08/31/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$532.86	Demand	LANSING BOARD OF WATER & LIGHT (18094)	09/13/2023	09/06/2023	530213	☑	☐
020482	09/08/2023	Legal	801	619 : LEMON	$1,075.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	09/20/2023	09/19/2023	530725	☑	☐
020483	09/08/2023	Legal	801	214 : ALLISON HEIGHTS	$280.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	09/20/2023	09/19/2023	530725	☑	☐
020484	09/08/2023	Legal	801	221 : BARHYTE	$115.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	09/20/2023	09/19/2023	530725	☑	☐
020485	09/08/2023	Legal	801	238 : BANK INTERCOUNTY	$1,296.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	09/20/2023	09/19/2023	530725	☑	☐
020486	09/08/2023	engineering	801	238 : BANK INTERCOUNTY	$57,203.45	Demand	SPICER GROUP INC. (9131)	09/20/2023	09/19/2023	530750	☑	☐
020487	09/08/2023	Maintenance Supplies	801	238 : BANK INTERCOUNTY	$314.30	Demand	Ferguson Waterworks (15630)	09/20/2023	09/19/2023	530726	☑	☐
020488	09/08/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$117,614.70	Demand	MWT, LLC (50930)	09/20/2023	09/19/2023	530738	☑	☐
020489	09/08/2023	Maintenance	801	997 : WOODVIEW ESTATES	$38,747.56	Demand	C.L. Trucking & Excavating, LLC (50836)	09/20/2023	09/19/2023	530720	☑	☐
020490	09/11/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$61.44	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	09/20/2023	09/19/2023	530691	☑	☐
020491	09/11/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$12,287.97	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	09/20/2023	09/19/2023	530691	☑	☐
020492	09/11/2023	Utilities	801	238 : BANK INTERCOUNTY	$612.25	Demand	AT & T (824)	09/20/2023	09/19/2023	530692	☑	☐
020493	09/18/2023	Maintenance	801	326 : CARRIER CREEK	$350.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020494	09/18/2023	Maintenance	801	935 : WALDO AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020495	09/18/2023	Maintenance	801	452 : FOX RIDGE	$500.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020496	09/18/2023	Maintenance	801	402 : DELTA SECTION 17	$350.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020497	09/18/2023	Maintenance	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020498	09/18/2023	Maintenance	801	688 : MYERS AND HENDERSON	$450.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020499	09/18/2023	Maintenance	801	616 : LAZELL	$550.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020500	09/18/2023	Maintenance	801	570 : HUNTINGTON AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020501	09/18/2023	Maintenance	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020502	09/18/2023	Maintenance	801	686 : MURRAY	$200.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020503	09/18/2023	Maintenance	801	326 : CARRIER CREEK	$1,000.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020504	09/18/2023	Maintenance	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020505	09/18/2023	Maintenance	801	616 : LAZELL	$2,220.00	Demand	C & B LAWN CARE (52381)	10/04/2023	09/27/2023	530828	☑	☐
020506	09/18/2023	Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$120.00	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020507	09/18/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$5,809.56	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020508	09/18/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$20,787.78	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020509	09/18/2023	Engineering	801	338 : CHURCH AND McCLINTIC	$997.29	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020510	09/18/2023	Engineering	801	997 : WOODVIEW ESTATES	$4,475.32	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020511	09/18/2023	Engineering	801	370 : CUMMINGS	$36,681.69	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020512	09/18/2023	Engineering	801	549 : HIGBY	$1,492.50	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020513	09/18/2023	Engineering	801	944 : WATSON NO. TWO	$130.00	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020514	09/18/2023	Engineering	801	406 : DENSMORE, PERKINS & FISH CREEK	$2,969.79	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020515	09/18/2023	Engineering	801	769 : POTTER (BENTON)	$7,434.79	Demand	LRE Engineers & Surveyors (60811)	10/04/2023		5330842	☑	☐
020516	09/18/2023	Engineering	801	976 : WRIGHT, PARDEE AND MAXSON	$4,908.86	Demand	LRE Engineers & Surveyors (60811)	10/04/2023	09/27/2023	530842	☑	☐
020517	09/18/2023	Maintenance Supplies	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$624.10	Demand	EJ USA Inc. (East Jordan) (60648)	10/04/2023	09/27/2023	530837	☑	☐
020518	09/18/2023	2023 Summer Tax	801	238 : BANK INTERCOUNTY	$417.61	Demand	DELTA CHARTER TOWNSHIP (1999)	10/04/2023	09/27/2023	530792	☑	☐
020519	09/18/2023	2023 Summer Tax	801	238 : BANK INTERCOUNTY	$2,117.33	Demand	DELTA CHARTER TOWNSHIP (1999)	10/04/2023	09/27/2023	530792	☑	☐
020520	09/18/2023	2023 Summer Tax	801	238 : BANK INTERCOUNTY	$30,327.90	Demand	DELTA CHARTER TOWNSHIP (1999)	10/04/2023	09/27/2023	530792	☑	☐
020521	09/18/2023	Maintenance	801	240 : BENTLEY & DEPUE	$266,131.49	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	10/04/2023	09/27/2023	530846	☑	☐
020522	09/25/2023	Maintenance	801	370 : CUMMINGS	$499,264.20	Demand	JACKSON DIRT WORKS (12412)	10/04/2023	09/29/2023	531014	☑	☐
020523	09/25/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$281,408.40	Demand	JACKSON DIRT WORKS (12412)	10/04/2023	09/29/2023	531014	☑	☐
020524	09/25/2023	Maintenance	801	981 : WINDSOR	$3,000.00	Demand	ANDERSON CONSTRUCTION AND CONCRETE (61998)	10/04/2023	09/29/2023	530979	☑	☐
020525	09/25/2023	Engineering	801	619 : LEMON	$4,149.19	Demand	Hubbell, Roth & Clark, Inc. (60657)	10/04/2023	09/29/2023	531012	☑	☐
020526	09/25/2023	Engineering	801	426 : DUFFY AND EXTENSION	$338.04	Demand	Hubbell, Roth & Clark, Inc. (60657)	10/04/2023	09/29/2023	531012	☑	☐
020527	09/25/2023	Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$2,008.50	Demand	Hubbell, Roth & Clark, Inc. (60657)	10/04/2023	09/29/2023	531012	☑	☐
020528	09/25/2023	Legal	801	944 : WATSON NO. TWO	$12,140.00	Demand	DICKINSON WRIGHT PLLC (8608)	10/04/2023	09/29/2023	531005	☑	☐
020529	09/25/2023	Financial	801	944 : WATSON NO. TWO	$10,450.00	Demand	Bendzinski & Co. (60390)	10/04/2023	09/29/2023	530988	☑	☐
020530	09/25/2023	Legal Services	801	1011 : BELAIRE HILLS	$47.00	Demand	Clark Hill PLC (52628)	10/04/2023	09/29/2023	530997	☑	☐
020531	09/25/2023	Utilities	801	238 : BANK INTERCOUNTY	$197.24	Demand	DELTA CHARTER TOWNSHIP (1999)	10/04/2023	09/29/2023	530962	☑	☐
020532	09/25/2023	Maintenance Supplies	801	370 : CUMMINGS	$15,450.00	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/04/2023	09/29/2023	530961	☑	☐
020533	09/25/2023	Maintenance Supplies	801	370 : CUMMINGS	$10,700.34	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/04/2023	09/29/2023	530961	☑	☐
020534	10/02/2023	Maintenance	801	341 : CLARKE INTERCOUNTY	$172.38	Demand	Ingham County Drain Commissioner (51786)	10/11/2023	10/11/2023	531265	☑	☐
020535	10/02/2023	Maintenance	801	309 : BARRETT (Eaton Rapids)	$850.00	Demand	ROOTER EXPRESS (41207)	10/11/2023	10/11/2023	531285	☑	☐
020536	10/02/2023	Maintenance	801	291 : BURNS	$325.00	Demand	ROOTER EXPRESS (41207)	10/11/2023	10/11/2023	531285	☑	☐
020537	10/02/2023	Maintenance	801	688 : MYERS AND HENDERSON	$325.00	Demand	ROOTER EXPRESS (41207)	10/11/2023	10/11/2023	531285	☑	☐
020538	10/02/2023	Utilities	801	238 : BANK INTERCOUNTY	$1.40	Demand	CONSUMERS ENERGY (6659)	10/11/2023	10/11/2023	531220	☑	☐
020539	10/02/2023	Maintenance	801	688 : MYERS AND HENDERSON	$3,200.00	Demand	M & M Outdoor Services (49448)	10/11/2023	10/11/2023	531277	☑	☐
020540	10/02/2023	Maintenance	801	326 : CARRIER CREEK	$525.00	Demand	C & B LAWN CARE (52381)	10/11/2023	10/11/2023	531255	☑	☐
020541	10/02/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,640.07	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/11/2023	10/11/2023	531219	☑	☐
020542	10/02/2023	Engineering	801	552 : HOBART	$2,474.75	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020543	10/02/2023	Engineering	801	694 : McGILVRA	$1,852.75	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020544	10/02/2023	Engineering	801	294 : BURNS VILLAGE AND EXTENSION	$1,041.25	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020545	10/02/2023	Enginnering	801	547 : HETRICK	$9,482.00	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020546	10/02/2023	Engineering	801	240 : BENTLEY & DEPUE	$31,399.13	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020547	10/02/2023	Engineering	801	490 : GARVEY	$5,899.65	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020548	10/02/2023	Engineering	801	409 : DILLON	$10,640.25	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020549	10/02/2023	Engineering	801	237 : BENJAMIN AND BRANCH	$341.29	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020550	10/02/2023	Engineering	801	767 : PORTER AND EXTENSION	$1,535.80	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020551	10/02/2023	Engineering	801	345 : COBURN: SOUTH BRANCH	$1,706.45	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020552	10/02/2023	Engineering	801	865 : SPICER CREEK	$2,133.06	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020553	10/02/2023	Engineering	801	964 : WILLIS-SHAW	$1,279.84	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020554	10/02/2023	Engineering	801	913 : TOWAR AND BRANCHES	$511.93	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020555	10/02/2023	Engineering	801	776 : PRATT	$255.97	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020556	10/02/2023	Engineering	801	397 : DEER	$255.97	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020557	10/02/2023	Engineering	801	400 : DELTA MILLS	$170.65	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020558	10/02/2023	Engineering	801	982 : WESTON	$341.29	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020559	10/02/2023	Engineering	801	237 : BENJAMIN AND BRANCH	$74.40	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020560	10/02/2023	Engineering	801	767 : PORTER AND EXTENSION	$334.80	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020561	10/02/2023	Engineering	801	345 : COBURN: SOUTH BRANCH	$372.00	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020562	10/02/2023	Engineering	801	865 : SPICER CREEK	$465.00	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020563	10/02/2023	Engineering	801	964 : WILLIS-SHAW	$279.00	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020564	10/02/2023	Engineering	801	913 : TOWAR AND BRANCHES	$111.60	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020565	10/02/2023	Engineering	801	776 : PRATT	$55.80	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020566	10/02/2023	Engineering	801	397 : DEER	$55.80	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020567	10/02/2023	Engineering	801	400 : DELTA MILLS	$37.20	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020568	10/02/2023	Engineering	801	982 : WESTON	$74.40	Demand	SPICER GROUP INC. (9131)	10/11/2023	10/11/2023	531287	☑	☐
020569	10/02/2023	Engineering	801	495 : GLEN NO. TWO	$2,194.50	Demand	CEI - Civil Engineers, Inc. (33986)	10/11/2023	10/11/2023	531257	☑	☐
020570	10/02/2023	Utilities	801	326 : CARRIER CREEK	$157.37	Demand	LANSING BOARD OF WATER & LIGHT (18094)	10/11/2023	10/11/2023	531221	☑	☐
020571	10/02/2023	Utilities	801	326 : CARRIER CREEK	$65.31	Demand	LANSING BOARD OF WATER & LIGHT (18094)	10/11/2023	10/11/2023	531222	☑	☐
020572	10/02/2023	Utilities	801	326 : CARRIER CREEK	$41.26	Demand	LANSING BOARD OF WATER & LIGHT (18094)	10/11/2023	10/11/2023	531223	☑	☐
020573	10/09/2023	Maintenance	801	821 : RUSSELL	$585.00	Demand	ROOTER EXPRESS (41207)	10/18/2023	10/17/2023	531587	☑	☐
020574	10/09/2023	Maintenance	801	688 : MYERS AND HENDERSON	$685.00	Demand	ROOTER EXPRESS (41207)	10/18/2023	10/17/2023	531587	☑	☐
020575	10/09/2023	Maintenance Supplies	801	370 : CUMMINGS	$10,370.40	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/18/2023	10/17/2023	531513	☑	☐
020576	10/09/2023	Maintenance Supplies	801	370 : CUMMINGS	$10,370.40	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/18/2023	10/17/2023	531513	☑	☐
020577	10/09/2023	Maintenance Supplies	801	370 : CUMMINGS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/18/2023	10/17/2023	531513	☑	☐
020578	10/09/2023	Legal	801	954 : WHITE & CARPENTER INTERCOUNTY	$308.00	Demand	Ingham County Drain Commissioner (51786)	10/18/2023	10/17/2023	531555	☑	☐
020579	10/09/2023	Engineering	801	238 : BANK INTERCOUNTY	$61,096.78	Demand	SPICER GROUP INC. (9131)	10/18/2023	10/17/2023	531590	☑	☐
020580	10/09/2023	Maintenance	801	336 : CHILDS	$20,000.00	Demand	BURKETT EXCAVATING (4658)	10/18/2023	10/17/2023	531550	☑	☐
020581	10/09/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$523.71	Demand	LANSING BOARD OF WATER & LIGHT (18094)	10/18/2023	10/17/2023	531514	☑	☐
020582	10/09/2023	Maintenance	801	338 : CHURCH AND McCLINTIC	$280.30	Demand	DeCamp A.D.C. (62099)	10/18/2023	10/17/2023	531556	☑	☐
020583	10/09/2023	Maintenance	801	309 : BARRETT (Eaton Rapids)	$2,300.00	Demand	M.T. Bell Excavating and Dirt Works (61482)	10/18/2023	10/17/2023	531576	☑	☐
020584	10/09/2023	Maintenance	801	245 : BIG THORNAPPLE	$1,280.00	Demand	M.T. Bell Excavating and Dirt Works (61482)	10/18/2023	10/17/2023	531576	☑	☐
020585	10/09/2023	Legal	801	495 : GLEN NO. TWO	$69.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	10/18/2023	10/17/2023	531563	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020586	10/09/2023	Legal	801	549 : HIGBY	$368.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	10/18/2023	10/17/2023	531563	☑	☐
020587	10/09/2023	Legal	801	214 : ALLISON HEIGHTS	$20.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	10/18/2023	10/17/2023	531563	☑	☐
020588	10/09/2023	Maintenance	801	370 : CUMMINGS	$584,309.36	Demand	JACKSON DIRT WORKS (12412)	10/18/2023	10/17/2023	531567	☑	☐
020589	10/09/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$105,272.10	Demand	MWT, LLC (50930)	10/18/2023	10/17/2023	531577	☑	☐
020590	10/13/2023	Maintenance	801	688 : MYERS AND HENDERSON	$255.60	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020591	10/13/2023	Maintenance	801	733 : OLD MAID RELAID, HARRIS AND WHALEY	$5,755.44	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020592	10/13/2023	Maintenance	801	752 : PATTERSON & DUBOIS	$3,719.76	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020593	10/13/2023	Maintenance	801	773 : POTTER AND MULLIKEN OUTLET INTERCOUNTY	$138.96	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020594	10/13/2023	Maintenance	801	776 : PRATT	$223.68	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020595	10/13/2023	Maintenance	801	920 : THORNAPPLE AND EXTENSION	$4,579.92	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020596	10/13/2023	Maintenance	801	910 : THUMA	$1,564.80	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020597	10/13/2023	Maintenance	801	944 : WATSON NO. TWO	$175.20	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020598	10/13/2023	Maintenance	801	970 : WINCHELL AND UNION	$3,126.96	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020599	10/13/2023	Maintenance	801	974 : WOOD	$36.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020600	10/13/2023	Maintenance	801	218 : BAKER	$811.20	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020601	10/13/2023	Maintenance	801	245 : BIG THORNAPPLE	$9,248.64	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020602	10/13/2023	Maintenance	801	288 : BUCHANAN	$96.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020603	10/13/2023	Maintenance	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$3,910.80	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020604	10/13/2023	Maintenance	801	351 : COLE, WRIGHT AND HELMS	$1,473.60	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020605	10/13/2023	Maintenance	801	364 : COX	$156.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020606	10/13/2023	Maintenance	801	365 : CRANDALL	$528.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020607	10/13/2023	Maintenance	801	387 : DANN	$1,032.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020608	10/13/2023	Maintenance	801	406 : DENSMORE, PERKINS & FISH CREEK	$3,550.32	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020609	10/13/2023	Maintenance	801	413 : DIVINE	$835.68	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020610	10/13/2023	Maintenance	801	490 : GARVEY	$1,267.20	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020611	10/13/2023	Maintenance	801	514 : GUINAN AND EXTENSION	$2,077.44	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020612	10/13/2023	Maintenance	801	549 : HIGBY	$156.96	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020613	10/13/2023	Maintenance	801	553 : HOGLE AND MILLER INTERCOUNTY	$848.40	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020614	10/13/2023	Maintenance	801	589 : JACARANDA NO. THREE	$264.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020615	10/13/2023	Maintenance	801	597 : JOHN EARL	$3,319.44	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020616	10/13/2023	Maintenance	801	598 : JOHNSON	$634.08	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020617	10/13/2023	Maintenance	801	636 : LITTLE THORNAPPLE	$4,055.04	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020618	10/13/2023	Maintenance	801	693 : McDONALD	$854.40	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020619	10/13/2023	Maintenance	801	696 : McMULLEN and BRANCHES	$636.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020620	10/13/2023	Maintenance	801	699 : McPHEE	$704.16	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020621	10/13/2023	Maintenance	801	661 : MILBOURN EAST AND WEST EXTENSION	$1,920.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020622	10/13/2023	Maintenance	801	667 : MILLS AND BLY	$708.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020623	10/13/2023	Maintenance	801	683 : MUNSON	$1,267.20	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020624	10/13/2023	Maintenance	801	355 : COLTON	$533.28	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020625	10/16/2023	Maintenance	801	597 : JOHN EARL	$350.00	Demand	Right of Way MGMT (61762)	10/25/2023	10/25/2023	531724	☑	☐
020626	10/16/2023	Maintenance	801	696 : McMULLEN and BRANCHES	$14,375.00	Demand	BURKETT EXCAVATING (4658)	10/25/2023	10/25/2023	531692	☑	☐
020627	10/16/2023	Maintenance	801	842 : SIDWELL & RELAID MILLS	$16,000.00	Demand	BURKETT EXCAVATING (4658)	10/25/2023	10/25/2023	531692	☑	☐
020628	10/16/2023	Maintenance	801	565 : HUBER EXTENSION	$14,992.00	Demand	BURKETT EXCAVATING (4658)	10/25/2023	10/25/2023	531635	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020629	10/16/2023	Maintenance	801	566 : HUBER	$6,032.00	Demand	BURKETT EXCAVATING (4658)	10/25/2023	10/25/2023	531692	☑	☐
020630	10/16/2023	Maintenance	801	275 : BROADBENT WOODS	$325.00	Demand	ROOTER EXPRESS (41207)	10/25/2023	10/25/2023	531725	☑	☐
020631	10/16/2023	Maintenance	801	752 : PATTERSON & DUBOIS	$744.65	Demand	Precision Grade Excavating (53323)	10/25/2023	10/25/2023	531719	☑	☐
020632	10/16/2023	Maintnance	801	724 : NICKLE	$457.95	Demand	Precision Grade Excavating (53323)	10/25/2023	10/25/2023	531719	☑	☐
020633	10/16/2023	Maintenance	801	924 : UPTON	$1,125.42	Demand	Precision Grade Excavating (53323)	10/25/2023	10/25/2023	531719	☑	☐
020634	10/16/2023	Maintenance	801	370 : CUMMINGS	$9,859.30	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/25/2023	10/25/2023	531648	☑	☐
020635	10/16/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/25/2023	10/25/2023	531648	☑	☐
020636	10/16/2023	Maintenance Supplies	801	370 : CUMMINGS	$3,090.00	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/25/2023	10/25/2023	531648	☑	☐
020637	10/16/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/25/2023	10/25/2023	531648	☑	☐
020638	10/16/2023	Maintenance Supplies	801	370 : CUMMINGS	$2,592.60	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/25/2023	10/25/2023	531648	☑	☐
020639	10/16/2023	Maintenance Supplies	801	291 : BURNS	$1,151.11	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	10/25/2023	10/25/2023	531648	☑	☐
020640	10/16/2023	Engineering	801	619 : LEMON	$5,175.87	Demand	Hubbell, Roth & Clark, Inc. (60657)	10/25/2023	10/25/2023	531706	☑	☐
020641	10/16/2023	Engineering	801	1011 : BELAIRE HILLS	$799.37	Demand	Hubbell, Roth & Clark, Inc. (60657)	10/25/2023	10/25/2023	531706	☑	☐
020642	10/16/2023	Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$17,412.63	Demand	Hubbell, Roth & Clark, Inc. (60657)	10/25/2023	10/25/2023	531706	☑	☐
020643	10/16/2023	Maintenance	801	903 : THOMAS (Roxand/Sunfield)	$950.00	Demand	Kepitis Farms LLC (61925)	10/25/2023	10/25/2023	531708	☑	☐
020644	10/16/2023	Utilities	801	238 : BANK INTERCOUNTY	$633.32	Demand	AT & T (824)	10/25/2023	10/25/2023	531649	☑	☐
020645	10/16/2023	Legal	801	238 : BANK INTERCOUNTY	$1,722.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	10/25/2023	10/25/2023	531702	☑	☐
020646	10/23/2023	Maintenance	801	733 : OLD MAID RELAID, HARRIS AND WHALEY	$1,400.00	Demand	M & M Outdoor Services (49448)	11/01/2023	11/01/2023	531820	☑	☐
020647	10/23/2023	Maintenance	801	338 : CHURCH AND McCLINTIC	$280.30	Demand	DeCamp A.D.C. (62099)	11/01/2023	11/01/2023	531808	☑	☐
020648	10/23/2023	Maintenance	801	844 : SHANTY BROOK	$35,200.00	Demand	BURKETT EXCAVATING (4658)	11/01/2023	11/01/2023	531802	☑	☐
020649	10/23/2023	Maintenance	801	409 : DILLON	$224,642.41	Demand	MID-MICHIGAN PONDS (46321)	11/01/2023	11/01/2023	531826	☑	☐
020650	10/23/2023	Legal	801	1011 : BELAIRE HILLS	$900.31	Demand	Clark Hill PLC (52628)	11/01/2023	11/01/2023	531804	☑	☐
020651	10/23/2023	Legal	801	360 : COOPER, FROST AND REYNOLDS	$70.50	Demand	Clark Hill PLC (52628)	11/01/2023	11/01/2023	531804	☑	☐
020652	10/23/2023	Legal	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$547.80	Demand	Clark Hill PLC (52628)	11/01/2023	11/01/2023	531804	☑	☐
020653	10/23/2023	Maintenance Supplies	801	370 : CUMMINGS	$5,437.53	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/01/2023	11/01/2023	531775	☑	☐
020654	10/23/2023	Maintenance Supplies	801	370 : CUMMINGS	$3,314.40	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/01/2023	11/01/2023	531775	☑	☐
020655	10/23/2023	Maintenance Supplies	801	370 : CUMMINGS	$356.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/01/2023	11/01/2023	531775	☑	☐
020656	10/23/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$107.45	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/01/2023	11/01/2023	531775	☑	☐
020657	10/23/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$10,190.91	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/01/2023	11/01/2023	531775	☑	☐
020658	10/23/2023	Engineering	801	944 : WATSON NO. TWO	$891.53	Demand	LRE Engineers & Surveyors (60811)	11/01/2023	11/01/2023	531817	☑	☐
020659	10/23/2023	Engineering	801	370 : CUMMINGS	$75,054.07	Demand	LRE Engineers & Surveyors (60811)	11/01/2023	11/01/2023	531817	☑	☐
020660	10/23/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$24,485.02	Demand	LRE Engineers & Surveyors (60811)	11/01/2023	11/01/2023	531817	☑	☐
020661	10/23/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$4,845.33	Demand	LRE Engineers & Surveyors (60811)	11/01/2023	11/01/2023	531817	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020662	10/23/2023	Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$1,307.50	Demand	LRE Engineers & Surveyors (60811)	11/01/2023	11/01/2023	531817	☑	☐
020663	10/26/2023	July 2023 Maintenance Hours JL	801	227 : BASELINE DEVIL'S LAKE INTERCOUNTY	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020664	10/26/2023	July 2023 Maintenance Hours JL	801	245 : BIG THORNAPPLE	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020665	10/26/2023	July 2023 Maintenance Hours JL	801	326 : CARRIER CREEK	$63.82	Maint Inspection Hours		09/30/2023			☑	☐
020666	10/26/2023	July 2023 Maintenance Hours JL	801	406 : DENSMORE, PERKINS & FISH CREEK	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020667	10/26/2023	July 2023 Maintenance Hours JL	801	495 : GLEN NO. TWO	$127.65	Maint Inspection Hours		09/30/2023			☑	☐
020668	10/26/2023	July 2023 Maintenance Hours JL	801	553 : HOGLE AND MILLER INTERCOUNTY	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020669	10/26/2023	July 2023 Maintenance Hours JL	801	612 : LORA INTERCOUNTY	$127.65	Maint Inspection Hours		09/30/2023			☑	☐
020670	10/26/2023	July 2023 Maintenance Hours JL	801	636 : LITTLE THORNAPPLE	$63.82	Maint Inspection Hours		09/30/2023			☑	☐
020671	10/26/2023	July 2023 Maintenance Hours	801	663 : MILES	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020672	10/26/2023	July 2023 Maintenance Hours JL	801	668 : MILLS AND POST	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020673	10/26/2023	July 2023 Maintenance Hours JL	801	669 : MILLS AND PRICHARD	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020674	10/26/2023	July 2023 Maintenance Hours JL	801	696 : McMULLEN and BRANCHES	$170.19	Maint Inspection Hours		09/30/2023			☑	☐
020675	10/26/2023	July 2023 Maintenance Hours JL	801	724 : NICKLE	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020676	10/26/2023	July 2023 Maintenance Hours JL	801	752 : PATTERSON & DUBOIS	$63.82	Maint Inspection Hours		09/30/2023			☑	☐
020677	10/26/2023	July 2023 Maintenance Hours JL	801	844 : SHANTY BROOK	$127.65	Maint Inspection Hours		09/30/2023			☑	☐
020678	10/26/2023	July 2023 Maintenance Hours JL	801	845 : SHARP	$297.84	Maint Inspection Hours		09/30/2023			☑	☐
020679	10/26/2023	July 2023 Maintenance Hours JL	801	856 : SILVER CREEK	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020680	10/26/2023	July 2023 Maintenance Hours JL	801	903 : THOMAS (Roxand/Sunfield)	$63.82	Maint Inspection Hours		09/30/2023			☑	☐
020681	10/26/2023	July 2023 Maintenance Hours JL	801	914 : TOWNLINE BROOK	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020682	10/26/2023	July 2023 Maintenance Hours JL	801	928 : WILLOW HILLS BRANCH (Waldo)	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020683	10/26/2023	July 2023 Maintenance Hours JL	801	935 : WALDO AND BRANCHES	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020684	10/26/2023	August 2023 Maintenance Hours JL	801	209 : ARMSTRONG HILLS	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020685	10/26/2023	August 2023 Maintenance Hours JL	801	245 : BIG THORNAPPLE	$63.82	Maint Inspection Hours		09/30/2023			☑	☐
020686	10/26/2023	August 2023 Maintenance Hours JL	801	253 : BOLLMAN & DAMON & BRANCHES	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020687	10/26/2023	August 2023 Maintenance Hours JL	801	288 : BUCHANAN	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020688	10/26/2023	August 2023 Maintenance Hours JL	801	290 : BURKHEAD	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020689	10/26/2023	August 2023 Maintenance Hours JL	801	314 : WEST WILLOW HEIGHTS	$106.37	Maint Inspection Hours		09/30/2023			☑	☐
020690	10/26/2023	August 2023 Maintenance Hours JL	801	326 : CARRIER CREEK	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020691	10/26/2023	August 2023 Maintenance Hours JL	801	331 : CHAMBLIN	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020692	10/26/2023	August 2023 Maintenance Hours JL	801	340 : CLAFLIN	$170.19	Maint Inspection Hours		09/30/2023			☑	☐
020693	10/26/2023	August 2023 Maintenance Hours JL	801	343 : CLEMENTS AND UNDERHILL	$42.55	Maint Inspection Hours		09/30/2023			☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date Check #	Posted	Reversed
020694	10/26/2023	August 2023 Maintenance Hours JL	801	366 : CRONK AND BRANCH ONE	$914.82	Maint Inspection Hours		09/30/2023		☑	☐
020695	10/26/2023	August 2023 Maintenance Hours JL	801	374 : CAMBRIDGE AND BRANCHES	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020696	10/26/2023	August 2023 Maintenance Hours JL	801	402 : DELTA SECTION 17	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020697	10/26/2023	August 2023 Maintenance Hours JL	801	446 : EDWARDS INTERCOUNTY	$42.55	Maint Inspection Hours		09/30/2022		☑	☐
020698	10/26/2023	August 2023 Maintenance Hours JL	801	553 : HOGLE AND MILLER INTERCOUNTY	$106.37	Maint Inspection Hours		09/30/2023		☑	☐
020699	10/26/2023	August 2023 Maintenance Hours JL	801	565 : HUBER EXTENSION	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020700	10/26/2023	August 2023 Maintenance Hours JL	801	566 : HUBER	$106.37	Maint Inspection Hours		09/30/2023		☑	☐
020701	10/26/2023	August 2023 Maintenance Hours JL	801	573 : HUTCHINGS	$63.82	Maint Inspection Hours		09/30/2023		☑	☐
020702	10/26/2023	August 2023 Maintenance Hours JL	801	597 : JOHN EARL	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020703	10/26/2023	August 2023 Maintenance Hours JL	801	611 : LAURELWOOD	$85.10	Maint Inspection Hours		09/30/2023		☑	☐
020704	10/26/2023	August 2023 Maintenance Hours JL	801	612 : LORA INTERCOUNTY	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020705	10/26/2023	August 2023 Maintenance Hours JL	801	632 : LUNDQUIST	$127.64	Maint Inspection Hours		09/30/2023		☑	☐
020706	10/26/2023	August 2023 Maintenance Hours JL	801	688 : MYERS AND HENDERSON	$21.27	Maint Inspection Hours		09/30/2023		☑	☐
020707	10/26/2023	August 2023 Maintenance Hours JL	801	695 : McLAUGHLIN AND EXTENSION	$85.10	Maint Inspection Hours		09/30/2023		☑	☐
020708	10/26/2023	August 2023 Maintenance Hours JL	801	752 : PATTERSON & DUBOIS	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020709	10/26/2023	August 2023 Maintenance Hours JL	801	856 : SILVER CREEK	$85.10	Maint Inspection Hours		09/30/2023		☑	☐
020711	10/26/2023	August 2023 Maintenance Hours JL	801	903 : THOMAS (Roxand/Sunfield)	$85.10	Maint Inspection Hours		09/30/2023		☑	☐
020712	10/26/2023	August 2023 Maintenance Hours JL	801	981 : WINDSOR	$63.82	Maint Inspection Hours		09/30/2023		☑	☐
020713	10/26/2023	August 2023 Maintenance Hours JL	801	983 : WILLIS-SHAW: CONCORD BRANCH	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020714	10/26/2023	August 2023 Maintenance Hours JL	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$85.09	Maint Inspection Hours		09/30/2023		☑	☐
020715	10/26/2023	August 2023 Maintenance Hours JL	801	879 : SWICK	$63.82	Maint Inspection Hours		09/30/2023		☑	☐
020716	10/27/2023	September 2023 Maintenance Hours JL	801	275 : BROADBENT WOODS	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020717	10/27/2023	September 2023 Maintenance Hours JL	801	278 : BRONSON, ROGERS AND KINGSLAND	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020718	10/27/2023	September 2023 Maintenance Hours JL	801	290 : BURKHEAD	$148.92	Maint Inspection Hours		09/30/2023		☑	☐
020719	10/27/2023	September 2023 Maintenance Hours JL	801	291 : BURNS	$276.57	Maint Inspection Hours		09/30/2023		☑	☐
020720	10/27/2023	September 2023 Maintenance Hours JL	801	309 : BARRETT (Eaton Rapids)	$170.19	Maint Inspection Hours		09/30/2023		☑	☐
020721	10/27/2023	September 2023 Maintenance Hours JL	801	336 : CHILDS	$85.10	Maint Inspection Hours		09/30/2023		☑	☐
020722	10/27/2023	September 2023 Maintenance Hours JL	801	338 : CHURCH AND McCLINTIC	$170.20	Maint Inspection Hours		09/30/2023		☑	☐
020723	10/27/2023	September 2023 Maintenance Hours JL	801	343 : CLEMENTS AND UNDERHILL	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020724	10/27/2023	September 2023 Maintenance Hours JL	801	360 : COOPER, FROST AND REYNOLDS	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020725	10/27/2023	September 2023 Maintenance Hours JL	801	470 : FOWLER RELAID	$42.55	Maint Inspection Hours		09/30/2023		☑	☐
020726	10/27/2023	September 2023 Maintenance	801	565 : HUBER EXTENSION	$127.65	Maint Inspection Hours		09/30/2023		☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
		Hours JL										
020727	10/27/2023	September 2023 Maintenance Hours JL	801	566 : HUBER	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020728	10/27/2023	September 2023 Maintenance Hours JL	801	597 : JOHN EARL	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020729	10/27/2023	September 2023 Maintenance Hours JL	801	611 : LAURELWOOD	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020730	10/27/2023	September 2023 Maintenance Hours JL	801	612 : LORA INTERCOUNTY	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020731	10/27/2023	September 2023 Maintenance Hours JL	801	688 : MYERS AND HENDERSON	$148.92	Maint Inspection Hours		09/30/2023			☑	☐
020732	10/27/2023	September 2023 Maintenance Hours JL	801	733 : OLD MAID RELAID, HARRIS AND WHALEY	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020733	10/27/2023	September 2023 Maintenance Hours JL	801	821 : RUSSELL	$212.74	Maint Inspection Hours		09/30/2023			☑	☐
020734	10/27/2023	September 2023 Maintenance Hours JL	801	842 : SIDWELL & RELAID MILLS	$85.10	Maint Inspection Hours		09/30/2023			☑	☐
020735	10/27/2023	September 2023 Maintenance Hours JL	801	844 : SHANTY BROOK	$170.20	Maint Inspection Hours		09/30/2023			☑	☐
020736	10/27/2023	September 2023 Maintenance Hours JL	801	856 : SILVER CREEK	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020737	10/27/2023	September 2023 Maintenance Hours JL	801	858 : SKINNER EXTENSION	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020738	10/27/2023	September 2023 Maintenance Hours JL	801	887 : SWEETWATER PINES	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020739	10/27/2023	September 2023 Maintenance Hours JL	801	920 : THORNAPPLE AND EXTENSION	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020740	10/27/2023	September 2023 Maintenance Hours JL	801	961 : WELLINGTON FIELDS	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020741	10/27/2023	September 2023 Maintenance Hours JL	801	981 : WINDSOR	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020742	10/27/2023	September 2023 Maintenance Hours JL	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$42.55	Maint Inspection Hours		09/30/2023			☑	☐
020743	10/30/2023	Engineering	801	856 : SILVER CREEK	$709.71	Demand	LRE Engineers & Surveyors (60811)	11/08/2023	11/08/2023	531936	☑	☐
020744	10/30/2023	Engineering	801	351 : COLE, WRIGHT AND HELMS	$6,306.11	Demand	LRE Engineers & Surveyors (60811)	11/08/2023	11/08/2023	531936	☑	☐
020745	10/30/2023	Engineering	801	769 : POTTER (BENTON)	$6,405.00	Demand	LRE Engineers & Surveyors (60811)	11/08/2023	11/08/2023	531936	☑	☐
020746	10/30/2023	Engineering	801	549 : HIGBY	$5,573.79	Demand	LRE Engineers & Surveyors (60811)	11/08/2023	11/08/2023	531936	☑	☐
020747	10/30/2023	Engineering	801	406 : DENSMORE, PERKINS & FISH CREEK	$692.50	Demand	LRE Engineers & Surveyors (60811)	11/08/2023	11/08/2023	531936	☑	☐
020748	10/30/2023	Maintenance Supplies	801	409 : DILLON	$3,427.93	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/08/2023	11/08/2023	531849	☑	☐
020749	10/30/2023	Maintenance Supplies	801	409 : DILLON	$1,870.00	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/08/2023	11/08/2023	531849	☑	☐
020750	10/30/2023	Maintenance Supplies	801	370 : CUMMINGS	$11,230.42	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/08/2023	11/08/2023	531849	☑	☐
020751	10/30/2023	Maintenance Supplies	801	370 : CUMMINGS	$1,661.75	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/08/2023	11/08/2023	531849	☑	☐
020752	10/30/2023	Maintenance	801	291 : BURNS	$3,473.16	Demand	Precision Grade Excavating (53323)	11/08/2023	11/08/2023	531949	☑	☐
020753	10/30/2023	Maintenance	801	887 : SWEETWATER PINES	$2,058.00	Demand	Precision Grade Excavating (53323)	11/08/2023	11/08/2023	531949	☑	☐
020754	10/30/2023	Utilities	801	238 : BANK INTERCOUNTY	$16.03	Demand	CONSUMERS ENERGY (6659)	11/08/2023	11/08/2023	531850	☑	☐
020755	10/30/2023	Utilities	801	238 : BANK INTERCOUNTY	$197.24	Demand	DELTA CHARTER TOWNSHIP (1999)	11/08/2023	11/08/2023	531851	☑	☐
020756	10/30/2023	Legal	801	1011 : BELAIRE HILLS	$70.50	Demand	Clark Hill PLC (52628)	11/08/2023	11/08/2023	531905	☑	☐
020757	10/30/2023	Maintenance	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020758	10/30/2023	Maintenance	801	570 : HUNTINGTON AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020759	10/30/2023	Maintenance	801	326 : CARRIER CREEK	$350.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020760	10/30/2023	Maintenance	801	935 : WALDO AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020761	10/30/2023	Maintenance	801	686 : MURRAY	$200.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020762	10/30/2023	Maintenance	801	402 : DELTA SECTION 17	$350.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020763	10/30/2023	Maintenance	801	688 : MYERS AND HENDERSON	$450.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020764	10/30/2023	Maintenance	801	452 : FOX RIDGE	$500.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020765	10/30/2023	Maintenance	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020766	10/30/2023	Maintenance	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020767	10/30/2023	Maintenance	801	616 : LAZELL	$2,220.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020768	10/30/2023	Maintenance	801	326 : CARRIER CREEK	$1,000.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020769	10/30/2023	Maintenance	801	616 : LAZELL	$550.00	Demand	C & B LAWN CARE (52381)	11/08/2023	11/08/2023	531900	☑	☐
020770	10/30/2023	Utilities	801	326 : CARRIER CREEK	$40.83	Demand	LANSING BOARD OF WATER & LIGHT (18094)	11/08/2023	11/08/2023	531852	☑	☐
020771	10/30/2023	Utilities	801	326 : CARRIER CREEK	$158.63	Demand	LANSING BOARD OF WATER & LIGHT (18094)	11/08/2023	11/08/2023	531853	☑	☐
020772	10/30/2023	Utilities	801	326 : CARRIER CREEK	$70.67	Demand	LANSING BOARD OF WATER & LIGHT (18094)	11/08/2023	11/08/2023	531854	☑	☐
020773	10/30/2023	Engineering	801	547 : HETRICK	$11,932.75	Demand	SPICER GROUP INC. (9131)	11/08/2023	11/08/2023	531953	☑	☐
020774	10/30/2023	Engineering	801	694 : McGILVRA	$890.75	Demand	SPICER GROUP INC. (9131)	11/08/2023	11/08/2023	531953	☑	☐
020775	10/30/2023	Engineering	801	240 : BENTLEY & DEPUE	$7,749.38	Demand	SPICER GROUP INC. (9131)	11/08/2023	11/08/2023	531953	☑	☐
020776	10/30/2023	Engineering	801	409 : DILLON	$17,480.00	Demand	SPICER GROUP INC. (9131)	11/08/2023	11/08/2023	531953	☑	☐
020777	11/06/2023	Engineering	801	617 : LEE	$2,268.00	Demand	SPICER GROUP INC. (9131)	11/15/2023			☑	☐
020778	11/06/2023	Engineering	801	214 : ALLISON HEIGHTS	$1,687.50	Demand	SPICER GROUP INC. (9131)	11/15/2023			☑	☐
020779	11/06/2023	Maintenance	801	326 : CARRIER CREEK	$1,000.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020780	11/06/2023	Maintenance	801	326 : CARRIER CREEK	$350.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020781	11/06/2023	Maintenance	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020782	11/06/2023	Maintenance	801	402 : DELTA SECTION 17	$350.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020783	11/06/2023	Maintenance	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020784	11/06/2023	Maintenance	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020785	11/06/2023	Maintenance	801	688 : MYERS AND HENDERSON	$450.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020786	11/06/2023	Maintenance	801	616 : LAZELL	$550.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020787	11/06/2023	Maintenance	801	616 : LAZELL	$2,220.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020788	11/06/2023	Maintenance	801	686 : MURRAY	$200.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020789	11/06/2023	Maintenance	801	570 : HUNTINGTON AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020790	11/06/2023	Maintenance	801	452 : FOX RIDGE	$500.00	Demand	C & B LAWN CARE (52381)	11/15/2023			☑	☐
020791	11/06/2023	Maintenance	801	475 : FULTS	$3,600.00	Demand	Precision Grade Excavating (53323)	11/15/2023			☑	☐
020792	11/06/2023	Maintenance	801	597 : JOHN EARL	$1,747.99	Demand	Precision Grade Excavating (53323)	11/15/2023			☑	☐
020793	11/06/2023	Maintenance	801	290 : BURKHEAD	$15,000.00	Demand	BURKETT EXCAVATING (4658)	11/15/2023			☑	☐
020794	11/06/2023	Engineering	801	917 : TRUMBULL	$2,776.75	Demand	CEI - Civil Engineers, Inc. (33986)	11/15/2023			☑	☐
020795	11/06/2023	Engineering	801	495 : GLEN NO. TWO	$2,965.75	Demand	CEI - Civil Engineers, Inc. (33986)	11/15/2023			☑	☐
020796	11/06/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$513.02	Demand	LANSING BOARD OF WATER & LIGHT (18094)	11/15/2023			☑	☐
020797	11/06/2023	Legal/Financial	801	944 : WATSON NO. TWO	$450.00	Demand	MUNIPLATFORM (62667)	11/15/2023			☑	☐
020798	11/06/2023	Legal/Financial	801	409 : DILLON	$750.00	Demand	MUNIPLATFORM (62667)	11/15/2023			☑	☐
020799	11/06/2023	Legal/Financial	801	917 : TRUMBULL	$750.00	Demand	MUNIPLATFORM (62667)	11/15/2023			☑	☐
020800	11/06/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$103.92	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/15/2023			☑	☐
020801	11/06/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$6,117.28	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/15/2023			☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020802	11/06/2023	Utilities	801	238 : BANK INTERCOUNTY	$103.42	Demand	LANSING BOARD OF WATER & LIGHT (18094)	11/15/2023			☑	☐
020803	11/13/2023	Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$1,653.38	Demand	Hubbell, Roth & Clark, Inc. (60657)	11/22/2023	11/22/2023	532450	☑	☐
020804	11/13/2023	Engineering	801	1011 : BELAIRE HILLS	$4,209.01	Demand	Hubbell, Roth & Clark, Inc. (60657)	11/22/2023	11/22/2023	532450	☑	☐
020805	11/13/2023	Engineering	801	619 : LEMON	$1,080.24	Demand	Hubbell, Roth & Clark, Inc. (60657)	11/22/2023	11/22/2023	532450	☑	☐
020806	11/13/2023	Maintenance	801	920 : THORNAPPLE AND EXTENSION	$5,760.00	Demand	M.T. Bell Excavating and Dirt Works (61482)	11/22/2023	11/22/2023	532463	☑	☐
020807	11/13/2023	Legal Services	801	619 : LEMON	$53.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	11/22/2023	11/22/2023	532443	☑	☐
020808	11/13/2023	Legal Services	801	370 : CUMMINGS	$460.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	11/22/2023	11/22/2023	532443	☑	☐
020809	11/13/2023	Legal Services	801	360 : COOPER, FROST AND REYNOLDS	$7,405.59	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	11/22/2023	11/22/2023	532443	☑	☐
020810	11/13/2023	Maintenance	801	453 : FIELDVIEW BRANCH TWO	$85.00	Demand	M & K Jetting and Televising LLC (60039)	11/22/2023	11/22/2023	532457	☑	☐
020811	11/13/2023	Maintenance	801	463 : FIELDSTONE FARMS AND BRANCHES	$765.00	Demand	M & K Jetting and Televising LLC (60039)	11/22/2023	11/22/2023	532457	☑	☐
020812	11/13/2023	Maintenance	801	402 : DELTA SECTION 17	$935.00	Demand	M & K Jetting and Televising LLC (60039)	11/22/2023	11/22/2023	532457	☑	☐
020813	11/13/2023	Maintenance	801	463 : FIELDSTONE FARMS AND BRANCHES	$85.00	Demand	M & K Jetting and Televising LLC (60039)	11/22/2023	11/22/2023	532457	☑	☐
020814	11/13/2023	Maintenace	801	360 : COOPER, FROST AND REYNOLDS	$200,815.65	Demand	MWT, LLC (50930)	11/22/2023	11/22/2023	532464	☑	☐
020815	11/13/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$42,266.60	Demand	IRON HORSE EXCAVATION (62281)	11/22/2023	11/22/2023	532451	☑	☐
020816	11/20/2023	Maintenance	801	441 : EAST PAGE	$282.00	Demand	DeCamp A.D.C. (62099)	11/29/2023	11/29/2023	532534	☑	☐
020817	11/20/2023	Maintenance	801	537 : HARRIETT AVENUE	$525.00	Demand	ROOTER EXPRESS (41207)	11/29/2023	11/29/2023	532548	☑	☐
020818	11/20/2023	Maintenance	801	361 : CORWIN	$525.00	Demand	ROOTER EXPRESS (41207)	11/29/2023	11/29/2023	532548	☑	☑
020819	11/20/2023	Maintenance Supplies	801	903 : THOMAS (Roxand/Sunfield)	$151.49	Demand	EJ USA Inc. (East Jordan) (60648)	11/29/2023	11/29/2023	532535	☑	☐
020820	11/20/2023	Legal	801	360 : COOPER, FROST AND REYNOLDS	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	11/29/2023	11/29/2023	532505	☑	☐
020821	11/20/2023	Maintenance	801	452 : FOX RIDGE	$595.00	Demand	M & K Jetting and Televising LLC (60039)	11/29/2023	11/29/2023	532543	☑	☐
020822	11/20/2023	Maintenance Supplies	801	903 : THOMAS (Roxand/Sunfield)	$5,259.18	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/29/2023	11/29/2023	532503	☑	☐
020823	11/20/2023	Maintenance Supplies	801	370 : CUMMINGS	$9,658.73	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/29/2023	11/29/2023	532503	☑	☐
020824	11/20/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$51.94	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/29/2023	11/29/2023	532503	☑	☐
020825	11/20/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$13,781.60	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	11/29/2023	11/29/2023	532503	☑	☐
020826	11/20/2023	Maintenance	801	986 : WATSON & WATSON: WINDCHARME BR.	$1,050.00	Demand	MID-MICHIGAN PONDS (46321)	11/29/2023	11/29/2023	532545	☑	☐
020827	11/20/2023	Legal	801	1011 : BELAIRE HILLS	$164.50	Demand	Clark Hill PLC (52628)	11/29/2023	11/29/2023	532531	☑	☐
020828	11/20/2023	Utilities	801	238 : BANK INTERCOUNTY	$3,454.63	Demand	AT & T (824)	11/29/2023	11/29/2023	532504	☑	☐
020829	11/20/2023	Maintenance	801	903 : THOMAS (Roxand/Sunfield)	$28,250.00	Demand	Precision Grade Excavating (53323)	11/29/2023	11/29/2023	532547	☑	☐
020830	11/20/2023	Maintenance	801	871 : SHEPARD	$2,495.00	Demand	Precision Grade Excavating (53323)	11/29/2023	11/29/2023	532547	☑	☐
020831	11/20/2023	Maintenance	801	970 : WINCHELL AND UNION	$780.00	Demand	Precision Grade Excavating (53323)	11/29/2023	11/29/2023	532547	☑	☐
020832	11/20/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$5,341.00	Demand	LRE Engineers & Surveyors (60811)	11/29/2023	11/29/2023	532542	☑	☐
020833	11/20/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$33,009.06	Demand	LRE Engineers & Surveyors (60811)	11/29/2023	11/29/2023	532542	☑	☐
020834	11/20/2023	Engineering	801	370 : CUMMINGS	$36,708.06	Demand	LRE Engineers & Surveyors (60811)	11/29/2023	11/29/2023	532542	☑	☐
020835	11/20/2023	Engineering	801	944 : WATSON NO. TWO	$1,978.82	Demand	LRE Engineers & Surveyors (60811)	11/29/2023	11/29/2023	532542	☑	☐
020836	11/20/2023	Engineering	801	608 : KINNIE BROOK	$307.50	Demand	LRE Engineers & Surveyors (60811)	11/29/2023	11/29/2023	532542	☑	☐
020837	11/20/2023	Maintenance	801	370 : CUMMINGS	$842,150.80	Demand	JACKSON DIRT WORKS (12412)	11/29/2023	11/29/2023	532541	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020838	11/20/2023	Maintenance Supplies	801	903 : THOMAS (Roxand/Sunfield)	$157.15	Demand	Ferguson Waterworks (15630)	11/29/2023	11/29/2023	532536	☑	☐
020839	11/27/2023	Maintenance	801	402 : DELTA SECTION 17	$680.00	Demand	M & K Jetting and Televising LLC (60039)	12/06/2023	12/06/2023	532659	☑	☐
020840	11/27/2023	Maintenance	801	453 : FIELDVIEW BRANCH TWO	$510.00	Demand	M & K Jetting and Televising LLC (60039)	12/06/2023	12/06/2023	532659	☑	☐
020841	11/27/2023	Maintenance	801	457 : FIELDVIEW	$595.00	Demand	M & K Jetting and Televising LLC (60039)	12/06/2023	12/06/2023	532659	☑	☐
020842	11/27/2023	Maintenance	801	924 : UPTON	$425.00	Demand	M & K Jetting and Televising LLC (60039)	12/06/2023	12/06/2023	532659	☑	☐
020843	11/27/2023	Maintenance	801	305 : CRICKET BR. WOODVIEW ESTATES	$255.00	Demand	M & K Jetting and Televising LLC (60039)	12/06/2023	12/06/2023	532659	☑	☐
020844	11/27/2023	Engineering	801	549 : HIGBY	$925.00	Demand	LRE Engineers & Surveyors (60811)	12/06/2023	12/06/2023	532657	☑	☐
020845	11/27/2023	Engineering	801	769 : POTTER (BENTON)	$8,972.28	Demand	LRE Engineers & Surveyors (60811)	12/06/2023	12/06/2023	532657	☑	☐
020846	11/27/2023	Engineering	801	856 : SILVER CREEK	$2,238.80	Demand	LRE Engineers & Surveyors (60811)	12/06/2023	12/06/2023	532657	☑	☐
020847	11/27/2023	Maintenance	801	338 : CHURCH AND McCLINTIC	$490.00	Demand	Jacob Ireland (62150)	12/06/2023	12/06/2023	532653	☑	☐
020848	11/27/2023	Recording Fee	801	360 : COOPER, FROST AND REYNOLDS	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	12/06/2023	12/06/2023	532578	☑	☐
020849	11/27/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$24,976.87	Demand	IRON HORSE EXCAVATION (62281)	12/06/2023	12/06/2023	532654	☑	☐
020850	11/27/2023	Engineering	801	238 : BANK INTERCOUNTY	$52,832.77	Demand	SPICER GROUP INC. (9131)	12/06/2023	12/06/2023	532677	☑	☐
020851	11/27/2023	Legal	801	238 : BANK INTERCOUNTY	$1,390.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	12/06/2023	12/06/2023	532644	☑	☐
020852	11/27/2023	Utilities	801	238 : BANK INTERCOUNTY	$11.20	Demand	CONSUMERS ENERGY (6659)	12/06/2023	12/06/2023	532575	☑	☐
020853	12/04/2023	Maintenance	801	543 : HAZEL	$85.00	Demand	M & K Jetting and Televising LLC (60039)	12/13/2023			☑	☐
020854	12/04/2023	Maintenance	801	924 : UPTON	$170.00	Demand	M & K Jetting and Televising LLC (60039)	12/13/2023			☑	☐
020855	12/04/2023	Maintenance	801	402 : DELTA SECTION 17	$595.00	Demand	M & K Jetting and Televising LLC (60039)	12/13/2023			☑	☐
020856	12/04/2023	Maintenance	801	935 : WALDO AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	12/13/2023			☑	☐
020857	12/04/2023	Maintenance Supplies	801	370 : CUMMINGS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/13/2023			☑	☐
020858	12/04/2023	Utilities	801	326 : CARRIER CREEK	$40.98	Demand	LANSING BOARD OF WATER & LIGHT (18094)	12/13/2023			☑	☐
020859	12/04/2023	Utilities	801	326 : CARRIER CREEK	$235.57	Demand	LANSING BOARD OF WATER & LIGHT (18094)	12/13/2023			☑	☐
020860	12/04/2023	Utilties	801	326 : CARRIER CREEK	$85.01	Demand	LANSING BOARD OF WATER & LIGHT (18094)	12/13/2023			☑	☐
020861	12/05/2023	October 2023 Maintenance Hours-JL	801	212 : AUSTIN	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020862	12/05/2023	October 2023 Maintenance Hours-JL	801	245 : BIG THORNAPPLE	$63.82	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020863	12/05/2023	October 2023 Maintenance Hours-JL	801	280 : BROWN (Carmel/Walton)	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020864	12/05/2023	October 2023 Maintenance Hours-JL	801	290 : BURKHEAD	$191.47	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020865	12/05/2023	October 2023 Maintenance Hours-JL	801	291 : BURNS	$191.47	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020866	12/05/2023	October 2023 Maintenance Hours-JL	801	326 : CARRIER CREEK	$170.20	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020867	12/05/2023	October 2023 Maintenance Hours-JL	801	338 : CHURCH AND McCLINTIC	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020868	12/05/2023	October 2023 Maintenance Hours-JL	801	351 : COLE, WRIGHT AND HELMS	$63.82	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020869	12/05/2023	October 2023 Maintenance Hours-JL	801	352 : COLLIER AND MUD CREEK INTERCOUNTY	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020870	12/05/2023	October 2023 Maintenance Hours-JL	801	358 : COOLEY	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
020871	12/05/2023	October 2023 Maintenance Hours-JL	801	360 : COOPER, FROST AND REYNOLDS	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020872	12/05/2023	October 2023 Maintenance Hours-JL	801	366 : CRONK AND BRANCH ONE	$21.27	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020873	12/05/2023	October 2023 Maintenance Hours-JL	801	368 : CROUP	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020874	12/05/2023	October 2023 Maintenance Hours-JL	801	389 : DARKEN AND BOYER	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020875	12/05/2023	October 2023 Maintenance Hours-JL	801	446 : EDWARDS INTERCOUNTY	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020876	12/05/2023	October 2023 Maintenance Hours-JL	801	475 : FULTS	$276.57	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020877	12/05/2023	October 2023 Maintenance Hours-JL	801	597 : JOHN EARL	$361.67	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020878	12/05/2023	October 2023 Maintenance Hours-JL	801	632 : LUNDQUIST	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020879	12/05/2023	October 2023 Maintenance Hours-JL	801	635 : LACEY LAKE LEVEL	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020880	12/05/2023	October 2023 Maintenance Hours-JL	801	661 : MILBOURN EAST AND WEST EXTENSION	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020881	12/05/2023	October 2023 Maintenance Hours-JL	801	683 : MUNSON	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020882	12/05/2023	October 2023 Maintenance Hours-JL	801	688 : MYERS AND HENDERSON	$85.09	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020883	12/05/2023	October 2023 Maintenance Hours-JL	801	718 : NARROW LAKE DAM (Lake Level)	$63.82	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020884	12/05/2023	October 2023 Maintenance Hours-JL	801	724 : NICKLE	$63.82	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020885	12/05/2023	October 2023 Maintenance Hours-JL	801	733 : OLD MAID RELAID, HARRIS AND WHALEY	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020886	12/05/2023	October 2023 Maintenance Hours-JL	801	752 : PATTERSON & DUBOIS	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020887	12/05/2023	October 2023 Maintenance Hours-JL	801	769 : POTTER (BENTON)	$468.05	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020888	12/05/2023	October 2023 Maintenance Hours-JL	801	795 : RAMSEY	$191.47	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020889	12/05/2023	October 2023 Maintenance Hours-JL	801	811 : RIVER RIDGE AND BRANCH	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020890	12/05/2023	October 2023 Maintenance Hours-JL	801	830 : SHERWOOD FOREST	$42.54	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020891	12/05/2023	October 2023 Maintenance Hours-JL	801	833 : SANTEE	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020892	12/05/2023	October 2023 Maintenance Hours-JL	801	844 : SHANTY BROOK	$106.37	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020893	12/05/2023	October 2023 Maintenance Hours-JL	801	845 : SHARP	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020894	12/05/2023	October 2023 Maintenance Hours-JL	801	863 : SOUTHERLAND	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020895	12/05/2023	October 2023 Maintenance Hours-JL	801	871 : SHEPARD	$170.20	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020896	12/05/2023	October 2023 Maintenance Hours-JL	801	887 : SWEETWATER PINES	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020897	12/05/2023	October 2023 Maintenance Hours-JL	801	903 : THOMAS (Roxand/Sunfield)	$680.79	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020898	12/05/2023	October 2023 Maintenance Hours-JL	801	920 : THORNAPPLE AND EXTENSION	$106.37	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020899	12/05/2023	October 2023 Maintenance Hours-JL	801	924 : UPTON	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020900	12/05/2023	October 2023 Maintenance Hours-JL	801	944 : WATSON NO. TWO	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020901	12/05/2023	October 2023 Maintenance Hours-JL	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/05/2023			☑	☐
020902	12/11/2023	Maintenance	801	688 : MYERS AND HENDERSON	$510.00	Demand	M & K Jetting and Televising LLC	12/20/2023	12/20/2023	533251	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
							(60039)					
020903	12/11/2023	Maintenance	801	537 : HARRIETT AVENUE	$1,800.00	Demand	M & K Jetting and Televising LLC (60039)	12/20/2023	12/20/2023	533251	☑	☐
020904	12/11/2023	Legal	801	238 : BANK INTERCOUNTY	$2,197.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	12/20/2023	12/20/2023	533247	☑	☐
020905	12/11/2023	Legal	801	360 : COOPER, FROST AND REYNOLDS	$613.50	Revolving	Fahey Schultz Burzych Rhodes PLC (51982)	12/20/2023	12/20/2023	533247	☑	☐
020906	12/11/2023	legal	801	619 : LEMON	$1,431.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	12/20/2023	12/20/2023	533247	☑	☐
020907	12/11/2023	Engineering	801	917 : TRUMBULL	$2,456.25	Demand	CEI - Civil Engineers, Inc. (33986)	12/20/2023	12/20/2023	533244	☑	☐
020908	12/11/2023	Maintenance Supplies	801	368 : CROUP	$10,940.38	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/20/2023	12/20/2023	533202	☑	☐
020909	12/11/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$5,624.62	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/20/2023	12/20/2023	533202	☑	☐
020910	12/11/2023	Maintenance Supplies	801	632 : LUNDQUIST	$4,993.56	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/20/2023	12/20/2023	533202	☑	☐
020911	12/11/2023	Maintenance Supplies	801	370 : CUMMINGS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/20/2023	12/20/2023	533202	☑	☐
020912	12/11/2023	Maintenance Supplies	801	370 : CUMMINGS	$1,528.43	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/20/2023	12/20/2023	533202	☑	☐
020913	12/11/2023	Maintenance Supplies	801	370 : CUMMINGS	$4,977.13	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/20/2023	12/20/2023	533202	☑	☐
020914	12/11/2023	Maintenance	801	686 : MURRAY	$225.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020915	12/11/2023	Maintenance	801	686 : MURRAY	$200.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020916	12/11/2023	Maintenance	801	935 : WALDO AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020917	12/11/2023	Maintenance	801	452 : FOX RIDGE	$500.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020918	12/11/2023	Maintenance	801	688 : MYERS AND HENDERSON	$450.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020919	12/11/2023	Maintenance	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020920	12/11/2023	Maintenance	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020921	12/11/2023	Maintenance	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020922	12/11/2023	Maintenance	801	402 : DELTA SECTION 17	$350.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020923	12/11/2023	Maintenance	801	570 : HUNTINGTON AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020924	12/11/2023	Maintenance	801	326 : CARRIER CREEK	$350.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020925	12/11/2023	Maintenance	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020926	12/11/2023	Maintenance	801	326 : CARRIER CREEK	$1,000.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020927	12/11/2023	Maintenance	801	616 : LAZELL	$1,480.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020928	12/11/2023	Maintenance	801	616 : LAZELL	$550.00	Demand	C & B LAWN CARE (52381)	12/20/2023	12/20/2023	533242	☑	☐
020929	12/11/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$275.47	Demand	LANSING BOARD OF WATER & LIGHT (18094)	12/20/2023	12/20/2023	533207	☑	☐
020930	12/11/2023	Engineering	801	238 : BANK INTERCOUNTY	$65,722.75	Demand	SPICER GROUP INC. (9131)	12/20/2023	12/20/2023	533257	☑	☐
020931	12/11/2023	Maintenance	801	632 : LUNDQUIST	$6,360.00	Demand	Precision Grade Excavating (53323)	12/20/2023	12/20/2023	533211	☑	☐
020932	12/11/2023	Utitlities	801	238 : BANK INTERCOUNTY	$22,978.92	Demand	DELTA CHARTER TOWNSHIP (1999)	12/20/2023	12/20/2023	533203	☑	☐
020933	12/11/2023	Utitilities	801	238 : BANK INTERCOUNTY	$316.37	Demand	DELTA CHARTER TOWNSHIP (1999)	12/20/2023	12/20/2023	533204	☑	☐
020934	12/11/2023	Utilities	801	238 : BANK INTERCOUNTY	$1,604.23	Demand	DELTA CHARTER TOWNSHIP (1999)	12/20/2023	12/20/2023	533205	☑	☐
020935	12/18/2023	Engineering	801	547 : HETRICK	$12,253.75	Demand	SPICER GROUP INC. (9131)	12/27/2023			☑	☐
020936	12/18/2023	Engineering	801	280 : BROWN (Carmel/Walton)	$4,836.75	Demand	SPICER GROUP INC. (9131)	12/27/2023			☑	☐
020937	12/18/2023	Engineering	801	694 : McGILVRA	$292.50	Demand	SPICER GROUP INC. (9131)	12/27/2023			☑	☐
020938	12/18/2023	Engineering	801	617 : LEE	$2,676.00	Demand	SPICER GROUP INC. (9131)	12/27/2023			☑	☐
020939	12/18/2023	Engineering	801	240 : BENTLEY & DEPUE	$2,909.25	Demand	SPICER GROUP INC. (9131)	12/27/2023			☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date Check #	Posted	Reversed
020940	12/18/2023	Engineering	801	409 : DILLON	$16,758.00	Demand	SPICER GROUP INC. (9131)	12/27/2023		☑	☐
020941	12/18/2023	Maintenance	801	368 : CROUP	$5,000.00	Demand	Precision Grade Excavating (53323)	12/27/2023		☑	☐
020942	12/18/2023	Maintenance	801	361 : CORWIN	$565.00	Demand	ROOTER EXPRESS (41207)	12/27/2023		☑	☐
020943	12/18/2023	Maintenance	801	374 : CAMBRIDGE AND BRANCHES	$1,700.00	Demand	C & B LAWN CARE (52381)	12/27/2023		☑	☐
020944	12/18/2023	Engineering	801	1011 : BELAIRE HILLS	$305.70	Demand	Hubbell, Roth & Clark, Inc. (60657)	12/27/2023		☑	☐
020945	12/18/2023	Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$3,317.18	Demand	Hubbell, Roth & Clark, Inc. (60657)	12/27/2023		☑	☐
020946	12/18/2023	Legal	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$376.00	Demand	Clark Hill PLC (52628)	12/27/2023		☑	☐
020947	12/18/2023	Maintenance	801	688 : MYERS AND HENDERSON	$425.00	Demand	M & K Jetting and Televising LLC (60039)	12/27/2023		☑	☐
020948	12/18/2023	Maintenance	801	688 : MYERS AND HENDERSON	$85.00	Demand	M & K Jetting and Televising LLC (60039)	12/27/2023		☑	☐
020949	12/18/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020950	12/18/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020951	12/18/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020952	12/18/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020953	12/18/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020954	12/18/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020955	12/18/2023	Maintenance Supplies	801	409 : DILLON	$353.07	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	12/27/2023		☑	☐
020956	12/18/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$3,379.73	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020957	12/18/2023	Engineering	801	360 : COOPER, FROST AND REYNOLDS	$16,950.65	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020958	12/18/2023	Engineering	801	370 : CUMMINGS	$40,460.79	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020959	12/18/2023	Engineering	801	944 : WATSON NO. TWO	$892.50	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020960	12/18/2023	Engineering	801	769 : POTTER (BENTON)	$21,077.73	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020961	12/18/2023	Engineering	801	856 : SILVER CREEK	$2,392.50	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020962	12/18/2023	Engineering	801	391 : DAVIS AND EXTENSION	$1,706.36	Demand	LRE Engineers & Surveyors (60811)	12/27/2023		☑	☐
020963	12/18/2023	Maintenance	801	238 : BANK INTERCOUNTY	$3,282.46	Demand	OSCAR W. LARSON CO. (62704)	12/27/2023		☑	☐
020964	12/18/2023	Maintenance	801	845 : SHARP	$10,000.00	Demand	Wright Forestry Solutions LLC (62658)	12/27/2023		☑	☐
020965	12/18/2023	Utilities	801	238 : BANK INTERCOUNTY	$3,590.12	Demand	LANSING BOARD OF WATER & LIGHT (18094)	12/27/2023		☑	☐
020966	12/18/2023	Maintenance	801	795 : RAMSEY	$685.00	Demand	ROOTER EXPRESS (41207)	12/27/2023		☑	☐
020967	12/21/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/03/2024		☑	☐
020968	12/21/2023	Maintenance Supplies	801	409 : DILLON	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/03/2024		☑	☐
020969	12/21/2023	Maintenance	801	795 : RAMSEY	$2,735.00	Demand	ROOTER EXPRESS (41207)	01/03/2024		☑	☐
020970	12/26/2023	Maintenance Supplies	801	409 : DILLON	$8,662.13	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/03/2024		☑	☐
020971	12/26/2023	Maintenance	801	537 : HARRIETT AVENUE	$2,700.00	Demand	M & K Jetting and Televising LLC (60039)	01/03/2024		☑	☐
020972	12/27/2023	Maintenance Supplies	801	957 : WILCOX (Brookfield)	$8,027.00	Demand	ADVANCED DRAINAGE	01/03/2024		☐	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
							SYSTEMS,INC. (3731)					
020973	12/27/2023	Maintenance Supplies	801	358 : COOLEY	$9,101.07	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/03/2024				
020974	12/27/2023	Maintenance	801	238 : BANK INTERCOUNTY	$7,100.00	Demand, Revolving	C & B LAWN CARE (52381)	01/03/2024				
020975	12/27/2023	Maintenance	801	402 : DELTA SECTION 17	$680.00	Demand	M & K Jetting and Televising LLC (60039)	01/03/2024				
020976	12/27/2023	Maintenance	801	688 : MYERS AND HENDERSON	$680.00	Demand	M & K Jetting and Televising LLC (60039)	01/03/2024				
020977	12/27/2023	Maintenance	801	957 : WILCOX (Brookfield)	$11,825.00	Demand	Precision Grade Excavating (53323)	01/03/2024				
020978	12/28/2023	Maintenance	801	240 : BENTLEY & DEPUE	$22,733.34	Revolving	MEAD BROTHERS EXCAVATING, INC. (7293)	01/03/2024				
020979	12/28/2023	Maintenance	801	409 : DILLON	$84,313.85	Revolving	MID-MICHIGAN PONDS (46321)	01/03/2024				
020980	12/28/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$5,000.00	Revolving	IRON HORSE EXCAVATION (62281)	01/03/2024				
020981	12/28/2023	November 2023 Maintenance Hours-JL	801	238 : BANK INTERCOUNTY	$63.82	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020982	12/28/2023	November 2023 Maintenance Hours-JL	801	343 : CLEMENTS AND UNDERHILL	$85.10	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020983	12/28/2023	November 2023 Maintenance Hours-JL	801	367 : CROSS AND HORTON	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020984	12/28/2023	November 2023 Maintenance Hours-JL	801	368 : CROUP	$489.32	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020985	12/28/2023	November 2023 Maintenance Hours-JL	801	370 : CUMMINGS	$21.27	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020986	12/28/2023	November 2023 Maintenance Hours-JL	801	632 : LUNDQUIST	$468.05	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020987	12/28/2023	November 2023 Maintenance Hours-JL	801	769 : POTTER (BENTON)	$170.20	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020988	12/28/2023	November 2023 Maintenance Hours-JL	801	1020 : ROUSE (KALAMO)	$63.82	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020989	12/28/2023	November 2023 Maintenance Hours-JL	801	856 : SILVER CREEK	$42.55	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
020990	12/28/2023	November 2023 Maintenance Hours-JL	801	957 : WILCOX (Brookfield)	$106.37	Maint Inspection Hours	EATON COUNTY (19461)	12/28/2023				
19440	01/05/2023	Recording Fee	801	294 : BURNS VILLAGE AND EXTENSION	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	01/18/2023	01/17/2023	523911		
19441	01/05/2023	Maintenance Supplies	801	365 : CRANDALL	$3,406.12	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19442	01/05/2023	Maintenance Supplies	801	997 : WOODVIEW ESTATES	$12,797.10	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19443	01/05/2023	Maintenance Supplies	801	627 : LOCK	$1,737.46	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19444	01/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19445	01/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19446	01/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19447	01/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$9,822.56	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19448	01/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,238.57	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	01/18/2023	01/17/2023	523909		
19449	01/05/2023	Maintenance	801	361 : CORWIN	$6,740.00	Demand	Kepitis Farms LLC (61925)	01/18/2023	01/17/2023	523942		
19450	01/05/2023	Maintenance	801	339 : CHURCHILL	$1,200.00	Demand	Kepitis Farms LLC (61925)	01/18/2023	01/17/2023	523942		
19451	01/05/2023	Professional Engineering	801	280 : BROWN (Carmel/Walton)	$6,975.25	Demand	SPICER GROUP INC. (9131)	01/18/2023	01/17/2023	523967		

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19452	01/05/2023	Professional Engineering	801	240 : BENTLEY & DEPUE	$23,478.88	Demand	SPICER GROUP INC. (9131)	01/18/2023	01/17/2023	523967	☑	☐
19453	01/05/2023	Professional Engineering	801	694 : McGILVRA	$1,374.75	Demand	SPICER GROUP INC. (9131)	01/18/2023	01/17/2023	523967	☑	☐
19454	01/09/2023	Maintenance	801	636 : LITTLE THORNAPPLE	$61,975.00	Demand	BURKETT EXCAVATING (4658)	01/18/2023	01/17/2023	523926	☑	☐
19455	01/09/2023	Maintenance	801	510 : GRUESBECK, CLARK AND BROUGHTON	$25,000.00	Demand	BURKETT EXCAVATING (4658)	01/18/2023	01/17/2023	523926	☑	☐
19456	01/09/2023	Professioinal-Engineering	801	1011 : BELAIRE HILLS	$1,641.90	Demand	Hubbell, Roth & Clark, Inc. (60657)	01/18/2023	01/17/2023	523938	☑	☐
19457	01/09/2023	Professional-Engineering	801	619 : LEMON	$8,567.77	Demand	Hubbell, Roth & Clark, Inc. (60657)	01/18/2023	01/17/2023	523938	☑	☐
19458	01/09/2023	Maintenance	801	306 : BRANCH OF THE DOLAN	$7,710.00	Demand	Precision Grade Excavating (53323)	01/18/2023	01/17/2023	523956	☑	☐
19459	01/09/2023	Maintenance	801	365 : CRANDALL	$11,200.00	Demand	Precision Grade Excavating (53323)	01/18/2023	01/17/2023	523956	☑	☐
19460	01/09/2023	Maintenance	801	627 : LOCK	$11,572.00	Demand	Precision Grade Excavating (53323)	01/18/2023	01/17/2023	523956	☑	☐
19461	01/09/2023	Maintenance	801	387 : DANN	$39,551.00	Demand	BURKETT EXCAVATING (4658)	01/18/2023	01/17/2023	523926	☑	☐
19462	01/09/2023	Professional-Engineering	801	617 : LEE	$13,321.50	Demand	SPICER GROUP INC. (9131)	01/18/2023	01/17/2023	523967	☑	☐
19463	01/09/2023	Professional-Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$650.03	Demand	Hubbell, Roth & Clark, Inc. (60657)	01/18/2023	01/17/2023	523938	☑	☐
19464	01/09/2023	Professional-Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$10,835.30	Demand	Hubbell, Roth & Clark, Inc. (60657)	01/18/2023	01/17/2023	523938	☑	☐
19465	01/09/2023	Professional-Engineering	801	552 : HOBART	$12,501.00	Demand	SPICER GROUP INC. (9131)	01/18/2023	01/17/2023	523967	☑	☐
19466	01/09/2023	Maintenance	801	420 : DOXIE AND EXTENSION	$13,275.00	Demand	BURKETT EXCAVATING (4658)	01/18/2023	01/17/2023	523926	☑	☐
19467	01/09/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$115,725.60	Demand	MWT, LLC (50930)	01/18/2023	01/17/2023	523951	☑	☐
19468	01/09/2023	Maintenance	801	997 : WOODVIEW ESTATES	$144,859.73	Demand	C.L. Trucking & Excavating, LLC (50836)	01/18/2023	01/17/2023	523931	☑	☐
19469	01/09/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$52.42	Demand	LANSING BOARD OF WATER & LIGHT (18094)	01/18/2023	01/17/2023	523912	☑	☐
19470	01/17/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$115,200.00	Demand	JACKSON DIRT WORKS (12412)	01/25/2023	01/25/2023	524604	☑	☐
19471	01/20/2023	Maintenance	801	495 : GLEN NO. TWO	$18,098.60	Demand	CEI - Civil Engineers, Inc. (33986)	02/01/2023	02/01/2023	524153	☑	☐
19472	01/20/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$14,299.65	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524188	☑	☐
19473	01/20/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$12,595.26	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524181	☑	☐
19474	01/20/2023	Professional-Engineering	801	997 : WOODVIEW ESTATES	$23,393.67	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524181	☑	☐
19475	01/20/2023	Professioinal-Engineering	801	370 : CUMMINGS	$12,335.29	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524181	☑	☐
19476	01/21/2023	Professional-Engineering	801	944 : WATSON NO. TWO	$2,803.75	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524181	☑	☐
19477	01/21/2023	Professional-Engineering	801	769 : POTTER (BENTON)	$1,451.90	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524181	☑	☐
19478	01/21/2023	Professional-Engineering	801	696 : McMULLEN and BRANCHES	$97.50	Demand	LRE Engineers & Surveyors (60811)	02/01/2023	02/01/2023	524181	☑	☐
19479	01/21/2023	MS4-Catch Basin Cleaning	801	430 : DIMONDALE ESTATES	$340.00	Demand	M & K Jetting and Televising LLC (60039)	02/01/2023	02/01/2023	524185	☑	☐
19480	01/21/2023	MS4-Catch Basin Cleaning	801	274 : BROOKS RIVER LANDING	$510.00	Demand	M & K Jetting and Televising LLC (60039)	02/01/2023	02/01/2023	524185	☑	☐
19481	01/21/2023	MS4-Catch Basin Cleaning	801	411 : DIMONDALE FARMS	$765.00	Demand	M & K Jetting and Televising LLC (60039)	02/01/2023	02/01/2023	524185	☑	☐
19482	01/21/2023	MS4-Catch Basin Cleaning	801	411 : DIMONDALE FARMS	$340.00	Demand	M & K Jetting and Televising LLC (60039)	02/01/2023	02/01/2023	524185	☑	☐
19483	01/21/2023	MS4-Catch Basin Cleaning	801	276 : MORRIS	$680.00	Demand	M & K Jetting and Televising LLC (60039)	02/01/2023	02/01/2023	524185	☑	☐
19484	01/21/2023	Recording Fee	801	997 : WOODVIEW ESTATES	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	02/01/2023	02/01/2023	524117	☑	☐
19485	01/21/2023	Professional-Legal	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$1,551.00	Demand	Clark Hill PLC (52628)	02/01/2023	02/01/2023	524158	☑	☐
19486	01/21/2023	Professional-Legal	801	1011 : BELAIRE HILLS	$1,950.50	Demand	Clark Hill PLC (52628)	02/01/2023	02/01/2023	524158	☑	☐
19487	01/21/2023	Maintenance	801	390 : DARLING	$5,330.00	Demand	Eaton Acres Farm Spray Services (60911)	02/01/2023	02/01/2023	524165	☑	☐
19488	01/21/2023	Publication	801	1011 : BELAIRE HILLS	$106.00	Demand	USA Today Network (40997)	02/01/2023	02/01/2023	524141	☑	☐
19489	01/21/2023	Professional-Legal	801	370 : CUMMINGS	$411.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/01/2023	02/01/2023	524167	☑	☐

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19490	01/21/2023	Professional-Legal	801	917 : TRUMBULL	$79.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/01/2023	02/01/2023	524167	☑	☐
19491	01/21/2023	Professional-Legal	801	997 : WOODVIEW ESTATES	$462.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/01/2023	02/01/2023	524167	☑	☐
19492	01/21/2023	Professional-Legal	801	409 : DILLON	$38.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/01/2023	02/01/2023	524167	☑	☐
19493	01/21/2023	Professional-Legal	801	597 : JOHN EARL	$127.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/01/2023	02/01/2023	524167	☑	☐
19494	01/21/2023	Professional-Legal	801	769 : POTTER (BENTON)	$38.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/01/2023	02/01/2023	524167	☑	☐
19495	01/23/2023	Maintenance	801	254 : BOND	$585.00	Demand	ROOTER EXPRESS (41207)	02/01/2023	02/01/2023	524198	☑	☐
19496	01/23/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/01/2023	02/01/2023	524116	☑	☐
19497	01/23/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/01/2023	02/01/2023	524116	☑	☐
19498	01/23/2023	Maintenance	801	970 : WINCHELL AND UNION	$10,795.00	Demand	Kepitis Farms LLC (61925)	02/01/2023	02/01/2023	524180	☑	☐
19499	01/23/2023	Maintenance Supplies	801	970 : WINCHELL AND UNION	$4,790.82	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/01/2023	02/01/2023	524116	☑	☐
19500	01/23/2023	Maintenance Supplies	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$11,144.66	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/01/2023	02/01/2023	524116	☑	☐
19501	01/23/2023	Maintenance	801	326 : CARRIER CREEK	$9,850.00	Demand	Kepitis Farms LLC (61925)	02/01/2023	02/01/2023	524180	☑	☐
19502	01/23/2023	MS4-Catch Basin Cleaning	801	959 : WILLIAMS (DELTA)	$935.00	Demand	M & K Jetting and Televising LLC (60039)	02/01/2023	02/01/2023	524185	☑	☐
19503	01/23/2023	Professional-Engineering	801	752 : PATTERSON & DUBOIS	$2,967.48	Demand	Hubbell, Roth & Clark, Inc. (60657)	02/01/2023	02/01/2023	524179	☑	☐
19504	01/30/2023	Professional-Engineering	801	294 : BURNS VILLAGE AND EXTENSION	$1,364.75	Demand	SPICER GROUP INC. (9131)	02/08/2023	02/08/2023	524319	☑	☐
19505	01/30/2023	Professioinal-Engineering	801	617 : LEE	$2,076.50	Demand	SPICER GROUP INC. (9131)	02/08/2023	02/08/2023	524319	☑	☐
19506	01/30/2023	Professional-Engineering	801	596 : JENNE	$887.25	Demand	SPICER GROUP INC. (9131)	02/08/2023	02/08/2023	524319	☑	☐
19507	01/30/2023	Professional-Engineering	801	240 : BENTLEY & DEPUE	$21,061.34	Demand	SPICER GROUP INC. (9131)	02/08/2023	02/08/2023	524319	☑	☐
19508	01/30/2023	Professional-Engineering	801	694 : McGILVRA	$3,902.75	Demand	SPICER GROUP INC. (9131)	02/08/2023	02/08/2023	524319	☑	☐
19509	01/30/2023	Maintenance-Supplies	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$109.15	Demand	EJ USA Inc. (East Jordan) (60648)	02/08/2023	02/08/2023	524292	☑	☐
19510	01/30/2023	Professional-Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$2,050.00	Demand	LRE Engineers & Surveyors (60811)	02/08/2023	02/08/2023	524301	☑	☐
19511	01/30/2023	Professional-Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$1,575.00	Demand	LRE Engineers & Surveyors (60811)	02/08/2023	02/08/2023	524301	☑	☐
19512	01/30/2023	MS4 Catch Basin Cleaning	801	326 : CARRIER CREEK	$340.00	Demand	M & K Jetting and Televising LLC (60039)	02/08/2023	02/08/2023	524307	☑	☐
19513	01/30/2023	MS4 Catch Basin Cleaning	801	276 : MORRIS	$85.00	Demand	M & K Jetting and Televising LLC (60039)	02/08/2023	02/08/2023	524307	☑	☐
19514	01/30/2023	MS4 Catch Basin Cleaning	801	569 : HUNTER AND BRANCHES	$425.00	Demand	M & K Jetting and Televising LLC (60039)	02/08/2023	02/08/2023	524307	☑	☐
19515	01/30/2023	MS4 Catch Basin Cleaning	801	326 : CARRIER CREEK	$170.00	Demand	M & K Jetting and Televising LLC (60039)	02/08/2023	02/08/2023	524307	☑	☐
19516	01/30/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/08/2023	02/08/2023	524244	☑	☐
19517	01/30/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/08/2023	02/08/2023	524244	☑	☐
19518	01/30/2023	Utilities	801	326 : CARRIER CREEK	$106.18	Demand	LANSING BOARD OF WATER & LIGHT (18094)	02/08/2023	02/08/2023	524247	☑	☐
19519	01/30/2023	Utilities	801	326 : CARRIER CREEK	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	02/08/2023	02/08/2023	524248	☑	☐
19520	01/30/2023	Utilities	801	326 : CARRIER CREEK	$80.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	02/08/2023	02/08/2023	524249	☑	☐
19521	02/03/2023	Professional Engineering-MS4	801	253 : BOLLMAN & DAMON & BRANCHES	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19522	02/03/2023	Professional Engineering-MS4	801	272 : BRETTON WOODS	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19523	02/03/2023	Professional Engineering-MS4	801	274 : BROOKS RIVER LANDING	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19524	02/03/2023	Professional Engineering-MS4	801	374 : CAMBRIDGE AND BRANCHES	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19525	02/03/2023	Professional Engineering-MS4	801	326 : CARRIER CREEK	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19526	02/03/2023	Professional Engineering-MS4	801	354 : CENTER POINT	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19527	02/03/2023	Professional Engineering-MS4	801	343 : CLEMENTS AND UNDERHILL	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19528	02/03/2023	Professional Engineering-MS4	801	400 : DELTA MILLS	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19529	02/03/2023	Professional Engineering-MS4	801	430 : DIMONDALE ESTATES	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19530	02/03/2023	Professional Engineering-MS4	801	411 : DIMONDALE FARMS	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19531	02/03/2023	Professional Engineering-MS4	801	461 : FIGG	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19532	02/03/2023	Professional Engineering-MS4	801	488 : GARFIELD AVENUE	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19533	02/03/2023	Professional Engineering-MS4	801	489 : GARLOCK & FOSTER AND BRANCHES	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19534	02/03/2023	Professional Engineering-MS4	801	520 : GRAND WOODS	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19535	02/03/2023	Professional Engineering-MS4	801	537 : HARRIETT AVENUE	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19536	02/03/2023	Professional Engineering-MS4	801	547 : HETRICK	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19537	02/03/2023	Professional Engineering-MS4	801	569 : HUNTER AND BRANCHES	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19538	02/03/2023	Professional Engineering-MS4	801	584 : INGERSOLL	$63.92	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19539	02/03/2023	Professional Engineering-MS4	801	592 : IRVINGDALE ACRES	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19540	02/03/2023	Professional Engineering-MS4	801	596 : JENNE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19541	02/03/2023	Professional Engineering-MS4	801	597 : JOHN EARL	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19542	02/03/2023	Professional Engineering-MS4	801	601 : KELLER	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19543	02/03/2023	Professional Engineering-MS4	801	617 : LEE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19544	02/03/2023	Professional Engineering-MS4	801	646 : MAPLEWOOD	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19545	02/03/2023	Professional Engineering-MS4	801	261 : MCCABE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19546	02/03/2023	Professional Engineering-MS4	801	665 : MILLER (Delta Twp)	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19547	02/03/2023	Professional Engineering-MS4	801	276 : MORRIS	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19548	02/03/2023	Professional Engineering-MS4	801	686 : MURRAY	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19549	02/03/2023	Professional Engineering-MS4	801	688 : MYERS AND HENDERSON	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19550	02/03/2023	Professional Engineering-MS4	801	721 : NELSON	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19551	02/03/2023	Professional Engineering-MS4	801	729 : OAK PARK	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19552	02/03/2023	Professional Engineering-MS4	801	745 : OLD RIVER TRAIL	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19553	02/03/2023	Professional Engineering-MS4	801	746 : PADDLE TOWN SEWER	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19554	02/03/2023	Professional Engineering-MS4	801	780 : PRICE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19555	02/03/2023	Professional Engineering-MS4	801	805 : RENKER ROAD	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19556	02/03/2023	Professional Engineering-MS4	801	815 : RIVER COVE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19557	02/03/2023	Professional Engineering-MS4	801	811 : RIVER RIDGE AND BRANCH	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19558	02/03/2023	Professional Engineering-MS4	801	821 : RUSSELL	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19559	02/03/2023	Professional Engineering-MS4	801	832 : SAIER	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19560	02/03/2023	Professional Engineering-MS4	801	834 : SARATOGA	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19561	02/03/2023	Professional Engineering-MS4	801	856 : SILVER CREEK	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19562	02/03/2023	Professional Engineering-MS4	801	884 : SILVER RIDGE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19563	02/03/2023	Professional Engineering-MS4	801	878 : SUNSHINE GARDENS	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19564	02/03/2023	Professional Engineering-MS4	801	901 : THEO AVENUE	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19565	02/03/2023	Professional Engineering-MS4	801	988 : WALMAR & Branch 4	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19566	02/03/2023	Professional Engineering-MS4	801	935 : WALDO AND BRANCHES	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19567	02/03/2023	Professional Engineering-MS4	801	978 : WATSON & WATSON and BRANCHES	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19568	02/03/2023	Professional Engineering-MS4	801	982 : WESTON	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19569	02/03/2023	Professional Engineering-MS4	801	955 : WHITNEY	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19570	02/03/2023	Professional Engineering-MS4	801	964 : WILLIS-SHAW	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19571	02/03/2023	Professional Engineering-MS4	801	981 : WINDSOR	$63.93	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19572	02/03/2023	Professional Engineering-MS4	801	253 : BOLLMAN & DAMON & BRANCHES	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19573	02/03/2023	Professional Engineering-MS4	801	272 : BRETTON WOODS	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19574	02/03/2023	Professional Engineering-MS4	801	274 : BROOKS RIVER LANDING	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19575	02/03/2023	Professional Engineering-MS4	801	374 : CAMBRIDGE AND BRANCHES	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19576	02/03/2023	Professional Engineering-MS4	801	326 : CARRIER CREEK	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19577	02/03/2023	Professional Engineering-MS4	801	354 : CENTER POINT	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19578	02/03/2023	Professional Engineering-MS4	801	343 : CLEMENTS AND UNDERHILL	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19579	02/03/2023	Professional Engineering-MS4	801	400 : DELTA MILLS	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19580	02/03/2023	Professional Engineering-MS4	801	430 : DIMONDALE ESTATES	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19581	02/03/2023	Professional Engineering-MS4	801	411 : DIMONDALE FARMS	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19582	02/03/2023	Professional Engineering-MS4	801	461 : FIGG	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19583	02/03/2023	Professional Engineering-MS4	801	488 : GARFIELD AVENUE	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19584	02/03/2023	Professional Engineering-MS4	801	489 : GARLOCK & FOSTER AND BRANCHES	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19585	02/03/2023	Professional Engineering-MS4	801	520 : GRAND WOODS	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19586	02/03/2023	Professional Engineering-MS4	801	537 : HARRIETT AVENUE	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19587	02/03/2023	Professional Engineering-MS4	801	547 : HETRICK	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19588	02/03/2023	Professional Engineering-MS4	801	569 : HUNTER AND BRANCHES	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19589	02/03/2023	Professional Engineering-MS4	801	584 : INGERSOLL	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19590	02/03/2023	Professional Engineering-MS4	801	592 : IRVINGDALE ACRES	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19591	02/03/2023	Professional Engineering-MS4	801	596 : JENNE	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19592	02/03/2023	Professional Engineering-MS4	801	597 : JOHN EARL	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19593	02/03/2023	Professional Engineering-MS4	801	601 : KELLER	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19594	02/03/2023	Professional Engineering-MS4	801	617 : LEE	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19595	02/03/2023	Professional Engineering-MS4	801	646 : MAPLEWOOD	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19596	02/03/2023	Professional Engineering-MS4	801	261 : MCCABE	$101.24	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19597	02/03/2023	Professional Engineering-MS4	801	665 : MILLER (Delta Twp)	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19598	02/03/2023	Professional Engineering-MS4	801	276 : MORRIS	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19599	02/03/2023	Professional Engineering-MS4	801	686 : MURRAY	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19600	02/03/2023	Professional Engineering-MS4	801	688 : MYERS AND HENDERSON	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19601	02/03/2023	Professional Engineering-MS4	801	721 : NELSON	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19602	02/03/2023	Professional Engineering-MS4	801	729 : OAK PARK	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19603	02/03/2023	Professional Engineering-MS4	801	745 : OLD RIVER TRAIL	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19604	02/03/2023	Professional Engineering-MS4	801	746 : PADDLE TOWN SEWER	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19605	02/03/2023	Professional Engineering-MS4	801	780 : PRICE	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19606	02/03/2023	Professional Engineering-MS4	801	805 : RENKER ROAD	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19607	02/03/2023	Professional Engineering-MS4	801	815 : RIVER COVE	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19608	02/03/2023	Professional Engineering-MS4	801	811 : RIVER RIDGE AND BRANCH	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19609	02/03/2023	Professional Engineering-MS4	801	821 : RUSSELL	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19610	02/03/2023	Professional Engineering-MS4	801	832 : SAIER	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19611	02/03/2023	Professional Engineering-MS4	801	834 : SARATOGA	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19612	02/03/2023	Professional Engineering-MS4	801	856 : SILVER CREEK	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19613	02/03/2023	Professional Engineering-MS4	801	884 : SILVER RIDGE	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19614	02/03/2023	Professional Engineering-MS4	801	878 : SUNSHINE GARDENS	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19615	02/03/2023	Professional Engineering-MS4	801	901 : THEO AVENUE	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19616	02/03/2023	Professional Engineering-MS4	801	988 : WALMAR & Branch 4	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19617	02/03/2023	Professional Engineering-MS4	801	935 : WALDO AND BRANCHES	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19618	02/03/2023	Professional Engineering-MS4	801	978 : WATSON & WATSON and BRANCHES	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19619	02/03/2023	Professional Engineering-MS4	801	982 : WESTON	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19620	02/03/2023	Professional Engineering-MS4	801	955 : WHITNEY	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19621	02/03/2023	Professional Engineering-MS4	801	964 : WILLIS-SHAW	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19622	02/03/2023	Professional Engineering-MS4	801	981 : WINDSOR	$101.25	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19623	02/03/2023	Professional Engineering-MS4	801	253 : BOLLMAN & DAMON & BRANCHES	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19624	02/03/2023	Professional Engineering-MS4	801	272 : BRETTON WOODS	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19625	02/03/2023	Professional Engineering-MS4	801	274 : BROOKS RIVER LANDING	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19626	02/03/2023	Professional Engineering-MS4	801	374 : CAMBRIDGE AND BRANCHES	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19627	02/03/2023	Professional Engineering-MS4	801	326 : CARRIER CREEK	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19628	02/03/2023	Professional Engineering-MS4	801	354 : CENTER POINT	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19629	02/03/2023	Professional Engineering-MS4	801	343 : CLEMENTS AND UNDERHILL	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19630	02/03/2023	Professional Engineering-MS4	801	400 : DELTA MILLS	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19631	02/03/2023	Professional Engineering-MS4	801	430 : DIMONDALE ESTATES	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19632	02/03/2023	Professional Engineering-MS4	801	411 : DIMONDALE FARMS	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19633	02/03/2023	Professional Engineering-MS4	801	461 : FIGG	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19634	02/03/2023	Professional Engineering-MS4	801	488 : GARFIELD AVENUE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19635	02/03/2023	Professional Engineering-MS4	801	489 : GARLOCK & FOSTER AND BRANCHES	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19636	02/03/2023	Professional Engineering-MS4	801	520 : GRAND WOODS	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19637	02/03/2023	Professional Engineering-MS4	801	537 : HARRIETT AVENUE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19638	02/03/2023	Professional Engineering-MS4	801	547 : HETRICK	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19639	02/03/2023	Professional Engineering-MS4	801	569 : HUNTER AND BRANCHES	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19640	02/03/2023	Professional Engineering-MS4	801	584 : INGERSOLL	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19641	02/03/2023	Professional Engineering-MS4	801	592 : IRVINGDALE ACRES	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19642	02/03/2023	Professional Engineering-MS4	801	596 : JENNE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19643	02/03/2023	Professional Engineering-MS4	801	597 : JOHN EARL	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19644	02/03/2023	Professional Engineering-MS4	801	601 : KELLER	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19645	02/03/2023	Professional Engineering-MS4	801	617 : LEE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19646	02/03/2023	Professional Engineering-MS4	801	646 : MAPLEWOOD	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19647	02/03/2023	Professional Engineering-MS4	801	261 : MCCABE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19648	02/03/2023	Professional Engineering-MS4	801	665 : MILLER (Delta Twp)	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19649	02/03/2023	Professional Engineering-MS4	801	276 : MORRIS	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19650	02/03/2023	Professional Engineering-MS4	801	686 : MURRAY	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19651	02/03/2023	Professional Engineering-MS4	801	688 : MYERS AND HENDERSON	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19652	02/03/2023	Professional Engineering-MS4	801	721 : NELSON	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19653	02/03/2023	Professional Engineering-MS4	801	729 : OAK PARK	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19654	02/03/2023	Professional Engineering-MS4	801	745 : OLD RIVER TRAIL	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19655	02/03/2023	Professional Engineering-MS4	801	746 : PADDLE TOWN SEWER	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19656	02/03/2023	Professional Engineering-MS4	801	780 : PRICE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19657	02/03/2023	Professional Engineering-MS4	801	805 : RENKER ROAD	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐
19658	02/03/2023	Professional Engineering-MS4	801	815 : RIVER COVE	$24.55	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19659	02/03/2023	Professional Engineering-MS4	801	811 : RIVER RIDGE AND BRANCH	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19660	02/03/2023	Professional Engineering-MS4	801	821 : RUSSELL	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19661	02/03/2023	Professional Engineering-MS4	801	832 : SAIER	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19662	02/03/2023	Professional Engineering-MS4	801	834 : SARATOGA	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19663	02/03/2023	Professional Engineering-MS4	801	856 : SILVER CREEK	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19664	02/03/2023	Professional Engineering-MS4	801	884 : SILVER RIDGE	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19665	02/03/2023	Professional Engineering-MS4	801	878 : SUNSHINE GARDENS	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19666	02/03/2023	Professional Engineering-MS4	801	901 : THEO AVENUE	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19667	02/03/2023	Professional Engineering-MS4	801	988 : WALMAR & Branch 4	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19668	02/03/2023	Professional Engineering-MS4	801	935 : WALDO AND BRANCHES	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19669	02/03/2023	Professional Engineering-MS4	801	978 : WATSON & WATSON and BRANCHES	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19670	02/03/2023	Professional Engineering-MS4	801	982 : WESTON	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19671	02/03/2023	Professional Engineering-MS4	801	955 : WHITNEY	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19672	02/03/2023	Professional Engineering-MS4	801	964 : WILLIS-SHAW	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19673	02/03/2023	Professional Engineering-MS4	801	981 : WINDSOR	$24.58	Demand	SPICER GROUP INC. (9131)	02/15/2023	02/14/2023	524610		
19674	02/03/2023	Recording Fee	801	944 : WATSON NO. TWO	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	02/15/2023	02/14/2023	524528		
19675	02/03/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	02/15/2023	02/14/2023	524529		
19676	02/03/2023	Professional-Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$13,919.27	Demand	Hubbell, Roth & Clark, Inc. (60657)	02/15/2023	02/14/2023	524581		
19677	02/03/2023	Professional-Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$14,116.38	Demand	Hubbell, Roth & Clark, Inc. (60657)	02/15/2023	02/14/2023	524581		
19678	02/03/2023	Professional-Engineering	801	619 : LEMON	$20,250.49	Demand	Hubbell, Roth & Clark, Inc. (60657)	02/15/2023	02/14/2023	524581		
19679	02/03/2023	Professional-Engineering	801	1011 : BELAIRE HILLS	$19,279.11	Demand	Hubbell, Roth & Clark, Inc. (60657)	02/15/2023	02/14/2023	524581		
19680	02/03/2023	Professional-Engineering	801	1011 : BELAIRE HILLS	$1,952.89	Demand	Hubbell, Roth & Clark, Inc. (60657)	02/15/2023	02/14/2023	524581		
19681	02/05/2023	Transfer of Funds to Treasurer	801	494 : GILBERT & WEST TOWN INTERCOUNTY	$5,782.19	Demand	Ingham County Drain Commissioner (51786)	02/15/2023	02/14/2023	524568		
19682	02/05/2023	MS4 Catch Basin Cleaning	801	326 : CARRIER CREEK	$170.00	Demand	M & K Jetting and Televising LLC (60039)	02/15/2023	02/14/2023	524587		
19683	02/05/2023	MS4 Catch Basin Cleaning	801	261 : MCCABE	$85.00	Demand	M & K Jetting and Televising LLC (60039)	02/15/2023	02/14/2023	524587		
19684	02/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/15/2023	02/14/2023	524527		
19685	02/05/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,011.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/15/2023	02/14/2023	524527		
19686	02/10/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$6,676.00	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/22/2023	02/14/2023	524750		
19687	02/10/2023	Maintenance Supplies	801	364 : COX	$4,084.42	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/22/2023	02/22/2023	524750		
19688	02/10/2023	Maintenance Supplies	801	465 : FISHER (BROOKFIELD/WALTON)	$2,595.42	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/22/2023	02/22/2023	524750		
19689	02/10/2023	Maintenance Supplies	801	236 : BELLOWS	$262.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/22/2023	02/22/2023	524750		
19690	02/10/2023	Maintenance Supplies	801	236 : BELLOWS	$4,827.44	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	02/22/2023	02/22/2023	524750		
19691	02/10/2023	Professional-Legal	801	370 : CUMMINGS	$1,313.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/22/2023	02/22/2023	524797		
19692	02/10/2023	Professional-Lega	801	214 : ALLISON HEIGHTS	$80.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	02/22/2023	02/22/2023	524797		

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19693	02/10/2023	Maintenance	801	240 : BENTLEY & DEPUE	$60,606.45	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	02/22/2023	02/22/2023	524809	☑	☐
19694	02/10/2023	Maintenance	801	997 : WOODVIEW ESTATES	$94,493.48	Demand	C.L. Trucking & Excavating, LLC (50836)	02/22/2023	02/22/2023	524792	☑	☐
19695	02/10/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$91,472.40	Demand	MWT, LLC (50930)	02/22/2023	02/22/2023	524814	☑	☐
19696	02/10/2023	Recording Fee	801	944 : WATSON NO. TWO	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	02/22/2023	02/22/2023	524752	☑	☐
19697	02/12/2023	Maintenance	801	495 : GLEN NO. TWO	$353,240.84	Demand	JACKSON DIRT WORKS (12412)	02/22/2023	02/22/2023	524805	☑	☐
19698	02/19/2023	Purchase Agreement Deposit	801	238 : BANK INTERCOUNTY	$10,000.00	Demand	ATA MIDSTATE TITLE (62204)	02/22/2023	02/22/2023	524751	☑	☐
19699	02/19/2023	Purchase Agreement Deposit	801	238 : BANK INTERCOUNTY	$5,000.00	Demand	SPICER GROUP INC. (9131)	02/22/2023	02/22/2023	524822	☑	☐
19700	02/19/2023	Publication	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$154.00	Demand	USA Today Network (40997)	03/01/2023	03/01/2023	524885	☑	☐
19701	02/19/2023	Publication	801	1011 : BELAIRE HILLS	$490.00	Demand	USA Today Network (40997)	03/01/2023	03/01/2023	524885	☑	☐
19702	02/19/2023	Professional-Legal	801	1011 : BELAIRE HILLS	$282.00	Demand	Clark Hill PLC (52628)	03/01/2023	03/01/2023	524890	☑	☐
19703	02/19/2023	Professional-Legal	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$1,057.50	Demand	Clark Hill PLC (52628)	03/01/2023	03/01/2023	524890	☑	☐
19704	02/19/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,589.59	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/01/2023	03/01/2023	524851	☑	☐
19705	02/24/2023	MS4-Catch Basini Cleaning	801	326 : CARRIER CREEK	$170.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19706	02/24/2023	MS4-Catch Basin Cleaning	801	569 : HUNTER AND BRANCHES	$425.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19707	02/24/2023	MS4-Catch Basin Cleaning	801	985 : WESTLAND PARK	$170.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19708	02/24/2023	MS4 Catch Basin Cleaning	801	666 : SAIER: MILLETT HIGHWAY BRANCH	$85.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19709	02/24/2023	MS4-Catch Basin Cleaning	801	430 : DIMONDALE ESTATES	$170.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19710	02/24/2023	MS4-Catch Basin Cleaning	801	733 : OLD MAID RELAID, HARRIS AND WHALEY	$425.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19711	02/24/2023	MS4-Catch Basin Cleaning	801	569 : HUNTER AND BRANCHES	$340.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19712	02/24/2023	MS4-Catch Basin Cleaning	801	402 : DELTA SECTION 17	$85.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19713	02/24/2023	Maintenance Supplies	801	364 : COX	$49.00	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/08/2023	03/08/2023	524950	☑	☐
19714	02/24/2023	Maintenance Supplies	801	346 : CODDING	$2,689.93	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/08/2023	03/08/2023	524950	☑	☐
19715	02/24/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$10,065.51	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/08/2023	03/08/2023	524950	☑	☐
19716	02/24/2023	Professional-Engineering	801	694 : McGILVRA	$975.50	Demand	SPICER GROUP INC. (9131)	03/08/2023	03/08/2023	525091	☑	☐
19717	02/24/2023	Professional-Engineering	801	240 : BENTLEY & DEPUE	$6,893.75	Demand	SPICER GROUP INC. (9131)	03/08/2023	03/08/2023	525091	☑	☐
19718	02/24/2023	Professional-Engineering	801	659 : MICHIGAN AVENUE AND BRANCHES	$6,944.50	Demand	SPICER GROUP INC. (9131)	03/08/2023	03/08/2023	525091	☑	☐
19719	02/24/2023	Televising-Confined Space	801	913 : TOWAR AND BRANCHES	$2,910.00	Demand	M & K Jetting and Televising LLC (60039)	03/08/2023	03/08/2023	525064	☑	☐
19720	02/24/2023	Maintenance Supplies	801	913 : TOWAR AND BRANCHES	$225.53	Demand	EJ USA Inc. (East Jordan) (60648)	03/08/2023	03/08/2023	525040	☑	☐
19721	02/24/2023	Professional-Title Search	801	1011 : BELAIRE HILLS	$325.00	Demand	CHIRCO TITLE AGENCY INC. (62454)	03/08/2023	03/08/2023	525024	☑	☐
19722	02/24/2023	Professional-Title Search	801	1011 : BELAIRE HILLS	$325.00	Demand	CHIRCO TITLE AGENCY INC. (62454)	03/08/2023	03/08/2023	525024	☑	☐
19723	02/24/2023	Professional-Legal	801	619 : LEMON	$322.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/08/2023	03/08/2023	525041	☑	☐
19724	02/24/2023	Recording Fee	801	402 : DELTA SECTION 17	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	03/08/2023	03/08/2023	524952	☑	☐
19725	02/24/2023	Recording Fee	801	402 : DELTA SECTION 17	$60.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	03/08/2023	03/08/2023	524952	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19726	02/24/2023	Professional-Engineering	801	370 : CUMMINGS	$12,850.65	Demand	LRE Engineers & Surveyors (60811)	03/08/2023	03/08/2023	525057	☑	☐
19727	02/24/2023	Professional-Engineering	801	997 : WOODVIEW ESTATES	$10,182.04	Demand	LRE Engineers & Surveyors (60811)	03/08/2023	03/08/2023	525057	☑	☐
19728	02/24/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$16,434.10	Demand	LRE Engineers & Surveyors (60811)	03/08/2023	03/08/2023	525057	☑	☐
19729	02/24/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$13,776.12	Demand	LRE Engineers & Surveyors (60811)	03/08/2023	03/08/2023	525057	☑	☐
19730	02/24/2023	Professional-Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$1,810.63	Demand	LRE Engineers & Surveyors (60811)	03/08/2023	03/08/2023	525057	☑	☐
19731	02/24/2023	Professional-Title Search	801	619 : LEMON	$736.00	Demand	BELL TITLE AGENCY (62433)	03/08/2023	03/08/2023	525019	☑	☐
19732	02/27/2023	Utilities	801	326 : CARRIER CREEK	$98.82	Demand	LANSING BOARD OF WATER & LIGHT (18094)	03/08/2023	03/08/2023	524955	☑	☐
19733	02/27/2023	Utilities	801	326 : CARRIER CREEK	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	03/08/2023	03/08/2023	525059	☑	☐
19734	02/27/2023	Utilities	801	326 : CARRIER CREEK	$80.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	03/08/2023	03/08/2023	524956	☑	☐
19735	03/03/2023	Professional-Engineering	801	769 : POTTER (BENTON)	$1,200.00	Demand	LRE Engineers & Surveyors (60811)	03/15/2023	03/14/2023	525328	☑	☐
19736	03/03/2023	Maintenance	801	814 : ROBINSON	$1,575.00	Demand	ROOTER EXPRESS (41207)	03/15/2023	03/14/2023	525345	☑	☐
19737	03/03/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$37.80	Demand	LANSING BOARD OF WATER & LIGHT (18094)	03/15/2023	03/14/2023	525266	☑	☐
19738	03/03/2023	Professional-Legal	801	883 : SHREVE	$221.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/15/2023	03/14/2023	525320	☑	☐
19739	03/03/2023	Professional-Legal	801	214 : ALLISON HEIGHTS	$709.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/15/2023	03/14/2023	525320	☑	☐
19740	03/03/2023	Professional-Legal	801	370 : CUMMINGS	$471.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/15/2023	03/14/2023	525320	☑	☐
19741	03/03/2023	Professional-Legal	801	409 : DILLON	$60.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/15/2023	03/14/2023	525320	☑	☐
19742	03/03/2023	Professional-Legal	801	752 : PATTERSON & DUBOIS	$457.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/15/2023	03/14/2023	525320	☑	☐
19743	03/03/2023	Publication	801	370 : CUMMINGS	$225.54	Demand	The County Journal (42102)	03/15/2023	03/14/2023	525351	☑	☐
19744	03/03/2023	Professional-Engineering	801	920 : THORNAPPLE AND EXTENSION	$3,089.25	Demand	SPICER GROUP INC. (9131)	03/15/2023	03/14/2023	525347	☑	☐
19745	03/03/2023	Professional-Engineering	801	917 : TRUMBULL	$19,929.50	Demand	CEI - Civil Engineers, Inc. (33986)	03/15/2023	03/14/2023	545308	☑	☐
19746	03/03/2023	Professional-Engineering	801	917 : TRUMBULL	$5,461.50	Demand	CEI - Civil Engineers, Inc. (33986)	03/15/2023	03/14/2023	545308	☑	☐
19747	03/03/2023	Professional-Engineering	801	495 : GLEN NO. TWO	$9,251.00	Demand	CEI - Civil Engineers, Inc. (33986)	03/15/2023	03/14/2023	545308	☑	☐
19748	03/03/2023	Administrative Reimbursement	801	273 : BRIGGS	$96.25	Demand	Ingham County Drain Commissioner (51786)	03/15/2023	03/14/2023	525315	☑	☐
19749	03/03/2023	Inspection Reimbursement	801	591 : INGHAM AND EATON INTERCOUNTY	$255.80	Demand	Ingham County Drain Commissioner (51786)	03/15/2023	03/14/2023	525315	☑	☐
19750	03/03/2023	Administrative Reimbursement	801	238 : BANK INTERCOUNTY	$231.00	Demand	Ingham County Drain Commissioner (51786)	03/15/2023	03/14/2023	525315	☑	☐
19751	03/03/2023	Administrative Reimbursement	801	238 : BANK INTERCOUNTY	$96.25	Demand	Ingham County Drain Commissioner (51786)	03/15/2023	03/14/2023	525315	☑	☐
19752	03/06/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$308,893.50	Demand	JACKSON DIRT WORKS (12412)	03/15/2023	03/14/2023	525326	☑	☐
19753	03/06/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$30,458.25	Demand	MWT, LLC (50930)	03/15/2023	03/14/2023	525336	☑	☐
19754	03/06/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$14,587.38	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/15/2023	03/14/2023	525263	☑	☐
19755	03/06/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/15/2023	03/14/2023	525263	☑	☐
19756	03/06/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$10,833.13	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	03/15/2023	03/14/2023	525263	☑	☐
19757	03/07/2023	Utilities	801	573 : HUTCHINGS	$50.00	Demand	CITY OF CHARLOTTE (5928)	03/15/2023	03/14/2023	525313	☑	☐
19758	03/13/2023	Maintenance	801	573 : HUTCHINGS	$680.00	Demand	ROOTER EXPRESS (41207)	03/22/2023	03/22/2023	525491	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19759	03/13/2023	Maintenance	801	240 : BENTLEY & DEPUE	$525.00	Demand	ROOTER EXPRESS (41207)	03/22/2023	03/22/2023	525491	☑	☐
19760	03/13/2023	Maintenance	801	240 : BENTLEY & DEPUE	$147,674.16	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	03/22/2023	03/22/2023	525479	☑	☐
19761	03/17/2023	Professional-Engineering	801	340 : CLAFLIN	$3,552.97	Demand	LRE Engineers & Surveyors (60811)	03/29/2023	03/29/2023	525645	☑	☐
19762	03/17/2023	Professional-Engineering	801	245 : BIG THORNAPPLE	$3,183.33	Demand	LRE Engineers & Surveyors (60811)	03/29/2023	03/29/2023	525645	☑	☐
19763	03/17/2023	Professional-Engineering	801	549 : HIGBY	$2,018.90	Demand	LRE Engineers & Surveyors (60811)	03/29/2023	03/29/2023	525645	☑	☐
19764	03/17/2023	Professional-Engineering	801	944 : WATSON NO. TWO	$2,202.04	Demand	LRE Engineers & Surveyors (60811)	03/29/2023	03/29/2023	525645	☑	☐
19765	03/17/2023	Professional-Legal	801	944 : WATSON NO. TWO	$982.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/29/2023	03/29/2023	525622	☑	☐
19766	03/17/2023	Professional-Legal	801	944 : WATSON NO. TWO	$100.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/29/2023	03/29/2023	525622	☑	☐
19767	03/17/2023	Professional-Legal	801	619 : LEMON	$756.57	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/29/2023	03/29/2023	525622	☑	☐
19768	03/17/2023	Professional-Legal	801	597 : JOHN EARL	$127.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/29/2023	03/29/2023	525622	☑	☐
19769	03/17/2023	Professional-Legal	801	597 : JOHN EARL	$159.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	03/29/2023	03/29/2023	525622	☑	☐
19770	03/17/2023	Professioinal-Engineering	801	597 : JOHN EARL	$13,182.50	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19771	03/17/2023	Professional-Engineering	801	597 : JOHN EARL	$1,950.00	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19772	03/17/2023	Professional-Engineering	801	617 : LEE	$1,645.25	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19773	03/17/2023	Professional-Engineering	801	552 : HOBART	$7,816.75	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19774	03/17/2023	Professional-Engineering	801	552 : HOBART	$5,385.50	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19775	03/17/2023	Professional-Engineering	801	280 : BROWN (Carmel/Walton)	$4,676.50	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19776	03/17/2023	Professional-Engineering	801	280 : BROWN (Carmel/Walton)	$3,650.00	Demand	SPICER GROUP INC. (9131)	03/29/2023	03/29/2023	525670	☑	☐
19777	03/17/2023	Professional-Engineering	801	619 : LEMON	$7,391.90	Demand	Hubbell, Roth & Clark, Inc. (60657)	03/29/2023	03/29/2023	525635	☑	☐
19778	03/17/2023	Professional-Engineering	801	1011 : BELAIRE HILLS	$15,659.62	Demand	Hubbell, Roth & Clark, Inc. (60657)	03/29/2023	03/29/2023	525635	☑	☐
19779	03/17/2023	Professional-Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$345.51	Demand	Hubbell, Roth & Clark, Inc. (60657)	03/29/2023	03/29/2023	525635	☑	☐
19780	03/19/2023	Publication	801	238 : BANK INTERCOUNTY	$99.65	Demand	USA Today Network (40997)	03/29/2023	03/29/2023	525587	☑	☐
19781	03/19/2023	Mailing	801	238 : BANK INTERCOUNTY	$2,365.89	Demand	REIMOLD PRINTING (62257)	03/29/2023	03/29/2023	525666	☑	☐
19782	03/19/2023	Maintenance	801	346 : CODDING	$5,200.00	Demand	Kepitis Farms LLC (61925)	03/29/2023	03/29/2023	525640	☑	☐
19783	03/19/2023	Maintenance	801	573 : HUTCHINGS	$1,950.00	Demand	M & K Jetting and Televising LLC (60039)	03/29/2023	03/29/2023	525648	☑	☐
19784	03/19/2023	Maintenance Supplies	801	726 : NYE AND EATON	$1,846.04	Demand	ST REGIS CULVERT INC (35605)	03/29/2023	03/29/2023	525671	☑	☐
19785	03/19/2023	Maintenance	801	726 : NYE AND EATON	$4,636.05	Demand	UNKNOWN (Not listed in Config spreadsheet) (62192)	03/29/2023	03/29/2023	525684	☑	☐
19786	03/19/2023	Maintenance	801	777 : PRATT	$725.00	Demand	ROOTER EXPRESS (41207)	03/29/2023	03/29/2023	525667	☑	☐
19787	03/19/2023	Maintenance	801	777 : PRATT	$725.00	Demand	ROOTER EXPRESS (41207)	03/29/2023	03/29/2023	525667	☑	☐
19788	03/20/2023	Maintenance	801	493 : CROOKED BROOK INTERCOUNTY	$6,958.00	Demand	J. SEBASTIAN TRUCKING AND (25637)	03/29/2023	03/29/2023	525638	☑	☐
19789	03/20/2023	Professioinal-Financing	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$10,400.00	Demand	Bendzinski & Co. (60390)	03/29/2023	03/29/2023	525604	☑	☐
19790	03/27/2023	Professional-Engineering	801	769 : POTTER (BENTON)	$2,382.50	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19791	03/27/2023	Professional-Engineering	801	944 : WATSON NO. TWO	$4,505.00	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19792	03/27/2023	Professional-Engineering	801	549 : HIGBY	$2,882.50	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19793	03/27/2023	Professional-Engineering	801	370 : CUMMINGS	$6,201.25	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19794	03/27/2023	Professional-Engineering	801	997 : WOODVIEW ESTATES	$2,800.95	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19795	03/27/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$5,183.69	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19796	03/27/2023	Professional-Engineering	801	360 : COOPER, FROST AND REYNOLDS	$15,045.77	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19797	03/27/2023	Professional-Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$420.00	Demand	LRE Engineers & Surveyors (60811)	04/05/2023	04/05/2023	525894	☑	☐
19798	03/27/2023	Maintenance	801	944 : WATSON NO. TWO	$895.00	Demand	ROOTER EXPRESS (41207)	04/05/2023	04/05/2023	525902	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19799	03/27/2023	Maintenance Supplies	801	240 : BENTLEY & DEPUE	$1,637.30	Demand	ST REGIS CULVERT INC (35605)	04/05/2023	04/05/2023	525905	☑	☐
19800	03/27/2023	Professional-Illicit Discharge	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$2,098.50	Demand	SPICER GROUP INC. (9131)	04/05/2023	04/05/2023	525904	☑	☐
19801	03/27/2023	Professional-Engineering	801	920 : THORNAPPLE AND EXTENSION	$900.00	Demand	SPICER GROUP INC. (9131)	04/05/2023	04/05/2023	525904	☑	☐
19802	03/27/2023	Professional-Engineering	801	240 : BENTLEY & DEPUE	$15,713.75	Demand	SPICER GROUP INC. (9131)	04/05/2023	04/05/2023	525904	☑	☐
19803	03/27/2023	Professional-Engineering	801	280 : BROWN (Carmel/Walton)	$1,260.00	Demand	SPICER GROUP INC. (9131)	04/05/2023	04/05/2023	525904	☑	☐
19804	03/27/2023	Professional-Engineering	801	597 : JOHN EARL	$3,131.50	Demand	SPICER GROUP INC. (9131)	04/05/2023	04/05/2023	525904	☑	☐
19805	03/27/2023	Professional-Engineering	801	694 : McGILVRA	$1,702.00	Demand	SPICER GROUP INC. (9131)	04/05/2023	04/05/2023	525904	☑	☐
19806	03/27/2023	Maintenance-Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,054.60	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	04/05/2023	04/05/2023	525836	☑	☐
19807	03/27/2023	Professional-Legal	801	1011 : BELAIRE HILLS	$446.50	Demand	Clark Hill PLC (52628)	04/05/2023	04/05/2023	525884	☑	☐
19808	03/27/2023	Utilities	801	326 : CARRIER CREEK	$80.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	04/05/2023	04/05/2023	525839	☑	☐
19809	03/27/2023	Utilities	801	326 : CARRIER CREEK	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	04/05/2023	04/05/2023	525840	☑	☐
19810	03/27/2023	Utilities	801	326 : CARRIER CREEK	$92.63	Demand	LANSING BOARD OF WATER & LIGHT (18094)	04/05/2023	04/05/2023	525841	☑	☐
19811	03/27/2023	Professional-Financing	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$12,176.40	Demand	DICKINSON WRIGHT PLLC (8608)	04/05/2023	04/05/2023	525888	☑	☐
19812	03/31/2023	MS4-Catch Basin Cleaning	801	884 : SILVER RIDGE	$850.00	Demand	M & K Jetting and Televising LLC (60039)	04/12/2023	04/12/2023	525928	☑	☐
19813	03/31/2023	Recording Fee	801	944 : WATSON NO. TWO	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	04/12/2023	04/12/2023	525941	☑	☐
19814	03/31/2023	Recording Fee	801	944 : WATSON NO. TWO	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	04/12/2023	04/12/2023	525942	☑	☐
19815	03/31/2023	Maintenance	801	771 : POINTE WEST	$730.00	Demand	Precision Grade Excavating (53323)	04/12/2023	04/12/2023	525931	☑	☐
19816	03/31/2023	Maintenance	801	288 : BUCHANAN	$1,940.00	Demand	Precision Grade Excavating (53323)	04/12/2023	04/12/2023	525931	☑	☐
19817	03/31/2023	Maintenance	801	234 : BEAVER	$1,540.00	Demand	Precision Grade Excavating (53323)	04/12/2023	04/12/2023	525931	☑	☐
19818	03/31/2023	Maintenance	801	817 : ROOT	$10,000.00	Demand	BURKETT EXCAVATING (4658)	04/12/2023	04/12/2023	525921	☑	☐
19819	03/31/2023	Maintenance	801	351 : COLE, WRIGHT AND HELMS	$15,665.00	Demand	BURKETT EXCAVATING (4658)	04/12/2023	04/12/2023	525921	☑	☐
19820	03/31/2023	Maintenance	801	465 : FISHER (BROOKFIELD/WALTON)	$5,460.00	Demand	Kepitis Farms LLC (61925)	04/12/2023	04/12/2023	525925	☑	☐
19821	03/31/2023	Maintenance	801	597 : JOHN EARL	$350.00	Demand	Kepitis Farms LLC (61925)	04/12/2023	04/12/2023	525925	☑	☐
19822	03/31/2023	Maintenance	801	597 : JOHN EARL	$2,800.00	Demand	M & M Outdoor Services (49448)	04/12/2023	04/12/2023	525927	☑	☐
19823	03/31/2023	Maintenance	801	970 : WINCHELL AND UNION	$500.00	Demand	Kepitis Farms LLC (61925)	04/12/2023	04/12/2023	525925	☑	☐
19824	03/31/2023	Maintenance	801	508 : GROAK	$2,000.00	Demand	Kepitis Farms LLC (61925)	04/12/2023	04/12/2023	525925	☑	☐
19825	03/31/2023	Maintenance	801	735 : OLIVET SOUTH SIDE	$500.00	Demand	Kepitis Farms LLC (61925)	04/12/2023	04/12/2023	525925	☑	☐
19826	04/03/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	04/12/2023	04/12/2023	525944	☑	☐
19827	04/03/2023	Engineering-MS4	801	253 : BOLLMAN & DAMON & BRANCHES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19828	04/03/2023	Engineering-MS4	801	272 : BRETTON WOODS	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19829	04/03/2023	Engineering-MS4	801	274 : BROOKS RIVER LANDING	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19830	04/03/2023	Engineering-MS4	801	374 : CAMBRIDGE AND BRANCHES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19831	04/03/2023	Engineering-MS4	801	326 : CARRIER CREEK	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19832	04/03/2023	Engineering-MS4	801	354 : CENTER POINT	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19833	04/03/2023	Engineering-MS4	801	343 : CLEMENTS AND UNDERHILL	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19834	04/03/2023	Engineering-MS4	801	400 : DELTA MILLS	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19835	04/03/2023	Engineering-MS4	801	430 : DIMONDALE ESTATES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19836	04/03/2023	Engineering-MS4	801	411 : DIMONDALE FARMS	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19837	04/03/2023	Engineering-MS4	801	461 : FIGG	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19838	04/03/2023	Engineering-MS4	801	488 : GARFIELD AVENUE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19839	04/03/2023	Engineering-MS4	801	489 : GARLOCK & FOSTER AND BRANCHES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19840	04/03/2023	Engineering-MS4	801	520 : GRAND WOODS	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19841	04/03/2023	Engineering-MS4	801	537 : HARRIETT AVENUE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19842	04/03/2023	Engineering-MS4	801	547 : HETRICK	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19843	04/03/2023	Engineering-MS4	801	569 : HUNTER AND BRANCHES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19844	04/03/2023	Engineering-MS4	801	584 : INGERSOLL	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19845	04/03/2023	Engineering-MS4	801	592 : IRVINGDALE ACRES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19846	04/03/2023	Engineering-MS4	801	596 : JENNE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19847	04/03/2023	Engineering-MS4	801	597 : JOHN EARL	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19848	04/03/2023	Engineering-MS4	801	601 : KELLER	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19849	04/03/2023	Engineering-MS4	801	617 : LEE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19850	04/03/2023	Engineering-MS4	801	646 : MAPLEWOOD	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19851	04/03/2023	Engineering-MS4	801	261 : MCCABE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19852	04/03/2023	Engineering-MS4	801	665 : MILLER (Delta Twp)	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19853	04/03/2023	Engineering-MS4	801	276 : MORRIS	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19854	04/03/2023	Engineering-MS4	801	686 : MURRAY	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19855	04/03/2023	Engineering-MS4	801	688 : MYERS AND HENDERSON	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19856	04/03/2023	Engineering-MS4	801	721 : NELSON	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19857	04/03/2023	Engineering-MS4	801	729 : OAK PARK	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19858	04/03/2023	Engineering-MS4	801	745 : OLD RIVER TRAIL	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19859	04/03/2023	Engineering-MS4	801	746 : PADDLE TOWN SEWER	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19860	04/03/2023	Engineering-MS4	801	780 : PRICE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19861	04/03/2023	Engineering-MS4	801	805 : RENKER ROAD	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19862	04/03/2023	Engineering-MS4	801	815 : RIVER COVE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19863	04/03/2023	Engineering-MS4	801	811 : RIVER RIDGE AND BRANCH	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19864	04/03/2023	Engineering-MS4	801	821 : RUSSELL	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19865	04/03/2023	Engineering-MS4	801	832 : SAIER	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19866	04/03/2023	Engineering-MS4	801	834 : SARATOGA	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19867	04/03/2023	Engineering-MS4	801	856 : SILVER CREEK	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19868	04/03/2023	Engineering-MS4	801	884 : SILVER RIDGE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19869	04/03/2023	Engineering-MS4	801	878 : SUNSHINE GARDENS	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19870	04/03/2023	Engineering-MS4	801	901 : THEO AVENUE	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19871	04/03/2023	Engineering-MS4	801	988 : WALMAR & Branch 4	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19872	04/03/2023	Engineering-MS4	801	935 : WALDO AND BRANCHES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19873	04/03/2023	Engineering-MS4	801	978 : WATSON & WATSON and BRANCHES	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19874	04/03/2023	Engineering-MS4	801	982 : WESTON	$33.53	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19875	04/03/2023	Engineering-MS4	801	955 : WHITNEY	$33.52	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19876	04/03/2023	Engineering-MS4	801	964 : WILLIS-SHAW	$33.52	Demand	SPICER GROUP INC. (9131)	04/12/2023	04/12/2023	525936	☑	☐
19877	04/03/2023	Engineering-MS4	801	981 : WINDSOR	$33.52	Demand	SPICER GROUP INC. (9131)	03/15/2023	04/12/2023	525936	☑	☐
19878	04/04/2023	Maintenance	801	917 : TRUMBULL	$5,200.00	Demand	LOU'S CUTTING EDGE TREE SERVICE LLC (62489)	04/12/2023	04/12/2023	525926	☑	☐
19879	04/10/2023	Professional Engineering	801	752 : PATTERSON & DUBOIS	$300.42	Demand	Hubbell, Roth & Clark, Inc. (60657)	04/19/2023	04/18/2023	526316	☑	☐
19880	04/10/2023	Professional Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$7,830.82	Demand	Hubbell, Roth & Clark, Inc. (60657)	04/19/2023	04/18/2023	526316	☑	☐
19881	04/10/2023	Professional Engineering	801	619 : LEMON	$6,461.98	Demand	Hubbell, Roth & Clark, Inc. (60657)	04/19/2023	04/18/2023	526316	☑	☐
19882	04/10/2023	Professional Engineering	801	1011 : BELAIRE HILLS	$6,528.73	Demand	Hubbell, Roth & Clark, Inc. (60657)	04/19/2023	04/18/2023	526316	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19883	04/10/2023	Professional Legal	801	409 : DILLON	$66.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	04/19/2023	04/18/2023	526314	☑	☐
19884	04/10/2023	Professional Legal	801	917 : TRUMBULL	$849.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	04/19/2023	04/18/2023	526314	☑	☐
19885	04/10/2023	Professional Legal	801	370 : CUMMINGS	$3,054.30	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	04/19/2023	04/18/2023	526314	☑	☐
19886	04/10/2023	Professional Legal	801	619 : LEMON	$559.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	04/19/2023	04/18/2023	526314	☑	☐
19887	04/10/2023	Professional Legal	801	944 : WATSON NO. TWO	$40.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	04/19/2023	04/18/2023	526314	☑	☐
19888	04/10/2023	Professional Legal	801	664 : MILES EARL	$72.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	04/19/2023	04/18/2023	526314	☑	☐
19889	04/10/2023	Maintenance	801	573 : HUTCHINGS	$835.00	Demand	ROOTER EXPRESS (41207)	04/19/2023	04/18/2023	526324	☑	☐
19890	04/10/2023	Recording Fee	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	04/19/2023	04/18/2023	526328	☑	☐
19891	04/10/2023	Maintenance	801	985 : WESTLAND PARK	$1,275.00	Demand	M & K Jetting and Televising LLC (60039)	04/19/2023	04/18/2023	526318	☑	☐
19892	04/10/2023	Maintenance	801	985 : WESTLAND PARK	$595.00	Demand	M & K Jetting and Televising LLC (60039)	04/19/2023	04/18/2023	526318	☑	☐
19893	04/10/2023	Maintenance	801	985 : WESTLAND PARK	$510.00	Demand	M & K Jetting and Televising LLC (60039)	04/19/2023	04/18/2023	526318	☑	☐
19894	04/10/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$9,658.73	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	04/19/2023	04/18/2023	526327	☑	☐
19895	04/10/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$9,658.73	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	04/19/2023	04/18/2023	526327	☑	☐
19896	04/10/2023	Maintenance Supplies	801	573 : HUTCHINGS	$4,082.46	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	04/19/2023	04/18/2023	526327	☑	☐
19897	04/10/2023	Maintenance	801	364 : COX	$11,950.00	Demand	Precision Grade Excavating (53323)	04/19/2023	04/18/2023	526323	☑	☐
19898	04/10/2023	Maintenance	801	306 : BRANCH OF THE DOLAN	$2,692.50	Demand	Precision Grade Excavating (53323)	04/19/2023	04/18/2023	526323	☑	☐
19899	04/10/2023	Professional Engineering	801	917 : TRUMBULL	$7,567.25	Demand	CEI - Civil Engineers, Inc. (33986)	04/19/2023	04/18/2023	526308	☑	☐
19900	04/10/2023	Professional Engineering	801	495 : GLEN NO. TWO	$3,546.00	Demand	CEI - Civil Engineers, Inc. (33986)	04/19/2023	04/18/2023	526308	☑	☐
19901	04/17/2023	Professional Legal	801	1011 : BELAIRE HILLS	$94.00	Demand	Clark Hill PLC (52628)	04/26/2023	04/26/2023	526408	☑	☐
19902	04/17/2023	Professional Legal	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$869.50	Demand	Clark Hill PLC (52628)	04/26/2023	04/26/2023	526408	☑	☐
19903	04/17/2023	Maintenance	801	396 : DECKE	$785.00	Demand	ROOTER EXPRESS (41207)	04/26/2023	04/26/2023	526417	☑	☐
19904	04/17/2023	Maintenance	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$26,650.00	Demand	Precision Grade Excavating (53323)	04/26/2023	04/26/2023	526415	☑	☐
19905	04/17/2023	Maintenance	801	573 : HUTCHINGS	$8,300.00	Demand	Kepitis Farms LLC (61925)	04/26/2023	04/26/2023	526411	☑	☐
19906	04/17/2023	Maintenance	801	977 : WINDSOR GLENS	$340.00	Demand	M & K Jetting and Televising LLC (60039)	04/26/2023	04/26/2023	526413	☑	☐
19907	04/17/2023	Maintenance	801	569 : HUNTER AND BRANCHES	$85.00	Demand	M & K Jetting and Televising LLC (60039)	04/26/2023	04/26/2023	526413	☑	☐
19908	04/17/2023	Maintenance	801	326 : CARRIER CREEK	$340.00	Demand	M & K Jetting and Televising LLC (60039)	04/26/2023	04/26/2023	526413	☑	☐
19909	04/17/2023	Maintenance	801	326 : CARRIER CREEK	$595.00	Demand	M & K Jetting and Televising LLC (60039)	04/26/2023	04/26/2023	526413	☑	☐
19910	04/17/2023	Maintenance	801	569 : HUNTER AND BRANCHES	$170.00	Demand	M & K Jetting and Televising LLC (60039)	04/26/2023	04/26/2023	526413	☑	☐
19911	04/17/2023	Recording Fee	801	944 : WATSON NO. TWO	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	04/26/2023	04/26/2023	526418	☑	☐
19912	04/24/2023	Maintenance Supplies	801	339 : CHURCHILL	$7,551.55	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/03/2023	05/03/2023	526885	☑	☐
19913	04/24/2023	Maintenance Supplies	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$3,142.47	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/03/2023	05/03/2023	526885	☑	☐
19914	04/24/2023	Maintenance Supplies	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$7,803.01	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/03/2023	05/03/2023	526885	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19915	04/24/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$66.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/03/2023	05/03/2023	526875	☑	☐
19916	04/24/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$4,389.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/03/2023	05/03/2023	526857	☑	☐
19917	04/24/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$9,758.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/03/2023	05/03/2023	526857	☑	☐
19918	04/24/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$7,124.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/03/2023	05/03/2023	526857	☑	☐
19919	04/24/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$12,694.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/03/2023	05/03/2023	526857	☑	☐
19920	04/24/2023	Professional Engineering	801	238 : BANK INTERCOUNTY	$19,272.75	Demand	SPICER GROUP INC. (9131)	05/03/2023	05/03/2023	526876	☑	☐
19921	04/24/2023	Maintenance	801	343 : CLEMENTS AND UNDERHILL	$380.00	Demand	M & K Jetting and Televising LLC (60039)	05/03/2023	05/03/2023	526862	☑	☐
19922	04/24/2023	Maintenance	801	537 : HARRIETT AVENUE	$380.00	Demand	M & K Jetting and Televising LLC (60039)	05/03/2023	05/03/2023	526862	☑	☐
19923	04/24/2023	Maintenance	801	985 : WESTLAND PARK	$380.00	Demand	M & K Jetting and Televising LLC (60039)	05/03/2023	05/03/2023	526862	☑	☐
19924	04/24/2023	Maintenance Supplies	801	273 : BRIGGS	$232.00	Demand	NORTHERN CONCRETE PIPE, INC. (36205)	05/03/2023	05/03/2023	526866	☑	☐
19925	04/24/2023	Maintenance	801	398 : DELLWOOD	$875.00	Demand	ROOTER EXPRESS (41207)	05/03/2023	05/03/2023	526875	☑	☐
19926	04/24/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$7,843.14	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19927	04/24/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$17,546.55	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19928	04/24/2023	Professional Engineering	801	338 : CHURCH AND McCLINTIC	$750.00	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19929	04/24/2023	Professional Engineering	801	997 : WOODVIEW ESTATES	$8,965.44	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19930	04/24/2023	Professional Engineering	801	370 : CUMMINGS	$2,535.00	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19931	04/24/2023	Professional Engineering	801	944 : WATSON NO. TWO	$1,391.49	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19932	04/24/2023	Professional Engineering	801	769 : POTTER (BENTON)	$237.50	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19933	04/24/2023	Professional Engineering	801	696 : McMULLEN and BRANCHES	$1,138.77	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19934	04/24/2023	Professional Engineering	801	693 : McDONALD	$170.00	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19935	04/24/2023	Professional Engineering	801	905 : THOMPSON	$212.50	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19936	04/24/2023	Professional Engineering	801	351 : COLE, WRIGHT AND HELMS	$170.00	Demand	LRE Engineers & Surveyors (60811)	05/03/2023	05/03/2023	526861	☑	☐
19937	04/24/2023	Court Reporting	801	238 : BANK INTERCOUNTY	$768.00	Demand	Great Lakes Shorthand Reporting (61427)	05/03/2023	05/03/2023	526884	☑	☐
19938	04/24/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$18,140.00	Demand	DICKINSON WRIGHT PLLC (8608)	05/03/2023	05/03/2023	526852	☑	☐
19939	04/24/2023	Maintenance	801	750 : PARKER INTERCOUNTY	$9,245.90	Demand	Precision Grade Excavating (53323)	05/03/2023	05/03/2023	526872	☑	☐
19940	04/24/2023	Professional Finance	801	238 : BANK INTERCOUNTY	$13,500.00	Demand	Bendzinski & Co. (60390)	05/03/2023	05/03/2023	526845	☑	☐
19941	04/24/2023	Maintenance	801	240 : BENTLEY & DEPUE	$54,744.75	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	05/03/2023	05/03/2023	526863	☑	☐
19942	04/27/2023	Property Acquisition	801	238 : BANK INTERCOUNTY	$108,765.01	Demand	ATA MIDSTATE TITLE (62204)	05/03/2023	05/03/2023	526886	☑	☐
19943	05/01/2023	Utilities	801	326 : CARRIER CREEK	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	05/10/2023	05/10/2023	527008	☑	☐
19944	05/01/2023	Utilities	801	326 : CARRIER CREEK	$80.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	05/10/2023	05/10/2023	527009	☑	☐
19945	05/01/2023	Utilities	801	326 : CARRIER CREEK	$91.85	Demand	LANSING BOARD OF WATER & LIGHT (18094)	05/10/2023	05/10/2023	527010	☑	☐
19946	05/01/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$89.14	Demand	LANSING BOARD OF WATER & LIGHT (18094)	05/10/2023	05/10/2023	527011	☑	☐
19947	04/23/2023	Finance	801	238 : BANK INTERCOUNTY	$3,000.00	Demand	Robert W. Baird & Co. (62514)	05/10/2023	05/10/2023	527000	☑	☐
19948	05/01/2023	Finance	801	238 : BANK INTERCOUNTY	$3,000.00	Demand	Robert W. Baird & Co. (62514)	05/10/2023	05/10/2023	527000	☑	☐
19949	05/01/2023	Professional Engineeering	801	240 : BENTLEY & DEPUE	$11,356.25	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19950	05/01/2023	Professional Engineering	801	694 : McGILVRA	$1,888.50	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19951	05/01/2023	Professional Engineering	801	597 : JOHN EARL	$3,422.75	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19952	05/01/2023	Maintenance	801	869 : STAR TILE INTERCOUNTY	$1,200.00	Demand	Kepitis Farms LLC (61925)	05/10/2023	05/10/2023	526994	☑	☐
19953	05/01/2023	Finance	801	238 : BANK INTERCOUNTY	$4,800.00	Demand	Bendzinski & Co. (60390)	05/10/2023	05/10/2023	526978	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19954	05/01/2023	Professional Engineering	801	752 : PATTERSON & DUBOIS	$1,075.83	Demand	Hubbell, Roth & Clark, Inc. (60657)	05/10/2023	05/10/2023	526991	☑	☐
19955	05/01/2023	Professional Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$12,225.66	Demand	Hubbell, Roth & Clark, Inc. (60657)	05/10/2023	05/10/2023	526991	☑	☐
19956	05/01/2023	Professional Engineering	801	619 : LEMON	$1,149.98	Demand	Hubbell, Roth & Clark, Inc. (60657)	05/10/2023	05/10/2023	526991	☑	☐
19957	05/01/2023	Professional Engineering	801	1011 : BELAIRE HILLS	$10,118.54	Demand	Hubbell, Roth & Clark, Inc. (60657)	05/10/2023	05/10/2023	526991	☑	☐
19958	05/01/2023	Maintenance Supplies	801	240 : BENTLEY & DEPUE	$6,068.82	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/10/2023	05/10/2023	527003	☑	☐
19959	05/01/2023	Maintenance Supplies	801	240 : BENTLEY & DEPUE	$7,904.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/10/2023	05/10/2023	527003	☑	☐
19960	05/01/2023	Maintenance Supplies	801	273 : BRIGGS	$568.13	Demand	EJ USA Inc. (East Jordan) (60648)	05/10/2023	05/10/2023	526988	☑	☐
19961	05/04/2023	Professional Engineering-MS4	801	253 : BOLLMAN & DAMON & BRANCHES	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19962	05/04/2023	Professional Engineering-MS4	801	272 : BRETTON WOODS	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19963	05/04/2023	Professional Engineering-MS4	801	274 : BROOKS RIVER LANDING	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19964	05/04/2023	Professional Engineering-MS4	801	374 : CAMBRIDGE AND BRANCHES	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19965	05/04/2023	Professional Engineering-MS4	801	326 : CARRIER CREEK	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19966	05/04/2023	Professional Engineering-MS4	801	354 : CENTER POINT	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19967	05/04/2023	Professional Engineering-MS4	801	343 : CLEMENTS AND UNDERHILL	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19968	05/04/2023	Professional Engineering-MS4	801	400 : DELTA MILLS	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19969	05/04/2023	Professional Engineering-MS4	801	430 : DIMONDALE ESTATES	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19970	05/04/2023	Professional Engineering-MS4	801	411 : DIMONDALE FARMS	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19971	05/04/2023	Professional Engineering-MS4	801	461 : FIGG	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19972	05/04/2023	Professional Engineering-MS4	801	488 : GARFIELD AVENUE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19973	05/04/2023	Professional Engineering-MS4	801	489 : GARLOCK & FOSTER AND BRANCHES	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	52772527002	☑	☐
19974	05/04/2023	Professional Engineering-MS4	801	520 : GRAND WOODS	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19975	05/04/2023	Professional Engineering-MS4	801	537 : HARRIETT AVENUE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19976	05/04/2023	Professional Engineering-MS4	801	547 : HETRICK	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19977	05/04/2023	Professional Engineering-MS4	801	569 : HUNTER AND BRANCHES	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19978	05/04/2023	Professional Engineering-MS4	801	584 : INGERSOLL	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19979	05/04/2023	Professional Engineering-MS4	801	592 : IRVINGDALE ACRES	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19980	05/04/2023	Professional Engineering-MS4	801	596 : JENNE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19981	05/04/2023	Professional Engineering-MS4	801	597 : JOHN EARL	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19982	05/04/2023	Professional Engineering-MS4	801	601 : KELLER	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19983	05/04/2023	Professional Engineering-MS4	801	617 : LEE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19984	05/04/2023	Professional Engineering-MS4	801	646 : MAPLEWOOD	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19985	05/04/2023	Professional Engineering-MS4	801	261 : MCCABE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
19986	05/04/2023	Professional Engineering-MS4	801	665 : MILLER (Delta Twp)	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19987	05/04/2023	Professional Engineering-MS4	801	276 : MORRIS	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19988	05/04/2023	Professional Engineering-MS4	801	686 : MURRAY	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19989	05/04/2023	Professional Engineering-MS4	801	688 : MYERS AND HENDERSON	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19990	05/04/2023	Professional Engineering-MS4	801	721 : NELSON	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19991	05/04/2023	Professional Engineering-MS4	801	729 : OAK PARK	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19992	05/04/2023	Professional Engineering-MS4	801	745 : OLD RIVER TRAIL	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19993	05/04/2023	Professional Engineering-MS4	801	746 : PADDLE TOWN SEWER	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19994	05/04/2023	Professional Engineering-MS4	801	780 : PRICE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19995	05/04/2023	Professional Engineering-MS4	801	805 : RENKER ROAD	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19996	05/04/2023	Professional Engineering-MS4	801	815 : RIVER COVE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19997	05/04/2023	Professional Engineering-MS4	801	811 : RIVER RIDGE AND BRANCH	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19998	05/04/2023	Professional Engineering-MS4	801	821 : RUSSELL	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
19999	05/04/2023	Professional Engineering-MS4	801	832 : SAIER	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20000	05/04/2023	Professional Engineering-MS4	801	834 : SARATOGA	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20001	05/04/2023	Professional Engineering-MS4	801	856 : SILVER CREEK	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20002	05/04/2023	Professional Engineering-MS4	801	884 : SILVER RIDGE	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20003	05/04/2023	Professional Engineering-MS4	801	878 : SUNSHINE GARDENS	$81.42	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20004	05/04/2023	Professional Engineering-MS4	801	901 : THEO AVENUE	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20005	05/04/2023	Professional Engineering-MS4	801	988 : WALMAR & Branch 4	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20006	05/04/2023	Professional Engineering-MS4	801	935 : WALDO AND BRANCHES	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20007	05/04/2023	Professional Engineering-MS4	801	978 : WATSON & WATSON and BRANCHES	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20008	05/04/2023	Professional Engineering-MS4	801	982 : WESTON	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20009	05/04/2023	Professional Engineering-MS4	801	955 : WHITNEY	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20010	05/04/2023	Professional Engineering-MS4	801	964 : WILLIS-SHAW	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20011	05/04/2023	Professional Engineering-MS4	801	981 : WINDSOR	$81.43	Demand	SPICER GROUP INC. (9131)	05/10/2023	05/10/2023	527002	☑	☐
20012	05/04/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$380,578.50	Demand	JACKSON DIRT WORKS (12412)	05/10/2023	05/10/2023	526993	☑	☐
20013	05/08/2023	Maintenance	801	502 : GILDART AND MUD LAKE	$1,340.00	Demand	Jacob Ireland (62150)	05/17/2023	05/16/2023	527472	☑	☐
20014	05/08/2023	Maintenance	801	422 : DOXTATER	$895.00	Demand	Precision Grade Excavating (53323)	05/17/2023	05/16/2023	527480	☑	☐
20015	05/08/2023	Maintenance	801	291 : BURNS	$1,691.69	Demand	Precision Grade Excavating (53323)	05/17/2023	05/16/2023	527480	☑	☐
20016	05/08/2023	Maintenance	801	398 : DELLWOOD	$1,438.26	Demand	Precision Grade Excavating (53323)	05/17/2023	05/16/2023	527480	☑	☐
20017	05/08/2023	Maintenance	801	496 : GRAGG	$480.52	Demand	Precision Grade Excavating (53323)	05/17/2023	05/16/2023	527480	☑	☐
20018	05/08/2023	Maintenance	801	351 : COLE, WRIGHT AND HELMS	$29,100.00	Demand	BURKETT EXCAVATING (4658)	05/17/2023	05/16/2023	527464	☑	☐

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20019	05/08/2023	Maintenance	801	696 : McMULLEN and BRANCHES	$3,920.00	Demand	BURKETT EXCAVATING (4658)	05/17/2023	05/16/2023	527464	☑	☐
20020	05/08/2023	Maintenance	801	654 : MEAD	$2,100.00	Demand	BURKETT EXCAVATING (4658)	05/17/2023	05/16/2023	527464	☑	☐
20021	05/08/2023	Maintenance	801	537 : HARRIETT AVENUE	$1,200.00	Demand	M & K Jetting and Televising LLC (60039)	05/17/2023	05/16/2023	527474	☑	☐
20022	05/08/2023	MS4 Catch Basin Cleaning	801	354 : CENTER POINT	$170.00	Demand	M & K Jetting and Televising LLC (60039)	05/17/2023	05/16/2023	527474	☑	☐
20023	05/08/2023	MS4 Catch Basin Cleaning	801	326 : CARRIER CREEK	$340.00	Demand	M & K Jetting and Televising LLC (60039)	05/17/2023	05/16/2023	527474	☑	☐
20024	05/08/2023	Maintenance	801	264 : BRADLEY	$4,485.00	Demand	Kepitis Farms LLC (61925)	05/17/2023	05/16/2023	527473	☑	☐
20025	05/08/2023	Maintenance	801	567 : HULL	$1,540.00	Demand	Kepitis Farms LLC (61925)	05/17/2023	05/16/2023	527473	☑	☐
20026	05/08/2023	Legal-Bond Counsel	801	370 : CUMMINGS	$27,250.00	Demand	DICKINSON WRIGHT PLLC (8608)	05/17/2023	05/16/2023	527468	☑	☐
20027	05/08/2023	Legal Financial Advisors	801	370 : CUMMINGS	$24,450.00	Demand	Bendzinski & Co. (60390)	05/17/2023	05/16/2023	527463	☑	☐
20028	05/08/2023	Professional-Legal	801	944 : WATSON NO. TWO	$439.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20029	05/08/2023	Professional-Legal	801	370 : CUMMINGS	$201.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20030	05/08/2023	Professional-Legal	801	917 : TRUMBULL	$1,130.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	51982	☑	☐
20031	05/08/2023	Professional-Legal	801	409 : DILLON	$1,246.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20032	05/08/2023	Professional-Legal	801	617 : LEE	$736.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20033	05/08/2023	Professional-Legal	801	883 : SHREVE	$69.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20034	05/08/2023	Professional-Legal	801	214 : ALLISON HEIGHTS	$66.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20035	05/08/2023	Professional-Legal	801	669 : MILLS AND PRICHARD	$253.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20036	05/08/2023	Professional-Legal	801	769 : POTTER (BENTON)	$296.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/17/2023	05/16/2023	527471	☑	☐
20037	05/08/2023	Recording Fee	801	1011 : BELAIRE HILLS	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	05/17/2023	05/16/2023	527484	☑	☐
20038	05/08/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$6,045.04	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/17/2023	05/16/2023	527483	☑	☐
20039	05/08/2023	Professional-Engineering	801	917 : TRUMBULL	$3,620.00	Demand	CEI - Civil Engineers, Inc. (33986)	05/17/2023	05/16/2023	527467	☑	☐
20040	05/08/2023	Professional-Engineering	801	495 : GLEN NO. TWO	$6,562.75	Demand	CEI - Civil Engineers, Inc. (33986)	05/17/2023	05/16/2023	527467	☑	☐
20041	05/08/2023	Maintenance Supplies	801	273 : BRIGGS	$91.00	Demand	NORTHERN CONCRETE PIPE, INC. (36205)	05/17/2023	05/16/2023	527475	☑	☐
20042	05/15/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$748.79	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	05/24/2023	05/24/2023	527638	☑	☐
20043	05/15/2023	Maintenance	801	346 : CODDING	$4,150.00	Demand	Kepitis Farms LLC (61925)	05/24/2023	05/24/2023	527632	☑	☐
20044	05/15/2023	Maintenance	801	589 : JACARANDA NO. THREE	$170.00	Demand	M & K Jetting and Televising LLC (60039)	05/24/2023	05/24/2023	527633	☑	☐
20045	05/15/2023	Maintenance	801	569 : HUNTER AND BRANCHES	$170.00	Demand	M & K Jetting and Televising LLC (60039)	05/24/2023	05/24/2023	527633	☑	☐
20046	05/15/2023	Maintenance	801	590 : JACARANDA NO. TWO	$85.00	Demand	M & K Jetting and Televising LLC (60039)	05/24/2023	05/24/2023	527633	☑	☐
20047	05/15/2023	Maintenance	801	430 : DIMONDALE ESTATES	$255.00	Demand	M & K Jetting and Televising LLC (60039)	05/24/2023	05/24/2023	527633	☑	☐
20048	05/15/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$35,313.68	Demand	IRON HORSE EXCAVATION (62281)	05/24/2023	05/24/2023	527631	☑	☐
20049	05/15/2023	Recording Fee	801	1011 : BELAIRE HILLS	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	05/24/2023	05/24/2023	527639	☑	☐
20050	05/15/2023	Professional Engineering	801	238 : BANK INTERCOUNTY	$9,328.00	Demand	SPICER GROUP INC. (9131)	05/24/2023	05/24/2023	527636	☑	☐
20051	05/15/2023	Professional Engineering	801	238 : BANK INTERCOUNTY	$9,228.25	Demand	SPICER GROUP INC. (9131)	05/24/2023	05/24/2023	527636	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20052	05/15/2023	Professional Engineering	801	238 : BANK INTERCOUNTY	$19,272.75	Demand	SPICER GROUP INC. (9131)	05/24/2023			☑	☑
20053	05/15/2023	Professional Engineering	801	238 : BANK INTERCOUNTY	$33,144.25	Demand	SPICER GROUP INC. (9131)	05/24/2023	05/24/2023	527636	☑	☐
20054	05/15/2023	Maintenance	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$3,000.00	Demand	Precision Grade Excavating (53323)	05/24/2023	05/24/2023	527634	☑	☐
20055	05/15/2023	Maintenance	801	616 : LAZELL	$5,388.17	Demand	IRON HORSE EXCAVATION (62281)	05/24/2023	05/24/2023	527631	☑	☐
20056	05/15/2023	Maintenance	801	992 : WILLOW WOODS	$1,411.80	Demand	IRON HORSE EXCAVATION (62281)	05/24/2023	05/24/2023	527631	☑	☐
20057	05/15/2023	Maintenance	801	985 : WESTLAND PARK	$1,448.80	Demand	IRON HORSE EXCAVATION (62281)	05/24/2023	05/24/2023	527631	☑	☐
20058	05/15/2023	Maintenance	801	901 : THEO AVENUE	$1,719.90	Demand	IRON HORSE EXCAVATION (62281)	05/24/2023	05/24/2023	527631	☑	☐
20059	05/22/2023	Maintenance Supplies	801	570 : HUNTINGTON AND BRANCHES	$407.23	Demand	EJ USA Inc. (East Jordan) (60648)	05/31/2023	05/31/2023	527882	☑	☐
20060	05/22/2023	Maintenance Supplies	801	985 : WESTLAND PARK	$568.13	Demand	EJ USA Inc. (East Jordan) (60648)	05/31/2023	05/31/2023	527882	☑	☐
20061	05/22/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$4,301.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	05/31/2023	05/31/2023	527884	☑	☐
20062	05/22/2023	Maintenance	801	210 : ARNOLD	$2,250.00	Demand	Eaton Acres Farm Spray Services (60911)	05/31/2023	05/31/2023	527879	☑	☐
20063	05/22/2023	Maintenance	801	669 : MILLS AND PRICHARD	$900.00	Demand	Eaton Acres Farm Spray Services (60911)	05/31/2023	05/31/2023	527879	☑	☐
20064	05/22/2023	Maintenance	801	814 : ROBINSON	$2,475.00	Demand	Eaton Acres Farm Spray Services (60911)	05/31/2023	05/31/2023	527879	☑	☐
20065	05/22/2023	Maintenance Supplies	801	976 : WRIGHT, PARDEE AND MAXSON	$6,350.00	Demand	ST REGIS CULVERT INC (35605)	05/31/2023	05/31/2023	527897	☑	☐
20066	05/22/2023	Maintenance	801	366 : CRONK AND BRANCH ONE	$525.00	Demand	ROOTER EXPRESS (41207)	05/31/2023	05/31/2023	527895	☑	☐
20067	05/22/2023	Professional Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$2,182.42	Demand	LRE Engineers & Surveyors (60811)	05/31/2023	05/31/2023	527887	☑	☐
20068	05/22/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$21,039.83	Demand	LRE Engineers & Surveyors (60811)	05/31/2023	05/31/2023	527887	☑	☐
20069	05/22/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$20,613.74	Demand	LRE Engineers & Surveyors (60811)	05/31/2023	05/31/2023	527887	☑	☐
20070	05/22/2023	Professional Engineering	801	338 : CHURCH AND McCLINTIC	$1,432.67	Demand	LRE Engineers & Surveyors (60811)	05/31/2023	05/31/2023	527887	☑	☐
20071	05/22/2023	Professional Engineering	801	997 : WOODVIEW ESTATES	$4,785.95	Demand	LRE Engineers & Surveyors (60811)	05/31/2023	05/31/2023	527887	☑	☐
20072	05/22/2023	Professional Engineering	801	370 : CUMMINGS	$1,562.50	Demand	LRE Engineers & Surveyors (60811)	05/31/2023	05/31/2023	527887	☑	☐
20073	05/22/2023	Maintenance	801	997 : WOODVIEW ESTATES	$50,736.14	Demand	C.L. Trucking & Excavating, LLC (50836)	05/31/2023	05/31/2023	527877	☑	☐
20074	05/22/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$234,328.50	Demand	MWT, LLC (50930)	05/31/2023	05/31/2023	527890	☑	☐
20075	05/30/2023	Utilities	801	326 : CARRIER CREEK	$36.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	06/07/2023	05/31/2023	527902	☑	☑
20076	05/30/2023	Utilities	801	326 : CARRIER CREEK	$80.00	Demand	LANSING BOARD OF WATER & LIGHT (18094)	06/07/2023	05/31/2023	527903	☑	☐
20077	05/30/2023	Utilities	801	326 : CARRIER CREEK	$76.30	Demand	LANSING BOARD OF WATER & LIGHT (18094)	06/07/2023	05/31/2023	527904	☑	☐
20078	05/30/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$79,476.68	Demand	IRON HORSE EXCAVATION (62281)	06/07/2023	05/31/2023	527965	☑	☐
20079	06/05/2023	Professional Engineering	801	883 : SHREVE	$2,351.00	Demand	SPICER GROUP INC. (9131)	06/14/2023	06/14/2023	528278	☑	☐
20080	06/05/2023	Professional Engineering	801	240 : BENTLEY & DEPUE	$10,535.00	Demand	SPICER GROUP INC. (9131)	06/14/2023	06/14/2023	528278	☑	☐
20081	06/05/2023	Professional Engineering	801	552 : HOBART	$884.00	Demand	SPICER GROUP INC. (9131)	06/14/2023	06/14/2023	528278	☑	☐
20082	06/05/2023	Professional Engineering	801	597 : JOHN EARL	$2,806.25	Demand	SPICER GROUP INC. (9131)	06/14/2023	06/14/2023	528278	☑	☐
20083	06/05/2023	Professional Engineering	801	221 : BARHYTE	$2,976.49	Demand	LRE Engineers & Surveyors (60811)	06/14/2023	06/14/2023	528269	☑	☐
20084	06/05/2023	Professional Engineering	801	905 : THOMPSON	$340.00	Demand	LRE Engineers & Surveyors (60811)	06/14/2023	06/14/2023	528269	☑	☐
20085	06/05/2023	Professional Engineering	801	769 : POTTER (BENTON)	$927.50	Demand	LRE Engineers & Surveyors (60811)	06/14/2023	06/14/2023	528269	☑	☐
20086	06/05/2023	Professional Engineering	801	944 : WATSON NO. TWO	$8,154.76	Demand	LRE Engineers & Surveyors (60811)	06/14/2023	06/14/2023	528269	☑	☐
20087	06/05/2023	Professional Engineering	801	549 : HIGBY	$706.44	Demand	LRE Engineers & Surveyors (60811)	06/14/2023	06/14/2023	528269	☑	☐
20088	06/05/2023	Professional Legal	801	1011 : BELAIRE HILLS	$705.00	Demand	Clark Hill PLC (52628)	06/14/2023	06/14/2023	528259	☑	☐
20089	06/05/2023	Maintenance	801	976 : WRIGHT, PARDEE AND MAXSON	$7,107.30	Demand	Precision Grade Excavating (53323)	06/14/2023	06/14/2023	528277	☑	☐
20090	06/05/2023	Maintenance	801	365 : CRANDALL	$677.95	Demand	Precision Grade Excavating (53323)	06/14/2023	06/14/2023	528277	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20091	06/05/2023	Maintenance	801	750 : PARKER INTERCOUNTY	$4,967.60	Demand	Precision Grade Excavating (53323)	06/14/2023	06/14/2023	528277	☑	☐
20092	06/05/2023	Professional Legal	801	917 : TRUMBULL	$220.50	Demand	The County Journal (42102)	06/14/2023	06/14/2023	528281	☑	☐
20093	06/05/2023	Professional Legal	801	409 : DILLON	$354.48	Demand	The County Journal (42102)	06/14/2023	06/14/2023	528281	☑	☐
20094	06/05/2023	Maintenance Supplies	801	750 : PARKER INTERCOUNTY	$2,687.44	Demand	ST REGIS CULVERT INC (35605)	06/14/2023	06/14/2023	528279	☑	☐
20095	06/05/2023	Maintenance	801	240 : BENTLEY & DEPUE	$59,305.50	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	06/14/2023	06/14/2023	528270	☑	☐
20096	06/05/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$508.76	Demand	LANSING BOARD OF WATER & LIGHT (18094)	06/14/2023	06/14/2023	528286	☑	☐
20097	06/05/2023	Maintenance	801	696 : McMULLEN and BRANCHES	$3,800.00	Demand	Dan Edwards LLC (62556)	06/14/2023	06/14/2023	528262	☑	☐
20098	06/05/2023	Maintenance	801	567 : HULL	$490.00	Demand	Kepitis Farms LLC (61925)	06/14/2023	06/14/2023	528268	☑	☐
20099	06/05/2023	Maintenance	801	396 : DECKE	$1,400.00	Demand	Kepitis Farms LLC (61925)	06/14/2023	06/14/2023	528268	☑	☐
20100	06/05/2023	Maintenance Supplies	801	326 : CARRIER CREEK	$421.70	Demand	CUMMINS BRIDGEWAY (38196)	06/14/2023	06/14/2023	528261	☑	☐
20101	06/05/2023	Maintenance Mowing	801	326 : CARRIER CREEK	$250.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20102	06/05/2023	Maintenance Mowing	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20103	06/05/2023	Maintenance Mowing	801	326 : CARRIER CREEK	$175.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20104	06/05/2023	Maintenance Mowing	801	402 : DELTA SECTION 17	$175.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20105	06/05/2023	Maintenance Mowing	801	452 : FOX RIDGE	$250.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20106	06/05/2023	Maintenance Mowing	801	570 : HUNTINGTON AND BRANCHES	$125.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20107	06/05/2023	Maintenance Mowing	801	616 : LAZELL	$740.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20108	06/05/2023	Maintenance Mowing	801	616 : LAZELL	$275.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20109	06/05/2023	Maintenance Mowing	801	686 : MURRAY	$100.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20110	06/05/2023	Maintenance Mowing	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20111	06/05/2023	Maintenance Mowing	801	688 : MYERS AND HENDERSON	$125.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20112	06/05/2023	Maintenance Mowing	801	688 : MYERS AND HENDERSON	$225.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20113	06/05/2023	Maintenance Mowing	801	935 : WALDO AND BRANCHES	$125.00	Demand	C & B LAWN CARE (52381)	06/14/2023	06/14/2023	528256	☑	☐
20114	06/05/2023	Purchase Agreement	801	238 : BANK INTERCOUNTY	$1,867,134.58	Demand	ATA MIDSTATE TITLE (62204)	06/14/2023	06/14/2023	528283	☑	☐
20115	06/05/2023	Maintenance	801	899 : TAYLOR (Brookfield)	$600.00	Demand	Kepitis Farms LLC (61925)	06/14/2023	06/14/2023	528268	☑	☐
20116	06/05/2023	Maintenance	801	448 : ELLETSON	$600.00	Demand	Kepitis Farms LLC (61925)	06/14/2023	06/14/2023	528268	☑	☐
20117	06/12/2023	Maintenance	801	339 : CHURCHILL	$6,650.00	Demand	Kepitis Farms LLC (61925)	06/21/2023	06/20/2023	528543	☑	☐
20118	06/12/2023	Maintenance	801	986 : WATSON & WATSON: WINDCHARME BR.	$612.00	Demand	MID-MICHIGAN PONDS (46321)	06/21/2023	06/20/2023	528545	☑	☐
20119	06/12/2023	Professional Legal	801	619 : LEMON	$644.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/02/2002	528538	☑	☐
20120	06/12/2023	Professional Legal	801	944 : WATSON NO. TWO	$501.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20121	06/12/2023	Professional Legal	801	769 : POTTER (BENTON)	$100.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20122	06/12/2023	Professional Legal	801	214 : ALLISON HEIGHTS	$247.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20123	06/12/2023	Professional Legal	801	617 : LEE	$299.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20124	06/12/2023	Professional Legal	801	409 : DILLON	$6,686.22	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20125	06/12/2023	Professional Legal	801	917 : TRUMBULL	$2,573.30	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20126	06/12/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$4,295.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	06/21/2023	06/20/2023	528538	☑	☐
20127	06/12/2023	Professional Engineering	801	238 : BANK INTERCOUNTY	$52,099.75	Demand	SPICER GROUP INC. (9131)	06/21/2023	06/20/2023	528551	☑	☐
20128	06/12/2023	Professional Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$35,206.14	Demand	Hubbell, Roth & Clark, Inc. (60657)	06/21/2023	06/20/2023	528540	☑	☐
20129	06/12/2023	Professional Engineering	801	1011 : BELAIRE HILLS	$6,131.24	Demand	Hubbell, Roth & Clark, Inc. (60657)	06/21/2023	06/20/2023	528540	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20130	06/12/2023	Professional Engineering	801	619 : LEMON	$3,858.99	Demand	Hubbell, Roth & Clark, Inc. (60657)	06/21/2023	06/20/2023	528540	☑	☐
20131	06/12/2023	Professional Engineering	801	954 : WHITE & CARPENTER INTERCOUNTY	$1,875.00	Demand	CEI - Civil Engineers, Inc. (33986)	06/21/2023	06/20/2023	528540	☑	☐
20132	06/12/2023	Maintenance	801	238 : BANK INTERCOUNTY	$620.00	Demand	ROOTER EXPRESS (41207)	06/21/2023	06/20/2023	528549	☑	☐
20133	06/12/2023	Maintenance	801	735 : OLIVET SOUTH SIDE	$525.00	Demand	ROOTER EXPRESS (41207)	06/21/2023	06/20/2023	528549	☑	☐
20134	06/12/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	06/21/2023	06/20/2023	528556	☑	☐
20135	06/12/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$715.64	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	06/21/2023	06/20/2023	528556	☑	☐
20136	06/12/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	06/21/2023	06/20/2023	528556	☑	☐
20137	06/12/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	06/21/2023	06/20/2023	528556	☑	☐
20138	06/12/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$761.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	06/21/2023	06/20/2023	528556	☑	☐
20139	06/12/2023	Transfer to Treasurer	801	862 : SNYDER AND WALKER INTERCOUNTY	$4,814.21	Demand	IONIA COUNTY DRAIN COMM. (5170)	06/21/2023	06/20/2023	528542	☑	☐
20140	06/12/2023	Transfer to Treasurer	801	849 : SHELLHORN & REAHM INTERCOUNTY	$490.91	Demand	IONIA COUNTY DRAIN COMM. (5170)	06/21/2023	06/20/2023	528542	☑	☐
20141	06/12/2023	Transfer to Treasurer	801	248 : BLISS AND McCLELLAND INTERCOUNTY	$13,989.59	Demand	IONIA COUNTY DRAIN COMM. (5170)	06/21/2023	06/20/2023	528542	☑	☐
20142	06/12/2023	Transfer to Treasurer	801	826 : REED INTERCOUNTY	$2,579.01	Demand	Clinton County Drain Commissioner (48673)	06/21/2023	06/20/2023	528531	☑	☐
20143	06/12/2023	Transfer to Treasurer	801	571 : HUSTED AND LANDENBERGER INTERCOUNTY	$1,000.00	Demand	Clinton County Drain Commissioner (48673)	06/21/2023	06/20/2023	528531	☑	☐
20144	06/12/2023	Transfer to Treasurer	801	446 : EDWARDS INTERCOUNTY	$307.45	Demand	Clinton County Drain Commissioner (48673)	06/21/2023	06/20/2023	528531	☑	☐
20145	06/12/2023	Transfer to Treasurer	801	494 : GILBERT & WEST TOWN INTERCOUNTY	$4,583.60	Demand	Ingham County Drain Commissioner (51786)	06/21/2023	06/20/2023	528532	☑	☐
20146	06/12/2023	Transfer to Treasurer	801	363 : COUNTY LINE INTERCOUNTY	$25,521.61	Demand	Ingham County Drain Commissioner (51786)	06/21/2023	06/20/2023	528532	☑	☐
20147	06/16/2023	Maintenance Supplies	801	240 : BENTLEY & DEPUE	$27,082.14	Demand	NORTHERN CONCRETE PIPE, INC. (36205)	06/28/2023	06/20/2023	528546	☑	☐
20148	06/16/2023	Maintenance	801	326 : CARRIER CREEK	$3,033.12	Demand	CUMMINS BRIDGEWAY (38196)	06/28/2023	06/20/2023	528533	☑	☐
20149	06/16/2023	Maintenance	801	326 : CARRIER CREEK	$2,766.86	Demand	CUMMINS BRIDGEWAY (38196)	06/28/2023	06/20/2023	528533	☑	☐
20150	06/16/2023	Maintenance	801	326 : CARRIER CREEK	$556.35	Demand	CUMMINS BRIDGEWAY (38196)	06/28/2023	06/20/2023	528533	☑	☐
20151	06/16/2023	Professional Legal	801	1011 : BELAIRE HILLS	$325.00	Demand	CHIRCO TITLE AGENCY INC. (62454)	06/28/2023	06/20/2023	528524	☑	☐
20152	06/16/2023	Professional Legal	801	1011 : BELAIRE HILLS	$325.00	Demand	CHIRCO TITLE AGENCY INC. (62454)	06/28/2023	06/20/2023	528524	☑	☐
20153	06/16/2023	Professional Legal	801	1011 : BELAIRE HILLS	$325.00	Demand	CHIRCO TITLE AGENCY INC. (62454)	06/28/2023	06/20/2023	528524	☑	☐
20154	06/16/2023	Maintenance	801	854 : SHRONTZ	$2,890.00	Demand	C & H Underground, LLC (48993)	06/28/2023	06/20/2023	528521	☑	☐
20155	06/16/2023	Professional Engineering	801	230 : BATTLE CREEK INTERCOUNTY	$1,231.89	Demand	Hubbell, Roth & Clark, Inc. (60657)	06/28/2023	06/20/2023	528541	☑	☐
20156	06/16/2023	Professional Engineering	801	210 : ARNOLD	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528552	☑	☐
20157	06/16/2023	Professional Engineering	801	234 : BEAVER	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20158	06/16/2023	Professional Engineering	801	236 : BELLOWS	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20159	06/16/2023	Professional Engineering	801	306 : BRANCH OF THE DOLAN	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20160	06/16/2023	Professional Engineering	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20161	06/16/2023	Professional Engineering	801	665 : MILLER (Delta Twp)	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20162	06/16/2023	Professional Engineering	801	670 : MITCHELL (BENTON)	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20163	06/16/2023	Professional Engineering	801	683 : MUNSON	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20164	06/16/2023	Professional Engineering	801	772 : POTTER AND MULLIKEN (EATON ONLY)	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20165	06/16/2023	Professional Engineering	801	910 : THUMA	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20166	06/16/2023	Professional Engineering	801	320 : WESTCHARME	$168.52	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20167	06/16/2023	Professional Engineering	801	970 : WINCHELL AND UNION	$168.53	Demand	SPICER GROUP INC. (9131)	06/28/2023	06/20/2023	528550	☑	☐
20168	06/22/2023	Professional Legal	801	1011 : BELAIRE HILLS	$728.50	Demand	Clark Hill PLC (52628)	07/05/2023	07/05/2023	528802	☑	☐
20169	06/22/2023	Professional Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$420.00	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20170	06/22/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$14,682.20	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20171	06/22/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$15,667.39	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20172	06/22/2023	Professional Engineering	801	338 : CHURCH AND McCLINTIC	$689.96	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20173	06/22/2023	Professional Engineering	801	370 : CUMMINGS	$3,828.22	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20174	06/22/2023	Professional Engineering	801	997 : WOODVIEW ESTATES	$5,367.61	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20175	06/22/2023	Professional Engineering	801	221 : BARHYTE	$502.33	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20176	06/22/2023	Professional Engineering	801	549 : HIGBY	$859.96	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20177	06/22/2023	Professional Engineering	801	944 : WATSON NO. TWO	$6,010.93	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20178	06/15/2023	Professional Engineering	801	769 : POTTER (BENTON)	$397.50	Demand	LRE Engineers & Surveyors (60811)	07/05/2023	07/05/2023	528809	☑	☐
20179	06/22/2023	Professional Engineering	801	299 : BUTTERNUT CR., TILSON BR. AND BRYAN	$2,007.00	Demand	SPICER GROUP INC. (9131)	07/05/2023	07/05/2023	528815	☑	☐
20180	06/22/2023	Maintenance	801	234 : BEAVER	$897.64	Demand	Precision Grade Excavating (53323)	07/05/2023	07/05/2023	528813	☑	☐
20181	06/22/2023	Maintenance Supplies	801	420 : DOXIE AND EXTENSION	$11,759.18	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/05/2023	07/05/2023	528818	☑	☐
20182	06/22/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$668.00	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/05/2023	07/05/2023	528818	☑	☐
20183	06/22/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$12,153.50	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/05/2023	07/05/2023	528818	☑	☐
20184	06/22/2023	Maintenance	801	326 : CARRIER CREEK	$2,791.19	Demand	CUMMINS BRIDGEWAY (38196)	07/05/2023	07/05/2023	528803	☑	☐
20185	06/22/2023	Maintenance	801	326 : CARRIER CREEK	$421.70	Demand	CUMMINS BRIDGEWAY (38196)	07/05/2023	07/05/2023	528803	☑	☐
20186	06/22/2023	Maintenance	801	493 : CROOKED BROOK INTERCOUNTY	$4,145.75	Demand	JACKSON DIRT WORKS (12412)	07/05/2023	07/05/2023	528808	☑	☐
20187	06/22/2023	Maintenance	801	985 : WESTLAND PARK	$680.00	Demand	M & K Jetting and Televising LLC (60039)	07/05/2023	07/05/2023	528811	☑	☐
20188	06/22/2023	Maintenance	801	887 : SWEETWATER PINES	$4,000.00	Demand	LOU'S CUTTING EDGE TREE SERVICE LLC (62489)	07/05/2023	07/05/2023	528823	☑	☐
20189	06/22/2023	Maintenance	801	913 : TOWAR AND BRANCHES	$1,206.70	Demand	IRON HORSE EXCAVATION (62281)	07/05/2023	07/05/2023	528807	☑	☐
20190	06/22/2023	Maintenance	801	253 : BOLLMAN & DAMON & BRANCHES	$446.80	Demand	IRON HORSE EXCAVATION (62281)	07/05/2023	07/05/2023	528807	☑	☐
20191	06/22/2023	Maintenance	801	783 : PLAYERS CLUB	$1,361.80	Demand	IRON HORSE EXCAVATION (62281)	07/05/2023	07/05/2023	528807	☑	☐
20192	06/22/2023	Maintenance	801	253 : BOLLMAN & DAMON & BRANCHES	$1,299.20	Demand	IRON HORSE EXCAVATION (62281)	07/05/2023	07/05/2023	528807	☑	☐
20193	06/22/2023	Maintenance	801	326 : CARRIER CREEK	$1,000.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20194	06/26/2023	Maintenance	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20195	06/26/2023	Maintenance	801	326 : CARRIER CREEK	$350.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20196	06/26/2023	Maintenance	801	452 : FOX RIDGE	$500.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20197	06/26/2023	Maintenance	801	570 : HUNTINGTON AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20198	06/26/2023	Maintenance	801	616 : LAZELL	$550.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20199	06/26/2023	Maintenance	801	616 : LAZELL	$2,220.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20200	06/26/2023	Maintenance	801	686 : MURRAY	$200.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20201	06/26/2023	Maintenance	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20202	06/26/2023	Maintenance	801	688 : MYERS AND HENDERSON	$450.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20203	06/26/2023	Maintenance	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20204	06/26/2023	Maintenance	801	935 : WALDO AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20205	06/26/2023	Maintenance	801	402 : DELTA SECTION 17	$350.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20206	06/26/2023	Maintenance	801	273 : BRIGGS	$250.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20207	06/26/2023	Maintenance	801	326 : CARRIER CREEK	$325.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20208	06/26/2023	Maintenance	801	326 : CARRIER CREEK	$375.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20209	06/26/2023	Maintenance	801	326 : CARRIER CREEK	$150.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20210	06/26/2023	Maintenance	801	326 : CARRIER CREEK	$175.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20211	06/26/2023	Maintenance	801	323 : CARMAN	$300.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20212	06/26/2023	Maintenance	801	970 : WINCHELL AND UNION	$1,100.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20213	06/26/2023	Maintenance	801	616 : LAZELL	$250.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20214	06/26/2023	Maintenance	801	617 : LEE	$150.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20215	06/26/2023	Maintenance	801	688 : MYERS AND HENDERSON	$225.00	Demand	C & B LAWN CARE (52381)	07/05/2023	07/05/2023	528798	☑	☐
20216	06/26/2023	Maintenance Supplies	801	420 : DOXIE AND EXTENSION	$10,854.62	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/05/2023	07/05/2023	528818	☑	☐
20217	06/26/2023	Professional Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$40,058.71	Demand	Hubbell, Roth & Clark, Inc. (60657)	07/05/2023	07/05/2023	528806	☑	☐
20218	06/26/2023	Professional Engineering	801	426 : DUFFY AND EXTENSION	$2,744.14	Demand	Hubbell, Roth & Clark, Inc. (60657)	07/05/2023	07/05/2023	528806	☑	☐
20219	06/26/2023	Professional Engineering	801	917 : TRUMBULL	$9,809.25	Demand	CEI - Civil Engineers, Inc. (33986)	07/04/2023	07/05/2023	528801	☑	☐
20220	06/26/2023	Professional Engineering	801	495 : GLEN NO. TWO	$10,063.75	Demand	CEI - Civil Engineers, Inc. (33986)	07/05/2023	07/05/2023	528801	☑	☐
20221	06/26/2023	Utilities	801	238 : BANK INTERCOUNTY	$264.00	Demand	Detection Systems & Engineering (62564)	07/05/2023	07/05/2023	528804	☑	☐
20222	06/26/2023	Utilities	801	238 : BANK INTERCOUNTY	$197.24	Demand	DELTA CHARTER TOWNSHIP (1999)	07/05/2023	07/05/2023	528819	☑	☐
20223	06/26/2023	Recording Fee	801	1023 : HARVEST PARK	$90.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	07/05/2023	07/05/2023	528820	☑	☐
20224	07/03/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$480.98	Demand	LANSING BOARD OF WATER & LIGHT (18094)	07/12/2023	07/12/2023	528930	☑	☐
20225	07/03/2023	Utilities	801	326 : CARRIER CREEK	$37.33	Demand	LANSING BOARD OF WATER & LIGHT (18094)	07/12/2023	07/12/2023	528931	☑	☐
20226	07/03/2023	Utilities	801	326 : CARRIER CREEK	$130.56	Demand	LANSING BOARD OF WATER & LIGHT (18094)	07/12/2023	07/12/2023	528932	☑	☐
20227	07/03/2023	Utilities	801	326 : CARRIER CREEK	$63.23	Demand	LANSING BOARD OF WATER & LIGHT (18094)	07/12/2023	07/12/2023	528933	☑	☐
20228	07/03/2023	Maintenance	801	691 : McCREERY	$33,200.00	Demand	MWT, LLC (50930)	07/12/2023	07/12/2023	529005	☑	☐
20229	07/03/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$130,500.45	Demand	MWT, LLC (50930)	07/12/2023	07/12/2023	529005	☑	☐
20230	07/03/2023	Maintenance	801	360 : COOPER, FROST AND REYNOLDS	$308,373.30	Demand	JACKSON DIRT WORKS (12412)	07/12/2023	07/12/2023	528992	☑	☐
20231	07/10/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,679.98	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20232	07/10/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$13,695.67	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20233	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$4,419.20	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20234	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20235	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20236	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20237	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20238	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20239	07/10/2023	Maintenance Supplies	801	370 : CUMMINGS	$6,628.80	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	07/19/2023	07/18/2023	529192	☑	☐
20240	07/10/2023	Maintenance	801	750 : PARKER INTERCOUNTY	$3,900.00	Demand	DOUBLE Ds TREE SERVICE PLUS (62576)	07/19/2023	07/18/2023	529169	☑	☐
20241	07/10/2023	Maintenance	801	406 : DENSMORE, PERKINS & FISH CREEK	$34,200.00	Demand	Precision Grade Excavating (53323)	07/19/2023	07/18/2023	529184	☑	☐
20242	07/10/2023	Maintenance Supplies	801	406 : DENSMORE, PERKINS & FISH CREEK	$22,954.60	Demand	ST REGIS CULVERT INC (35605)	07/19/2023	07/18/2023	529186	☑	☐
20243	07/10/2023	Maintenance	801	573 : HUTCHINGS	$1,500.00	Demand	M & K Jetting and Televising LLC (60039)	07/19/2023	07/18/2023	529179	☑	☐
20244	07/10/2023	Maintenance	801	261 : MCCABE	$255.00	Demand	M & K Jetting and Televising LLC (60039)	07/19/2023	07/18/2023	529179	☑	☐
20245	07/10/2023	Professional Legal	801	769 : POTTER (BENTON)	$176.30	Demand	The County Journal (42102)	07/19/2023	07/18/2023	529188	☑	☐
20246	07/10/2023	Board of Determination	801	769 : POTTER (BENTON)	$70.96	Demand	Rob Piercefield (15628)	07/19/2023	07/18/2023	529182	☑	☐
20247	07/10/2023	Board of Determination	801	769 : POTTER (BENTON)	$60.48	Demand	Don Cooley (60447)	07/19/2023	07/18/2023	529166	☑	☐
20248	07/10/2023	Board of Determination	801	769 : POTTER (BENTON)	$65.72	Demand	Steve Willard (49517)	07/19/2023	07/18/2023	529190	☑	☐
20249	07/10/2023	Recording Fee	801	619 : LEMON	$60.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	07/19/2023	07/18/2023	529193	☑	☐
20250	07/10/2023	Recording Fee	801	619 : LEMON	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	07/19/2023	07/18/2023	529193	☑	☐
20251	07/10/2023	Professional Engineering	801	619 : LEMON	$13,966.11	Demand	Hubbell, Roth & Clark, Inc. (60657)	07/19/2023	07/18/2023	529175	☑	☐
20252	07/10/2023	Professional Engineering	801	1011 : BELAIRE HILLS	$21,966.98	Demand	Hubbell, Roth & Clark, Inc. (60657)	07/19/2023	07/18/2023	529175	☑	☐
20253	07/10/2023	Professional Engineering	801	294 : BURNS VILLAGE AND EXTENSION	$437.00	Demand	SPICER GROUP INC. (9131)	07/19/2023	07/18/2023	529185	☑	☐
20254	07/10/2023	Professional Engineering	801	597 : JOHN EARL	$5,011.50	Demand	SPICER GROUP INC. (9131)	07/19/2023	07/18/2023	529185	☑	☐
20255	07/10/2023	Professional Engineering	801	694 : McGILVRA	$1,943.75	Demand	SPICER GROUP INC. (9131)	07/19/2023	07/18/2023	529185	☑	☐
20256	07/10/2023	Professional Engineering	801	240 : BENTLEY & DEPUE	$37,927.13	Demand	SPICER GROUP INC. (9131)	07/19/2023	07/18/2023	529185	☑	☐
20257	07/10/2023	Professional Engineering	801	1023 : HARVEST PARK	$1,126.50	Demand	SPICER GROUP INC. (9131)	07/19/2023	07/18/2023	529185	☑	☐
20258	07/10/2023	Professional Legal	801	1023 : HARVEST PARK	$2,046.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20259	07/10/2023	Professional Legal	801	1023 : HARVEST PARK	$153.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20260	07/11/2023	Professional Legal	801	1023 : HARVEST PARK	$92.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20261	07/11/2023	Professional Legal	801	597 : JOHN EARL	$53.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20262	07/11/2023	Professional Legal	801	769 : POTTER (BENTON)	$2,461.51	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20263	07/11/2023	Professional Legal	801	619 : LEMON	$1,711.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20264	07/11/2023	Professional Legal	801	944 : WATSON NO. TWO	$2,504.30	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20265	07/11/2023	Professional Legal	801	238 : BANK INTERCOUNTY	$3,533.50	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	07/19/2023	07/18/2023	529172	☑	☐
20266	07/11/2023	Transfer to Treasurer	801	540 : HART INTEROCUNTY	$1,126.39	Demand	IONIA COUNTY DRAIN COMM. (5170)	07/19/2023	07/18/2023	529176	☑	☐
20267	07/11/2023	Professional Legal	801	769 : POTTER (BENTON)	$375.00	Demand	Great Lakes Shorthand Reporting (61427)	07/19/2023	07/18/2023	529191	☑	☐
20268	07/11/2023	Maintenance	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$140,586.21	Demand	IRON HORSE EXCAVATION (62281)	07/19/2023	07/18/2023	529177	☑	☐
20269	07/11/2023	Maintenance	801	420 : DOXIE AND EXTENSION	$30,250.00	Demand	JACKSON DIRT WORKS (12412)	07/19/2023	07/18/2023	529178	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20270	07/11/2023	Maintenance	801	420 : DOXIE AND EXTENSION	$14,000.00	Demand	JACKSON DIRT WORKS (12412)	07/19/2023	07/18/2023	529178	☑	☐
20271	07/17/2023	Professional Legal	801	861 : SMITH AND EVANS INTERCOUNTY	$1,195.50	Demand	Vlahakis Cole Law Firm (61403)	07/26/2023	07/26/2023	529313	☑	☐
20272	07/17/2023	Professional Financing	801	409 : DILLON	$13,500.00	Demand	STANDARD AND POOR'S (23701)	07/26/2023	07/26/2023	529310	☑	☐
20273	07/17/2023	Recording Fee	801	619 : LEMON	$30.00	Demand	EATON COUNTY REGISTER OF DEEDS (10469)	07/26/2023	07/26/2023	529317	☑	☐
20274	07/17/2023	Maintenance	801	981 : WINDSOR	$340.00	Demand	M & K Jetting and Televising LLC (60039)	07/26/2023	07/26/2023	529300	☑	☐
20275	07/17/2023	Maintenance	801	430 : DIMONDALE ESTATES	$170.00	Demand	M & K Jetting and Televising LLC (60039)	07/26/2023	07/26/2023	529300	☑	☐
20276	07/17/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$21,766.63	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20277	07/17/2023	Professional Engineering	801	360 : COOPER, FROST AND REYNOLDS	$55,601.05	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20278	07/17/2023	Professional Engineering	801	997 : WOODVIEW ESTATES	$3,939.64	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20279	07/17/2023	Professional Engineering	801	370 : CUMMINGS	$4,979.49	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20280	07/17/2023	Professional Engineering	801	493 : CROOKED BROOK INTERCOUNTY	$2,130.00	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20281	07/17/2023	Professional Engineering	801	769 : POTTER (BENTON)	$1,713.77	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20282	07/17/2023	Professional Engineering	801	406 : DENSMORE, PERKINS & FISH CREEK	$1,691.27	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20283	07/17/2023	Professional Engineering	801	944 : WATSON NO. TWO	$3,112.23	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20284	07/17/2023	Professional Engineering	801	549 : HIGBY	$1,118.12	Demand	LRE Engineers & Surveyors (60811)	07/26/2023	07/26/2023	529298	☑	☐
20285	07/17/2023	Maintenance	801	240 : BENTLEY & DEPUE	$440,008.86	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	07/26/2023	07/26/2023	529301	☑	☐
20286	07/17/2023	Professional Services	801	944 : WATSON NO. TWO	$163.25	Demand	USA Today Network (40997)	07/26/2023	07/26/2023	529340	☑	☐
20287	07/17/2023	Maintenance	801	735 : OLIVET SOUTH SIDE	$1,845.66	Demand	IRON HORSE EXCAVATION (62281)	07/26/2023	07/26/2023	529296	☑	☐
20288	07/24/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$10,269.26	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/02/2023	08/02/2023	529456	☑	☐
20289	07/24/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$9,168.08	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/02/2023	08/02/2023	519456	☑	☐
20290	07/24/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$9,168.08	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/02/2023	08/02/2023	529456	☑	☐
20291	07/24/2023	Professional-Legal	801	1011 : BELAIRE HILLS	$540.50	Demand	Clark Hill PLC (52628)	08/02/2023	08/02/2023	529493	☑	☐
20292	07/24/2023	Publication-Advertising	801	409 : DILLON	$1,535.00	Demand	ARIZENT (34328)	08/02/2023	08/02/2023	529482	☑	☐
20293	07/24/2023	Publication-Advertising	801	917 : TRUMBULL	$1,535.00	Demand	ARIZENT (34328)	08/02/2023	08/02/2023	529482	☑	☐
20294	07/24/2023	Maintenance	801	726 : NYE AND EATON	$19,800.00	Demand	BURKETT EXCAVATING (4658)	08/02/2023	08/02/2023	529487	☑	☐
20295	07/24/2023	Maintenance	801	845 : SHARP	$16,668.00	Demand	BURKETT EXCAVATING (4658)	08/02/2023	08/02/2023	529487	☑	☐
20296	07/24/2023	Maintenance	801	355 : COLTON	$11,000.00	Demand	BURKETT EXCAVATING (4658)	08/02/2023	08/02/2023	529487	☑	☐
20297	07/24/2023	Maintenance	801	242 : BENTON	$4,125.00	Demand	BURKETT EXCAVATING (4658)	08/02/2023	08/02/2023	529487	☑	☐
20298	07/24/2023	Professional Engineering	801	752 : PATTERSON & DUBOIS	$148.50	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/02/2023	08/02/2023	529509	☑	☐
20299	07/24/2023	Professional-Engineering	801	987 : WATSON & WATSON: CHRIS J. DRIVE BR.	$23,673.62	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/02/2023	08/02/2023	529509	☑	☐
20300	07/24/2023	Professional-Engineering	801	426 : DUFFY AND EXTENSION	$1,253.67	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/02/2023	08/02/2023	529509	☑	☐
20301	07/24/2023	Professional Engineering	801	1011 : BELAIRE HILLS	$33,417.00	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/02/2023	08/02/2023	529509	☑	☐
20302	07/24/2023	Professional Engineering	801	619 : LEMON	$24,584.47	Demand	Hubbell, Roth & Clark, Inc. (60657)	08/02/2023	08/02/2023	529509	☑	☐
20303	07/24/2023	Maintenance-Mowing	801	238 : BANK INTERCOUNTY	$800.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20304	07/24/2023	Maintenance-Mowing	801	326 : CARRIER CREEK	$350.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20305	07/24/2023	Maintenance-Mowing	801	326 : CARRIER CREEK	$1,000.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20306	07/24/2023	Maintenance-Mowing	801	402 : DELTA SECTION 17	$350.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20307	07/24/2023	Maintenance-Mowing	801	452 : FOX RIDGE	$500.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20308	07/24/2023	Maintenance-Mowing	801	463 : FIELDSTONE FARMS AND BRANCHES	$850.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20309	07/24/2023	Maintenance-Mowing	801	570 : HUNTINGTON AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20310	07/24/2023	Maintenance-Mowing	801	326 : CARRIER CREEK	$500.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20311	07/24/2023	Maintenance-Mowing	801	616 : LAZELL	$550.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20312	07/24/2023	Maintenance-Mowing	801	616 : LAZELL	$2,220.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20313	07/24/2023	Maintenance-Mowing	801	686 : MURRAY	$200.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20314	07/24/2023	Maintenance-Mowing	801	688 : MYERS AND HENDERSON	$250.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2032	529488	☑	☐
20315	07/24/2023	Maintenance-Mowing	801	688 : MYERS AND HENDERSON	$450.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20316	07/24/2023	Maintenance-Mowing	801	688 : MYERS AND HENDERSON	$500.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20317	07/24/2023	Maintenance-Mowing	801	935 : WALDO AND BRANCHES	$250.00	Demand	C & B LAWN CARE (52381)	08/02/2023	08/02/2023	529488	☑	☐
20318	07/24/2023	Utilities	801	238 : BANK INTERCOUNTY	$197.24	Demand	DELTA CHARTER TOWNSHIP (1999)	08/02/2023	08/02/2023	529459	☑	☐
20319	07/24/2023	Utilities	801	238 : BANK INTERCOUNTY	$16.00	Demand	CONSUMERS ENERGY (6659)	08/02/2023	08/02/2023	529458	☑	☐
20320	07/31/2023	Utilities	801	326 : CARRIER CREEK	$59.12	Demand	LANSING BOARD OF WATER & LIGHT (18094)	08/09/2023			☑	☐
20321	07/31/2023	Utilities	801	326 : CARRIER CREEK	$40.38	Demand	LANSING BOARD OF WATER & LIGHT (18094)	08/09/2023			☑	☐
20322	07/31/2023	Utilities	801	326 : CARRIER CREEK	$147.74	Demand	LANSING BOARD OF WATER & LIGHT (18094)	08/09/2023			☑	☐
20323	07/31/2023	Maintenance Supplies	801	240 : BENTLEY & DEPUE	$7,096.13	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/09/2023			☑	☐
20324	07/31/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$435.17	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/09/2023			☑	☐
20325	07/31/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$8,149.41	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/09/2023			☑	☐
20326	07/31/2023	Maintenance	801	495 : GLEN NO. TWO	$1,210.25	Demand	Precision Grade Excavating (53323)	08/09/2023			☑	☐
20327	07/31/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,640.07	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/09/2023			☑	☐
20328	07/31/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$7,512.35	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/09/2023			☑	☐
20329	07/31/2023	Utilities	801	238 : BANK INTERCOUNTY	$17,727.80	Demand	LANSING BOARD OF WATER & LIGHT (18094)	08/09/2023			☑	☐
20330	07/31/2023	Utilities	801	986 : WATSON & WATSON: WINDCHARME BR.	$466.44	Demand	LANSING BOARD OF WATER & LIGHT (18094)	08/09/2023			☑	☐
20331	08/07/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$13,888.55	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/16/2023			☑	☐
20332	08/07/2023	Maintenance Supplies	801	360 : COOPER, FROST AND REYNOLDS	$11,485.68	Demand	ADVANCED DRAINAGE SYSTEMS,INC. (3731)	08/16/2023			☑	☐
20333	08/07/2023	Maintenance	801	240 : BENTLEY & DEPUE	$210,653.50	Demand	MEAD BROTHERS EXCAVATING, INC. (7293)	08/16/2023			☑	☐
20334	08/07/2023	Professional-Financing	801	691 : McCREERY	$1,612.50	Demand	DICKINSON WRIGHT PLLC (8608)	08/16/2023			☑	☐
20335	08/07/2023	Professional-Engineering	801	409 : DILLON	$543.75	Demand	CEI - Civil Engineers, Inc. (33986)	08/16/2023			☑	☐
20336	08/07/2023	Professional-Engineering	801	409 : DILLON	$1,876.50	Demand	CEI - Civil Engineers, Inc. (33986)	08/16/2023			☑	☐
20337	08/07/2023	Professional-Engineering	801	409 : DILLON	$15,592.50	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20338	08/07/2023	Professional-Engineering	801	409 : DILLON	$32,164.00	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20339	08/07/2023	Professional-Engineering	801	409 : DILLON	$40,995.50	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20340	08/07/2023	Professional-Engineering	801	214 : ALLISON HEIGHTS	$18,275.25	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20341	08/07/2023	Professional-Engineering	801	420 : DOXIE AND EXTENSION	$2,074.75	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20342	08/07/2023	Professional-Engineering	801	294 : BURNS VILLAGE AND EXTENSION	$442.50	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20343	08/07/2023	Professional-Engineering	801	552 : HOBART	$3,519.75	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐

#	Order Date	Description	Fund #	Drain	Amount	Type	Vendor	Due Date	Check Date	Check #	Posted	Reversed
20344	08/07/2023	Professional-Engineering	801	617 : LEE	$4,515.75	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20345	08/07/2023	Professional-Engineering	801	240 : BENTLEY & DEPUE	$43,393.51	Demand	SPICER GROUP INC. (9131)	08/16/2023			☑	☐
20346	08/07/2023	Professional-Legal	801	769 : POTTER (BENTON)	$247.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	08/16/2023			☑	☐
20347	08/07/2023	Professional-Legal	801	214 : ALLISON HEIGHTS	$23.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	08/16/2023			☑	☐
20348	08/07/2023	Professional-Legal	801	619 : LEMON	$339.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	08/16/2023			☑	☐
20349	08/07/2023	Professional-Legal	801	944 : WATSON NO. TWO	$17.00	Demand	Fahey Schultz Burzych Rhodes PLC (51982)	08/16/2023			☑	☐
						Total: $14,367,745.69						

1548 results

EATON COUNTY

MASTER PLAN

2024-2044

ACKNOWLEDGEMENTS

Eaton County Planning Commission

Brian Ross, Chairperson
Ben Tirrell, Vice Chairperson
Mike Hosey, Secretary
Tim Cattron
Lisa Lawitzke
Zac Dillinger
Bruce Porter
Frank Holmes, Board of Commissioners Ex Officio
Scott Hansen, Board of Commissioners Ex Officio

Eaton County Board of Commissioners

Tim Barnes, District 1
Blake Mulder, District 2
Terrance Augustine, District 3
Brandon Haskell, District 4
Jeanne Pearl-Wright, District 5
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Mark Mudry, District 7
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Brian Droscha, District 9
Jacob Toomey, District 10
Scott Hansen, District 11
Brian Lautzenheiser, District 12
Jim Mott, District 13 - Chairperson
Frank Holmes, District 14
Barbara A. Rogers, District 15 - Vice Chairperson

Township Board of Trustees Participating in County Zoning

Bellevue Township
Brookfield Township
Carmel Township
Chester Township
Eaton Township
Eaton Rapids Township
Kalamo Township
Roxand Township
Sunfield Township
Vermontville Township
Walton Township

Participating Stakeholder Organizations

MSU Extension
Olivet Community Schools
Charlotte Community Library
Maple Valley School District
Tri-County Regional Planning Commission
Eaton County Conservation District
Lansing Economic Area Partnership
Capital Area Transportation Authority
Eaton Transportation Authority
Michigan Department of Transportation
Eaton County Drain Commissioners Office
Eaton County Road Commission
City of Charlotte

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CHAPTER 1

INTRODUCTION

Chapter 1 | Introduction

Why Plan?

In Michigan, communities are *enabled,* not required to prepare a master plan by the Michigan Planning Enabling Act, PA 33 of 2008. The Planning Enabling Act states,

> *A master plan shall address land use and infrastructure issues and may project 20 years or more into the future. A master plan shall include maps, plats, charts, and descriptive, explanatory, and other related matter and shall show the planning commission's recommendations for the physical development of the planning jurisdiction.*

Planning involves the conscious selection of policy choices that balance needs for growth, land preservation, and public facilities according to a public planning process. The master plan is an official Eaton County document that sets forth policies for the future of the community. The purpose of master planning is to identify a clear and compelling vision through a comprehensive set of goals and actions.

Planning Process

While planning is optional, change is inevitable. This master plan provides Eaton County with a lens through which to view the change that has occurred since the last county master plan was adopted in 2011, and a means to project growth and change over the next decade. The master planning process in Eaton County began in August 2022 with a kick-off meeting at the Eaton County Planning Commission, and concluded with adoption of the master plan by the Eaton County Board of Commissioners in Month, 2023. Table 1-1 provides a summary of the overall planning process undertaking by the planning commission.

Table 1-1: Master Plan Update Schedule

Month, Year	Activities
August, 2022	• Kick-Off Meeting
September, 2022	• Establish Public Input Process
October & November, 2022	• Chapter Updates: Community Characteristics, Housing, and Economy.
December 2022 & January 2023	• Stakeholder Input Sessions: o Townships under county zoning jurisdiction (x3) o Regional agencies o Parks, recreation, and environment o Education o Transportation and Public Services • Distribution of Short Community Survey • Press Release on Master Plan Update
February, 2023	• Existing Land Use Analysis
March, 2023	• Chapter Updates: Parks and Recreation, Intergovernmental Cooperation.
April, 2023	• Distribution of Full Community Survey • Training program and final stakeholder meeting.
May, 2023	• Natural Features
June, 2023	• Transportation and Public Services • Goals & Objectives
July – August, 2023	• Future Land Use • Implementation Plan
September – October, 2023	• Review of Future Land Use Plan with Townships

Table 1-1: Master Plan Update Schedule	
Month, Year	**Activities**
November, 2023	• Master Plan Open Houses (x3)
December, 2023	• Approval of draft Master Plan by Planning Commission
January, 2024	• Approval of Plan for formal review by County Board of Commissioners
March 2024	• Planning Commission Public Hearing and Final Adoption

Eaton County Planning Context

Eaton County is a unique planning jurisdiction, as one of just a handful of Michigan's 83 counties with zoning authority. The Eaton County Community Development Department administers the county zoning ordinance that applies to 11 of the county's 16 townships. In addition to the 5 townships with their own zoning authority, the county is also home to 6 villages and 5 cities with their own zoning authority. **This master plan applies to the entire county and balances the county's duty to serve all residents with its responsibility for zoning authority in 11 townships.** For example, the existing land use analyses considers the entire county, but the future land use analysis incorporates the future land use plans of each community generally, and the zoning plan applies only to the county's zoning jurisdiction.

The planning context in Eaton County varies widely based on geography. The northeast portion of the county that is a part of the Greater Lansing Metropolitan Area has seen significant growth pressure in recent years, and includes significant areas of new commercial and residential development, particularly in Delta Township. However, the southern and western portions of the county are characterized by agricultural land, natural areas, and small rural cities and villages. These communities have much different needs for county services and support related to planning and zoning than the larger more urban jurisdictions in the northeastern quadrant.

About County Zoning

As a "home rule" state, most zoning in Michigan is administered at the township, city, or village level, with relatively few counties with zoning authority. However, in other parts of the United States, particularly in western states, county zoning is the norm. While administering a county zoning ordinance can be challenge given the sheer geographic size of the area, it provides several benefits for local governments that participate:

- **Regional Land Use:** People do not live their lives according to political boundaries, and land use changes tend to evolve organically, with artificial political boundaries commonly presenting a barrier to consistent development along key corridors. County zoning removes these artificial boundaries between participating entities and creates greater consistency in land use patterns.

- **Development Process:** With such a large portion of the county under county zoning, there is consistency in the development process across a large geographic area of the county. Furthermore, rather than going between multiple jurisdictions to receive zoning, building, soil erosion, and health department reviews, all development reviews are completed by the county, and the review process is expedited as a result.

- **Shared Service:** Administering, maintaining, and enforcing a zoning ordinance is costly. It requires experienced staff, committed appointed planning commissioners and zoning board of appeals members, and legal assistance. In the case of county zoning, the county assumes this burden, rather than requiring each township to manage it on its own. This provides valuable economies of scale.

- **Intergovernmental Collaboration:** With county staff working closely with local elected officials, residents, and developers across the county, collaboration between local units and government and county staff becomes second-nature, which helps to ensure that county government is responsive to local needs.

The master plan serves as the legal basis for the county's zoning ordinance. It is one of the primary resources the County Planning Commission must reference when considering changes to the zoning ordinance or zoning map. While the county master plan does not provide guidance directly for other units of government under their own zoning jurisdiction, this plan should be considered as an important resource when evaluating land use decisions to ensure consistency in the application of land use regulations whenever possible.

CHAPTER 2

PUBLIC ENGAGEMENT

Chapter 2 | Public Engagement

Eaton County Stakeholder Meetings

Eaton County conducted seven stakeholder meetings from October 2022 through January 2023. Over the seven stakeholder meetings, a total of 36 stakeholders participated. Each stakeholder group was identified by county staff and Planning Commission members. **The stakeholder groups were:**

1. Townships under county zoning (x3).
2. Regional entities.
3. Transportation and public services.
4. Parks and recreation.
5. Education.
6. Municipalities not under county zoning (pending).

During the stakeholder meetings, the first two questions remained consistent, with the remaining questions tailored towards each stakeholder group. The stakeholders identified under county zoning met in person, while the stakeholders identified in the Parks and Recreation group, Transportation and Public Services group, Regional Entities group, and the Education group met virtually.

Best Assets and Biggest Challenges

The first question asked at every stakeholder meeting was, “What are the best assets and biggest challenges in Eaton County?” The answers given helped curate the common themes described below. Several assets and challenges were discussed between the various stakeholders, with six common themes coming to light in multiple groups.

Assets	Challenges
Access to open spaces: • Blue spaces – water resources • Green spaces • Access to parks, recreational areas, and trails	**Housing:** • Lack of available housing units • Lack of affordable housing • Lack of housing diversity
Proximity to large cities: • Lansing, Kalamazoo, Jackson • Mix of rural, suburban, and urban areas	**Retention of talent:** • Business retention • Specialized teachers
Internal and external collaboration: • Groups working together in critical issues • Regional entities working with the county • Coordinated permitting and review process at the county • Strong code enforcement	**Development and code enforcement:** • Resistance to downtown development and redevelopment • Curb appeal in rural areas and small communities • Challenges around code enforcement in rural areas • Blight and junk removal
Influx of: • Young adults and young families (25- to 45-year-old) with a mix of ethnic backgrounds into the county • People to rural and suburban areas post-COVID-19 that work from home • Manufacturing jobs	**Transportation** • Road maintenance in winter • Rural road maintenance year-round • Fixed transit routes do not reach rural areas – lack of connectivity between rural and urban areas through transportation • Historically, county borders seen as barriers for transportation

Assets	Challenges
	Access to essential services and utilities • Broadband connection/ high speed internet • Lack of childcare options • Lack of access to grocery stores outside of major urban areas
	Renewable energy: • Addressing solar development
	Infrastructure: • Aging infrastructure in small towns • Lack of area for new infrastructure
	Miscellaneous: • Center of the county geographically does not match the center of county in population • No large entertainment venues or sporting events

Common Themes

The existing parks and recreation, trails, and open spaces were identified as a major asset to the county for current residents as well as for attracting residents and tourists. In 2021, the county adopted a 5-Year Parks and Recreation Plan that identified many goals that were discussed during the stakeholder meeting with the Parks and Recreation group. In November of 2022, Eaton County residents passed a millage to achieve short- and long-term goals identified in the 2021 5-Year Parks and Recreation Plan.

A major challenge related to this asset was the lack of connectivity. This includes the need for better connection between existing trails, the need for a motor vehicle to access most parks, and the lack of safe walkways around the parks.

One of the goals identified in the Parks and Recreation Plan was establishing a trail system that connects recreational facilities and amenities throughout the county by land and water. The plan has multiple objectives in order to achieve a greater trail connection within the county. Solutions to these challenges could include adding protected sidewalks or trail pathways leading to parks that are close to existing trails. This increases access to the park for those without motor vehicles and also increases pedestrian and bicyclist safety with designated, protected walkways. The county can also use its ties with the Tri-County Regional Planning Commission (TCRPC) to help aid in developing a county-wide system to establish regional connectivity within its trails system. The county could also pursue a State and National Water Trail designation for the Grand River to conserve the natural environment along the waterway and increase access to recreational opportunities on and along the river.

Stakeholders from several groups discussed issues with the current motorized and non-motorized transportation and road maintenance throughout the county. Historically, the county lines acted as a barrier for transportation.

Issues were discussed related to the lack of safe, well-lit bus stops and the lack of bus routes in more rural areas of the county. Other issues were discussed related to maintenance of rural roads year-round and all roads during the winter months. One particular issue is a lack of winter maintenance which forces school districts to have more snow days. Solutions discussed include expanded public transportation, increasing revenue for infrastructure

maintenance, and new approaches to school bus routes, including increasing common stops. Common bus stops could also be dovetailed with new trails or pathways in the county.

Common Theme 3: Collaboration Between Agencies

All of the stakeholder groups discussed the willingness of the county to cooperate between internal departments as well as the county's willingness as a whole to work with outside agencies as an asset to the development of the county. Some of those agencies the county commonly works with include Capital Area Transportation Authority (CATA), Eaton County Transportation Authority (EATRAN), Tri-County Regional Planning Commission, Michigan Economic Development Corporation, Michigan Works! Association, Lansing Economic Area Partnership, and Continuum of Care. Continued relationships with the local and regional entities will help aid in the development of the county.

Common Theme 4: Access to Essential Services and Utilities

All stakeholder groups discussed the lack of access to essential services in rural areas as well as an overall lack of access to utilities. Stakeholder groups discussed the challenges related to physical distance between rural residents and services such as fire and police services as well as rural residents having to travel far distances to receive other goods and services. All groups discussed the lack of internet connection throughout the entire county. The Education Stakeholder group specifically discussed the challenges with internet access as well as ability of those using internet connection for children and families.

Solutions to limited access to broadband and internet connection may include increasing infrastructure to support county-wide broadband access. Another solution could include holding educational events on the use of broadband to help aid those who previously had a lack of access. Solutions related to the lack of access to goods and services may involve promoting farmers markets and local vendors at community events in rural areas where food deserts are common.

Common Theme 5: Retention of Businesses, Workers, and Teachers

Various groups expressed concerns related to retention of businesses in empty storefronts and downtown areas; retention of educated, specialized teachers; and retention of residents living in the county that also work in the county.

Historically, there has been a resistance in Eaton County towards new businesses filling vacant storefronts in village and city downtown areas. Concerns were raised regarding infill of new businesses related to aesthetics and general curb appeal. Filling vacant storefronts can increase the general aesthetic; however, having façade standards can help boost public interest while also maintaining the character of the existing downtown area. Other topics discussed were the increasing number of retired persons starting home occupations. These businesses tend to not need a storefront location since they are filling niche desires within a community.

The Education Stakeholder group discussed at length the challenges with retention of young, specialized teachers as well as young families. Common themes previously mentioned such as a lack of housing units and housing diversity, the lack of access to utilities and essential services, and issues with road maintenance are all factors affecting school districts within the county trying to retain young teachers. The Education group also discussed an additional challenge for teachers with young children for the lack of childcare options within the county.

Groups touched on future concerns of residents who live within Eaton County commuting outside of the county for work. The Regional Entities Stakeholder group touched on concerns related to a lack of employment base in the county, which forces residents to commute outside the county for work. Commuting and ride sharing has been made difficult due to the poor road maintenance, especially in the winter, and a lack of bus routes in rural areas, causing more people to be dependent on personal vehicles than using public transportation.

Common Theme 6: Lack of Housing

The Regional Entities Stakeholders, Education Stakeholders, and the Township Stakeholders discussed the lack of affordable housing and the lack of diverse housing stock within the county. The Regional Entities Stakeholders discussed the lack of housing as it relates to areas in the county seeing growth in manufacturing jobs. Between Eaton County and Clinton County, a large manufacturing plant is proposed that will increase the number of jobs and employees in the area. The lack of housing and diversity of housing is a concern due to the potential for a large influx of workers. The Regional Entities group also discussed concerns related to securing housing for recent graduates. With Michigan State University (MSU) in close proximity and Olivet College within the county, there are large classes of both undergraduate and graduate students graduating each year looking for both jobs and future housing. To capture those recent graduates, a more diversified option for housing is needed.

The Education Stakeholders discussed the lack of affordable housing as it relates to young teachers and families, similar to the challenges discussed in common theme 5. The Township Stakeholders discussed the lack of available land for development of housing, as well as the existing, aging housing stock in small cities and villages does not appeal to many age groups including young families.

Stakeholder Specific Questions

After discussing the best assets and biggest challenges, each group had its own list of pre-selected questions developed based on the previous Master Plan sections related to each groups' focus as well as an open-ended discussion.

Township Stakeholder Focus Group

On October 25, 2022, three sets of Township and Local Municipality Stakeholders discussed various topics related to ongoing challenges as well as current and future needs of the communities. The in-person format focused on housing, renewable energy, utilities, and farmland preservation. Participants included representatives from Vermontville, Roxand, Walton, Carmel, Bellevue, Hamlin, Eaton Rapids, and Sunfield.

Major topics mentioned in the meeting included:

- Use of solar and other renewable energy uses on agricultural land.
- Agriculture preservation and farmland preservation in rural areas.
- Code enforcement with issues related to blight and junk in rural areas.
- Lack of access to essential services and utilities, especially in more rural areas.
- Increased non-motorized pathways to increase connectivity between communities and parks.

Education Stakeholder Focus Group

On December 14, 2022, the Education Stakeholder group met virtually to discuss various topics related to education in the Master Plan. Education Stakeholders were identified based on the various K-12 school superintendents as well as Olivet College, community libraries, and MSU Extension offices related youth education. Representatives from MSU Extension, Olivet Community Schools, Charlotte Community Library, and Maple Valley Schools attended the virtual meeting. The Education Stakeholder group was asked a series of questions related to challenges facing pre-K to 12th grade education, post-secondary, and adult education how land use decisions and the physical environment affect education and what initiatives the county should be aware of and possibly invest in.

Major topics mentioned in the meeting included:

- Rural road maintenance year-round as well as all road maintenance during winter months.
- Access to affordable internet access as well as comfort of using internet access.
- Issues with a lack of bus drivers and the number of fixed routes.
- Access to mental health services post-COVID-19 for students, teachers, and families.

- Increases in trails, sidewalks, and pathways connecting schools, parks, and neighborhoods.
- Issues with student engagement in athletics and after-school programming post-COVID-19.

Parks and Recreation Stakeholder Focus Group

On January 3, 2023, the Parks and Recreation Stakeholder group met virtually to discuss various topics related to parks and recreation in the Master Plan. The Parks and Recreation Stakeholders that attended the virtual meeting included a current County Commissioner, TCRPC Environmental Sustainability Planner and GIS Coordinator, County Parks and Recreation Director, and a representative from the Eaton County Conservation District.

Major topics mentioned in the meeting included:

- More programming and holding more events in the parks as well as education on subjects such as invasive species to engage local residents as well as attracting tourism.
- Social media outreach and internet connection were discussed as well with concerns over ability to target key audiences for programming and events.
- Uneven distribution of volunteers with some areas of the county having a strong volunteer base where others do not, thus routine maintenance of trails and parks by volunteers is not equal throughout the county.
- The lack of connectivity between the existing trail system and the ongoing need for maintenance of the parks and trails.

The recent passage of the county parks and recreation millage was discussed alongside programs and initiatives the county should consider investing in. Goals for the county millage are discussed further in Chapter #, Parks and Recreation.

Regional Entities Stakeholder Focus Group

On January 3, 2023, the Regional Entities Stakeholder group met virtually to discuss various topics related to agency cooperation in the Master Plan. The Regional Entities Stakeholders included representatives of EATRAN, county employees, a representative of CATA, a representative of the Lansing Economic Area Partnership, and a representative of the Michigan Economic Development Corporation.

Discussion included topics related to challenges facing each agency, regional projects and programs, how land use decisions affect each agency, which elements of the physical environment the county should invest in or changes to support agency goals, and how trends in population and in-migration in the county affect agency work.

Major topics mentioned in the meeting included:

- Connectivity issues with increased manufacturing businesses coming into the county versus the lack of diverse housing options.
- Determining the need of service for rural areas of the county related to solid waste management.
- Formalizing sustainability planning and completing development certifications such as Redevelopment Ready Communities Certification.
- With an aging population, additional transit assistance is needed. Also, there has been an increase in entrepreneurial businesses from retired persons.

Transportation and Public Services Stakeholder Focus Group

On January 4, 2023, the Transportation and Public Services Stakeholder group met virtually to discuss various topics related to transportation and public services in the Master Plan. The Transportation and Public Services

Stakeholders included representatives from the Eaton County Drain Commissioner, Eaton County Road Commissioner, a representative from the City of Charlotte, and a representative from the Michigan Department of Transportation (MDOT).

Topics related to assets and challenges of Eaton County's transportation networks, possible improvement efforts both regionally and locally, and the current safety of motorized and non-motorized transportation in the county were discussed.

Major topics mentioned in the meeting included:

- Challenges with current and upcoming road projects, especially outreach related to road and ramp closures.
- Challenges with funding, renewal of existing millages, and distribution of funds based on need.
- Willingness of cooperation between external agencies and the county.
- Stakeholders spoke to needing a plan that identifies areas for sidewalks, pathways, and trails in development plans such as the Master Plan in order to be able to plan, fund, and develop the pathways.
- Effectiveness of public transportation routes post-COVID-19 with the desires of the public. Also, the potential for expansion of fixed routes for greater connectivity of rural areas to urban areas.

Community Survey

Eaton County conducted a survey of the community to gather input on resident's opinions regarding important aspects of the plan as well as feelings regarding the county's assets and opportunities. Full results of the community survey are available in the Appendix.

Response Rate

The community survey was promoted via press releases to local news outlets, posted on the county's website, shared via social media, and available in hard copy at the County Courthouse and at the Charlotte Public Library. The survey was also shared with a group of approximately 50 local officials that attended a Planning and Zoning Essentials training sponsored by Eaton County and conducted by the Michigan Association of Planning in April 2023. A total of 243 people responded to the survey.

- 67% of survey respondents have lived, worked, or owned a business in Eaton County for over 20 years.
- 54% of survey respondents live within a township, while 32% live within a city. The next most common connection to the county was working in the county, which accounted for 23% of respondents.
- Approximately 60% of respondents were over the age of 50.
- 85% of respondents own their home.
- 63% of survey respondents classified the area in which they live as "rural".

As the demographic analysis demonstrates, the group of people responding to the survey is not necessarily representative of the county as a whole. Generally, the county population is younger, with a median age of 41 and less likely to be homeowners, with approximately 72% of county households owner-occupied. Other key conclusions from the survey are summarized below.

Survey Results

The following bullets summarize key results of the survey. A complete summary of results is available in the Appendix.

- **Quality of Life:** Over 75% of survey respondents rated the quality of life in Eaton County as “good” or “excellent”.

- **Values:** When asked to select from a list of characteristics about the county they value, respondents expressed strong preferences for open spaces and natural areas. The three most common selections were rural/small town atmosphere (71%), open space and natural areas (55%) and Agricultural land (40%).

- **Preservation:** Respondents found preservation of agricultural land, open space, and water resources to be significantly more important than preservation of downtowns and residential neighborhoods.

- **Economy:** Responses around the economy were much more mixed.

  - 49% of respondents agree with the statement that the economy in Eaton County is headed in the right direction, with 31% of respondents neutral.
  - A larger percentage of respondents (40%) disagreed with the statement that most businesses can find employees in a reasonable amount of time than agreed with the statement (30%).
  - 56% of respondents felt that the county has an adequate supply of retail, restaurants, and service businesses, with just 24% disagreeing.
  - 58% of respondents felt that the county has enough large employers and industrial businesses to meet the community’s needs.

- **Transportation:** Like economic measures, responses related to transportation were also mixed. While most respondents (52%) agreed that people are able to access necessary services, fewer people (47%) felt that walking and biking is safe is most of the county. The same percentage of people (47%) felt that sidewalks are available where people need them. An even smaller percentage of people (32%) agreed with the statement that there is an adequate supply of trails in the county.

- **Housing:** Housing results were fairly consistent, with over 25% of respondents being neutral on all questions. Generally, there was concern with affordability for both rental and owner-occupied housing, with less than 40% of respondents agreeing that people can find affordable rental or ownership opportunities. When asked whether Eaton County should invest in affordable housing, 47% of respondents selected “yes:”, with 30% selecting “no”.

- **Public Services:** Between 27% and 20% of respondents did not have access to water, sewer, or high speed internet, with the vast majority of respondents stating that they had access to natural areas, cellular service, and recreational activities. However, 71% of respondents stated that they would like to see improved access to high-speed internet and cellular service.

- **Renewable Energy:** 57% and 59% of respondents, respectively, stated that they would not like to see more land in the county utilized for solar and wind energy.

CHAPTER 3

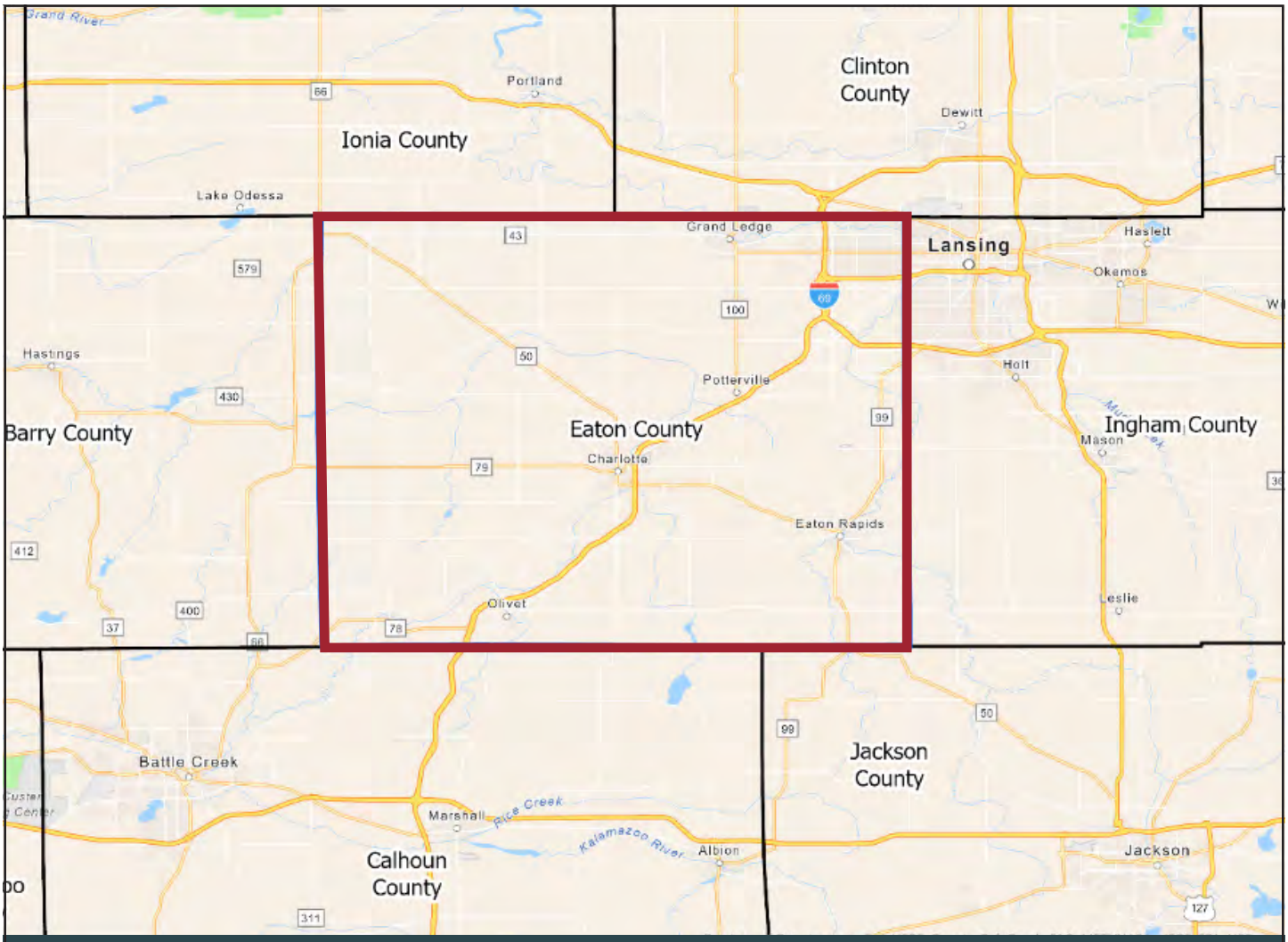
POPULATION CHARACTERISTICS

Chapter 3 | Population Characteristics

During any planning process, the first step is to take stock of current conditions and trends affecting an area. Understanding current conditions and how they evolved over time is critical to establishing future goals, while also evaluating the suitability and feasibility of future land use classifications.

This chapter provides an overview of general population and demographic changes in Eaton County, and the local units of government within the county and surrounding counties.

Regional Context



Map 3-1: *Eaton County Location*

Eaton County is a primarily rural county, with more urban and suburban areas in the northeast corner of the county that are part of the larger metropolitan Lansing region. The County seat is Charlotte, located in the center of the county, with other small villages and cities scattered throughout the county.

Eaton County is a part of Tri-County Region, composed of Eaton, Clinton, and Ingham Counties, each of which includes a portion of the City of Lansing, the primary urban center of the region. While the northern and eastern portions of Eaton County are strongly connected to Lansing, the southern and western areas of the county relate more closely to Battle Creek and Hastings. Map 3-1 displays all counties adjacent to Eaton.

Table 3-1 displays the change in population for Eaton County and all surrounding counties. Compared to surrounding counties, Eaton County is solidly in the middle in terms of population change since 2000, having

seen an increase of 5 percent over the time period. This is consistent with Eaton County's character of having a mix of rural and suburban/urban areas. The more urban counties in the table (Calhoun, Ingham, and Jackson) all saw significantly less growth, while the more rural counties (Barry, Clinton, and Ionia) each had larger increases in population. **Overall, Eaton County grew at a much faster rate, at 5 percent, than the State of Michigan as a whole, which grew by just 1.4 percent between 2000 and 2020.**

In the previous 2011 master plan, it was noted that according to 2006 Census estimates, Eaton County was projected to grow to 117,400 persons by 2020. This was likely due to projecting continued population growth that was seen throughout the 1990s that has slowed significantly since.

Table 3-1: County Population Change (Source 2000, 2010, and 2020 Decennial Census)

County	Year 2000	2010	2020	% Change 2000 – 2020
Eaton County	**103,655**	**107,759**	**109,175**	**5%**
Barry County	56,755	59,173	62,423	10%
Calhoun County	137,985	136,146	134,310	-3%
Clinton County	64,753	75,382	79,128	22%
Ingham County	279,320	280,895	284,900	2%
Ionia County	61,518	63,905	66,804	9%
Jackson County	158,422	160,248	160,366	1%

Population Distribution

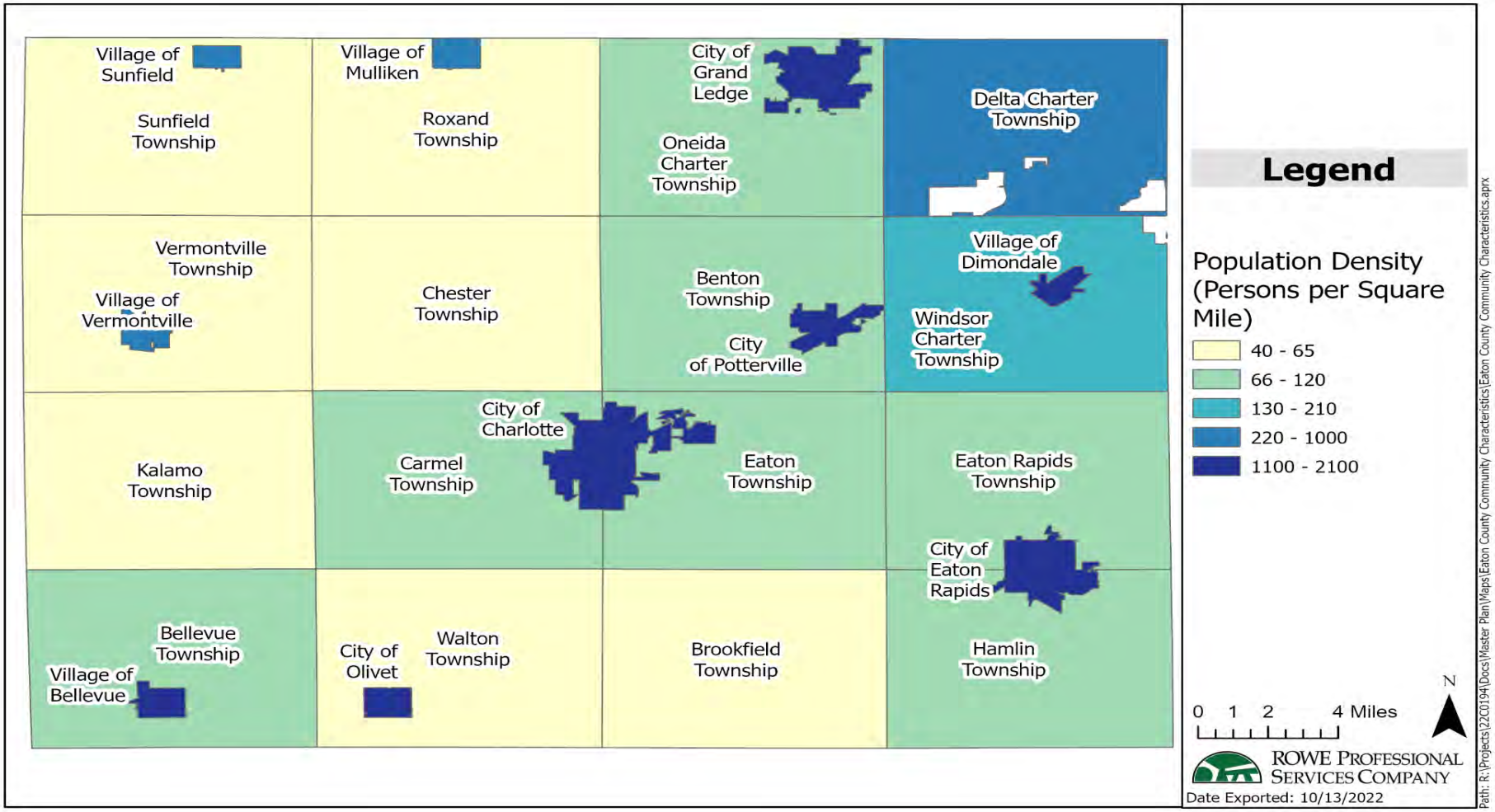
Table 3-2 displays the total population of each local unit of government in Eaton County according to the 2020 U.S. Decennial Census. Delta Township is the largest community in the county, with over 33,000 people, and the Village of Sunfield is the smallest, with just over 500 people. Map 3-2 displays the population density of each local unit of government in Eaton County. Generally, the population density is lower as one moves further from the Lansing area in the Northeast corner of the county.

Table 3-2: Population Distribution (Source 2020 Decennial Census)

Municipality	2020	Municipality	2020
Bellevue Township	3,200	Hamlin Township	3,227
Village of Bellevue	1,308	Kalamo Township	1,765
Benton Township	2,766	Village of Mulliken	525
Brookfield Township	1,467	City of Olivet	1,517
Carmel Township	2,839	Oneida Charter Township	3,986
City of Charlotte	9,299	City of Potterville	3,055
Chester Township	1,769	Roxand Township	1,748
Delta Charter Township	33,119	Sunfield Township	2,050
Village of Dimondale	1,134	Village of Sunfield	518
Eaton Township	4,007	Vermontville Township	1,947
City of Eaton Rapids	5,203	Village of Vermontville	716
Eaton Rapids Township	3,991	Walton Township	2,293
City of Grand Ledge	7,784	Windsor Charter Township	7,140

Source: 2020 Decennial U.S. Census

Map 3-2: *Population Density (Source 2020 Decennial Census)*



Household and Population Change

A household is defined as “all the persons who occupy a housing unit as their usual place of residence” by the U.S. Census Bureau. As populations age and change, changes of the characteristics of households have significant impacts on communities. A significant trend affecting many communities is the decrease in the number of people per household. This means that while total population may be stable or increasingly slowly, demand for additional housing units is growing. For example, between 2000 and 2020, the average size of a household in Michigan decreased by 8 percent, from 2.67 in 2000 to 2.45 in 2020. In Eaton County, over the same time period, the average household size decreased from 2.54 to 2.40, a 6 percent decrease.

Overall, the number of households is increasing at a faster rate than the population in Eaton County, with population increasing 5 percent between 2000 and 2020, but the number of households increasing by 12 percent. However, this change is not consistent across all units of government in the county. Table 3-3 *and* Figure 3-1 *through* Figure 3-3*: Change in Households and Populations, Cities Only*

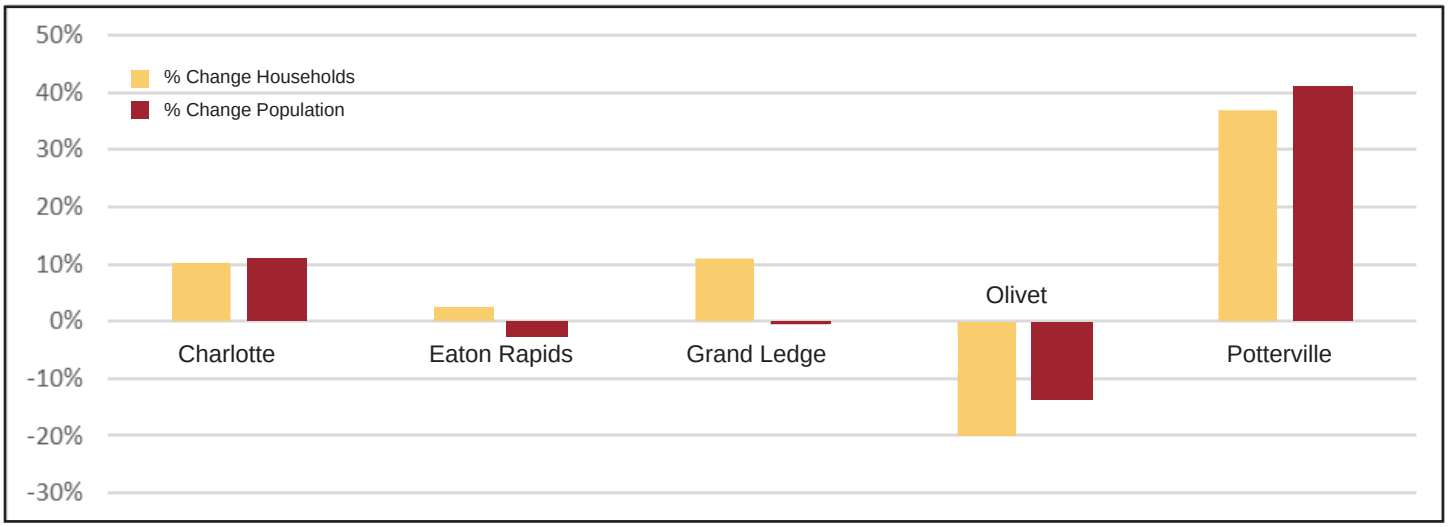


Figure 3-4 display the change in total households and population for each unit of government in the county, and the differences are significant.

For example, the Village of Bellevue; Bellevue and Eaton Townships; and Cities of Charlotte, Olivet, and Potterville all saw a greater change in population than households. In the Bellevue Township, the number of households decreased by 4 percent, while population increased by 2 percent. In contrast, Roxand Township experienced an 8 percent decrease in population, but a 21 percent increase in the number of households.

Table 3-3: Change in Households and Population

(Source: 2000 Decennial Census & 2016-2020 American Community Survey)

Community	Total Households (2000)	Total Households (2020)	% Change Households	Total Population (2000)	Total Population (2020)	%
Eaton County	40,167	45,037	12%	103,655	109,175	5%
Bellevue Township	1,161	1,113	-4%	3,144	3,200	2%
Village of Bellevue	526	451	-14%	1,365	1,308	-4%
Benton Township	991	1,044	5%	2,712	2,766	2%
Brookfield Township	538	606	13%	1,429	1,467	3%
Carmel Township	923	1,073	16%	2,626	2,839	8%
City of Charlotte	3,213	3,525	10%	8,389	9,299	11%

Table 3-3: Change in Households and Population (Source: 2000 Decennial Census & 2016-2020 American Community Survey)						
Community	Total Households (2000)	Total Households (2020)	% Change Households	Total Population (2000)	Total Population (2020)	%
Chester Township	648	694	7%	1,778	1,769	-1%
Delta Charter Township	12,559	15,282	22%	29,682	33,119	12%
Village of Dimondale	473	585	24%	1,342	1,134	-15%
Eaton Township	1,531	1,421	-7%	4,278	4,007	-6%
City of Eaton Rapids	2,061	2,104	2%	5,330	5,203	-2%
Eaton Rapids Township	1,328	1,590	20%	3,821	3,991	4%
City of Grand Ledge	3,267	3,629	11%	7,813	7,784	0%
Hamlin Township	1,045	1,271	22%	2,953	3,227	9%
Kalamo Township	622	684	10%	1,742	1,765	1%
Village of Muliken	190	221	16%	557	525	-6%
City of Olivet	482	388	-20%	1,758	1,517	-14%
Oneida Charter Township	1,352	1,483	10%	3,703	3,986	8%
City of Potterville	806	1,103	37%	2,168	3,055	41%
Roxand Township	658	794	21%	1,903	1,748	-8%
Sunfield Township	777	779	0%	2,177	2,050	-6%
Village of Sunfield	217	238	10%	591	518	-12%
Vermontville Township	749	722	-4%	2,100	1,947	-7%
Vermontville Village	282	276	-2%	789	716	-9%
Walton Township	699	809	16%	2,011	2,293	14%
Windsor Charter Township	2,781	2,960	6%	7,340	7,140	-3%

Map 3-3 and Map 3-4 display the percent change in households and population for each unit of government in Eaton County. As the maps show, there are many more units of government that saw larger increases in the number of households than population. These communities that have the greatest difference between change in households and change in population are also likely experiencing increased demand for housing.

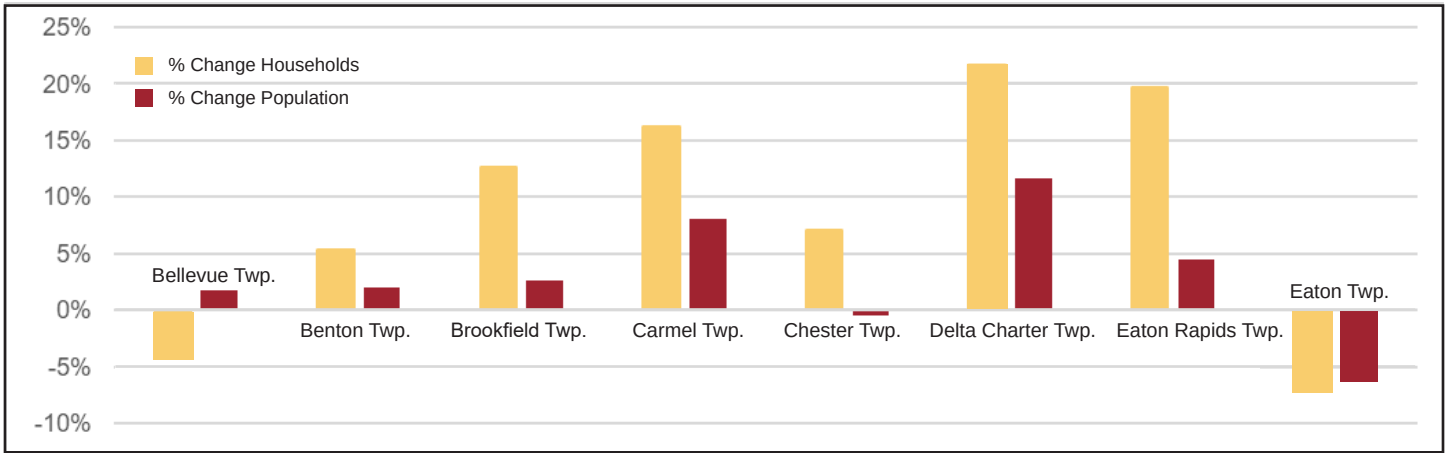


Figure 3-1: *Change in Households and Populations, Townships Only*

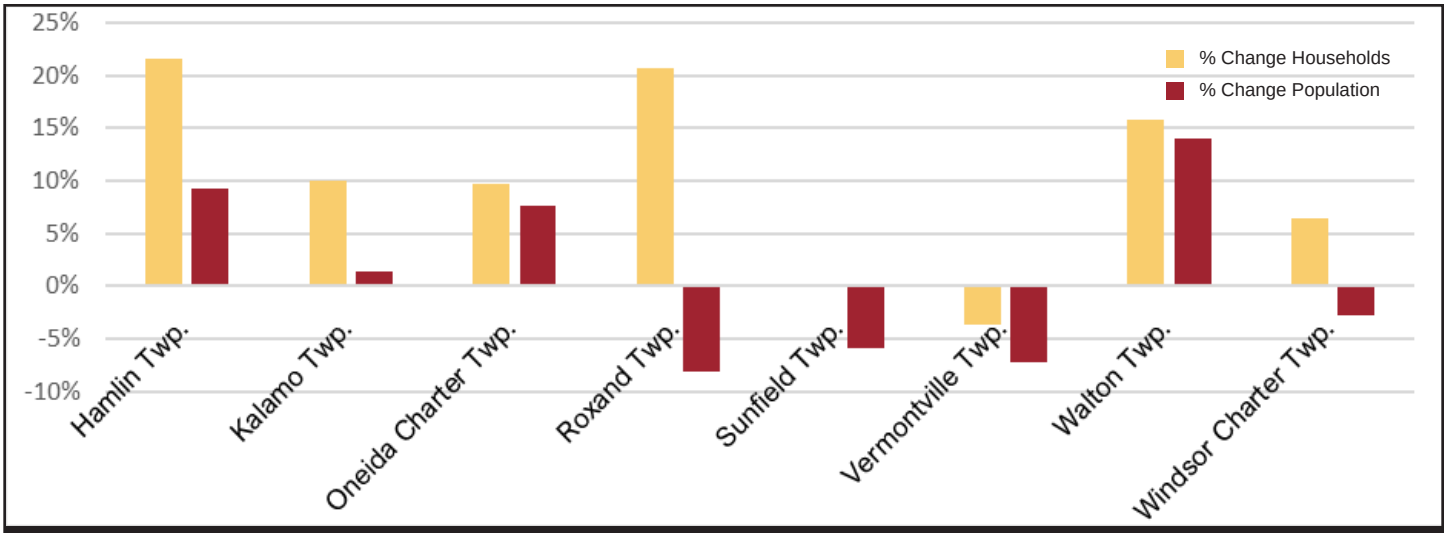


Figure 3-2: *Change in Households and Population, Townships Only*

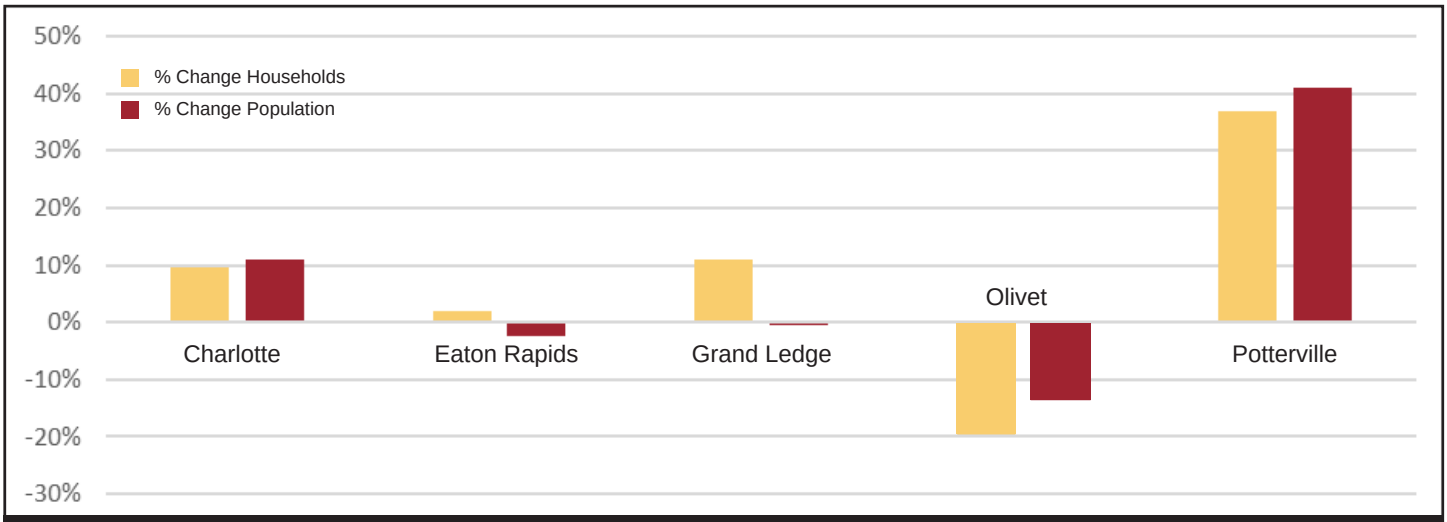


Figure 3-3: *Change in Households and Populations, Cities Only*

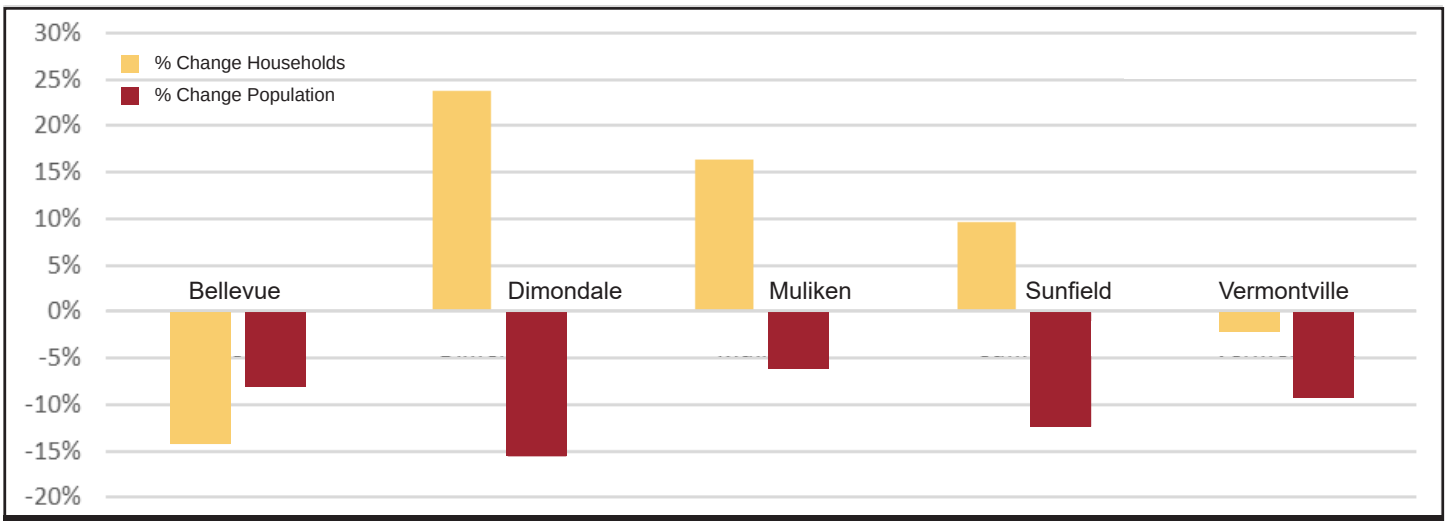


Figure 3-4: *Change in Households and Population, Villages Only*

Map 3-3: *Percent Change in Population 2000 – 2020 (Source 2000 & 2020 Decennial Census)*

Map 3-4: *Percent Change in Total Households 2000 – 2020 (Source 2000 and 2020 Decennial Census)*

Age

Like most of Michigan, Eaton County's population is aging. Since 2000, the median age in the county has increased from 36.4 years to 41.1 years, an increase of nearly 5 years. This is consistent with statewide and national trends; in Michigan during the same time period, the median age increased from 35.6 to 39.8, an increase of approximately 4 years. Median age across Eaton County has not increased similar for each community. The City of Olivet actually saw median age decrease over the 20-year period, while Chester Township saw an increase of over 10 years. In some communities, there are unique drivers for the change in age, for example, in Olivet the influence of Olivet College is likely driving the decrease in age.

Table 3-4
(Source: 2000 Decennial Census & 2016-2020 American Community Survey)

Community*	Median Age 2000	Median Age 2020	Change
Bellevue Township	36.9	38.6	1.7
Benton Township	39.4	43.7	4.3
Brookfield Township	38.8	46.5	7.7
Carmel Township	38.5	47.1	8.6
Chester Township	39.2	49.7	10.5
City of Charlotte	34.0	35.8	1.8
City of Grand Ledge	35.2	42.4	7.2
City of Olivet	21.7	20.8	-0.9
City of Potterville	29.2	30.3	1.1
Delta Charter Township	38.4	42.7	4.3
Eaton Rapids	31.9	38.5	6.6
Eaton Rapids Township	37.6	41.9	4.3
Eaton Township	37.5	42.0	4.5
Hamlin Township	36.8	44.4	7.6
Kalamo Township	36.9	40.1	3.2
Oneida Charter Township	40.5	49.1	8.6
Roxand Township	37.2	46.0	8.8
Sunfield Township	36.7	40.5	3.8
Vermontville Township	35.8	43.5	7.7
Village of Bellevue	35.1	36.8	1.7
Village of Diamondale	37.8	39.3	1.5
Village of Muliken	35.0	39.3	4.3
Village of Sunfield	31.9	40.4	8.5
Village of Vermontville	33.0	36.2	3.2
Walton Township	36.4	39.4	3.0
Windsor Charter Township	42.0	48.3	6.3

**Note, villages are included within townships by the U.S. Census Bureau, so township information reflects the characteristics of villages located within each township.*

As median age has generally increased across Eaton County communities, the distribution of population between age groups has changed as well. Table 3-5 and Figure 3-5 display the change in the percentage of the county's population accounted for by various age groups. Eaton County and the State of Michigan as a whole have seen a significant decrease in the percentage of the population between the ages of 35 and 54 and a subsequent increase in the 55 to 74 age group. In Eaton County, the percentage of the population between 35 and 54 decreased from 31.6 percent in 2000 to 24.7 percent in 2020.

Table 3-5: Percent Change in Age Distribution (Source: 2000 Decennial Census & 2016-2020 American Community Survey)						
	Eaton County			State of Michigan		
Age Group	2000	2020	Change	2000	2020	Change
Under 5 years	6.4%	5.5%	-0.9%	6.8%	5.7%	-1.1%
5 to 19 years	22.7%	17.9%	-4.8%	22.2%	18.7%	-3.5%
20 to 34 years	18.7%	19.0%	0.3%	20.2%	19.8%	-0.4%
35 to 54 years	31.6%	24.7%	-6.9%	29.9%	24.7%	-5.2%
55 to 74 years	15.3%	25.6%	10.3%	15.2%	24.1%	8.9%
75 and over	5.3%	7.3%	2.0%	5.8%	7.0%	1.2%

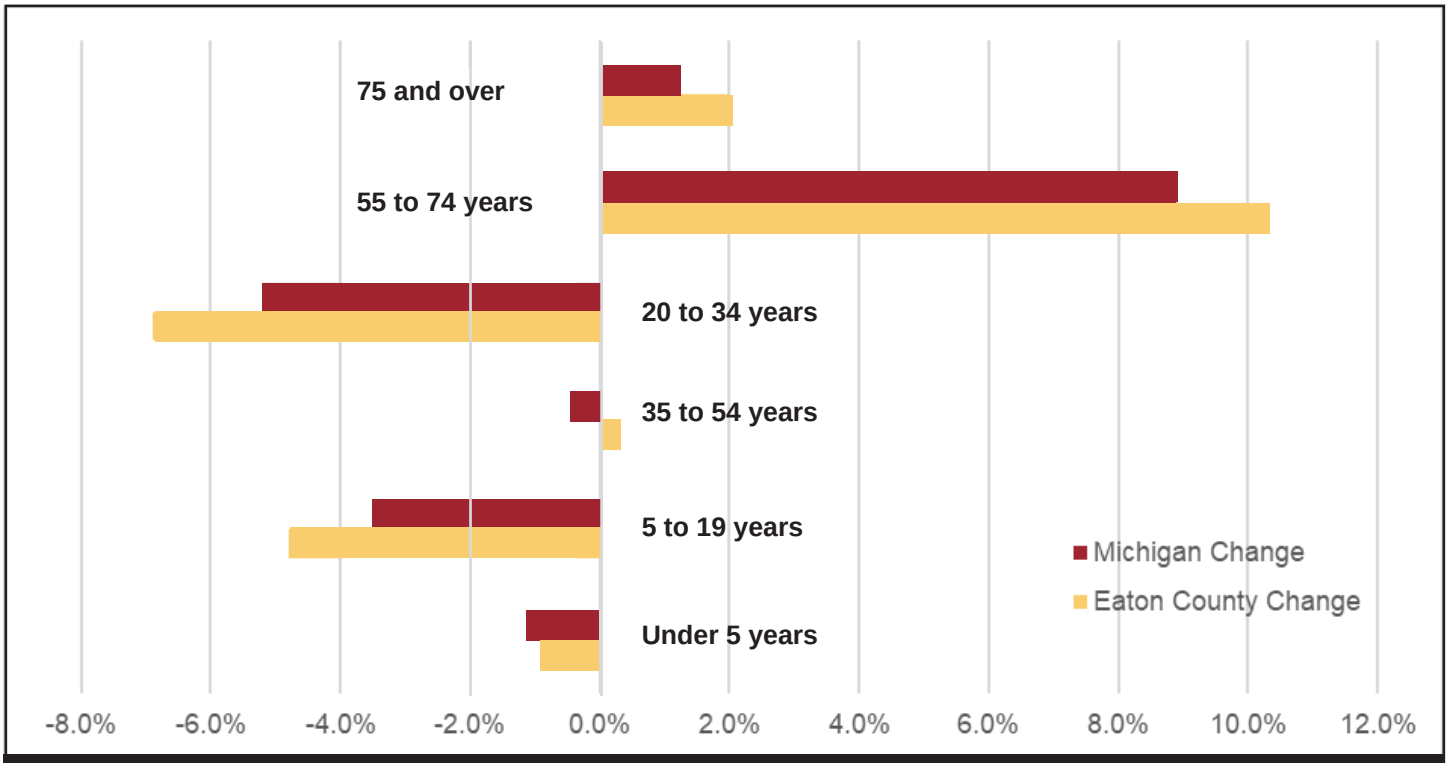


Figure 3-5: *Percent Change in Age Distribution 2000-2020*

Education

Compared to surrounding counties, Eaton County has a fairly even distribution in educational attainment. As Table 3-6 and Figure 3-6 show, Eaton County has a nearly equal proportion of its population with a high school diploma, some college, or a bachelor's degree or higher, similar to the State of Michigan as a whole. In contrast, many of the surrounding counties have very different characteristics, with a large proportion of the population with a high school diploma (Barry, Calhoun, Ionia) or a bachelor's degree or higher (Ingham).

Table 3-6: Education (Source: 2016-2020 American Community Survey)				
	Eaton County	Barry County	Calhoun County	Clinton County
Less than High School	6%	7%	9%	6%
High School Graduate	28%	38%	36%	27%
Some College	28%	24%	25%	25%
Associate's Degree	11%	11%	9%	11%
Bachelor's Degree or Higher	27%	20%	21%	31%
	Ingham County	Ionia County	Jackson County	Michigan
Less than High School	7%	10%	9%	9%
High School Graduate	22%	40%	33%	29%
Some College	24%	25%	26%	23%
Associate's Degree	9%	10%	10%	9%
Bachelor's Degree or Higher	38%	16%	21%	29%

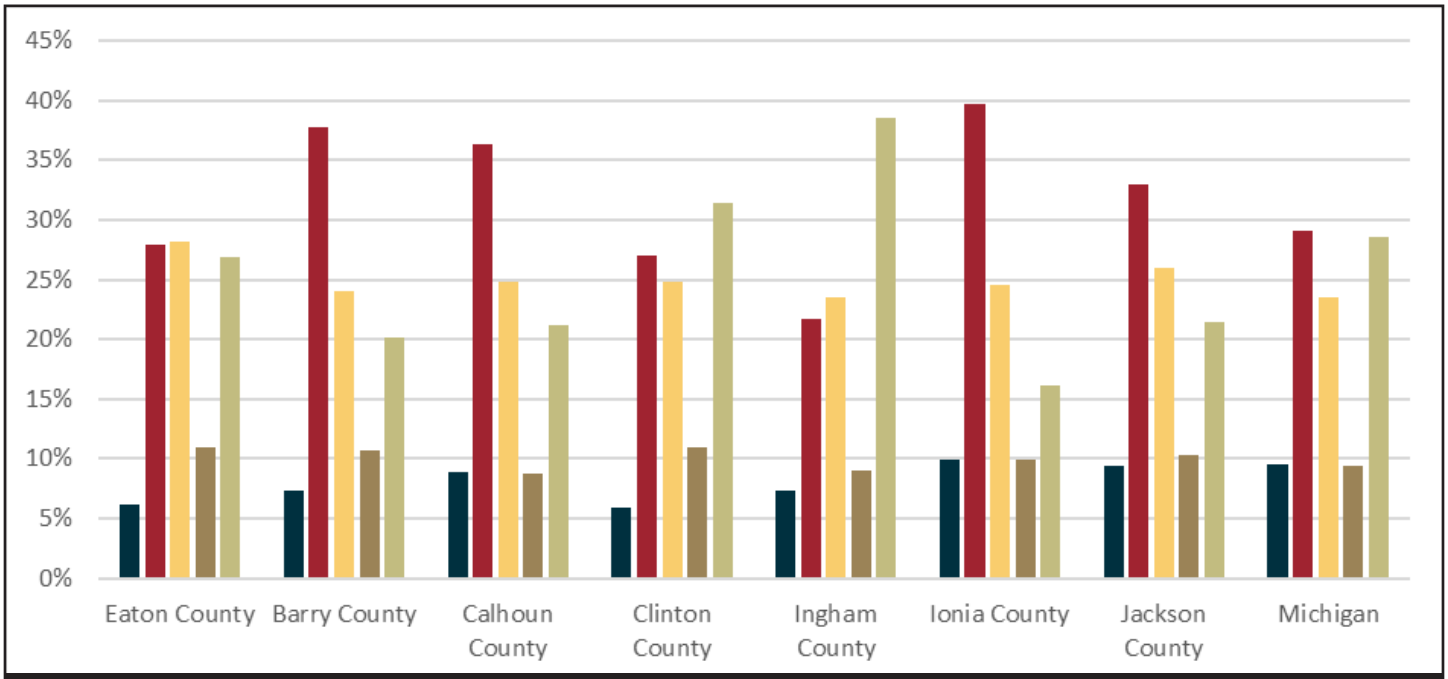


Figure 3-6: *Education*

Race

Eaton County is relatively homogeneous in terms of race, with nearly 80 percent of the county identifying as white alone. The next largest racial group in the county is people identifying as Black or African American, followed by people identifying as Hispanic or Latino. Compared to surrounding counties, Eaton County is more diverse than Barry, Ionia, and Clinton Counties, less diverse that Calhoun and Ingham, and similar to Jackson County.

Table 3-7: Race (Source: 2020 Decennial Census)				
	Eaton County	**Barry County**	**Calhoun County**	**Clinton County**
Hispanic or Latino	5.98%	3.43%	5.53%	4.98%
White alone	79.87%	90.96%	74.74%	85.83%
Black or African American alone	6.84%	0.47%	10.63%	2.07%
American Indian and Alaska Native alone	0.28%	0.35%	0.51%	0.30%
Asian alone	2.24%	0.39%	2.77%	2.36%
Native Hawaiian and Other Pacific Islander alone	0.01%	0.02%	0.02%	0.03%
Some Other Race alone	0.32%	0.32%	0.41%	0.30%
Population of two or more races:	4.47%	4.05%	5.39%	4.13%
	Ingham County	**Ionia County**	**Jackson County**	**Michigan**
Hispanic or Latino	8.57%	5.04%	3.86%	5.60%
White alone	67.23%	86.25%	81.75%	72.40%
Black or African American alone	12.09%	4.81%	7.72%	13.48%
American Indian and Alaska Native alone	0.33%	0.37%	0.32%	0.47%
Asian alone	5.76%	0.34%	0.92%	3.30%
Native Hawaiian and Other Pacific Islander alone	0.04%	0.01%	0.02%	0.03%
Some Other Race alone	0.51%	0.18%	0.29%	0.37%
Population of two or more races:	5.46%	3.01%	5.12%	4.36%

CHAPTER 4

HOUSING

Chapter 4 | Housing

Adjusting for changes in demand for housing and the needs among the county's population for quality, affordable housing is a critical role for the planning and development process. This is especially true for Eaton County, as the Community Development department also administers several housing programs for the county that dovetail with land use policies.

Eaton County Housing Characteristics

Housing information changes rapidly with shifts in the state, national, and global economy; as such, the source and purpose of housing data is important. This section includes information from the National Association of Realtors that compares price and sales data for real estate in Eaton County to surrounding counties. This information is timely, accurate, and should reflect the housing market as people in Eaton County are experiencing it in late 2022, the time this chapter was drafted.

Unfortunately, sales data from the National Association of Realtors is not available for local units of government, rather information is provided by the U.S. Census Bureau. Compared to information from the National Association of Realtors, the Census data is significantly less timely (it represents an average over a 5-year period) and it reflects values as reported by households. As such, Census data is utilized to report on the types of housing available in the county, and owner/renter households, rather than home value.

Lastly, change in taxable value is utilized to report on general trends in property values throughout the county.

County-Wide Housing Market Information

Like the rest of the United States, Eaton County saw significant increases in home prices between 2021 and 2022. According to the National Association of Realtors, the price of a mortgage increased by 33 percent between Q1 2021 and Q1 2022 in the county, while median home value increased by 18 percent. Eaton was generally in the middle of the surrounding counties in terms of change in mortgage cost and home value, with Calhoun County seeing the largest increases, and Clinton County seeing the smallest increases. Table 4-1 displays the change in mortgage costs between Q1 of 2021 and Q2 of 2022, with Figure 4-1 illustrating the percent change for each county.

Table 4-1: Change in Mortgage Cost
(Source: National Association of Realtors)

County	Q1 2021	Q1 2022	% Change
Eaton County	$690	$915	33%
Barry County	$652	$910	40%
Calhoun County	$480	$824	72%
Clinton County	$782	$915	17%
Ingham County	$596	$786	32%
Ionia County	$542	$746	38%
Jackson County	$583	$741	27%

Table 4-2 displays the change in home value between 2021 and 2022, with Figure 4-2 displaying the percent change for each county.

Table 4-2: Change in Home Value (Source: National Association of Realtors)			
County	**Q1 2021**	**Q1 2022**	**% Change**
Eaton County	$183,526	$216,656	18%
Barry County	$173,258	$215,516	24%
Calhoun County	$127,538	$195,160	53%
Clinton County	$207,831	$216,656	4%
Ingham County	$158,358	$185,952	17%
Ionia County	$144,163	$176,628	23%
Jackson County	$155,118	$175,349	13%

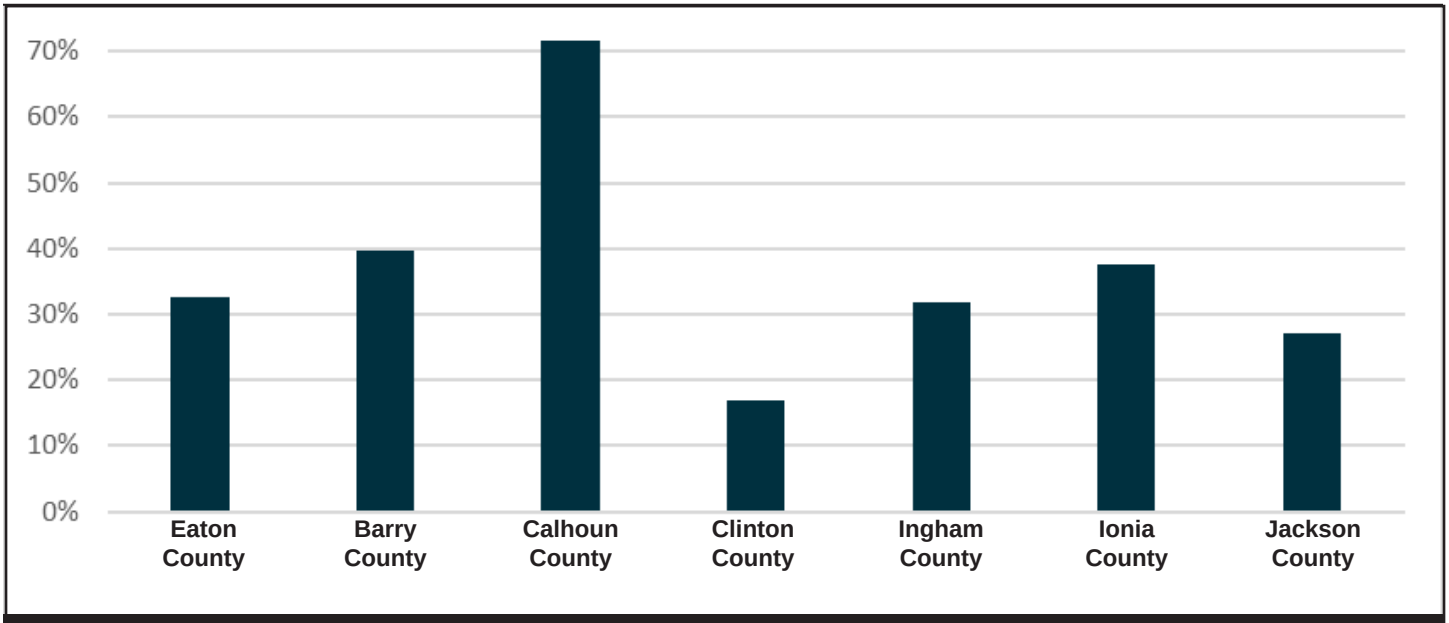


Figure 4-1: *Change in Mortgage Cost Q1 2021 - Q1 2022 (Source: National Association of Realtors)*

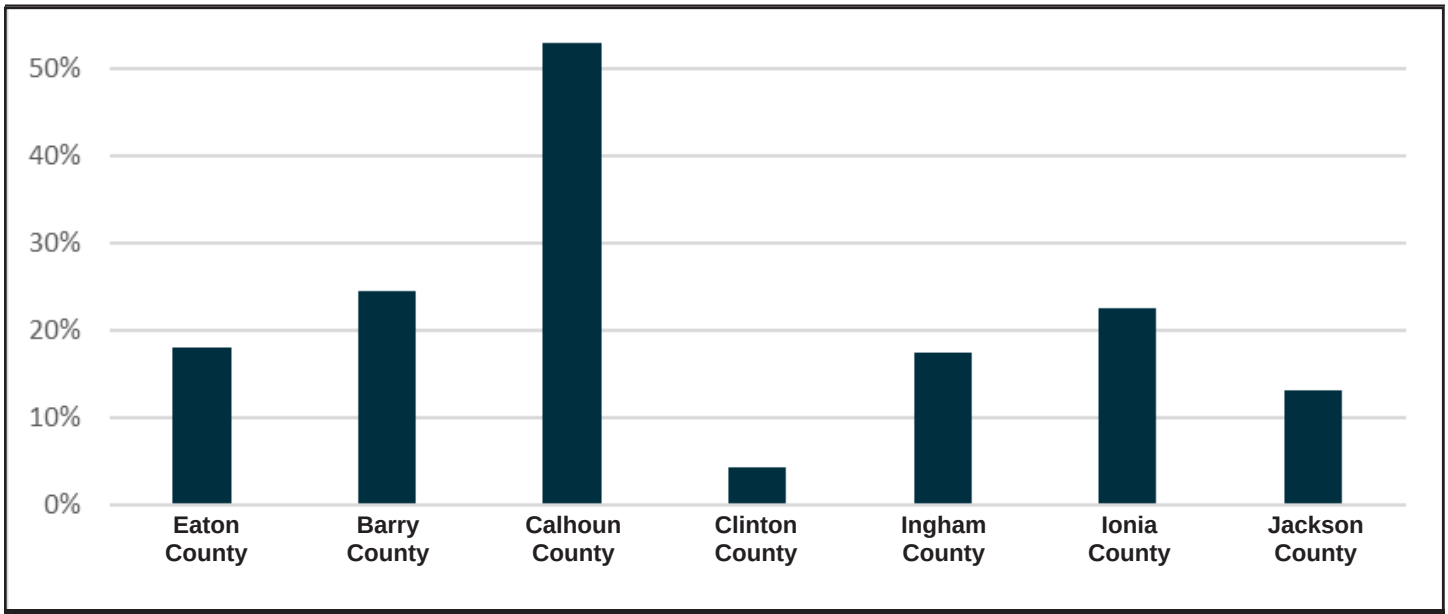


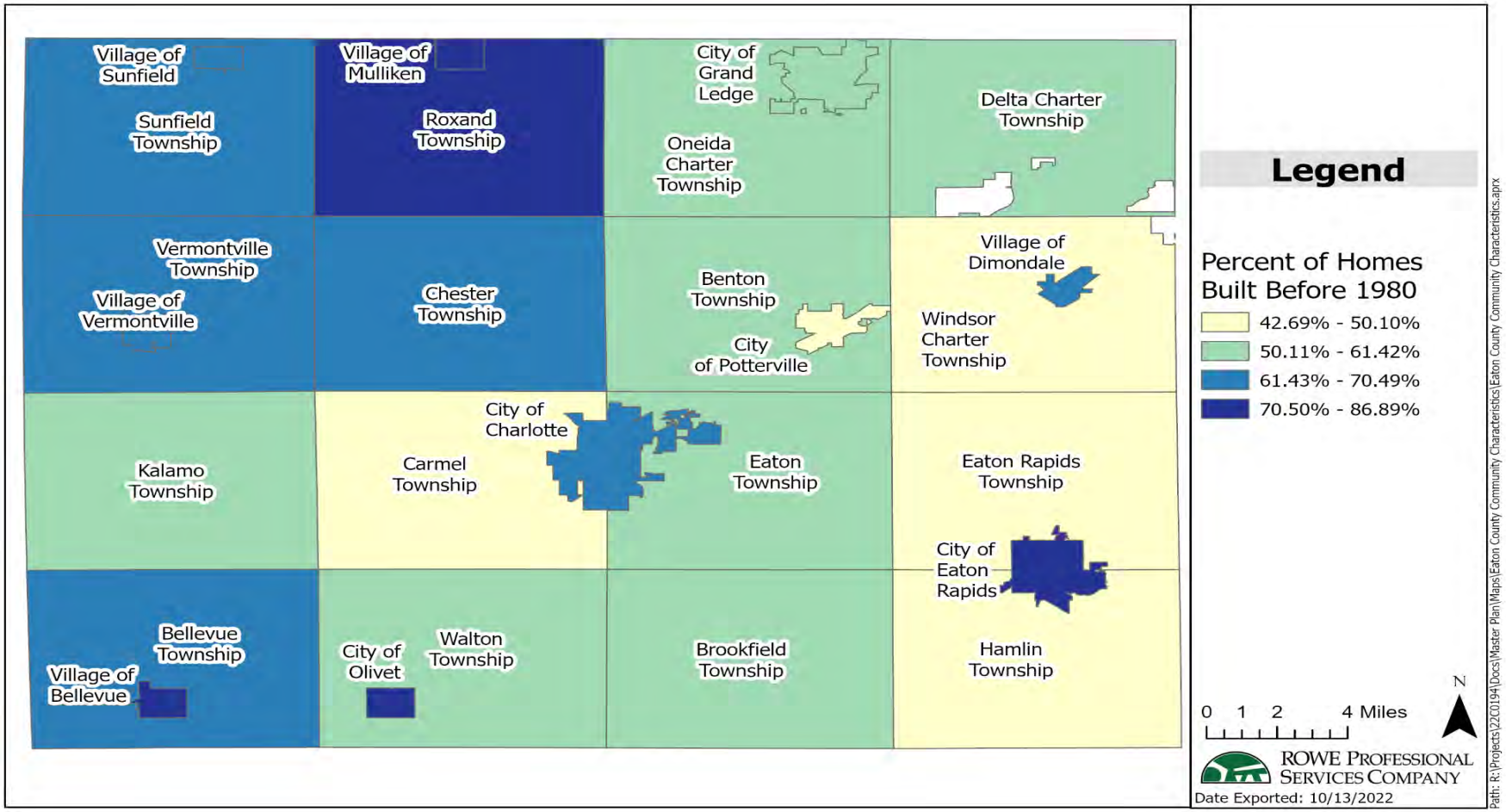
Figure 4-2: *Change in Home Value Q1 2021 - Q1 2022 (Source: National Association of Realtors)*

Year Housing Unit Built

The time of development for housing units throughout Eaton County varies widely, with some units of government having no new housing units built since 2010, while others have seen significant new housing added. In general, as one moves eastward in the county, the percentage of homes built before 1979 decreases (see Map 4-1).

Table 4-3: Year Housing Unit Built (Source: 2020 American Community Survey)			
	1979 or earlier	1980 to 2009	2010 or later
Bellevue Township	65.92%	31.27%	2.81%
Benton Township	54.70%	44.11%	1.19%
Brookfield Township	60.69%	37.89%	1.42%
Carmel Township	45.45%	54.04%	0.51%
Chester Township	63.79%	34.79%	1.41%
City of Charlotte	70.48%	29.31%	0.21%
City of Eaton Rapids	76.75%	22.39%	0.86%
City of Grand Ledge	60.84%	37.05%	2.11%
City of Lansing	63.10%	31.88%	5.01%
City of Olivet	85.34%	14.66%	0.00%
City of Potterville	48.79%	39.80%	11.41%
Delta Charter Township	53.95%	43.25%	2.80%
Eaton Rapids Township	46.90%	52.54%	0.56%
Eaton Township	57.48%	42.52%	0.00%
Hamlin Township	42.69%	56.74%	0.57%
Kalamo Township	53.03%	40.03%	6.94%
Oneida Charter Township	61.43%	36.59%	1.98%
Roxand Township	79.37%	19.54%	1.09%
Sunfield Township	68.02%	29.24%	2.74%
Vermontville Township	63.04%	35.19%	1.77%
Village of Bellevue	86.89%	11.19%	1.92%
Village of Dimondale	63.86%	36.14%	0.00%
Village of Mulliken	77.53%	22.47%	0.00%
Village of Sunfield	70.49%	27.46%	2.05%
Village of Vermontville	67.41%	32.59%	0.00%
Walton Township	55.06%	40.39%	4.55%
Windsor Charter Township	50.10%	44.89%	5.01%

Map 4-1: *Percent of Housing Units Built Before 1980 (Source: 2020 American Community Survey)*



Housing Tenure

The term “tenure” refers to whether housing units are owner- or renter-occupied. Between 2000 and 2020, the total number of owner-occupied households increased by nearly 3,000 in Eaton County, but as a percentage of all households, owner-occupied houses accounted for 1.54 percent less of all households. Again, this dynamic varies widely by unit of government in the county over the same time period, with the City of Olivet, Village of Vermontville, Vermontville Township, and Village of Bellevue all seeing declines of over 10 percent, while Eaton Rapids Township, Hamlin Township, Roxand Township, and the Village of Dimondale all saw an increase over 20 percent. This change is illustrated in Table 4-4 and Map 4-2.

Table 4-4: Housing Tenure

(Source: 2000 and 2020 Decennial Census)

	2000		2020		
	Owner Occ.	Renter Occ.	Owner Occ.	Renter Occ.	Change in Owner Occ. Housing
Eaton County	29,770	10,397	32,687	12,350	-1.54%
Bellevue Township	1,001	160	954	159	-4.70%
Benton Township	906	85	950	94	4.86%
Brookfield Township	484	54	563	43	16.32%
Carmel Township	852	71	1,010	63	18.54%
Chester Township	581	67	656	38	12.91%
City of Charlotte	2,164	1,049	2,169	1,356	0.23%
City of Eaton Rapids	1,410	651	1,339	765	-5.04%
City of Grand Ledge	2,163	1,104	2,420	1,209	11.88%
City of Olivet	216	266	179	209	-17.13%
City of Potterville	601	205	677	426	12.65%
Delta Charter Township	8,071	4,488	9,634	5,648	19.37%
Eaton Rapids Township	1,220	108	1,499	91	22.87%
Eaton Township	1,432	99	1,329	92	-7.19%
Hamlin Township	967	78	1,180	91	22.03%
Kalamo Township	576	46	622	62	7.99%
Oneida Charter Township	1,208	144	1,396	87	15.56%
Roxand Township	592	66	731	63	23.48%
Sunfield Township	667	110	635	144	-4.80%
Vermontville Township	656	93	584	138	-10.98%
Village of Bellevue	403	123	322	129	-20.10%
Village of Dimondale	413	60	509	76	23.24%
Village of Mulliken	175	15	205	16	17.14%
Village of Sunfield	167	50	155	83	-7.19%
Village of Vermontville	228	54	176	100	-22.81%
Walton Township	618	81	723	86	16.99%
Windsor Charter Township	2,596	185	2,663	297	2.58%

Map 4-2: *Percent Change in the Number of Owner Occupied Housing Units 2000-2020 (Source 2000 Decennial Census & 2020 American)*

Change in Assessed Value

The Michigan Department of Treasury reports assessed value is the total value for all townships and cities in each county through the state. This information provides a general understanding of recent private investments and increases in the value of property within each unit of government. It is important to note, this is not the value of total taxes assessed, but rather the total value of all property.

Table 4-5 displays the change in assessed value for real property (real estate) and personal property (commercial equipment) throughout Eaton County. Overall, each unit of government has seen increases in real property, with Roxand Township seeing the largest increase (41 percent) and the City of Olivet experiencing the smallest increase (8 percent). The value of personal property is quite different, with most townships seeing increases in assessed value, led by Bellevue Township with a 234 percent increase, while the City of Eaton Rapids saw a 71 percent decline.

Table 4-5: Change in Property Values (Source: Michigan Treasury)

	2010		2021			
Unit of Government	Real Property	Personal Property	Real Property	Personal Property	% Change Real Property	% Change Personal Property
Bellevue Township	94,238,588	3,111,190	114,492,533	10,402,467	21%	234%
Benton Township	110,044,600	6,179,900	140,926,052	9,613,400	28%	56%
Brookfield Township	68,164,301	1,506,418	83,385,573	2,051,783	22%	36%
Carmel Township	103,718,703	2,161,640	135,935,900	4,983,620	31%	131%
Chester Township	79,405,900	2,516,300	91,389,700	4,316,000	15%	72%
City of Charlotte	236,781,305	26,624,998	269,202,283	15,372,000	14%	-42%
City of Eaton Rapids	121,560,900	13,322,100	137,760,950	3,825,000	13%	-71%
City of Grand Ledge	220,882,900	10,429,800	278,506,400	10,938,900	26%	5%
City of Olivet	19,294,791	1,358,279	20,925,969	806,142	8%	-41%
City of Potterville	48,074,900	5,041,300	62,287,700	4,679,300	30%	-7%
Delta Township	1,265,604,300	112,300,600	1,623,382,400	188,037,300	28%	67%
Eaton Rapids Township	141,872,700	4,609,100	186,507,100	5,982,600	31%	30%
Eaton Township	130,684,900	5,865,942	175,904,160	10,401,250	35%	77%
Hamlin Township	120,991,950	3,353,100	148,715,600	4,078,900	23%	22%
Kalamo Township	66,835,000	1,127,100	84,863,600	1,678,300	27%	49%
Oneida Township	165,668,498	7,155,700	211,616,900	10,416,200	28%	46%
Roxand Township	76,036,000	1,471,900	107,546,300	1,997,600	41%	36%
Sunfield Township	81,545,050	3,430,500	108,196,800	3,188,750	33%	-7%
Vermontville Township	74,776,885	3,706,450	91,884,600	3,970,000	23%	7%
Walton Township	78,760,879	3,338,870	97,448,452	5,019,457	24%	50%
Windsor Township	248,716,318	11,392,100	332,238,100	15,610,300	34%	37%

Map 4-3: *Change in Value of Real Property 2010-2021 (Source: Michigan Department of Treasury)*

Eaton County Housing Programs

The Eaton County Community Development Department seeks to improve access to housing options and support residents in maintaining their homes through a combination of code enforcement and management of grant programs and other resources. While the department continues to maintain an emergency housing repair program, funds are extremely limited, and demand far exceeds resources each year. As an alternative, Eaton County focuses on partnering with other local and state agencies that have access to additional funds and resources to support the development of new housing as well as assisting existing residents and homeowners.

Emergency Repair Program

The Emergency Repair Program assists with repairs to single-family, owner-occupied homes of very low to low income households in the county when the problem is causing an immediate health and safety risk to the occupants and the structure of the home. These projects include the repair or replacement of leaking roofs, non-working furnaces, wells, and septic systems. Structural damage to the home may also be addressed and repaired. A deferred mortgage is recorded against the property for the amount invested into the home. Available funds vary by year, and funds are provided on a first come, first served basis.

Eaton County Housing and Shelter Continuum of Care Committee

The Continuum of Care Committee's (CoC) purpose is to assist, identify, and provide for the creation of a continuum of the care and assistance provided for short- and long-term housing and shelter needs for the households of limited resources in Eaton County. The CoC is a community-based association of organizations, agencies, and individuals concerned with housing and shelter needs in Eaton County.

The CoC integrates and evaluates the overall delivery of housing and shelter services and facilitates efforts to address housing and shelter issues for limited resource households. Their planning activities address all elements of a strategic and comprehensive approach to homelessness prevention, outreach, emergency shelter, transitional housing, essential services, and permanent supportive housing for households of limited resources.

Where unmet needs are identified by the CoC, the committee is responsible for assisting in the development of new services and for fostering collaborative responses between existing service providers. Where funding is available from state, local, or other agencies that require the evaluation of service provisions, consideration, or coordination of services, the CoC purpose is to facilitate the flow of that funding to serve the needs of households with limited resources in Eaton County. The CoC is committed to maintaining its own credibility as a collaborative organization and to establish trust among its members. The CoC may offer recommendations regarding funding applications and letters of support to its members who are applying for funding.

Housing Services

Eaton County is fortunate to have a number of housing services available through Housing Services Mid Michigan (HSMM). HSMM is a non-profit, grant-funded agency that provides a range of housing services, including homelessness assistance/prevention, housing vouchers, homebuyer education, supportive housing, and foreclosure prevention services.

Subsidized Housing

HSMM provides a listing of subsidized (income-based) apartment rentals, low-rent apartments, and senior housing complexes within both Eaton and Clinton Counties. In addition, HSMM prints weekly housing guides that list apartments available for immediate or near immediate occupancy.

Mainstream Voucher Program

The U.S. Department of Housing and Urban Development oversees the distribution of Section 8 Mainstream

Vouchers to public housing agencies throughout the country. This program enables families of a disabled person to lease affordable private housing of their choice.

Housing Services for Eaton County (HSEC) has been awarded 212 vouchers to serve disabled persons and their families within Eaton and Clinton Counties.

Participants of this program pay 30 percent of their income toward rent and utility payments. The voucher pays the difference directly to the landlord based on fair market rent and rent reasonableness. HSEC provides full case management to the program participants and supports participating landlords.

Foreclosure Prevention/Homelessness Prevention Programs

HSMM offers counseling services and advice for those facing foreclosure, eviction, and homelessness. The U.S. Department of Housing and Urban Development Continuum of Care Homeless Assistance Program indicated that in 2019, approximately 114 persons within Eaton County were homeless. These persons were either sheltered – living in emergency or transitional housing – or were unsheltered.

In addition to housing services, preservation of historic homes and resources has been a longstanding priority within Eaton County.

SIREN / Eaton Shelter

SIREN / Eaton Shelter serves survivors of domestic violence and homeless families in Eaton County. Their mission is to promote the elimination of domestic violence and homelessness by providing temporary housing, support, advocacy, education, and information to the community.

SIREN / Eaton Shelter provides the following services: confidential 24-hour domestic violence crisis line, emergency shelter and transitional housing, supportive counseling for residents and nonresidents, and weekly support/education group for adults and children who have experienced family violence. They also provide information and referrals to needed resources.

SIREN / Eaton Shelter houses more than 100 people (25 to 28 families) on a typical night. Close to two thirds (2/3) of those housed are young children seeking shelter with their parents. Approximately 40 percent of the people housed at SIREN are women and children who are homeless because they are fleeing family violence.

Senior Housing

Eaton County is home to over a dozen senior housing facilities. Depending on the facility, the minimum age of admittance is either 55 or 62 years. These facilities are generally located within cities or villages with access to public utilities, and clustered around Charlotte and the eastern half of the county.

With people between the ages of 55 and 74 accounting for over 25 percent of the population, supply and location of senior housing will be critical to allow residents to “age in place” and stay within their communities as they transition into new housing options that are designed for aging.

Historic Preservation

Historic preservation focuses on irreplaceable treasures and provides programs for protecting them. Historic resources enliven our surroundings and enrich our quality of life by maintaining a unique sense of place. Rehabilitating historic resources, preserving architectural details and materials that would be costly to replicate, and recycling and adapting old buildings creates economic, environmental, psychological, and social benefits.

Eaton County has an abundance of unique historic resources that bestow a sense of legacy. These valuable historic resources include buildings, structures, sites, objects, and open space that tell the story of our past and inform future generations about our founding values.

The Eaton County Historical Commission (ECHC) was created in 1976 to advance public knowledge of the history of Eaton County. Its mission is to foster public awareness of the county's rich and varied historical heritage; to encourage restoration and preservation of historic sites, structures, and artifacts; and to document and display them for the education and enjoyment of all Eaton County residents.

The ECHC has an annual grant program funding projects that promote, restore, or preserve the heritage of Eaton County. In addition, the ECHC recognizes organizations and/or individuals who have made outstanding contributions to the heritage of Eaton County through its Heritage Award each year.

The Tri-County Regional Planning Commission has developed maps of Eaton County's historical sites. The designations of the various sites range from sites listed on the National Register of Historic Places and the Michigan State Register of Historic Places. These historic sites are located in Delta, Chester, Eaton Rapids, Eaton, and Hamlin Townships; the Cities of Grand Ledge, Eaton Rapids, Potterville, and Charlotte; and the Villages of Sunfield, Vermontville, and Dimondale.

CHAPTER 5

ECONOMY AND AGRICULTURE

Chapter 5 | Economy and Agriculture

Eaton County, like most of Michigan, has a history of employment in manufacturing industries, many of which are related to the automotive industry. In addition to manufacturing history, Eaton County also has historically had a strong agricultural economy, primarily focused on production of field crops. Of the 370,545 acres in the county, as of 2017, over 210,120 acres (57 percent) is dedicated to agriculture according to the 2017 Agricultural Census.

Because agriculture accounts for such a large portion of Eaton County's land use, this chapter focuses on both traditional economic development regarding industry sectors that are large sources of employment, as well as the agricultural economy, which accounts for a much smaller share of overall employment, but has a disproportionate impact on land use compared to other industries. Figure 5-1 displays the soils in Eaton County classified as Prime Farmland as the areas in dark green. As the map shows, the vast majority of the county is classified as Prime Farmland.

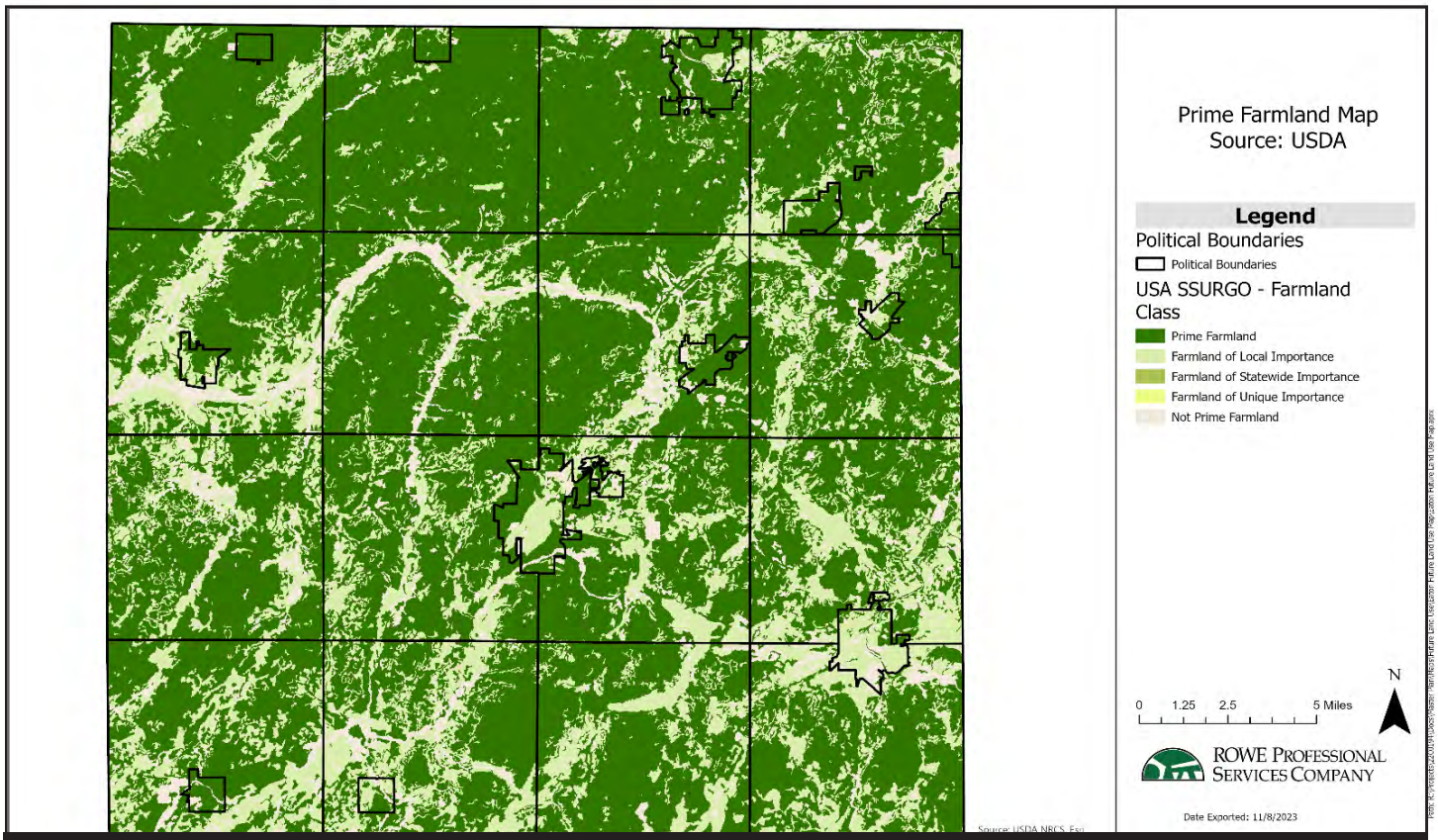


Figure 5-1: *Prime Farmland Map*

Employment Mix

The mix of employment across industries illustrates whether a local economy is consistent with state and national trends, or whether there are unique factors at play within a local economy that may provide unique opportunities or present challenges that need to be addressed.

According to the U.S. Bureau of Economic Analysis (BEA), in 2021 Eaton County had a significantly larger share of total employment accounted for in the Transportation and Warehousing, Finance and Insurance, and Retail Trade industries than the State of Michigan, while the county has significantly less employment accounted for by the Healthcare and Social Assistance industry. Table 51 displays the percentage of total employment accounted for by each industry, while Figure 5-2 displays the same information. Note, industries that account for less than 1 percent of employment are not displayed in Figure 5-2.

Table 5-1: Michigan and Eaton County Employment Mix (Source: BEA)

NAICS Code	Industry	Michigan	Eaton County
70	Farm employment	1.08%	1.83%
80	Nonfarm employment	98.92%	98.17%
90	Private nonfarm employment	88.41%	88.01%
100	Forestry, fishing, and related activities	0.30%	0.25%
200	Mining, quarrying, and oil and gas extraction	0.20%	0.13%
300	Utilities	0.38%	-
400	Construction	5.28%	5.13%
500	Manufacturing	10.98%	11.59%
600	Wholesale trade	3.26%	-
700	Retail trade	9.96%	12.26%
800	Transportation and warehousing	4.38%	8.38%
900	Information	1.18%	1.73%
1000	Finance and insurance	5.14%	11.93%
1100	Real estate and rental and leasing	4.87%	3.40%
1200	Professional, scientific, and technical services	7.52%	-
1300	Management of companies and enterprises	1.43%	-
1400	Administrative and support and waste management and remediation servi	6.27%	4.48%
1500	Educational services	1.69%	1.54%
1600	Health care and social assistance	11.86%	5.83%
1700	Arts, entertainment, and recreation	1.75%	1.22%
1800	Accommodation and food services	6.30%	6.35%
1900	Other services (except government and government enterprises)	5.65%	6.04%
2000	Government and government enterprises	10.51%	10.16%
2001	Federal civilian	0.95%	0.34%
2002	Military	0.32%	0.36%
2010	State and local	9.24%	9.46%
2011	State government	3.13%	3.66%
2012	Local government	6.11%	5.79%

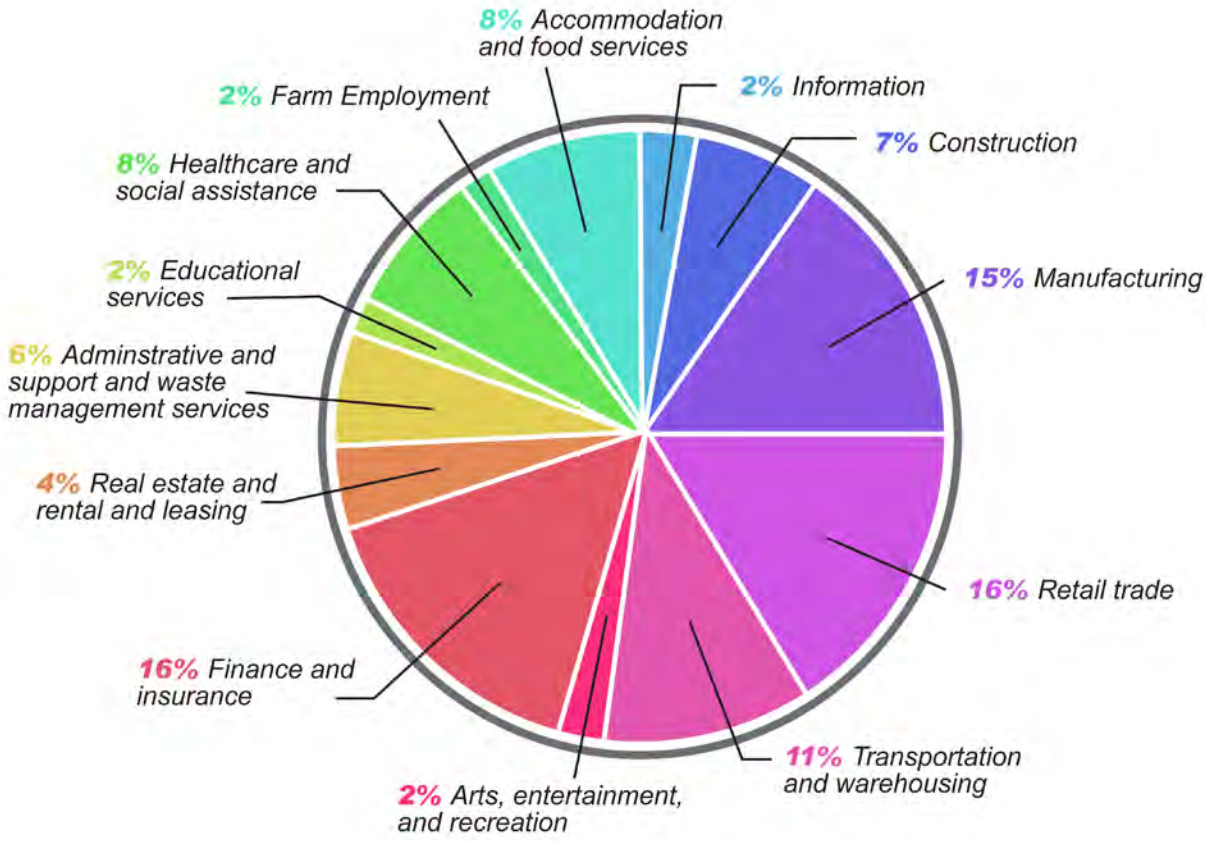


Figure 5-2: *Eaton County Employment Mix, 2021 (Source: BEA)*

Employment Trends

The employment mix of a local economy evolves over time. Sometimes this mix changes based on national or statewide trends, or other local factors may be at work. Evaluating the change in employment mix over time indicates where a local economy may have a unique competitive advantage, or where there may be vulnerabilities.

Eaton County is home to over 109,000 people and over 55,000 jobs. The total number of jobs in the county has significantly increased since 2011, growing by over 8,742 jobs and 19 percent. This is the largest percentage growth of any surrounding county other than Clinton County, and more than double the percentage increase for Michigan over the same time period. Table 5-2 displays the change in total jobs in surrounding counties and Michigan, while Figure 5-3 displays the percent change.

Table 5-2: Change in Total Employment (Source: BEA)

	2011	2016	2021	% Change 2011-2021
Michigan	5,165,348	5,575,782	5,579,513	8%
Eaton County	47,238	55,696	55,980	19%
Ingham County	189,792	188,406	182,586	-4%
Barry County	18,121	19,925	20,948	16%
Calhoun County	69,084	71,222	66,226	-4%
Clinton County	23,465	27,201	28,119	20%
Ionia County	26,254	26,572	25,616	-2%
Jackson County	72,195	75,586	74,093	3%

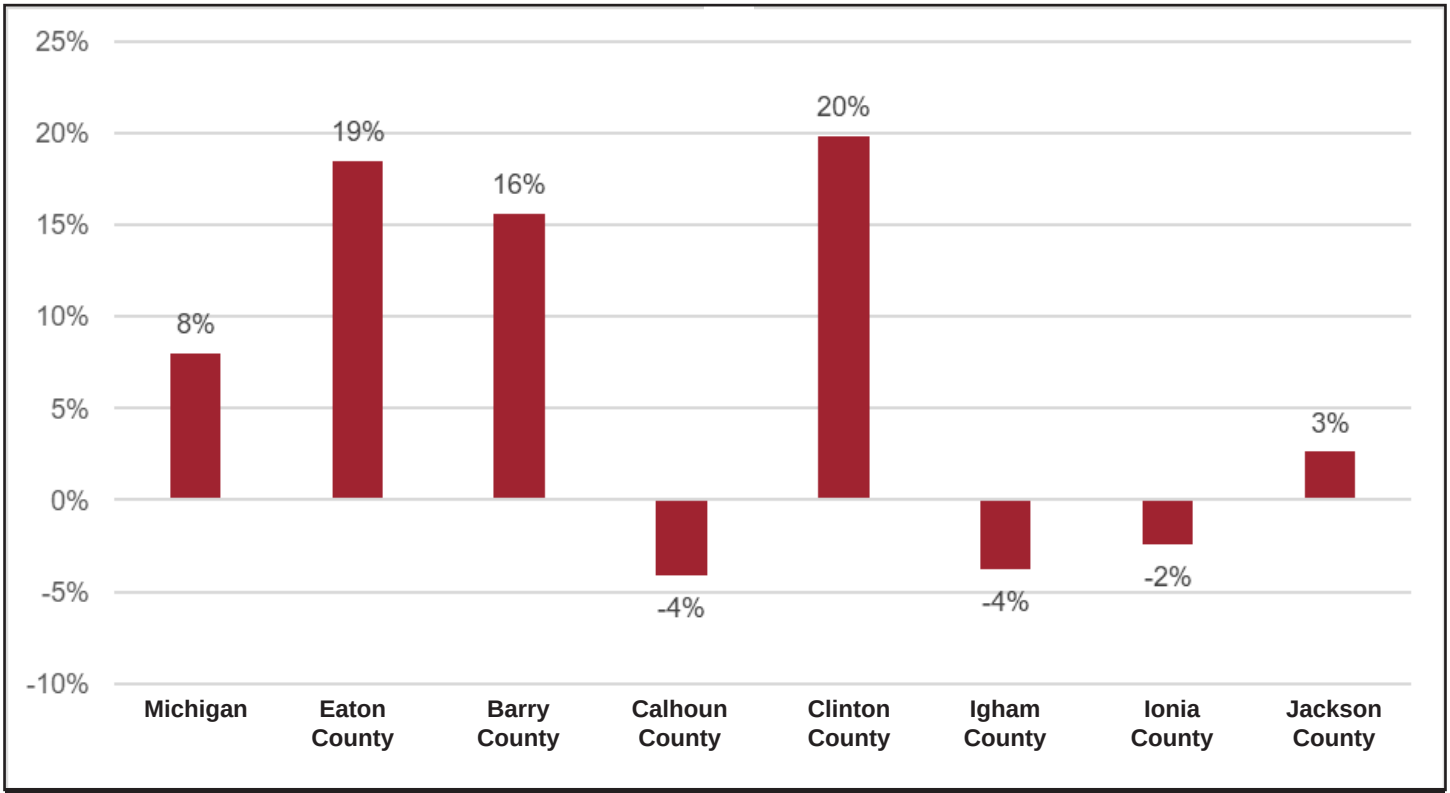


Figure 5-3: *Percent Change in Total Employment (Source: BEA)*

On the following pages, Table 53 displays employment across industry sectors in Michigan and Eaton County in 2011 and 2021, and change in each industry sector over the 10-year period. Figure 5-4 compares the percent change in each industry between Eaton County and Michigan, while Figure 5-5 displays total change in employment for all industry sectors in Eaton County.

During this time period, the change in employment was not equal across all industries. Eaton County saw significant increases in employment in Transportation and Warehousing; Information; Finance and Insurance; and Retail Trade. Each of these sectors also saw significant gains in terms of the actual number of employees as well.

Compared to Michigan as a whole, Eaton County saw much larger increases in Retail Trade and Food Service and Accommodations. There were several industries for which data was not available for Eaton County from the BEA, including Utilities; Wholesale Trade; Professional, Scientific, and Technical Services; and Management of Companies and Enterprises due to potential disclosure of confidential information. Combined, these industries for which no data is available account for approximately 10 percent of all employment in the county in 2021.

Table 5-3: Industry Mix and Change 2011-2021 (Source: BEA)

NAICS Code	Industry	Michigan			Eaton County			
		2011	2021	% Change Michigan	2011	2021	Total Change	% Change Eaton County
70	Farm employment	70,015	60,528	-14%	1,173	1,022	(151)	-13%
80	Nonfarm employment	5,095,333	5,518,985	8%	46,065	54,958	8,893	19%
90	Private nonfarm employment	4,464,001	4,932,619	10%	40,168	49,269	9,101	23%
100	Forestry, fishing, and related activities	15,417	16,965	10%	152	139	(13)	-9%
200	Mining, quarrying, and oil and gas extraction	17,040	11,175	-34%	118	73	(45)	-38%
300	Utilities	19,745	21,432	9%	-	-	-	-
400	Construction	222,628	294,806	32%	2,402	2,870	468	19%
500	Manufacturing	527,684	612,499	16%	6,020	6,490	470	8%
600	Wholesale trade	172,287	181,694	5%	-	-	-	-
700	Retail trade	544,484	555,828	2%	5,165	6,864	1,699	33%
800	Transportation and warehousing	134,217	244,523	82%	1,892	4,693	2,801	148%
900	Information	69,751	65,642	-6%	610	968	358	59%
1000	Finance and insurance	235,906	286,876	22%	5,195	6,677	1,482	29%
1100	Real estate and rental and leasing	229,902	271,524	18%	1,760	1,906	146	8%
1200	Professional, scientific, and technical services	355,566	419,471	18%	-	-	-	-
1300	Management of companies and enterprises	54,390	79,575	46%	-	-	-	-
1400	Administrative and support and waste management and remediation servi	358,122	349,850	-2%	3,298	2,510	(788)	-24%
1500	Educational services	102,841	94,438	-8%	806	861	55	7%
1600	Health care and social assistance	643,032	661,466	3%	3,018	3,262	244	8%
1700	Arts, entertainment, and recreation	99,000	97,668	-1%	654	685	31	5%
1800	Accommodation and food services	355,405	351,731	-1%	2,829	3,557	728	26%
1900	Other services (except government and government enterprises)	306,584	315,456	3%	2,999	3,382	383	13%
2000	Government and government enterprises	631,332	586,366	-7%	5,897	5,689	(208)	-4%
2001	Federal civilian	53,368	53,101	-1%	197	192	(5)	-3%
2002	Military	20,482	17,910	-13%	218	203	(15)	-7%
2010	State and local	557,482	515,355	-8%	5,482	5,294	(188)	-3%
2011	State government	176,640	174,601	-1%	1,934	2,051	117	6%
2012	Local government	380,842	340,754	-11%	3,548	3,243	(305)	-9%

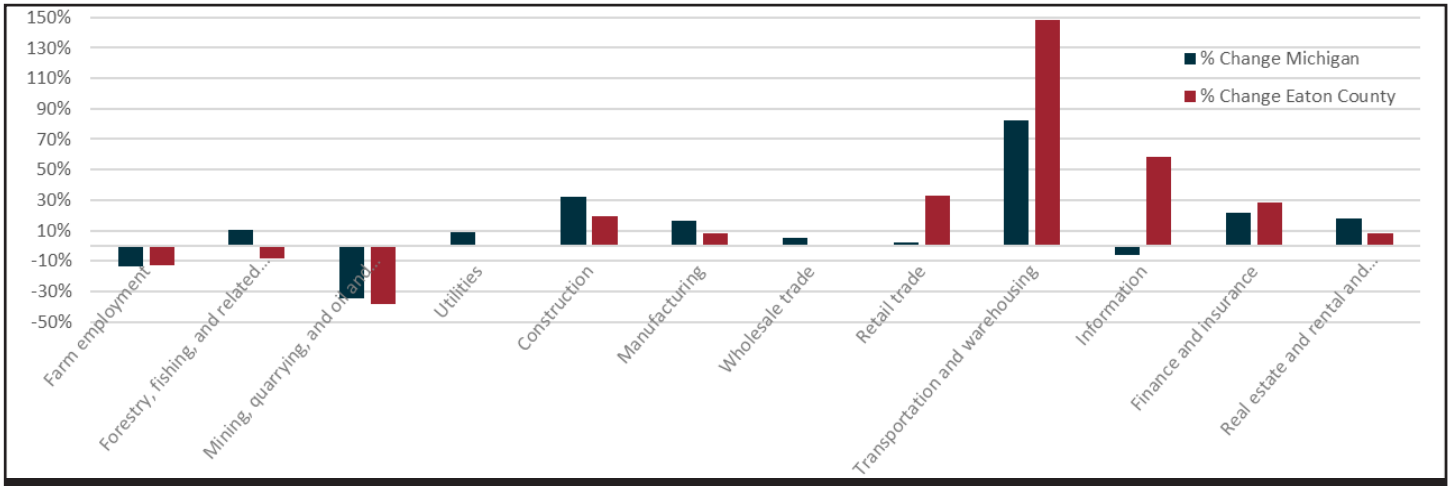


Figure 5-4: *Percent Change Industry Sectors, Michigan and Eaton County (Source: BEA)*

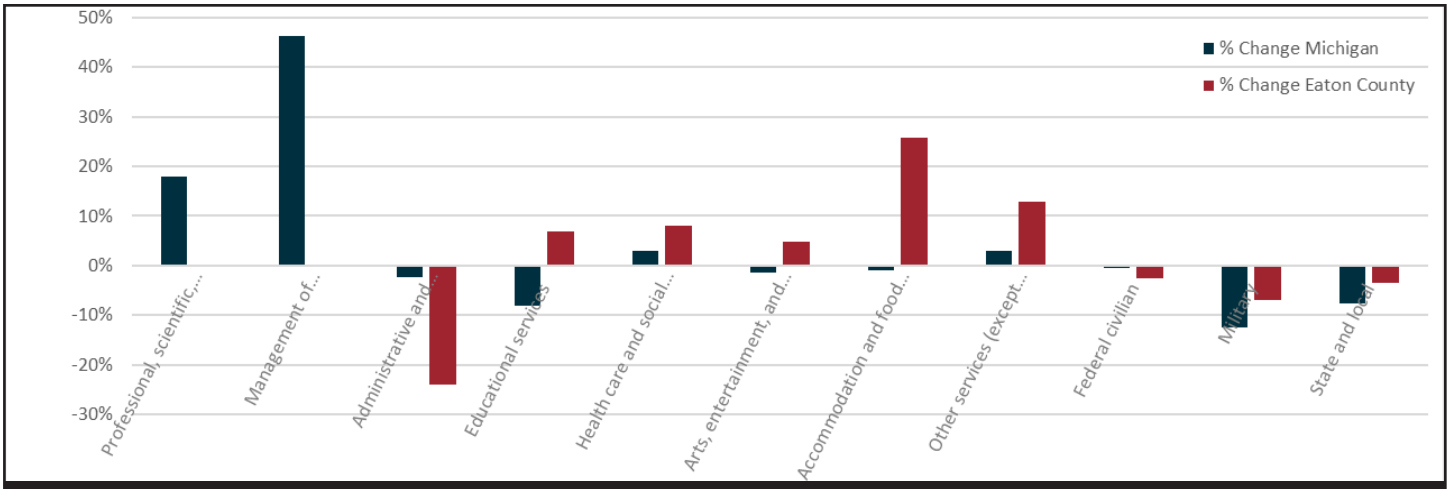


Figure 5-4: *Percent Change Industry Sectors, Michigan and Eaton County (Source: BEA)*

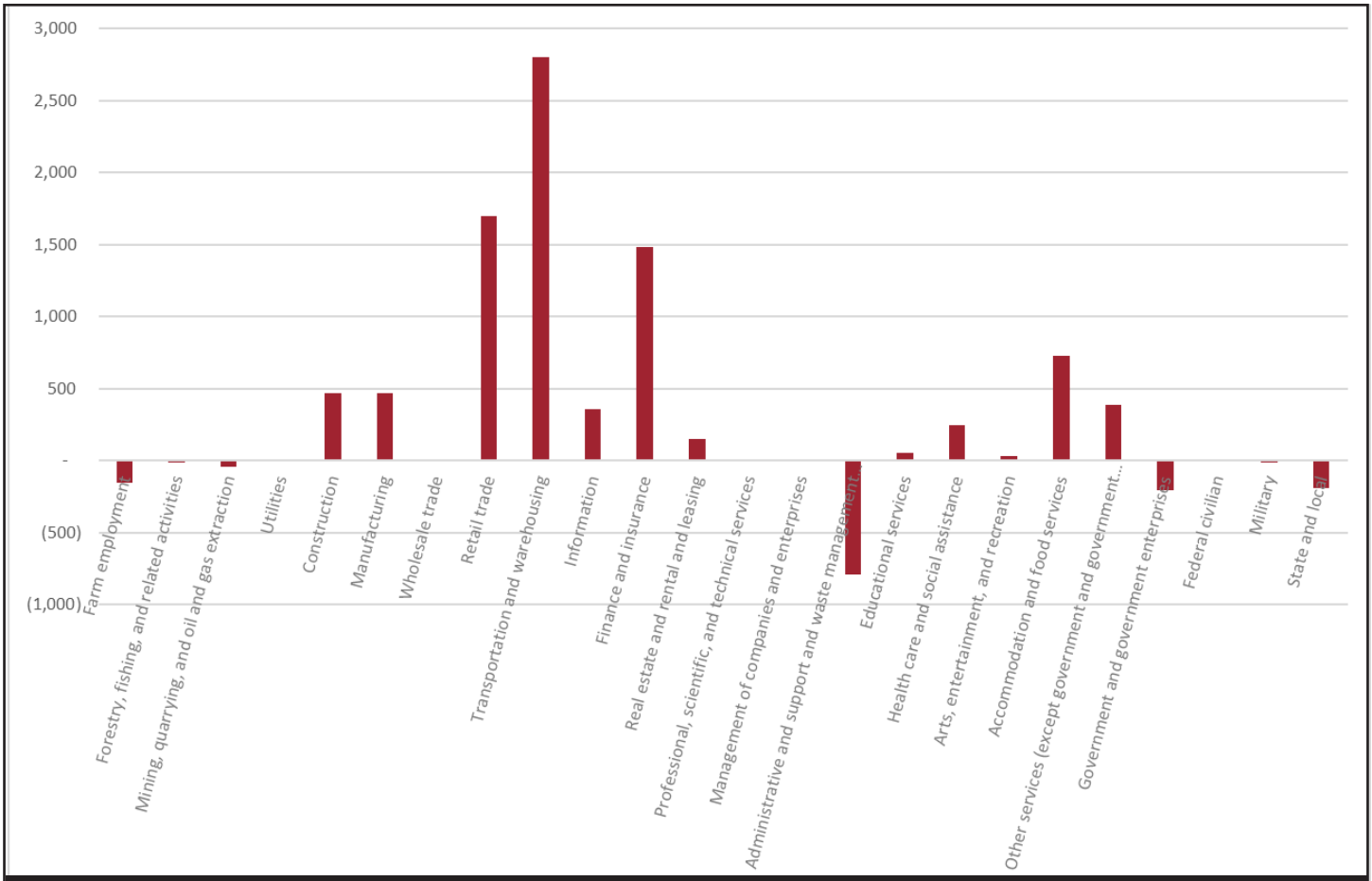


Figure 5-5: *Total Change in Employment, Eaton County (Source: BEA)*

Income

Income is an important measure of a local economy because it demonstrates whether residents are experiencing greater financial security and keeping up with national and statewide changes in income, or are falling behind. Generally, income is one of the most straightforward measures of the health of a local economy.

Table 5-4 displays the distribution of income among all households in Eaton County and the State of Michigan. Overall, Eaton County's median income is over $8,000 more than the State of Michigan as a whole, and this is reflected with a larger percentage of the population in most of the higher income levels. Although notably Michigan has a larger percentage of households with income over $200,000, even though median income is less.

Table 5-4: Household Income Distribution (Source 2020 American Community Survey)

	Eaton County	Michigan
Total	45,037	3,980,408
Less than $10,000	3.60%	6.40%
$10,000 to $14,999	3.00%	4.10%
$15,000 to $24,999	7.00%	9.20%
$25,000 to $34,999	8.30%	9.60%
$35,000 to $49,999	13.50%	13.30%
$50,000 to $74,999	20.60%	18.20%
$75,000 to $99,999	17.30%	12.90%
$100,000 to $149,999	16.90%	14.60%
$150,000 to $199,999	6.00%	5.90%
$200,000 or more	3.90%	5.70%
Median income (dollars)	67,440	59,234
Mean income (dollars)	82,176	80,803

While recent changes in income and inflation in 2021 and 2022 are not reflected in the information contained in this section, the median income in Eaton County and Michigan as a whole increased by 22 and 23 percent, respectively between 2010 and 2020 (see Table 5-5). While this increase is significant, it is less than the increase for the United States as a whole, where median income increased by 25 percent in the same time period. Importantly, income is just one reflection of household stability. The other is the cost of living. Between 2010 and 2020, the consumer price index increased by 18.94 percent, meaning that households in Eaton County experienced increased spending power during this time period.

Table 5-5: Change in Median Income (Source: American Community Survey)

	2010 Median Income	2020 Median Income	% Change
Michigan	$48,432	$59,234	22%
Eaton County	$54,885	$67,440	23%
Barry County	$51,869	$65,557	26%
Calhoun County	$42,568	$50,219	18%
Clinton County	$58,016	$72,490	25%
Ingham County	$45,808	$55,253	21%
Ionia County	$46,454	$60,139	29%
Jackson County	$46,117	$54,511	18%

Commuting Patterns and Workplace

According to the U.S. Census Bureau, as of 2019, very nearly the same number of people commute to Eaton County for work as leave the county. As Figure 56 shows, 26,723 workers commute to the county for work, while 27,279 commute outside the county and 10,513 people both live and work within the county. This distribution reflects Eaton County's status as being located adjacent to a major employment center in the Lansing Metro area.

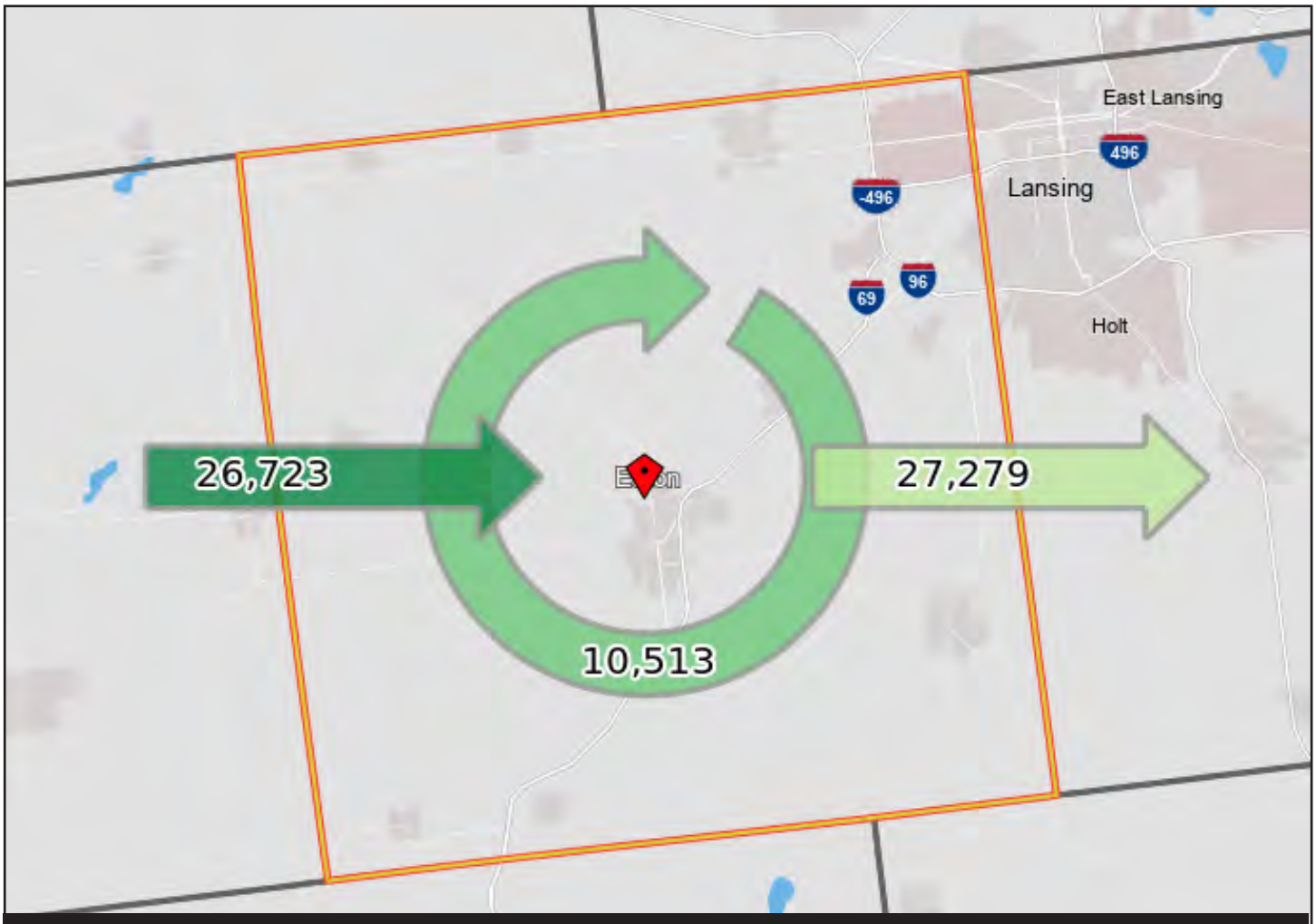


Figure 5-6: *Worker Inflow and Outflow (Source: 2019 Local Employer and Household Dynamics Survey)*

Places of employment in Eaton County are centralized around urban areas and locations with the necessary infrastructure to support industry. As Figure 5-7 shows, employment is focused in the northeastern portion of the county and around the cities of Charlotte, Grand Ledge, and Eaton Rapids, with smaller employment centers in villages in the southwest and northwest quadrants of the county.

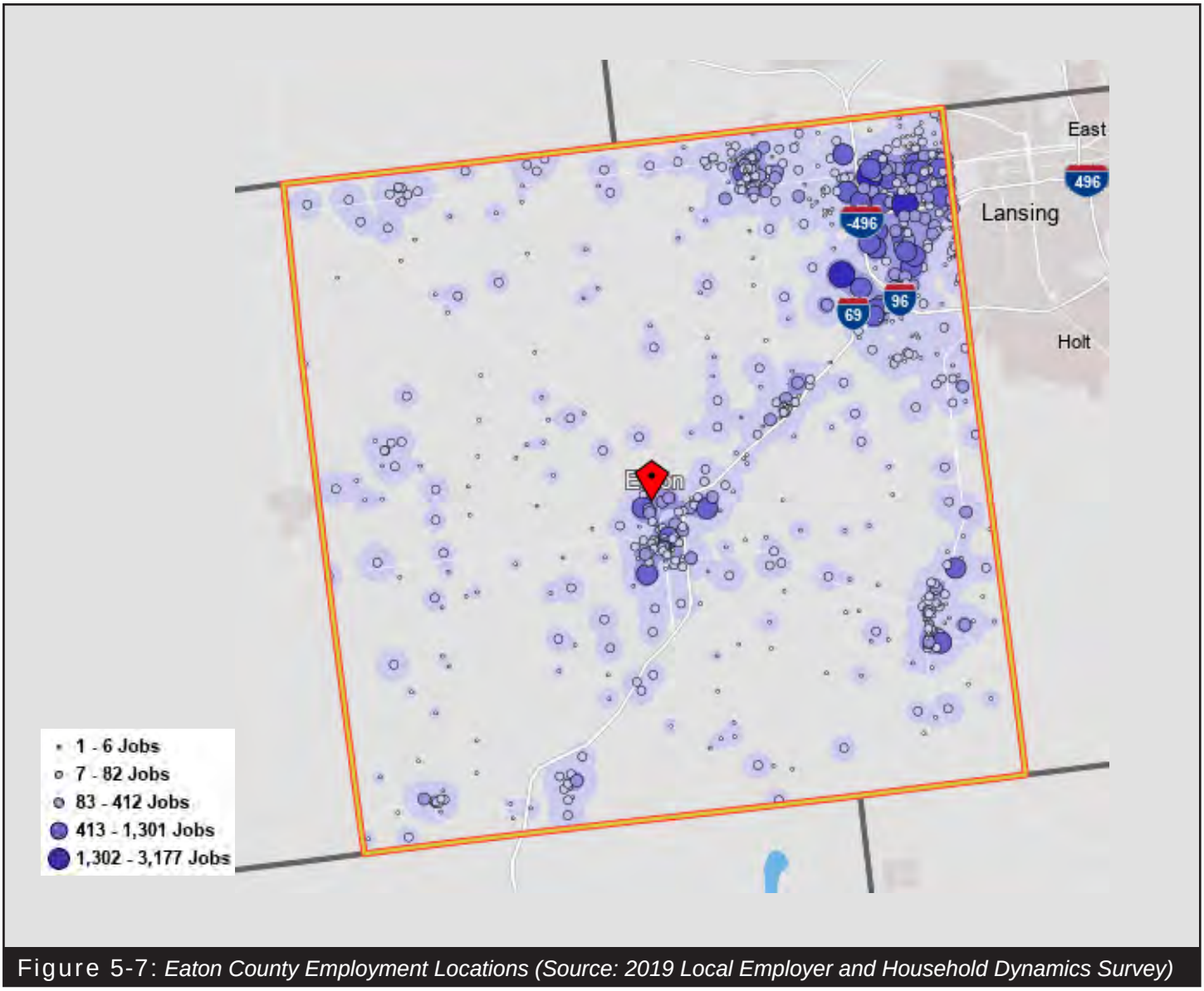


Figure 5-7: *Eaton County Employment Locations (Source: 2019 Local Employer and Household Dynamics Survey)*

Agriculture

While it accounts for just 2 percent of total employment in the county, agriculture has a major impact on Eaton County's land use decisions. The U.S. Department of Agriculture conducts a Census of Agriculture every five years, with the most recently available data from 2017. Agricultural Census data for 2022 will likely be available sometime in late 2023 or 2024. According to the 2017 Agricultural Census, Eaton County is home to 962 farm operations, with an average size of 218 acres. Of the 962 operations, 826 (86 percent) were cropland operations.

The number and average size of agricultural operations in Eaton County reflects a significant change over time. In 2007, there were 1,231 operations in the county with an average size of 181 acres. The biggest declines have been in the number of operations between 10 and 179 acres, while the number of operations between 180 and 499 acres and 500 to 999 acres has increased slightly (see Figure 5-8).

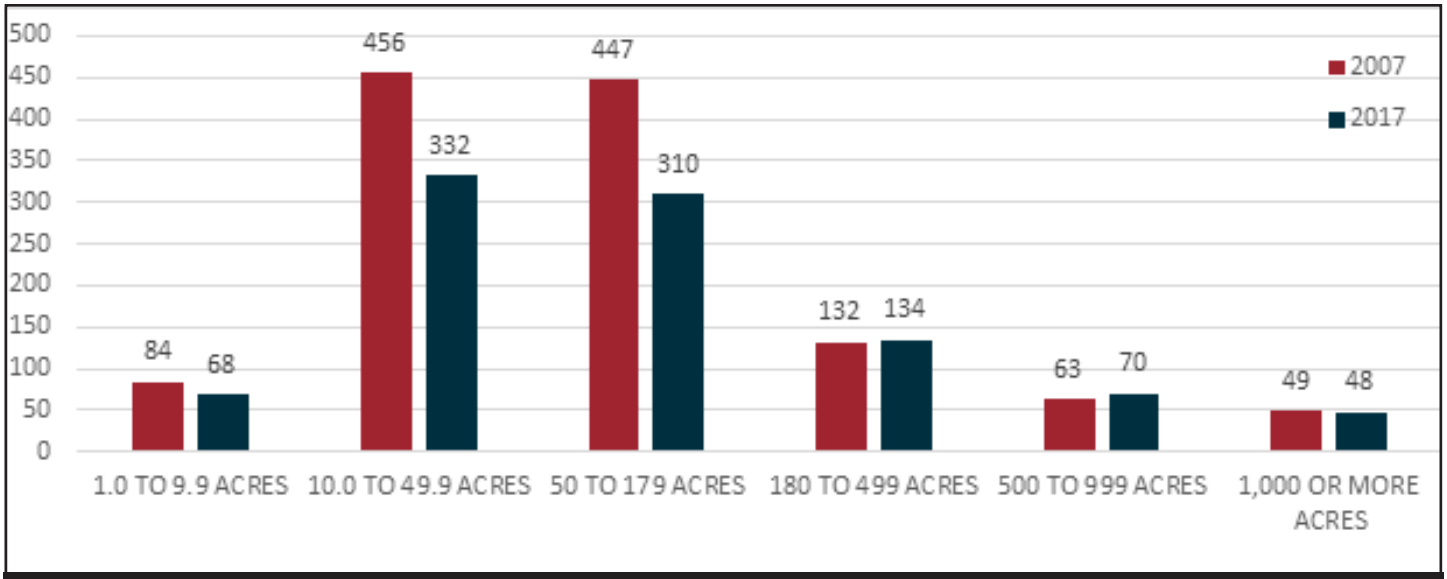


Figure 5-8: *Farm Operations by Size 2007 and 2017 (Source: Agricultural Census)*

Over time, the number of acres in farms in Eaton County has also declined, while agriculture accounted for 210,120 acres in 2017 according to the Agricultural Census, this was a substantial decline from previous years. In 1992, agriculture accounted for 233,921 acres, a decrease of over 23,000 acres over the 25-year period (see Figure 4-9).

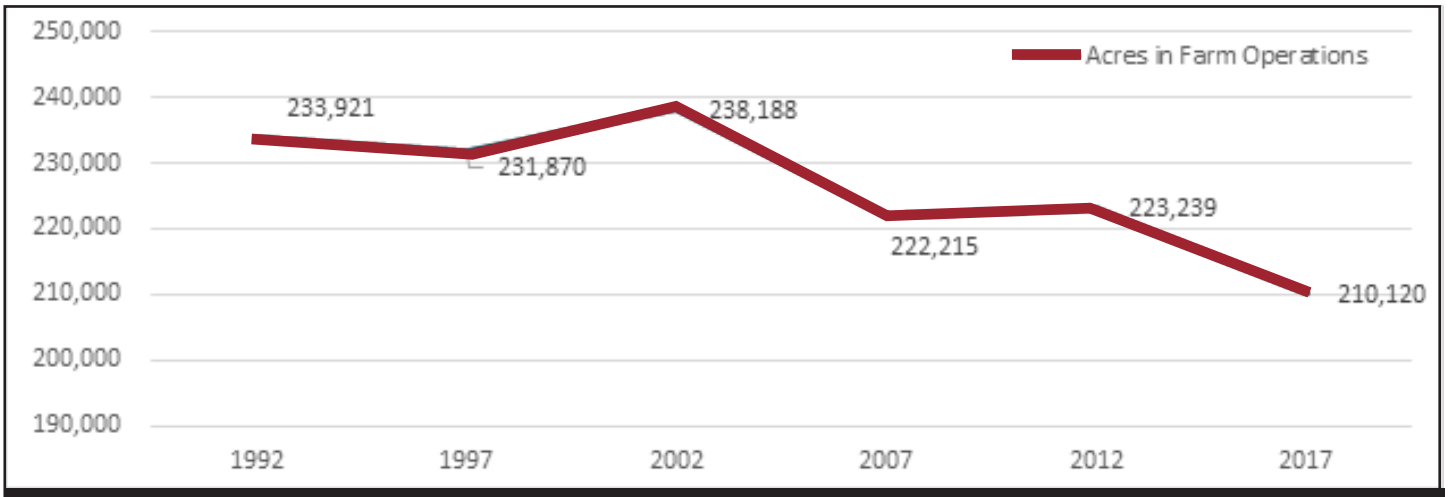


Figure 5-9: *Acres in Farms (Source Agricultural Census)*

While the number of agricultural operations and total acres in farms have both declined in Eaton County, the acres harvested has increased. In 1992, 160,758 acres were harvested and in 2017 168,296 acres were harvested, an increase of over 7,500 acres. Additionally, the market value of sales of agricultural products has increased significantly. In 1992, the average market value of sales for agricultural operations in Eaton County was $44,170 and in 2017, the value was $86,595, an increase of 96 percent. Over the same period of time, the consumer price index increased by 76 percent.

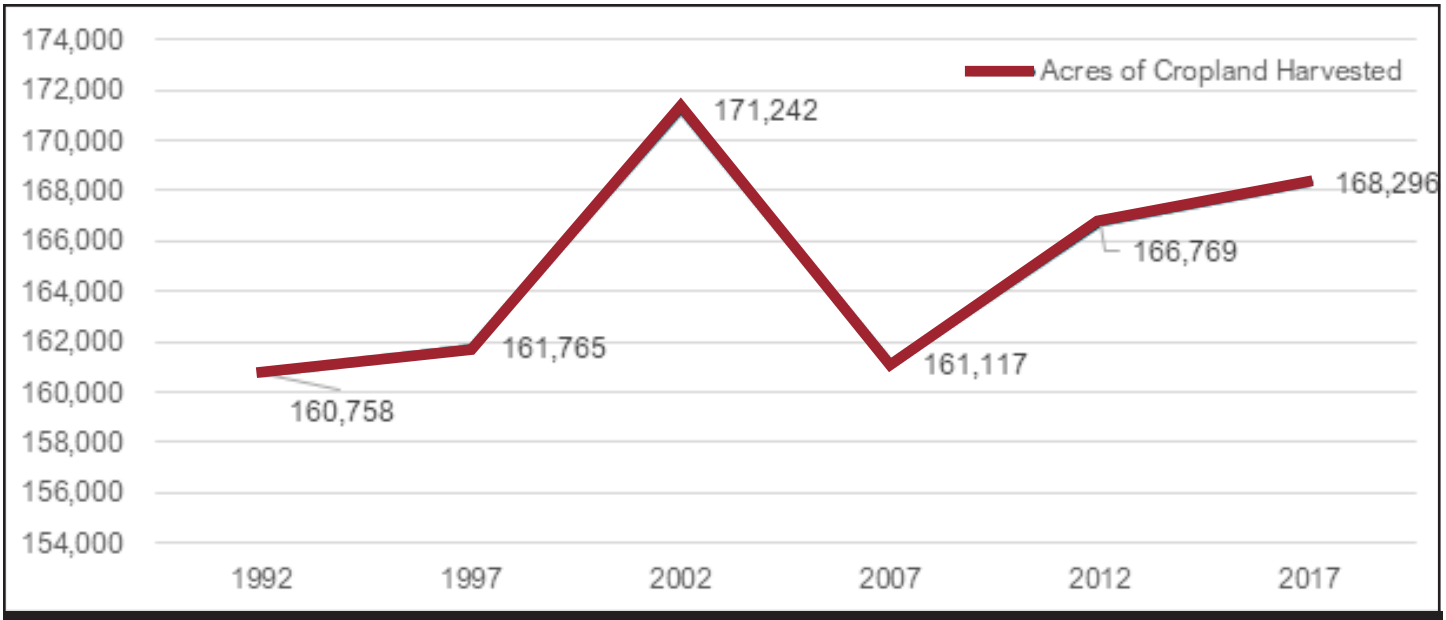


Figure 5-10: *Acres of Cropland Harvested (Source: Agricultural Census)*

Between 2007 and 2017, the number of agricultural operations with less than $49,999 in sales generally decreased, while the number of operations with more than $50,000 in sales increased. This reflects the general trend of increasing size of farms and agricultural operations and a decline of small farms. During the same time period, the average size of an operation increased from 181 acres in 2007 to 218 acres in 2017. This is similar to the average size of agricultural operations in the 1990s (See Figure 5-12).

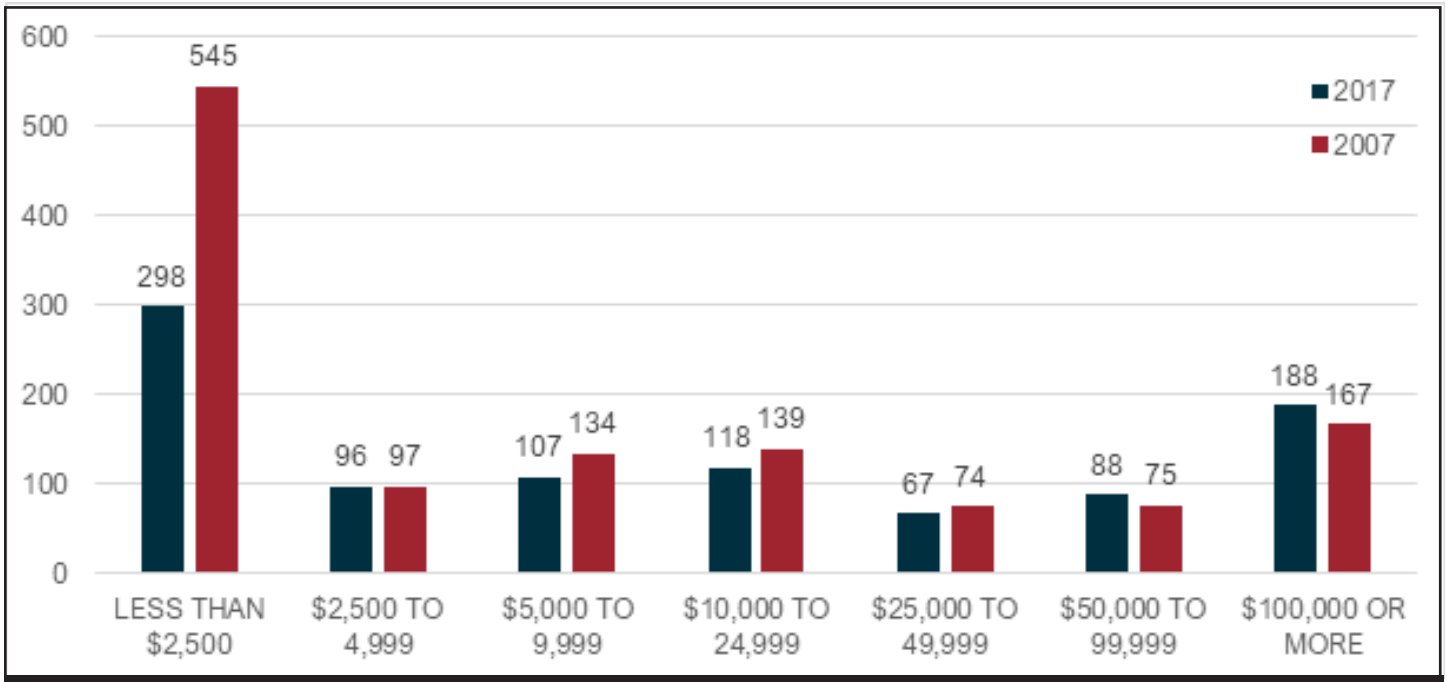


Figure 5-11: *Value of Sales for Agricultural Operations (Source: Agricultural Census)*

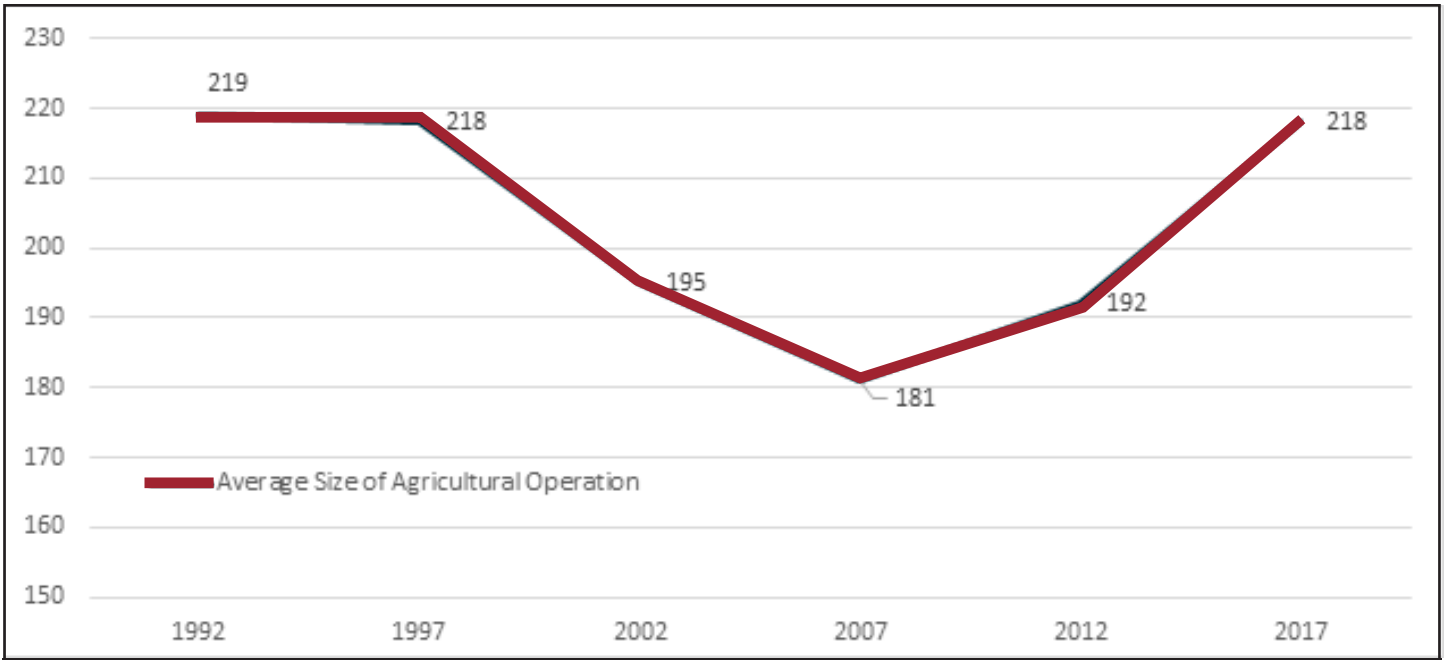


Figure 5-12: *Average Size of Agricultural Operations (Source: Agricultural Census)*

Economic Development Activities

A healthy economy is needed to provide jobs for residents and raise the standard of living for lower income citizens. A healthy economy also provides the necessary tax base needed to provide public services. When integrated with land use, transportation, and utility components of a master plan, economic development policies can promote an efficient pattern of growth.

In this section of the master plan, we focus on identifying economic development opportunities that will enhance, compliment, and diversify the large agricultural segment and established industries within the Eaton County economy.

Economic Development Partnerships

Economic development is a collaborative effort. It requires collaboration with a wide range of partners and stakeholders, including:

- Elected and appointed officials and staff in local units of government
- Other county agencies like the road commission, drain commission, and sheriff's department
- Regional agencies like the Lansing Economic Area Partnership (LEAP), Capital Area Michigan Works, and Tri-County Regional Planning Commission
- State of Michigan agencies, particularly the Michigan Economic Development Corporation
- Local educational institutions, including K-12 schools, community colleges, trade schools, and colleges and universities

Each of these stakeholders plays a critical role in economic development activities, and many maintain their own economic development plans or strategies that guide their work.

Eaton County Economic Development Role

The role of the Eaton County Community Development is to serve as a resource for local units of government seeking to access regional and county resources, and to act as a point of contact with agencies like LEAP that are pursuing new business opportunities for the county. The department also operates local programs that

support economic development, like the Brownfield Redevelopment Authority (BRA). The primary purpose of the BRA is to encourage the re-use of industrial and commercial property by offering economic incentives for redevelopment. Encouraging developers to reuse land protects green space and farmlands that would have otherwise been developed.

Economic Development Opportunities

Cooperative Agri-Business Planning Efforts

Eaton County is cooperating with various local groups / agencies to encourage and attract agriculture-related business development to the area. This includes a strong collaboration with LEAP to implement the Agricultural Economic Development Plan

Workforce Development

In addition to the aforementioned focus areas, workforce development requires the collaborative, coordinated efforts of many different organizations with similar goals and objectives. A quality workforce development program is needed for a community to stay competitive, to keep existing businesses strong, to keep young people in the community, and to raise residents' standard of living.

Workforce development strategies include developing approaches to enhance the skills of workers so that all residents can become contributing members of the local economy. These strategies involve partnerships with educational institutions, employers, unions, and state and local workforce development agencies and organizations. Key partners for the county in encouraging workforce development are Capital Area Michigan Works, Lansing Community College, and local school districts.

CHAPTER 6

NATURAL FEATURES AND RESOURCES

Chapter 6 | Natural Features and Resources

When asked what Eaton County's best assets are, the most common response among stakeholders and survey respondents is natural features and the environment. These assets provide increased quality of life, protect against natural disasters, and provide for important economic opportunities. This chapter of the master plan details the extent and condition of the County's natural resources and identifies concerns and threats that are addressed in the Plan.

Geology

The bedrock of the entire Southern Peninsula of Michigan is characterized by sedimentary rock that was deposited as marine sediments. This rock was laid down over a period of 370 million years and is approximately 14,000 feet (over 2.5 miles) thick. This rock forms a huge regional structure called the Michigan Basin. Overlain on the bedrock are gravels, sands, and clays that were deposited during four major glacial periods, the most recent of which is the Wisconsin which ended approximately 10,000 years ago.

The glaciers, or ice sheets, left the Charlotte Morainic System in Eaton County. This system makes up the County's hills, valleys, and major river corridors, as well as a few areas of exposed bedrock.

One such feature is a unique ledge complex of sedimentary rock along the Grand River in the City of Grand Ledge. These ledges rise up approximately 60 feet and appear for almost a mile in the City. This outcropping is one of the largest rock outcrops in central Michigan, and the seventh largest in the State.

Figure 6-1: *Ledges along the Grand River in Grand Ledge*

The main categories of glacial deposits (or till) present in the County are shown on the map "Quaternary Geology" on the following page. The glacial deposits that cover more than half of the county (55%) are classified as "medium" textured and made up of sand and smaller-sized gravel. Glacial outwash (put down by running water from melting glaciers), makes up 23% of the county, and is found in association with today's streams and rivers. Medium texture end moraine material makes up another 20% of the County. Till that is deposited at the edges or ends of a glacier when it stalls in one position for some time is identified as "end moraine" material. Lastly, coarse-textured end moraine till is found in the southwest corner of the County, making up the remaining 2% of the County's land area.

> *This information is pertinent because glacial tills make up the parent material that today's soils are formed from. According to the Soil Survey of Eaton County, Michigan, "Parent material determines most of the limits of the chemical and mineralogical composition of the soil."*

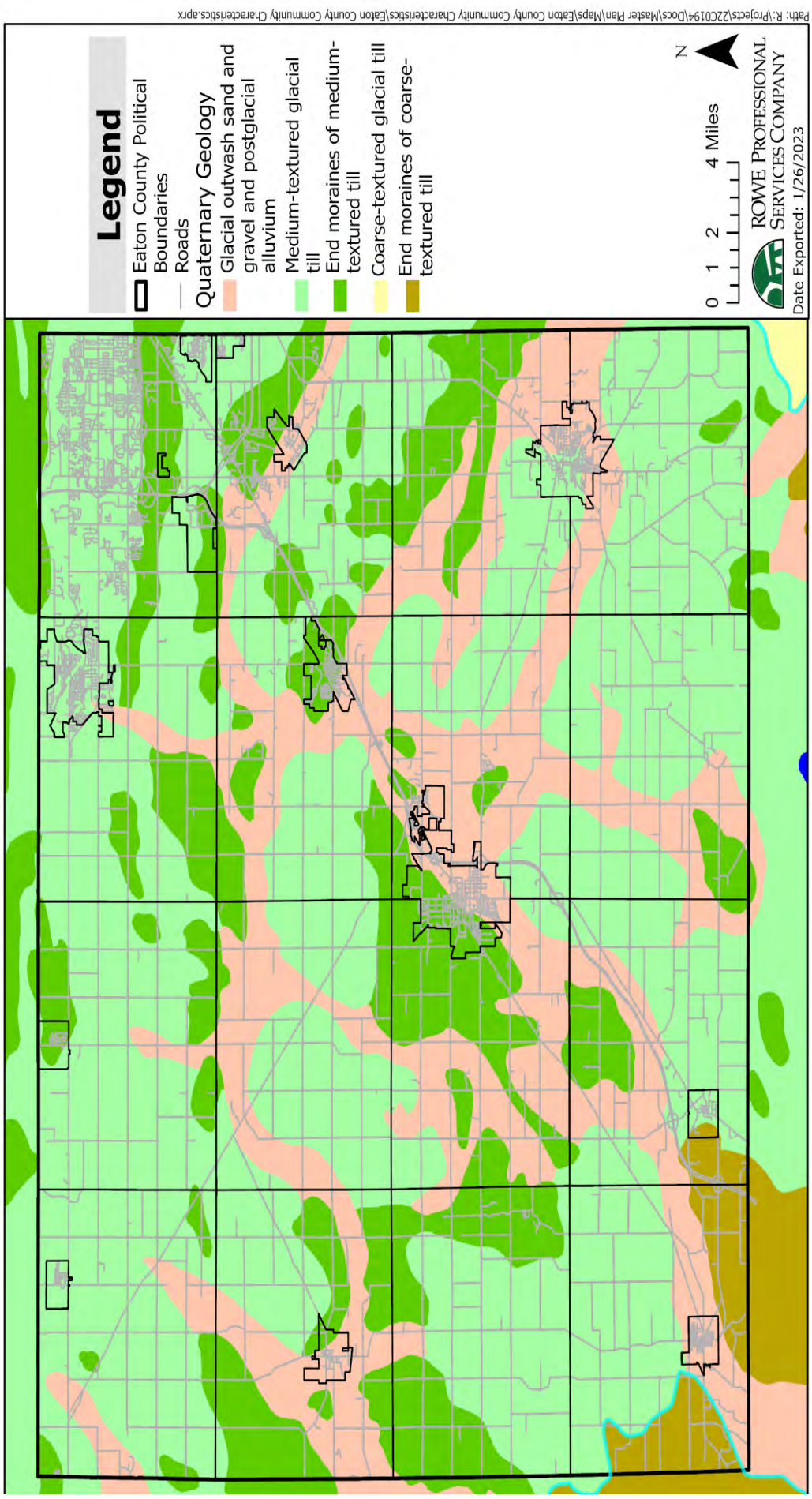


Figure 6-2: *Eaton County Geology (Source: Michigan Department of Natural Resources)*

Topography

The relief, or topography, across the County was also created by movement of the glaciers. They left the Charlotte Morainic System, which consists of three ridges that begin in Kent County and continue southeasterly across Eaton County into Ingham County, where they diminish. The elevation of the County ranges from 775 feet to nearly 1,000 feet and averages about 900 feet, which is approximately 325 feet above the elevation of Lake Michigan. The local topography is described as ranging from nearly level to steep. However, the majority of the County is level to gently rolling slopes of 10% or less. Most of the steeper slopes occur in relation to surface mining activities or the sandstone formations along the Grand River at Grand Ledge.

Soils

Soils in the County are a product of many influences: existing mineral parent material lain down by the glaciers; pre-settlement forest vegetation that grew in the County before it was logged and cleared; surface and groundwater action; wind; and in most recent times, human influences on soils caused by agriculture and development.

Soils within the County are one of its most valuable natural resources. Agricultural land uses represent over 50 percent of the county's total land area and significant economic value. While half of the County contains well and moderately drained soils (43% or 160,000 acres), 48% of the County contains somewhat poorly drained and poorly drained mineral soils. The map on the following page identifies where these soil categories are located. This plan also discusses "Prime Farmland" which are the most desirable agricultural soils, and where areas, if drained, would create prime farmland. Prime farmland and farmland of local importance makes up approximately 51% of the County, while prime farmland if drained makes up 43%. Areas that are not considered prime farmland are primarily in urban areas, or directly adjacent to rivers and other waterways.

Soils not only support human populations through food production, soils that are relatively impermeable create wetlands that store floodwaters, and help filter pollutants from stormwater runoff before it reaches rivers and streams. Soils also infiltrate precipitation and recharge underground aquifers, which are the County's main source of drinking water. Soils also support woodland ecosystems that create important wildlife habitat, timber production opportunities, microclimates for energy conservation in buildings, and sequester a significant amount of carbon annually.

The climate of Eaton County is characterized as "continental," in that it is not very near features, such as an ocean, that would significantly impact temperatures, precipitation, and the like. Weather patterns are controlled largely by the movement of pressure systems across the nation. The inland location of the County limits Lake Michigan's influence on the County's weather. The Lake's most noticeable impact on the climate in the County is increased cloudiness, which helps to moderate minimum temperatures during late fall and early winter.

The average annual high temperature for the Lansing Area according to the National Weather Service is 59.2° Fahrenheit, and the average low temperature is 40.5° Fahrenheit. The National Weather Service also reports that while the region is generally warming, it is not warming at the same rate across seasons. Again, according to the National Weather Service, "warming has been concentrated in winter and spring, while summers have not warmed substantially, a feature characteristic of much of the Midwest. A lack of summer warming is reflected in a below average number of hot days since 1990 and no overall trend in warm nights. The winter warming trend is reflected in a below average number of very cold nights since 1990."

Precipitation averages 35.29" annually in the County. While past years have shown a general trend for higher average precipitation (1940-1990), this trend has generally leveled off since 1990. The average annual snowfall in the County is 48" and has generally declined as a consequence of warming winter temperatures.

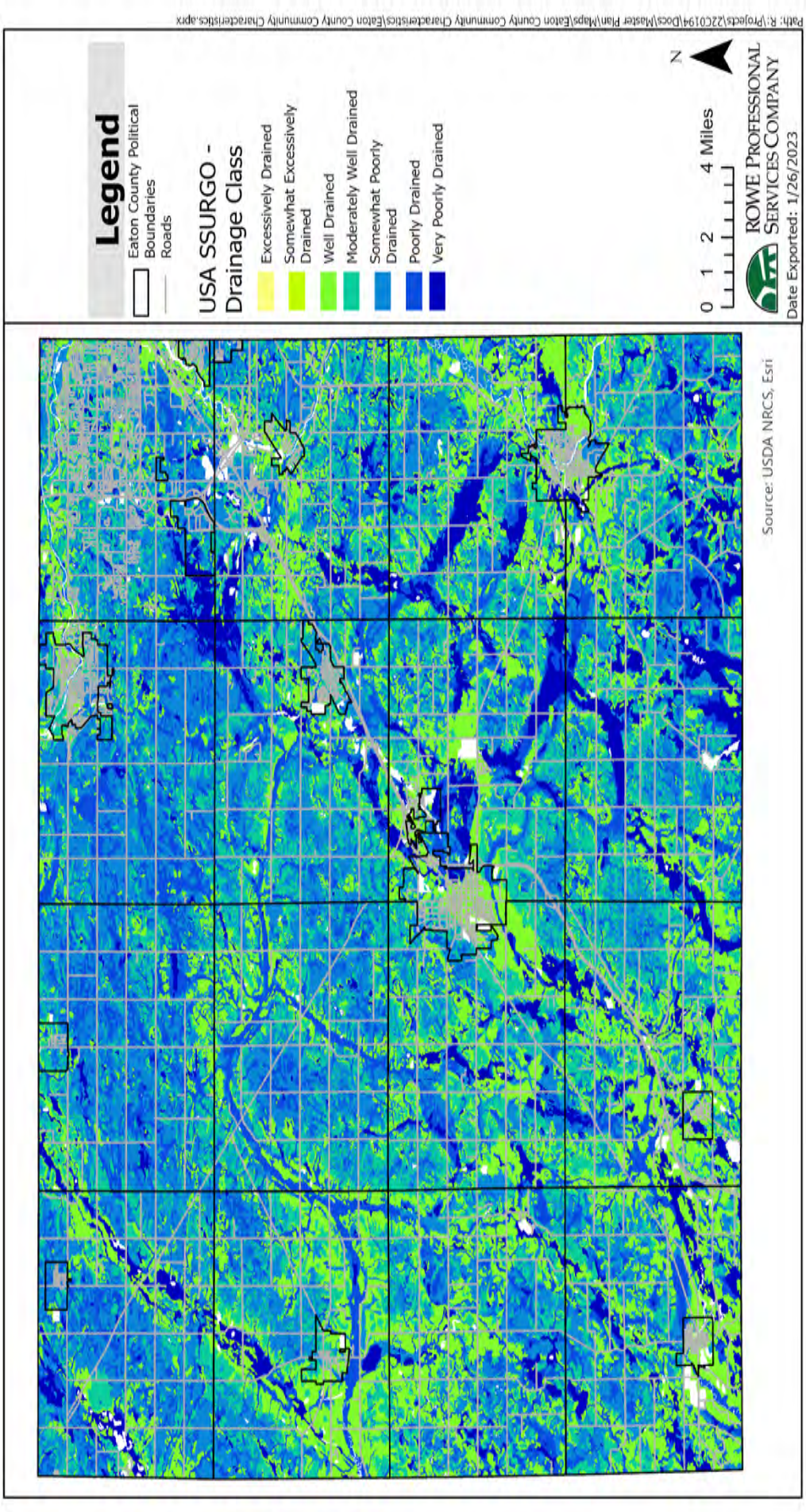


Figure 6-3: *Eaton County Soils (Source: USDA)*

Pre-Settlement Vegetation

The vegetation that existed in Eaton County before it was settled and farmed provides guidance for conservation efforts of the remaining natural environment today. As Michigan was being settled, vegetation surveys were conducted in the 1830's to guide pioneers to areas with good farming and lumbering opportunities. The kinds of plants that grow in an area indicate the site's soil type, and potential for growing crops.

Pre-settlement vegetation types are shown on Figure 6-4. Most of the County was covered by two types of hardwood forest communities: Beech-Sugar Maple (76%) and Oak-Hickory (6%). Forested wetlands covered 14% of the County, which included Black Ash swamps, mixed conifer swamps, and mixed hardwood swamps. (Note that the term "swamp" is used for forested wetlands; "marsh" for wetlands vegetated with herbaceous plants such as cattails; and "scrub-shrub" for wetlands vegetated with woody shrubs such as buttonbush or Michigan holly). Other wetland types covered slightly more than one percent (1%) of the County. Grassland communities covered slightly more than one (1%) of the County.

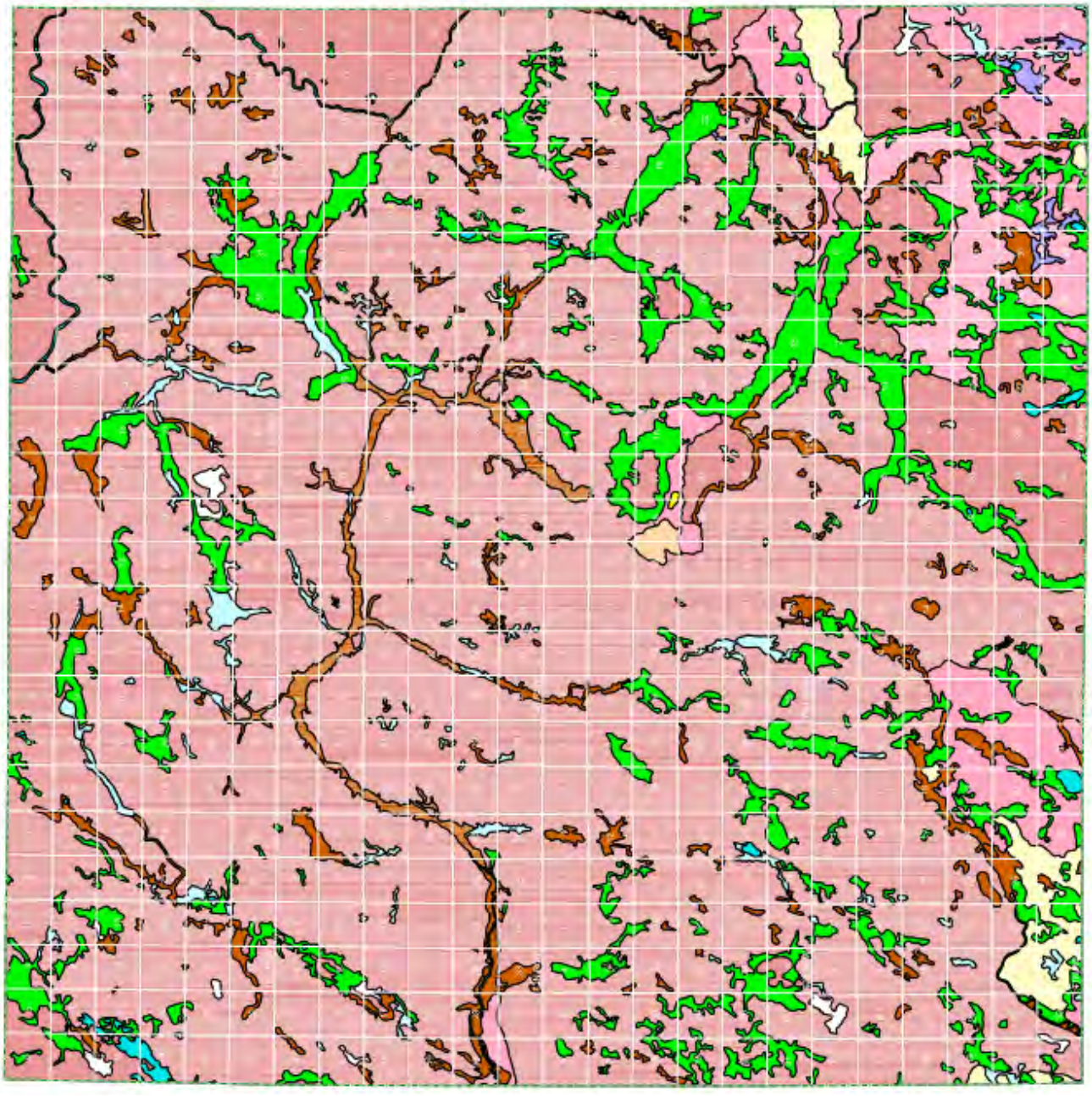


Figure 6-4: *Pre-Settlement Vegetation (Source: Michigan State University)*

Current Landcover

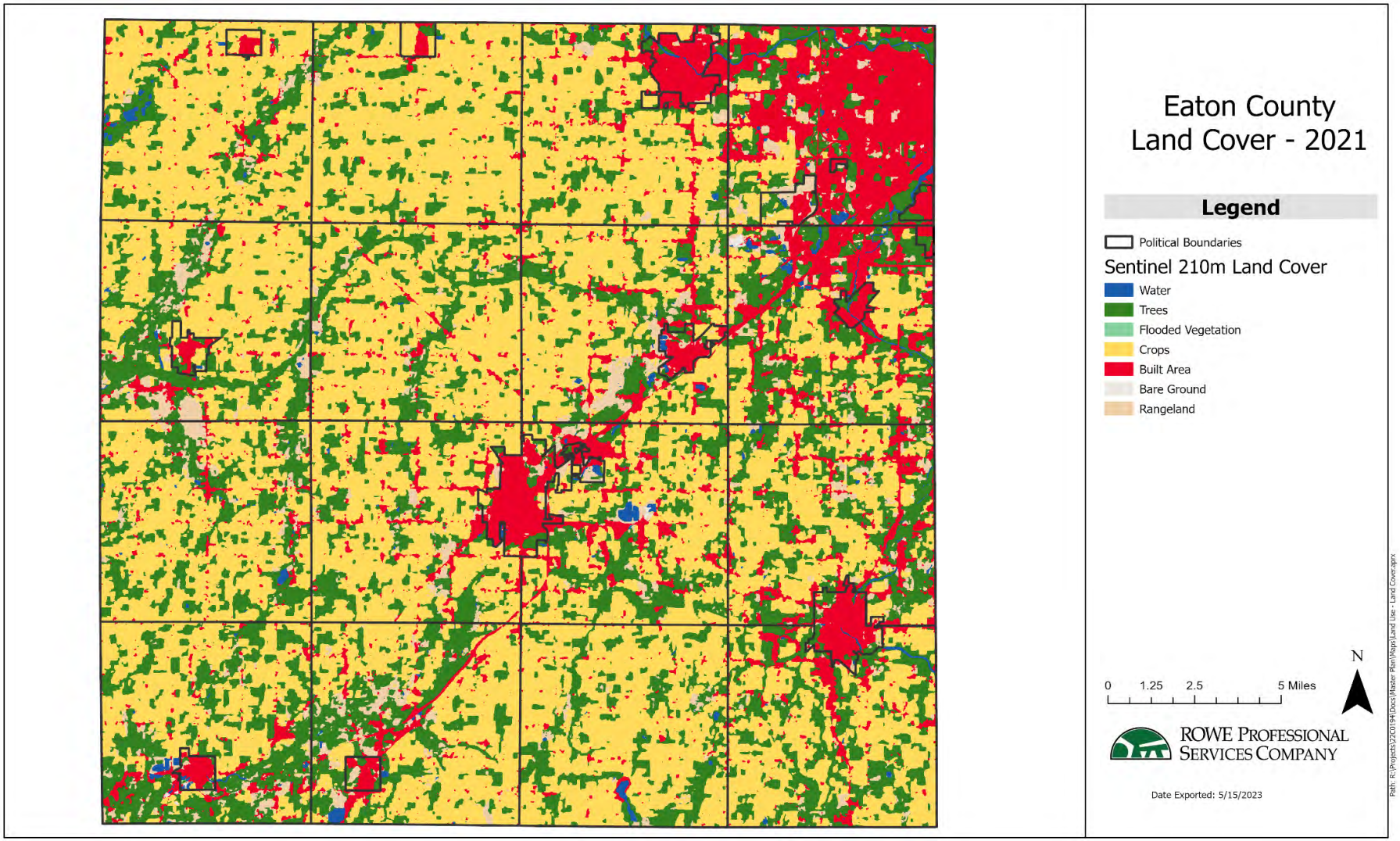
According to the most recent survey land use and land cover from ESA Sentinal-2 imagery, a satellite imagery-based system, Eaton County's land cover has changed dramatically since the pre-settlement survey on the previous page. It is important to note that land cover analysis is very different from land use. In this case, the entire county is divided into 10 square-meter areas and assigned a value. In other words, land use applies a single value to each parcel, whereas land cover can assign multiple values to a single parcel because it is based strictly on imagery, not parcel lines. Figure 6-5 displays land cover for Eaton County as of 2021.

Land Cover	Percent of County
Crops	53.88%
Trees	26.72%
Built Area	14.03%
Rangeland	4.36%
Water	0.95%
Bare Ground	0.05%
Flooded Vegetation	0.01%

Figure 6-5: *Eaton County Land Cover, 2021 (Source ESA Sentinal-2, ESRI)*

As the map on the next page shows. The Northeastern portion of the county is largely developed, with pockets of development in smaller cities and villages, but the vast majority of the county is agricultural or covered by wooded areas. In total 80.6 percent of the county is covered by crops or trees.

Figure 6-6: *Land Cover (Source: ESA Sentinal-2; ESRI)*



Water Resources

A watershed is an area of land that drains to a common drainage channel or lake. Eaton County is part of three watersheds: the Upper Grand River watershed, covering approximately 34% (or 128,000 acres) of the County; the Thornapple River watershed (a sub-watershed of the Lower Grand River watershed), covering approximately 44% (or 163,000 acres) of the County; and the Battle Creek watershed (a sub-watershed of the Kalamazoo River watershed), which covers approximately 21% (or 79,000 acres) of the County. Figure 5-7 illustrates where these watersheds are located in the County.

Since 1999, the County has participated in several watershed planning efforts, in conjunction with applying for and receiving a stormwater permit from the state through the Phase II Stormwater National Pollutant Discharge Elimination System (NPEDS). The Eaton County Drain Commissioner's office has spearheaded these efforts in the County. Stormwater permits are required of government entities that contain urban areas of a specified density, and who own and operate municipal stormwater systems.

Watershed management plans were developed for the Upper Grand River, the Lower Grand River (which includes the Thornapple River sub-watershed), and the Battle Creek River, a part of the Kalamazoo River watershed. These plans describe the current condition of each watershed and identify significant pollutants that need to be addressed in each watershed.

Note that the following section includes a summary of watershed management plans completed for each of the three major watershed areas within Eaton County. None of these plans have been updated since the last Master Plan update in 2011.

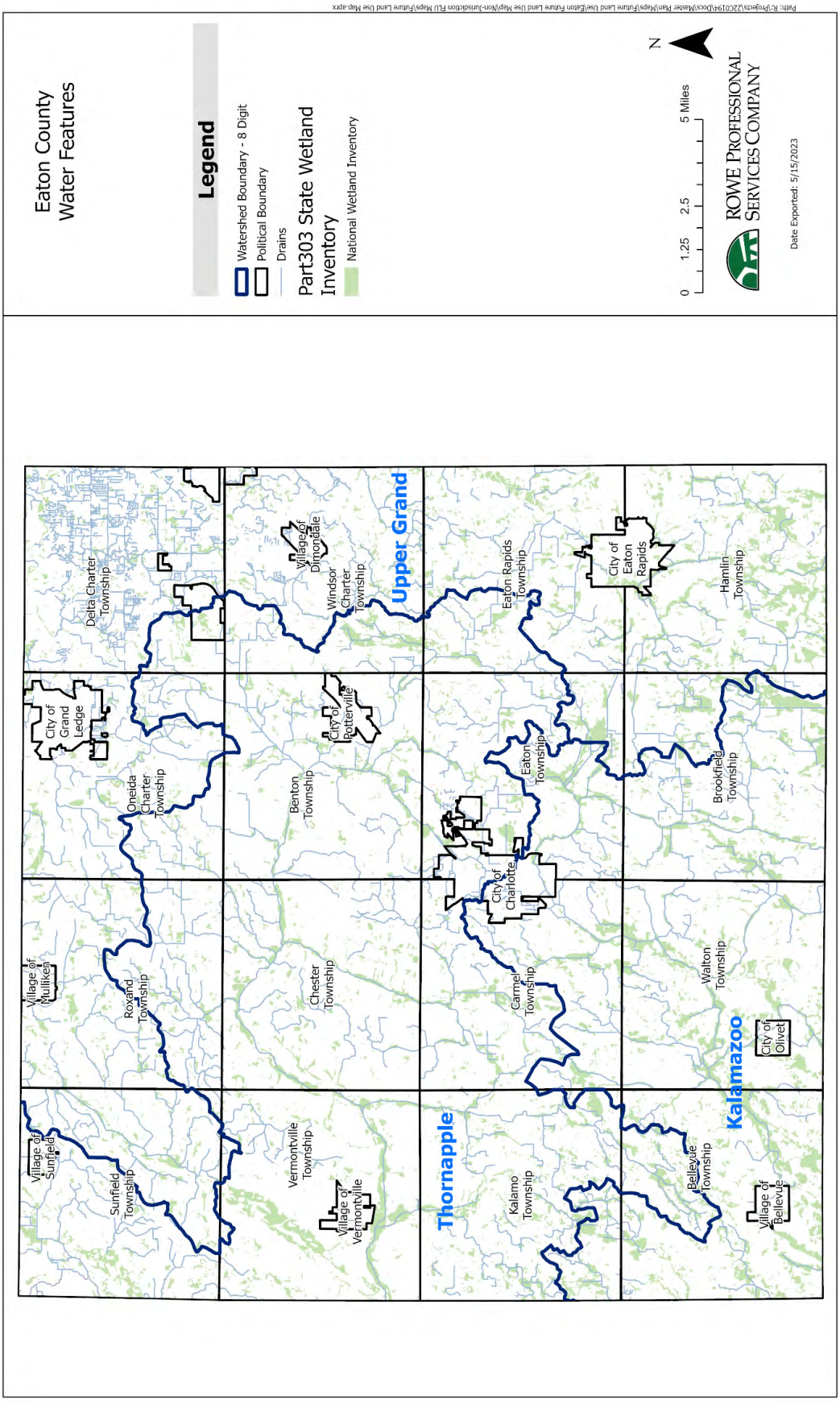


Figure 6-7: *Eaton County Watersheds and Water Features (Source: EGLE; Michigan DNR; Eaton County)*

Upper Grand River Watershed Plan

The Grand River drains the eastern and northern parts of the County. Willow Creek and Springbrook Creek are important tributaries of the Grand River to the east, and Sebewa Creek, Sandstone Creek and Carrier Creek are the main tributaries that drain the northern part of the watershed in the County.

This watershed is made up of both rural and urban areas. Urban land uses are mostly located within the City of Lansing, City of Grand Ledge, and Delta Township, while the less developed and rural areas of the watershed make up the remainder. Based on demographic projections and master plans and zoning information from the participating communities, the *Grand River Watershed Management Plan* states that residential, industrial, and commercial land uses will expand in those areas currently seeing such land uses. This includes most of the watershed except for the southwestern area, which is projected to be dominated by agricultural use. However, as a result of changes in land use, agricultural land uses are expected to decrease by 15% across the watershed.

Water quality of the Grand River, and its tributaries, was also studied in preparation of the *Watershed Plan*. Existing data was used to determine the existing pollutants and other water quality and quantity impairments. The main impairments include sediments from activities including agriculture, construction sites, and stream bank erosion; flow variability due to stormwater management methods; low dissolved oxygen due to high levels of nutrients from fertilizers, animal waste, poorly maintained septic systems, and combined sewer overflows; bacteria from human and animal wastes; and PCBs and/or mercury.

The watershed plan used three methods to prioritize the issues uncovered:

1) Public opinion was solicited to identify existing and perceived problems with the Grand River and its tributaries;
2) The Michigan Department of Environmental Quality's list of "designated uses" was used to compare the ability of people and wildlife to use the waterways for nine identified uses, such as public water supply, cold-water fisheries, and partial body contact; and
3) the municipal watershed partners determined the "desired uses" of the waterways, and whether or not the resources could accommodate these uses.

All of the information was evaluated, and the following goals were established for the Grand River Watershed:

1) Educate the public about the importance of protecting and managing the watershed.
2) Provide a sustainable and equitable funding source.
3) Encourage water quality friendly development.
4) Restore and enhance recreational uses through development of a watershed recreation plan.
5) Protect and enhance habitat for wildlife and aquatic animals through development of a watershed habitat plan.
6) Protect and increase wetlands through development of a watershed habitat plan.
7) Provide pollution prevention / good housekeeping practices for municipal operations.
8) Strive to eliminate pathogens to meet total and partial body contact for recreational uses.
9) Encourage water quality friendly agricultural practices.
10) Develop Watershed Management Plan updates.

As part of their NPDES permit, each municipal partner has committed to implementing the actions identified in the Watershed Plan within a certain time frame. The GLRC members have organized subcommittees in the areas of administration (through Executive Committee), public education, illicit discharge elimination, habitat and recreation, funding, and ordinances and best management practices.

Thornapple River (Lower Grand River) Watershed Plan

The Thornapple River is a sub-watershed of the larger Grand River watershed. The Thornapple valley is a significant landscape feature in Eaton County at almost a mile wide and 100 feet below the adjoining moraines in the western part of the County. The main tributaries of this river include Scipio Creek, Mud Creek, Hager Creek, Thompson Creek, Shanty Brook, Lacey Creek and the Little Thornapple River.

This sub-watershed was addressed in a watershed plan for the Lower Grand River that was drafted in 2005. As shown on the map in this document, this watershed drains the middle section of the County. Land use within this watershed is impacted by growth of residential areas out of the central urban cores, and into the surrounding agricultural areas. As indicated in the Watershed Plan, the result of this type of population growth has been an overall reduction in population density. As communities expand away from the urban centers, it tends to produce large lot residential areas, large shopping centers, and new roads, parking lots, roof tops, and driveways that increase the watershed's imperviousness. Imperviousness is bad for a watershed because it forces stormwater overland, where it picks up pollutants and heats up, and deposits large amounts of polluted stormwater directly to streams and lakes. Water bodies evolved to receive most of their water from groundwater, which was cleaned and cooled as precipitation infiltrated the ground. Changes made by imperviousness degrade water quality, scour stream banks, and minimize or eliminate the stream's ability to support wildlife.

The Lower Grand River Watershed Management Plan states that this river is moderately impaired by agricultural runoff and channel modification. While these impairments are evident, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) has rated the overall habitat and water quality of this subwatershed as "good."

Even with this rating, the Lower Grand River Management Plan identified the following water quality goals:

1) Restore and maintain the chemical, physical, and biological integrity of the waters of the Great Lakes Basin Ecosystem by enhancing river environments in their natural states for present and future generations.
2) Maintain and improve water quality by promoting sound land management decisions.
3) Assess relationships between water quality and stormwater runoff by developing guidelines for stormwater management to reduce impacts of urbanization.
4) Preserve, restore cold water fisheries and reintroduce indigenous game fish species where possible.
5) Provide for flood protection, minimize risk of flooding, and assess necessity of flood control improvements.
6) Ensure public safety in recreational opportunities in surface waters.
7) Protect healthy habitats for native aquatic life and wildlife.

In addition to these goals, the Watershed Plan identifies five locations within Eaton County that rank as "sensitive" due to five factors:

1) adjacent land use types (urban and agriculture);
2) large areas of impervious surfaces,
3) large in-stream temperature fluctuations;
4) receiving large amount of stormwater runoff; and
5) high population density.

The areas listed in Table 11 below show stream segments that are considered "critical" areas that require intervention to minimize water quality degradation.

In addition to the Watershed Management Plan for the Lower Grand River, several interactive tools and two guidebooks were created to assist subwatersheds in their individual planning efforts. A Lower Grand River

Watershed provisional organization was formed to provide basin wide oversight, implement regional and watershed-wide initiatives, and prioritize water quality concerns.

Battle Creek River Watershed

The Battle Creek River is a sub-watershed of the larger Kalamazoo River watershed. It drains the southern portion of the County. The river's headwaters begin in Narrow Lake, and its primary tributaries in Eaton County are Indian Creek and Big Creek. A watershed management plan was drafted for the Battle Creek River in 2004 by stakeholders in the County, including the Eaton County Drain Commissioner's office.

The watershed's primary land use is agriculture, although the river does traverse the City of Charlotte and the Village of Bellevue. This river has been identified as one of the leading contributors of phosphorus and sediment to the Kalamazoo River. It is also the "flashiest" gauged tributary in the Kalamazoo River watershed.

Goals of this plan include:

1) Reduce non-point source pollution in the Battle Creek River Watershed.

2) Continue conducting the geomorphic assessment using the Rosgen Methodology, analyze data, and implement a restoration demonstration site on a stretch of the Battle Creek River that maintains drainage, restores stream function, and stream stability utilizing natural channel design. Also, conduct three dam removal projects on the Battle Creek River to provide fish migration upstream, restore the natural hydrologic flow, and reduce safety and maintenance liability. If dams cannot be removed due to financial constraints, historical reasons, or public opposition, install a fish passage structure to allow for migration. The long-term goal is to restore the Battle Creek River into a natural functioning system utilizing the Rosgen Methodology by implementing natural channel design on channelized sections of the river.

3) Protect and enhance critical natural resources within the Battle Creek River watershed by working with private landowners and local governments, and integrating long-term land use planning tools to protect water quality.

4) Increase public awareness, appreciation, utilization, and protection of the Battle Creek River Watershed by providing more public recreational opportunities that are compatible to the goals and objectives of the Battle Creek River Watershed Project at county, township, village, and city parks.

5) Implement an information and education program to increase awareness of the Battle Creek River Watershed and non-point source pollution through workshops, newsletters, brochures, classroom presentations, demonstration sites, posters, flyers, and advertisements.

One main source of sediments in this watershed is from stream bank erosion resulting from historic dredging. To address this issue, the Battle Creek River Watershed Project and the Eaton County Conservation District received three grants from various state and national agencies to restore a one-mile reach of the Battle Creek River (Battle Creek Drain) through the City of Charlotte's Bennett Park.

Beginning in 2007, the project has placed several stability and habitat structures, a rock riffle, and removed the dam in this location. The project has also placed more stability and habitat structures, as well as restored the channel to its historic location and natural curving form. The group has also located a rock ramp (similar to a fish ladder) at the downstream end of the lake level control structure at Narrow Lake. This structure has restored the ability of the local fish to migrate into Narrow Lake. Another successful project has been a cost sharing program for agricultural producers. The Calhoun Conservation District and the Gun Lake Tribe of Pottawatomi Indians have joined to provide 75% of the funding for installation of best management practices on farms that reduce soil erosion and the discharge of phosphorus to surface waters.

Lakes

Table 6-1: *Lakes*

Lake Name	Size	Watershed
Narrow Lake	160 acres	Battle Creek River
Pine Lake	140 acres	Battle Creek River
Saubee Lake	80 acres	Thornapple River
Lacey Lake	80 acres	Thornapple River

The main lakes in the County are shown in Table 6-1 below. Most have mucky bottoms, and only a very few have sandy bottoms or beaches. There are an additional 20 small natural lakes in the County, with a total land area of less than 1,000 acres. The total land area covered by lakes in the County represents less than one percent (1%) of total land area.

Wetlands

Table 6-2: *Wetland Areas*

Wetland Delineation	Acres
78 DNR only	15,659
Hydric Soils & 78 DNR	12,129
Hydric Soils & NWI	28,406
Hydric Soils & NWI & 78 DNR	26,240
NWI & 78 DNR	5,049
NWI only	11,539
Hydric Soils only	132,091
Total	**231,113**

While the county does not have many lakes, a significant portion of the county is covered by wetland areas and/or hydric soils. The State of Michigan regulates any wetland areas over 5-acres in size, which significantly reduces the development potential of a site with a wetland area recognized by the state of Michigan. Any wetlands listed on the National Wetland Inventory (NWI) or identified via a 1978 Michigan DNR survey of wetlands are regulated by the state and must receive state approval prior to being impacted by development.

Hydric soils on the other hand are areas that may not be state-identified wetlands, but are likely to present challenges to development due to frequent flooding or other unstable conditions. Figure 6-8 displays the number of acres accounted for by each wetland type in the county.

Most of the wetlands in the County today exist in association with tributaries and rivers that cross the County. During times of high rain or snow melt, wetlands absorb and hold excess water, and protect lands and property from flooding. By slowing the movement of water, wetlands allow sediments to fall out of the water, cleaning it before it is discharged into the adjacent stream. This process also allows the wetland plants to take up pollutants, such as fertilizers or heavy metals, further cleaning the water. Wetlands are also critical wildlife habitat, providing important nesting and food sources.

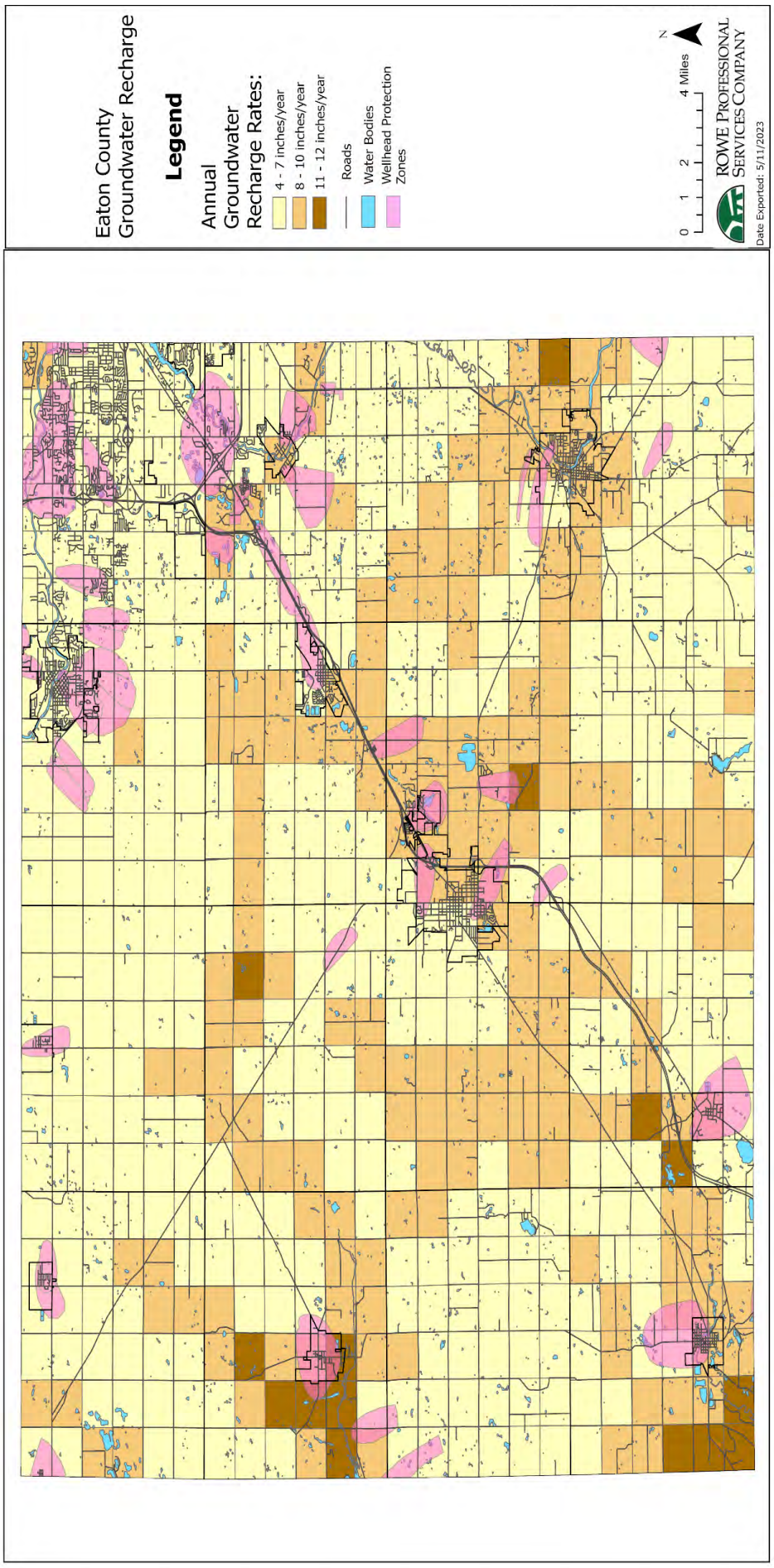


Figure 6-8: *Wetland Areas in Eaton County*

Groundwater Resources

Many water needs of the County – for industry, agriculture, and drinking water – are supplied by wells. One main exception is the use of ponds that are dug for agricultural irrigation and other uses. Groundwater also supplies the "base" flow for streams and creeks throughout the County. Before the land was cleared, precipitation infiltrated the ground rather than running off, and provided a steady flow of clean, cold water to lakes, streams, and creeks. Groundwater resources in the County are not abundant except in the southwest, which has moderately abundant groundwater supplies. Figure 5-9 shows the estimated annual recharge rates of groundwater resources in the County.

County residents receive their drinking water from groundwater wells. The more urban parts of the County, including Grand Ledge, Vermontville, Charlotte, Eaton Rapids, Olivet, and Bellevue have municipal wells that serve residents' needs. The remainder of the County is served by private wells. Delta Township discontinued use of its municipal wells in 1995 in favor of purchasing bulk water from the Lansing Board of Water and Light. Communities with municipal wells have instituted several safeguards for their water supply. Each has a Wellhead Protection Program and delineated wellhead protection zones that identify and limit any potential contaminants within the wellhead protection zone. In addition, water from municipal wells is monitored to ensure that it meets purity standards.

The importance of groundwater protection cannot be overstated. To ensure private water wells are properly maintained, the County has instituted "time-of-sale" rules that require a private well to be evaluated before the property can be sold to another party. This ensures problems with private wells are addressed, and not passed on to the next property owner. The time-of-sale rules also apply to private septic systems, to certify the well is not being contaminated by a malfunctioning septic system, or the septic system is not discharging untreated effluent into the environment.

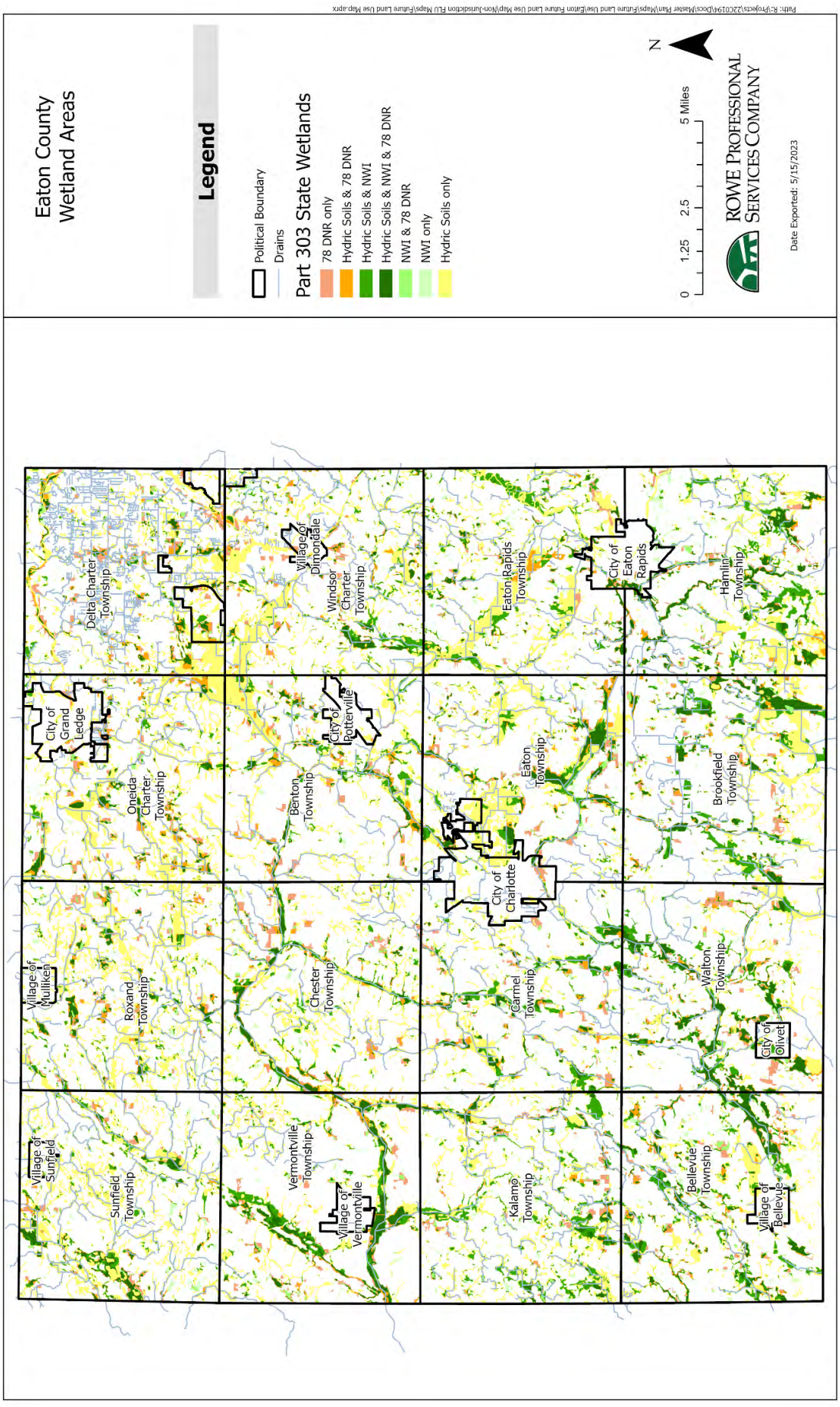


Figure 6-9: *Ground Water Recharge Rates (Source: Tri-County Regional Planning Commission)*

Potential Conservation Areas

Green Infrastructure

In 2008, a study and report was prepared for the Tri-County Regional Planning Commission called *Clinton, Eaton, and Ingham Counties Potential Conservation Areas: Providing Ecological Information for a Green Infrastructure Plan* by the Michigan Natural Features Inventory staff of Michigan State University Extension Services. This study was conducted to identify the most significant natural areas in the region, and to provide the data that will allow focused conservation efforts through sustainable land use planning. The premise is, if natural areas that provide benefits such as water filtration, moderating local climates, and air purification, are conserved, the natural features will offer a better quality of life for residents, and eliminate the need to replace these benefits with human-made systems.

Green infrastructure systems are made up of woodlands, wetlands, and other natural features connected by river and stream corridors, tree rows and other natural passageways. These systems allow plants and animals to disperse throughout their range, creating functioning ecosystems that provide humans with many ecological, environmental, and economic benefits. For example, a well-functioning wetland system, that has maintained its hydrologic connections with adjacent streams and uplands, will continue to store and filter water, absorb pollutants from stormwater through its vegetation, and support wildlife, such as pollinators from nearby agricultural fields, and game species. Wetlands that are disconnected from their water source, or discharge point, will no longer function nor provide the benefits as it had in the past.

To maintain quality of life, and the benefits its green infrastructure provides, a balanced approach to land use planning that accommodates development while also preserving natural features, their connections, and functions needs to be adopted. The Potential Conservation Areas (PCA) shown in Figure 5-10 are defined by the report as places on the landscape dominated by native vegetation that have various levels of potential or harboring high-quality natural areas and unique natural features. In addition, these areas may provide critical ecological services such as maintaining water quality and quantity, soil development and stabilization, pollination of cropland, wildlife travel corridors, stopover sites for migratory birds, sources of genetic diversity, and floodwater retention. The key is to maintain vegetated corridors between the larger features, such as woodlands or wetlands, so as to maintain the system as an interconnected unit.

The method used to identify and prioritize these sites was made up of eight criteria: 1) total size; 2) size of core area; 3) length of stream corridor; 4) landscape connectivity; 5) restorability of surrounding lands; 6) vegetation quality; 7) parcel fragmentation; and 8) bio-rarity score.

Each criterion was split up into several levels and assigned points. The highest scoring natural areas are considered to be the most significant.

In Eaton County 729 sites, totaling 54,507 acres were identified as potential conservation areas. Total scores ranged from a high of 25 points (out of a possible 45), to a low of 1 point. The average score was 8. The areas identified as PCAs are displayed in Figure 6-10.

Table 6-3: *Potential Conservation Areas*

PCA Class	PCA Count	% of All PCAs	% of County Acres
Low (1-6)	258	35.4%	3.2%
Med (7-9)	302	41.4%	4.7%
High (10-14)	149	20.4%	4.5%
Highest (15-25)	20	2.7%	2.3%

The report concludes that there are several high-quality natural areas still existing in Eaton County, much like it was before European settlement 200 years ago. With the high rate of development and its associated stresses

on the natural environment, conservation of these remaining areas and their native plant and animal populations are vital to the County's maintaining the benefits this green infrastructure provides, as well as the natural heritage of the area. These areas were identified as important for resource conservation in the previous Master Plan's Future Land Use Map, and are maintained as such in this update.

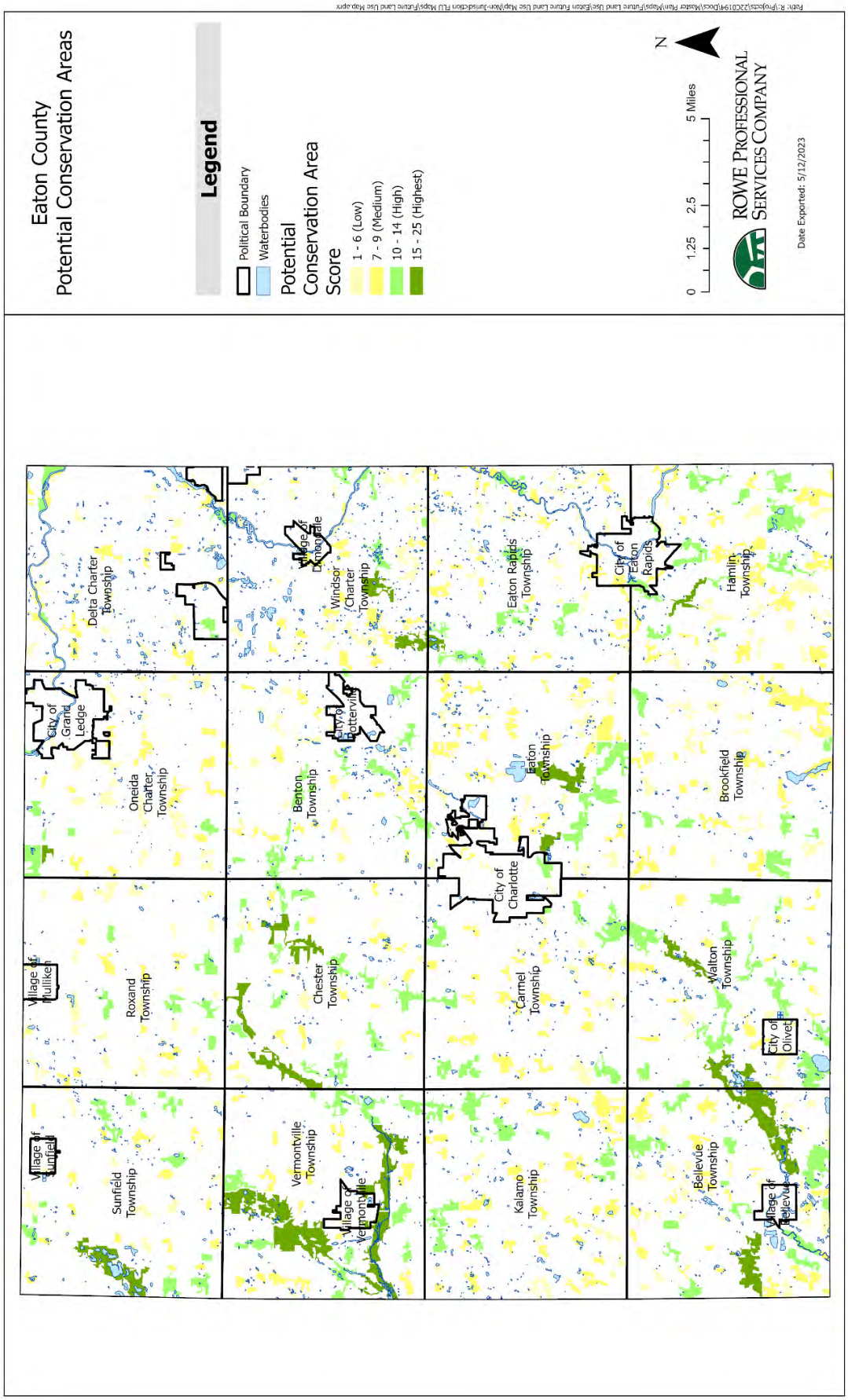


Figure 6-10: *Potential Conservation Areas*

CHAPTER 7

PARKS AND RECREATION

Chapter 7 | Parks and Recreation

In 2021, Eaton County adopted a five-year Parks and Recreation Plan. The county adopted previous parks and recreation plans in 2016 and 2009. The five-year Parks and Recreation Plan is a tool to help guide recreation planning throughout the county created in line with the Michigan Department of Natural Resources standards to be eligible for grant funding from the Michigan Natural Resources Trust Fund and other sources.

Administration

The county-owned parks and recreation areas are under the jurisdiction of the Parks Committee. The committee consists of seven members that are appointed by the Eaton County Board of Commissioners. The Director of Parks and Recreation acts as a liaison between the Parks Committee and Parks staff. There are several seasonal staff, volunteers, and community service workers that aid in the parks' maintenance duties. In 2021, the county adopted a 5-Year Parks and Recreation Plan that depicts the existing parks and recreation owned by the county as well as identifying goals, objectives, and action items to promote connectivity, extend preservation of land, increase maintenance and operational functions, and increase public participation and programming.

On November 8, 2022, Eaton County residents voted to approve a parks millage of 50 mills, or 50 cents for every one thousand dollars of assessed property value. The millage will address short-term and long-term operational needs related to maintenance and improvements to existing parks, implement capital improvements from the 2021 Parks and Recreation Plan, and will aid in funding improvements to the parks and recreation facilities not owned by the county.

County Parks

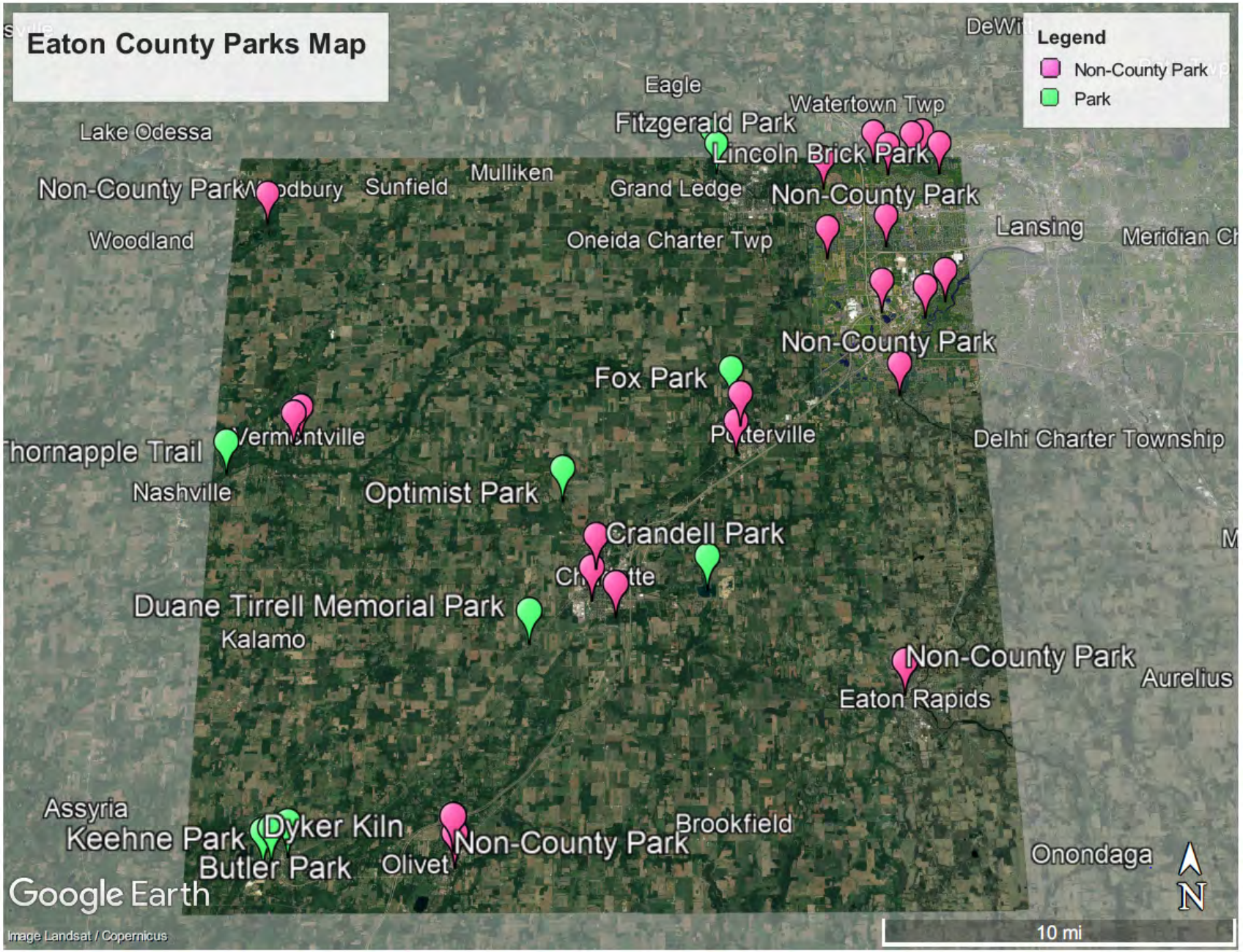
A recreation inventory was conducted in 2020, which consisted of recording infrastructure in the existing parks and gauging infrastructure updates and needs. Table 7-1 depicts the park name, general description, size in acres, the location of the park and amenities available. Map 7-1 depicts the locations of the county-owned parks and recreation areas.

Table 7-1: County-Owned Parks and Recreation

Park Name	Park Description	Size	Community Located in	Amenities
Fitzgerald Park	The park is owned by the City of Grand Ledge and leased by the Eaton County Parks and Recreation Commission to serve as the Eaton County Parks administrative offices.	78 acres	City of Grand Ledge	Picnic shelters, playground equipment, ball fields, basketball courts, sand volleyball courts, horseshoe pits, 18-hole disc golf course, portage, boardwalk, trails, and a nature center
Lincoln Brick Park	The park contains nature trails for hiking and cross-country skiing. The park includes woodlands and natural areas for passive recreation. The park has 6,000 feet of river frontage.	90 acres	Oneida Township	Picnic shelters, playground equipment, interpretive center, museum, and trails

Table 7-1: County-Owned Parks and Recreation				
Park Name	**Park Description**	**Size**	**Community Located in**	**Amenities**
Fox Memorial Park	The park was donated by Paul Fox in the late 1970s. Fox Memorial Park is located along a small kidney-shaped lake.	160 acres	Benton Township	Picnic shelters, playground equipment, swimming beach, fishing and viewing docks, observatory, and trails
Duane Tirrell Roadside Park	A roadside park located between Bellevue and Charlotte.	0.5 acres	City of Charlotte	Artesian well, picnic table, and benches
Butler Park Public Access	Public boating access to Battle Creek River.	0.5 acres	Village of Bellevue	Boat ramp and picnic tables
Dyer Kiln Historic Site	A historic park located in Bellevue that is home to one of the first limestone kilns in the county.	0.5 acres	Bellevue Township	Historic kiln and picnic tables
Keehne Environmental Area	A nature study area built on an abandoned limestone quarry.	17 acres	Bellevue Township	Picnic shelter, boardwalk system, and trails
Optimist Youth Camp	The camp operates and maintains the county-owned park in cooperation with the Eaton County Parks and Recreation Commission. The camp provides a designated area for youth groups to retreat for overnight camping.	20 acres	Chester Township	Tent camping sites, bunkhouse, picnic shelters, and trails
Crandell Park	A largely undeveloped park that was acquired through a grant funded by MDNR. The area holds a 160-acre lake.	432 acres	Eaton Township	Swimming beach
Paul Henry Thornapple Trail	Greenway trail that runs from Vermontville to Nashville.	2.56 miles	Vermontville Township	Walking/hiking trail

Map 7-1: *County-Owned Parks and Recreation*



Local Parks

The recently passed county parks millage will assist local units of government by providing some funding of park related improvements within locally owned and operated parks. Table 7-2 can also be found in Chapter 3 Recreation Inventory in the 2021 5-Year Parks and Recreation Plan.

Table 7-2: Local Parks Inventory		
Facilities	**Acres**	**Amenities**
City of Lansing (part of Eaton County)		
Fulton Park	58	River frontage, boat launch, natural area, nature trails and fishing
Woodcreek Park	4	Two tennis courts, soccer field, and a playground
Delta Township		
Anderson Park	151	Undeveloped with access to Grand River
Delta Mills Park	32	Picnic shelter, play areas, softball field, soccer field, basketball court, tennis court, volleyball court, horseshoe pits, river access, canoe launch, and fishing
Erickson Park	17	Concession building, picnic area, softball field, and a playground
Grand Woods Park	128	Picnic area and shelter, playgrounds, a softball field, disk golf course, volleyball court, horseshoe pits, hiking trails, river access, canoe launch, and fishing
Hawk Meadow Park	148	Hiking trails
Hunter's Orchard Park	26	Picnic area, natural area and trails, river access, and fishing
Lake Delta	65	Picnic area and fishing
Lake Iris	2.9	Open space with a trail to Michigan Avenue and a pond
Leland Park	1	Parking areas, picnic area, and play areas
Lootens Park	84	Undeveloped natural area
Mount Hope Park	120	Baseball fields, concession building, restrooms, soccer fields, play equipment, parking, and paved trails
Player's Club Park	80	Parking area, natural areas, and hiking trails
Sharp Park	58	Parking area, concession stand, picnic shelter and area, playgrounds, a softball field, basketball court, tennis court, volleyball court, hiking trails, horseshoe pits, and fishing
West Willow Canoe Launch	5.9	Barrier-free canoe launch and parking area
City of Grand Ledge		
Colonial Park	Approx. 1	Open space
Elaine Dible Memorial Park	Approx. 1	Open space
Fitzgerald Field	3	Baseball field and a field house housing concession area, restrooms, a small park office, and a warming room. The field becomes an ice rink during winter.
Island Park	2	Gazebo, benches, and boat dock
Jaycees Park	5	Volleyball courts, picnic tables, a pavilion, public boat launch and parking, a play structure and playground equipment, and a splash pad
Oak Park	5.58	Picnic area, famous sandstone ledges for recreational climbing, instruction, and rescue training
Village of Sunfield		
Sunfield Village or Van Buren Park	5	Baseball field with concession stand, a picnic shelter, four horseshoe pits, a play structure, and playground equipment

Table 7-2: Local Parks Inventory		
Facilities	**Acres**	**Amenities**
Village Sledding Hill	Approx. 0.5	Includes the old well house
City of Potterville		
Alliance Lake Park	66	Concession building, picnic areas, playgrounds, four lighted softball fields, one baseball field, stocked lake for fishing, beach volleyball court, hiking/biking trails and disc golf course. Overnight camping is also offered.
Potterville City Park	4	A basketball court, a baseball field, restroom facilities, a picnic area and shelter, three horseshoe pits, and playground
Veterans Memorial Park	0.5	Includes a picnic area
Sunset Hills Park	14	Located within Sunset Hill Subdivision and is currently undeveloped
City of Eaton Rapids		
Biggs Park	0.5	Picnic area and playground equipment
Hall Street Park	Approx. 1	Picnic area and horseshoe pits
Howe Memorial Field	30	Five ball fields, two picnic pavilions, two sand volleyball courts, skate ramps, basketball hoops, concession stand, restrooms, community playground, and footbridge
G.A.R. Island Park	2	Footbridges, gazebo for concerts, picnic area, and playground equipment; includes a historical marker and veteran's and fireman's memorial
J.B. Bradley Park	0.3	Small, landscaped area with picnic area and playground equipment
McArthur River Park	1	Accessible boat launch, picnic area, and playground equipment
Memorial Park	0.25	Shuffleboard court with a landscaped area
Scott Munn Riverwalk	N/A	1,050 feet of accessible walk with fishing pier and picnic area
Eaton Rapids Township		
Oak Ridge Park	34.6	Instructional amphitheater and nature trails
Dog Park	0.5	Fenced in dog play area
City of Charlotte		
Bennett Park	117	Two picnic shelters, three playgrounds, a restroom building, six horseshoe pits, hiking, and nature trails
Camp Frances	N/A	A cabin with restrooms, kitchen, and fireplace
Dean Park	3	Grills, benches, memorial stone, a basketball court, play structure, and playground equipment
Gateway Memorial Park	0.2	Landscaped area with a city welcome sign
Lincoln Park	19	Includes a parking area, a multi-use BMX track, open play areas, trails, and a concrete skate park
Oak Park	2	A gazebo, benches, grills, a fountain, skate park, walkways, play structures and playground equipment
Snell Park	0.3	Landscaped area with a city welcome sign
Southridge Park	0.3	Basketball court, gills, benches, and playground equipment
Veterans Memorial Park	N/A	Contains large stone markers and plantings
County Fairgrounds	42	Four softball fields, a football field, running track, grandstand, four tennis courts, exhibits barns, horse stables, racetrack, and miscellaneous structures

Table 7-2: Local Parks Inventory		
Facilities	**Acres**	**Amenities**
Village of Bellevue		
Jefferson Park	2	Village water tower, basketball courts, and a skate park
Washington Park	1	Large picnic pavilion with tables, a playground and play equipment, and several memorials honoring past residents
City of Olivet		
Rotary Park	2	Located within the city
Hamlin Township		
Township Park No. 1	4	Canoe launch, fishing, and picnic area
Township Park No. 2	21	Undeveloped, however, intended to include a picnic pavilion and area, softball, and baseball field
Village of Dimondale		
Lions Community Park	6	Large pavilion, three picnic shelters, grills, restroom facilities, a natural fishing site, horseshoe pits, and a playground
Danford Island Park	8	Canoe launch and fishing pier, picnic tables, and benches

Major Assets in County

There are many assets in the county related to parks and recreation. **The three major assets identified by the Parks and Recreation Stakeholder group and the Director of Parks and Recreation include:**

- The use of the updated 5-Year Parks and Recreation in correlation with the recently passed parks millage,
- The existing partnerships in parks and recreation, and
- The existing programs and events and potential for expansion.

Five-Year Plan and Millage

The recently passed parks millage and the 2021 5-Year Parks and Recreation Plan are extremely important assets to the development of county-owned parks as well as locally-owned parks. The Parks and Recreation Plan sets out the existing inventory, goals, and objectives of county-owned, locally-owned, and school-related parks and recreation within the county. The plan is a guide for how to spend future funding that is collected via the parks millage. The plan also prioritizes action items which include organizational, staffing, programming, public information, and operation and maintenance actions. These prioritized actions will help identify key areas of need for maintenance, reconstruction, or other operational needs. The combination of the parks millage with the parks and recreation plan will help identify key areas that need critical funding and set a course of action for improvement of the existing character of the parks and recreation within the county.

Partnerships

The second asset is the existing symbiotic partnerships between the county and local and regional organizations. Eaton County has many existing partners related to parks and recreation such as:

- Barry Eaton District Health Department,
- Capital Area Health Alliance,
- Michigan Department of Natural Resources (MDNR),
- Eaton Conservation District,
- Fox Park Observatory,
- Friends of Eaton County Parks,
- Grand Ledge District Library,

- Michigan Recreation & Parks Association (mParks),
- Middle Grand River Organization of Watersheds (MGROW),
- Boy Scouts of America Troup 645,
- Mid-Michigan Mountain Biking Association and others.

These organizations help fundraise as well as support parks, for example:

- The Mid-Michigan Mountain Biking Association volunteers to help maintain the existing parks and trails within the county.
- The Friends of Eaton County Parks advocate for awareness, use, enhancement, and preservation of the County Parks.
- The Thornapple Trail Association help monitor, maintain, and promote the Paul Henry Trail.

The Parks and Recreation staff coordinate with local schools for student programming, some include:

- The County Naturalist to conduct on-site school visits as well as providing the Parks staff recreation trailer for school sponsored events.
- The county also partners with the Grand Ledge Chapter of the National Honor Society for student volunteer hours.

Programs and Expansion

The third asset is the existing programming and events held within the parks system as well as the potential for expanding these services. There are several seasonal staff that support the programs offered at various parks.

The Summer Adventure Program is one example of the seasonal programming for youth within and outside of the county that includes leadership programs, camping, and educational aspects related to flora and fauna of Michigan.

An annual car and craft show is hosted at Fitzgerald Park, where participants can view classic cars, craft booths, participate in raffle contests and concessions are provided. Also at Fitzgerald Park, the **Timber Trails 5K Run/Walk** is hosted annually. The trail goes through changing elevation, gravel roads, and wooded trails and is open to all ages.

Other programing includes the local Boys Scout Troup 645 use park space for events and supply labor for a variety of Eagle Scout Projects.

The existing programming and events are tailored toward the summer months, with expansion of these programs and events the county could create year-round attractions to increase visitation to the parks within the winter months as well as the summer months. During stakeholder engagement as part of the master plan, as well as through other Parks planning activities, there is clear demand for more recreational and educational programming within county and local parks systems.

School and College Recreation Opportunities

Eaton County has over 1,170 acres of land in the school districts that include playgrounds and athletic facilities. There are both public and private schools who partner with Eaton County to provide programming to the general public. One challenge to using school facilities is the limited access due to school-sponsored events and extracurricular activities. Table 73 depicts the existing facilities located in the county and can also be found in Chapter 3 Recreation Inventory in the 2021 5-Year Parks and Recreation Plan.

Table 7-3: Public School Recreational Facilities														
School	Softball	Baseball	Soccer	Tennis	Football	Basketball	Gymnasium	Auditorium	Multipur-pose field/	Playground	Pool	Volleyball	Track	Lacrosse
Lakewood High School	4	3	1	6	1	4	1	1						
Lakewood Middle School	2					4	1		1					
Sunfield Elementary School	2	2	2			4	1			1				
Grand Ledge CW Neff Elementary						1	1			1				
Delta Center Elementary						1	1			1				
Grand Ledge High School	2	1	1	8	2		2				1			
Greenwood Elementary School	1					1	1			1				
Kenneth T. Beagle Middle	3	1	1	4		1	1					1	1	
Leon W. Hayes Middle School		2	2				1			1				
Sawdon Administration Building						1								
T.C. Holbrook Elementary						1	1			1				
Wacousta Elementary School						1	1			1				
Willow Ridge Elementary						1	1			1				
Oneida Township School District #3		1								1				
Waverly Colt Elementary	1								1	3				
Waverly Elmwood Elementary	1		1			1				2				
Waverly Middle & High School		1	5	10	1		2						1	4
Winans Elementary School										3				
Holt Dimondale Elementary	3					2				2				
Potterville Public Schools		3	1	4	1					1			1	
Eaton Rapids Middle & Hight	2	1	3	8	1	1	3	1			1		1	

Table 7-3: Public School Recreational Facilities														
School	Softball	Baseball	Soccer	Tennis	Football	Basketball	Gymnasium	Auditorium	Multipur-pose field/	Playground	Pool	Volleyball	Track	Lacrosse
Lockwood Elementary School	1	1				1	1		2	1		1		
Northwestern Elementary	1	1				1	1			1				
Union Street Elementary			1			1	1		1	1				
Charlotte Middle School	1	1	3			6	3				2			
Charlotte High School	3	1			2		1	1					1	
Froebel School						2				1				
Galewood Elementary School		1	1			2	1			1				
Leora Weymough School	1		1			2				1				
Parkview Elementary School	1	1	5			1	1			1				
Washington Elementary School				2			1		1	1				
Maple Valley Jr/Sr High School	2	1	2	3	1		1			1				
Maplewood Elementary School	1													
Bellevue Community Schools	4	1					3		1	3				
Olivet Fern Persons Elementary			1			1				1				
Olivet Middle & high Schools	2	2	1	4			1							
Olivet College	1	1	1	2	1		1							
Great Lakes Bible College			1				1							
Lansing Community College	1	1	2											
Total Facilities	**40**	**27**	**36**	**51**	**10**	**41**	**33**	**3**	**7**	**33**	**4**	**2**	**5**	**4**

2021-2025 Parks and Recreation Plan Goals

Chapter 5, Implementation of the 2021 5-Year Parks and Recreation Plan states eight goals with respective objectives and action items to each goal. Goals 4, 5, and 7 from the plan relate to the feedback from the Parks and Recreation Stakeholder group discussion. These goals are provided in the Master Plan as a reference to the Parks and Recreation Plan, but are not part of the Master Plan goals and objectives.

Goal 1: Infrastructure Improvements

- Provide high quality, safe, clean, accessible, and attractive park areas and facilities throughout the County.

Goal 2: Fiscal Responsibility

- Plan for future growth with programming and capital improvements while maintaining fiscal responsibility.

Goal 3: Public Awareness

- Enhance public awareness about the Parks and Recreation Department through a variety of communication efforts.

Goal 4: Partnerships and Collaboration

- Partner and collaborate with groups and organizations throughout the County to provide parks and recreation opportunities.

Goal 5: Connectivity

- Establish a trail system that connects recreational facilities and amenities throughout the County by land and by water.

Goal 6: Recreational and Interpretive Programming

- Provide a variety of recreation and interpretive/naturalist programs through excellent customer service and operational excellence.

Goal 7: Maintenance and Operations

- Provide facilities that are functional and well maintained throughout the County park system.

Goal 8: Preservation and Conservation

- Expand the County parks and recreation system through preservation and conservation.

Connection between Parks Plan and Master Plan

The master plan is a guiding document to plan for the future of the entire county, while the 5-Year Parks and Recreation Plan is a guiding document for only parks and recreation opportunities in the county explaining how to manage, expand, and continue the use of the various parks and recreational opportunities.

On January 3, 2023, stakeholders from different organizations and the county related to parks and recreation met to discuss strengths, weaknesses, and other topics facing the county's parks and trails. Goals from the Parks and Recreation Plan that have a particular relevance to this plan include:

- Goal 4 in the Parks and Recreation Plan is related to partnerships and collaboration with groups and organizations within the county to provide parks and recreation opportunities. Other stakeholder groups identified that the county has existing strong connections with various organizations within

  Eaton County. Continuing this goal of communication and collaboration will be a major asset to the county and its ability to run and grow the existing parks and trail systems. This is reflected in the Intergovernmental Cooperation Chapter.

- Goal 5 is related to connectivity, specifically establishing a trail system that connects recreational facilities and amenities throughout the county by land and water. The Parks and Recreation Stakeholder Group identified difficulties of establishing one large trail system throughout the county. Stakeholders identified that the county was missing out on key points during MDNR reviews for grant funding due to a lack of connectivity of the existing trails. The Director of Parks and Recreation stated that in recent years, especially since the COVID-19 Pandemic, there has been an increase in walking, hiking, and biking of the existing trails and parks in the county. For example, in Fox Park, the county expanded trails due to the increase in activity on the existing trails. The County Planning Commission and Community Development Department can act as facilitators and support implementation of this goal.

CHAPTER 8

TRANSPORTATION

Chapter 8 | Transportation

Improvements to the transportation system are among the most complex and expensive of public works projects undertaken by government. In order to make wise use of scarce public resources, it is critical to carefully plan future improvements to the County's transportation system that not only serve the public efficiently but are not cost prohibitive.

For that reason, as part of the update to Eaton County's Master Plan, the following section provides a revised plan for the transportation system in the County. The transportation element of this master plan serves a variety of purposes, **including:**

- Serving as a reference guide regarding the transportation system within the County;
- Setting a vision for future motorized and non-motorized improvements transportation improvements;
- Promoting a better understanding of the strong relationship between transportation and land development patterns and how planning can be better integrated; and Identifying opportunities for change, including: access management techniques, traffic calming, and creating corridor improvement authorities.

Planning Process

For the purposes of this plan, no detailed, technical analyses were performed regarding existing traffic operations or transit service within the County. Information regarding roadway and transit system deficiencies and improvements was obtained from the Tri-County Regional Planning Commission's Metropolitan Transportation Plan, the Capital Area Transportation Authority, Eaton County Transportation Authority, and the Eaton County Road Commission (ECRC).

Roadway Network

Eaton County enjoys a rural, small-town lifestyle in close proximity to local urban centers such as Lansing, Battle Creek, and Grand Rapids. The major north-south route, I-69, crosses the county and provides access to Lake Michigan ports and Canadian markets. East-west traffic corridors include I-96 and I-496.

Roadway Classification and Responsibility

Roadway classifications are often confusing because planning agencies use the classifications for different purposes. Administrative jurisdictions identify roads in terms of governmental responsibility for construction and maintenance. Roadway classifications are also used to determine eligibility for state funding and federal aid.

Functional classifications are used to group streets and highways into classes, or systems, according to the character of traffic service they are intended to provide.

Administrative Jurisdiction

Act 51 of the Public Acts of 1951, as amended, creates the Michigan Transportation Fund (MTF) into which specific transportation taxes are deposited, sets priorities for the use of transportation revenues, and charges county road commissions with the responsibility of classifying county primary and local roads. The classifications developed by the county road commissions are subject to Michigan Department of Transportation (MDOT) approval. Roads designated as primary roads must be of "the greatest importance". This determination is based on traffic volumes, primary generators of traffic served and other factors. The Michigan Department of Transportation (MDOT), the Eaton County Road Commission (ECRC) and local units of government maintain responsibility for the roads within Eaton County.

National Functional Classification

Figure 8-1 below, proposes the hierarchy of transportation routes based upon the National Functional Classification (NFC) System. NFC is a planning tool which has been used by federal, state and local transportation agencies since the late 1960's. Functional classifications are used to group streets and highways into classes, or systems, according to the character of traffic service they are intended to provide.

The NFC designation also determines whether a road is eligible for federal funds, either as part of the National Highway System (usually limited to principal arterials) or through the Surface Transportation Program. Federal-aid roads are, collectively: all principal arterials, all minor arterials, all urban collectors and all rural major collectors. (Source: MDOT)

Interstates

Interstates are the highest classification of Arterials and were designed and constructed with mobility and long-distance travel in mind. Roadways in this functional classification category are officially designated as Interstates by the Secretary of Transportation, and all routes that comprise the Dwight D. Eisenhower National System of Interstate and Defense Highways belong to the Interstate functional classification category and are considered Principal Arterials.

Principal Arterials

These roadways serve major centers of metropolitan areas, provide a high degree of mobility and can also provide mobility through rural areas. Unlike their access-controlled counterparts, abutting land uses can be served directly. Forms of access for Other Principal Arterial roadways include driveways to specific parcels and at-grade intersections with other roadways.

Minor Arterials

Minor Arterials provide service for trips of moderate length, serve geographic areas that are smaller than their higher Arterial counterparts and offer connectivity to the higher Arterial system. In an urban context, they interconnect and augment the higher Arterial system, provide intra-community continuity and may carry local bus routes.

Major & Minor Collectors

Collectors serve a critical role in the roadway network by gathering traffic from Local Roads and funneling them to the Arterial network. Within the context of functional classification, Collectors are broken down into two categories: Major Collectors and Minor Collectors. Until recently, this division was considered only in the rural environment. Currently, all Collectors, regardless of whether they are within a rural area or an urban area, may be sub-stratified into major and minor categories. The determination of whether a given Collector is a Major or a Minor Collector is frequently one of the biggest challenges in functionally classifying a roadway network.

Local Roads

Locally classified roads account for the largest percentage of all roadways in terms of mileage. They are not intended for use in long distance travel, except at the origin or destination end of the trip, due to their provision of direct access to abutting land. Bus routes generally do not run on Local Roads. They are often designed to discourage through traffic. As public roads, they should be accessible for public use throughout the year.

Private Roads

Private roads are found in every township within Eaton County. They are found primarily adjacent to the I-69 corridor. However, Delta, Eaton Rapids and Hamlin Townships also have a considerable number within their limits. Eaton County regulates private roads by ordinance for the Townships within the county's zoning jurisdiction.

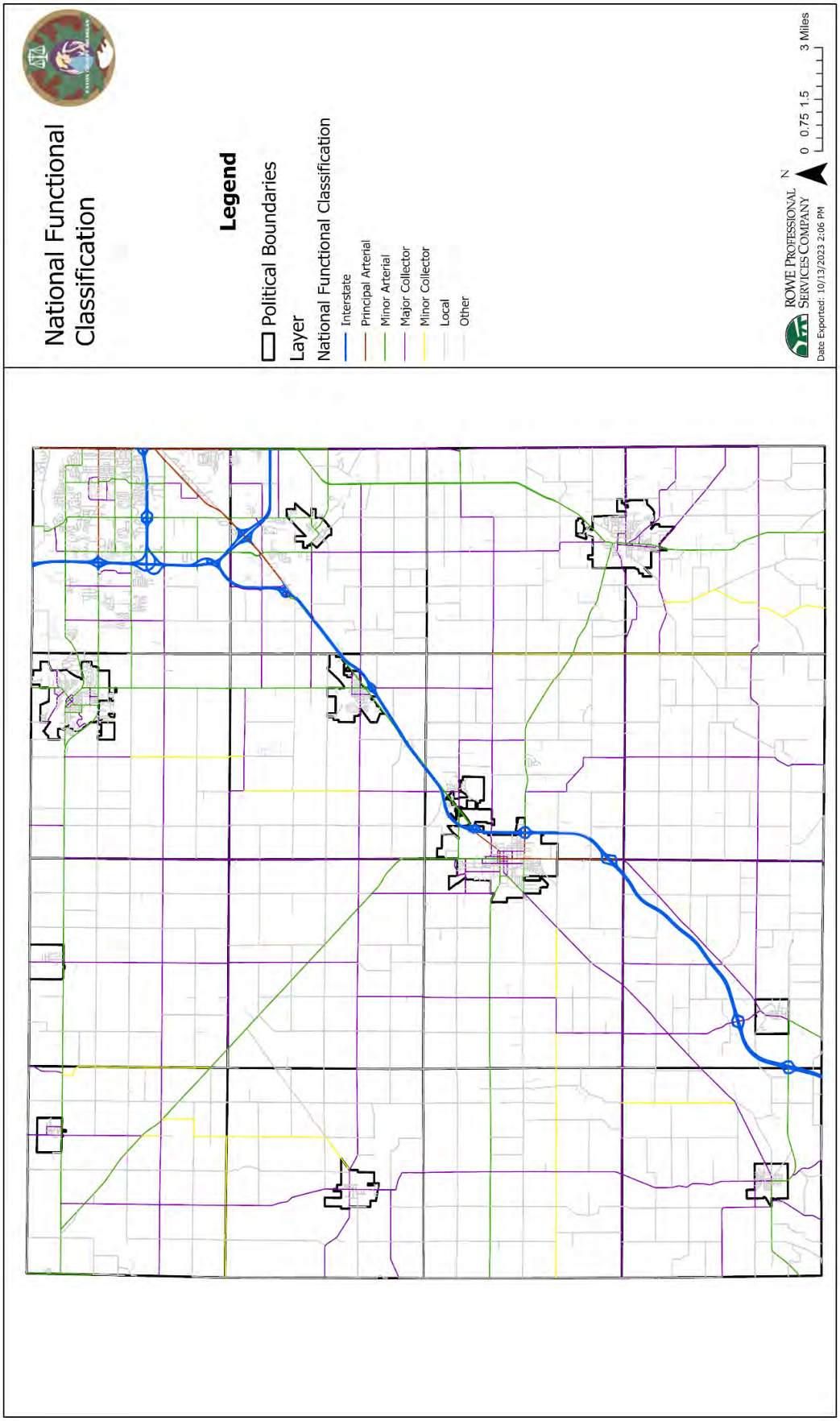


Figure 8-1: *National Functional Classification*

Status of Roadways

Based on data from the Eaton County Road Commission (ECRC), the status of road mileage within Eaton County Townships was as follows as of January 1, 2023:

TOWNSHIP	PRIMARY ROADS		TOTAL MILES PRIMARY	LOCAL ROADS		PLATTED STREETS		TOTAL MILES LOCAL	TOTAL MILES IN TWP	TOTAL MILES PAVED	TOTAL PERCENT PAVED	TOTAL MILES GRAVEL
	PAVED	GRAVEL		PAVED	GRAVEL	PAVED	GRAVEL					
Bellevue	18.40	-	18.40	3.55	44.89	0.23	-	48.67	67.07	22.18	33.07%	44.89
Benton	28.13	-	28.13	7.02	26.60	-	-	33.62	61.75	35.15	56.92%	26.60
Brookfield	18.33	-	18.33	9.19	44.78	-	-	53.97	72.30	27.52	38.06%	44.78
Carmel	23.36	-	23.36	8.05	33.87	0.33	-	42.25	65.61	31.74	48.38%	33.87
Chester	13.70	-	13.70	4.52	43.97	-	0.13	48.62	62.32	18.22	29.24%	44.10
Delta	55.85	-	55.85	6.63	6.94	98.57	0.93	113.07	168.92	161.05	95.34%	7.87
Eaton	25.99	-	25.99	19.22	18.54	4.22	-	41.98	67.97	49.43	72.72%	18.54
Eaton Rapids	24.09	-	24.09	7.59	35.70	-	-	43.29	67.38	31.68	47.02%	35.70
Hamlin	26.30	-	26.30	13.00	31.72	-	0.10	44.82	71.12	39.30	55.26%	31.82
Kalamo	18.30	-	18.30	8.28	39.08	0.26	-	47.62	65.92	26.84	40.72%	39.08
Oneida	23.51	-	23.51	16.01	14.55	9.60	0.19	40.35	63.86	49.12	76.92%	14.74
Roxand	20.72	-	20.72	10.07	34.52	-	-	44.59	65.31	30.79	47.14%	34.52
Sunfield	22.80	-	22.80	12.95	23.74	0.72	-	37.41	60.21	36.47	60.57%	23.74
Vermontville	17.51	-	17.51	3.56	38.57	-	-	42.13	59.64	21.07	35.33%	38.57
Walton	23.09	-	23.09	11.82	35.61	-	-	47.43	70.52	34.91	49.50%	35.61
Windsor	31.54	-	31.54	14.82	27.17	10.81	0.30	53.10	84.64	57.17	67.54%	27.47
TOTAL	391.62	-	391.62	156.28	500.25	124.74	1.65	782.92	1,174.54	672.64	57.27%	501.90

Figure 8-2: *Road Mileage*

Rights-of-Ways

The Eaton County Road Commission (ECRC) is responsible for over 1,150 miles of county roads. The ECRC maintains right-of-way plans for the incorporated and unincorporated areas within the county. The right-of-way plans consist of a map that indicates the existing or desired right-of-way widths for county roads. The right-of-way plan is an important planning document because setbacks and other development standards should be established in relationship to the existing and/or future right-of-way width.

Roadway Deficiencies

The Tri-County Regional Planning Commission, as part of the Tri-County Travel Demand Model Update, utilized a sophisticated model to identify year 2015 and future year (2040) capacity deficiencies for roadway links within the County. Roadway facilities were identified as deficient or near deficient based on a traffic volume to capacity (V/C) ratio.

A V/C ratio gives an indication whether a roadway link has sufficient capacity to handle the traffic assigned to it. If a link had a V/C ratio 1.0 or greater, it is considered deficient. A V/C ratio less than 1.0 indicates that capacity has not yet been reached. For the year 2015, no deficient links were identified within Eaton County. However, the following locations were identified as “near” deficient. Near deficient roads require monitoring and preventative treatments to assure changes in development will not cause them to become deficient.

Near Deficient

- Lansing Rd. (Potterville Main St to I-69 Exit 70)

- Vermontville Hwy (Folk to Hartel) (AM Peak Hour Only)

The Travel Demand Model projects that by the year 2040, the same road segments will nearly exceed capacity, however the Vermontville Hwy segment is expected to exceed capacity during the PM Peak Hour as well as the AM Peak Hour by 2040. The model assumes a “wise growth” land use scenario and is based on projected 2040 population, employment and other data. The following locations are considered near deficient by 2040:

Pavement Conditions

As required by Public Act 499 of 2002, the State Asset Management Council surveys and reports on the condition of roads and bridges by functional classification categories for State and Regional Planning areas. Map 13 indicates the State Asset Management Council Pavement Condition Data using PASER rankings (PR) for 2022 for Eaton County. Note, PASER ratings between 1 and 4 are considered poor to fair, 5-7 are fair to good, and 8-10 are good to excellent.

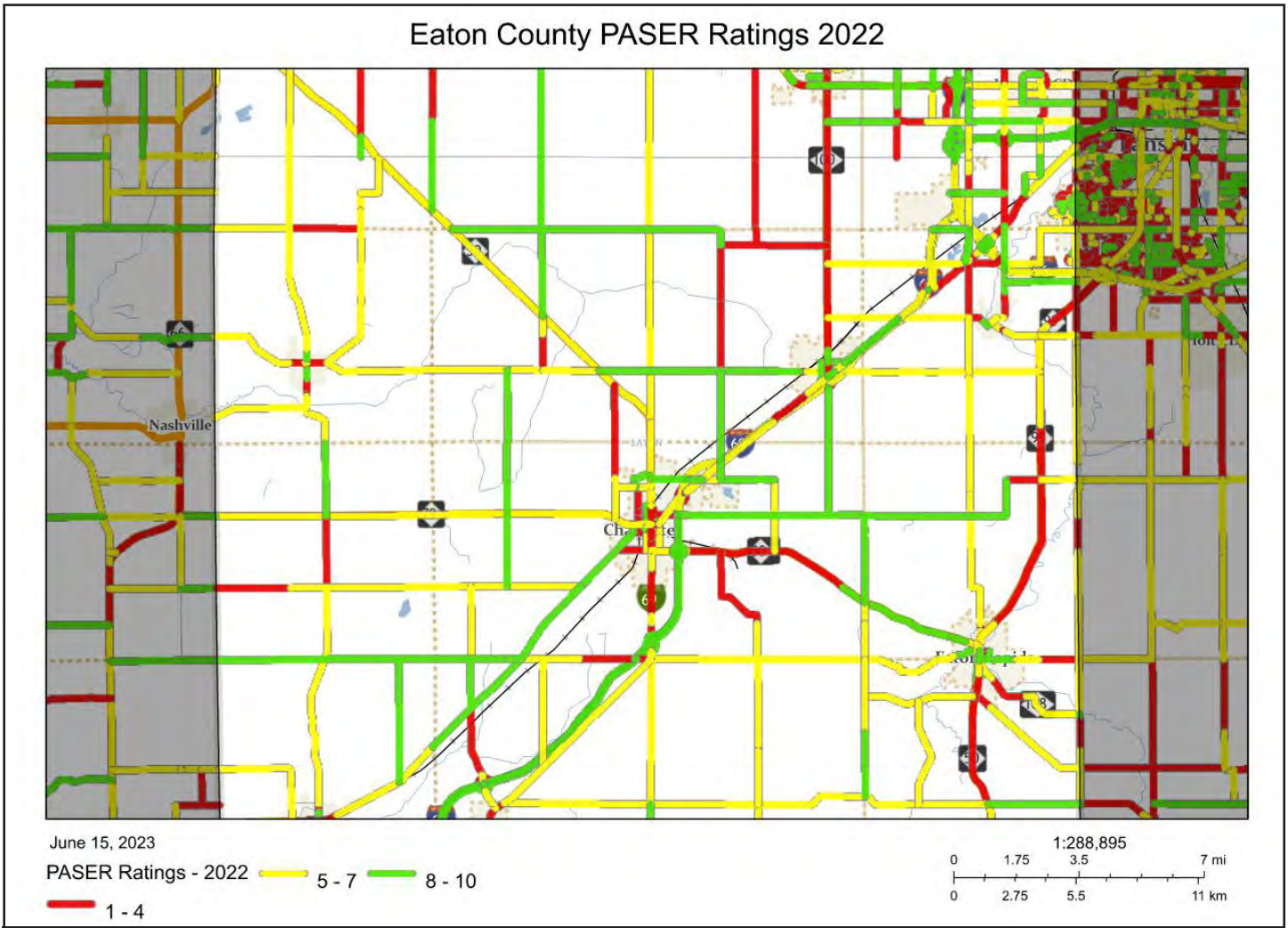


Figure 8-3: *PASER Ratings*

Proposed Improvements

The following roadway improvements found in Table 16 below and on the following page, are planned for Eaton County through 2026 to address capacity, roadway function or condition and have received federal approval. The current Transportation Improvement Program (TIP) is always available on the Tri-County Regional Planning Commission’s website.

Figure 8-4: *TIP Projects in Eaton County*

Agency	Construction Length	Route Name	Location	Year	Work Description
City of Charlotte	0.55	Hall St	McClure, Washington, Hall - Lansing Rd (BL69) to Cochran (M-50)	2023	Reconstruction
City of Eaton Rapids	0.26	W Knight St	Main St to East St	2025	Reconstruction
City of Grand Ledge	0.5	Green St Reconstruction	W Jefferson St to W Kent St	2023	Reconstruction
Eaton County Road Commission	1.005	Nixon Rd	Mt. Hope Hwy to St. Joe Hwy	2023	Nonmotorized
Eaton County Road Commission	1	Nixon Rd	Mt. Hope Hwy to St. Joe Hwy	2023	Road Rehabilitation
Eaton County Road Commission	2	Oneida Rd	St. Joe Hwy to M-43	2023	Road Rehabilitation
Eaton County Road Commission	0.52	E Five Point Hwy	Whittum Rd to Eaton Rapids City Limits	2023	Road Rehabilitation
EATRAN	0	Transit Capital	Areawide	2023	1110-Bus Rolling Stock
EATRAN	0	Transit Operating	Areawide	2023	3000-Operating Assistance
MDOT	0	I-69 BL	Over Battle Creek River	2023	Bridge Replacement
MDOT	0	I-96	I-96 EB & WB Over Billwood Highway, Grand River & Creyts over I-96	2023	Bridge Replacement
EATRAN	0	Transit Operating	Areawide	2024	6000-Oth Prog Cots
Eaton County Road Commission	1	W Five Point Hwy	Maurer Rd to Matthews Rd	2025	Road Rehabilitation
Eaton County Road Commission	2.08	Holt Hwy	Dimondale VL to Waverly Rd	2026	Road Rehabilitation
Eaton County Road Commission	1.08	Mall-Ivan-Elmwood Connector Pathway	Mall Street, Ivan Street, Elmwood Street Saginaw Hwy (M-43) to Michigan Ave	2025	Non-Motorized
MDOT	1.22	M-78	550' south of Sharkey Street to the Battle Creek River	2026	Reconstruction
Potterville	0.92	W Main St	Nelson to Lansing Rd; Vermontville - CL to RR ROW	2025	Road Rehabilitation
Dimondale	0.73	Creyts Rd	East Rd North to Village Limits	2026	Road Rehabilitation
Eaton County Road Commission	1.09	Billwood Hwy	Canal Rd to Creyts Rd	2026	Road Rehabilitation
Eaton County Road Commission	1	W Five Point Hwy	Matthews Rd to Cochran Rd	2026	Road Rehabilitation
City of Chalotte	0.08	W Henry St	Charlotte, SRTS, Eaton County	2023	Nonmotorized
EATRAN	0	Transit Capital	Areawide	2023	1110-Bus Rolling Stock
EATRAN	0	Transit Capital	Areawide	2023	1110-Bus Rolling Stock
EATRAN	0	Transit Capital	Areawide	2023	1110-Bus Rolling Stock
MDOT	1.17	M-43	Broadbent to I-96	2024	Traffic Safety
MDOT	4.56	M-188	M-188 in Eaton County	2024	Traffic Safety
MDOT	0	TSC-wide	Various in Lansing TSC area	2024	Traffic Safety
Eaton County Road Commission	0	Smithville Rd	Over the Grand River	2024	Bridge Capital Preventative Maintenance
MDOT	1.17	M-43	Broadbent to I-96	2025	Traffic Safety
MDOT	4	Old 27 N	Lansing Rd (Old 27) from Creyts Rd to I-496 Ramps	2025	Road Capital Preventative Maintenance
MDOT	4	Old 27 N	Lansing Rd (Old 27) from Creyts Rd to I-496 Ramps	2025	Road Capital Preventative Maintenance
MDOT	1.59	M-100	Doane Hwy to Strange Hwy	2025	Minor Widening
MDOT	1.59	M-100	Doane Hwy to Strange Hwy	2025	Minor Widening
MDOT	0	TSC-wide	Various in Lansing TSC area	2025	Traffic Safety
Eaton County Road Commission	0	Bunker Hwy	Over the Grand River	2025	Bridge Capital Preventative Maintenance
Eaton County Road Commission	0	Countywide	Various Locations - Eaton County	2025	Bridge Capital Preventative Maintenance
Eaton County Road Commission	0	Countywide	Various Locations - Eaton County	2025	Bridge Capital Preventative Maintenance
Eaton County Road Commission	0	Countywide	Various Locations - Eaton County	2025	Bridge Capital Preventative Maintenance
Eaton County Road Commission	0	Webster Rd	Over the Grand River	2025	Bridge Rehabilitation
Eaton County Road Commission	4.11	W Bellevue Hwy	Marshall Rd to Matthews Rd	2025	Road Capital Preventative Maintenance
Eaton County Road Commission	2.16	S Cochran Rd	Bellevue Hwy to Nye Hwy	2025	Road Rehabilitation
MDOT	1.17	M-43	Broadbent to I-96	2026	Traffic Safety

Rail Lines

A number of active rail lines cross the county carrying cargo and passengers to various destinations. The rail lines of CSX-T connecting Detroit and Grand Rapids runs through the northern parts of the County, including Grand Ledge, Mulliken, and Sunfield. Rail lines for CN, a parent company of Grand Trunk Railroad Company, connect Port Huron, Detroit, Toledo and Chicago. In addition, AMTRAK operates one passenger train daily in each direction between Chicago and Port Huron, stopping at depots in East Lansing and Battle Creek.

Airports

Six (6) airports are located within or immediately adjacent to Eaton County. Capital City Airport, located in Clinton County is the closest airport offering commercial passenger service to Eaton County residents. The others listed provide general aviation service to the Eaton County Community. The presence of these airports provides a wide spectrum of value to the County from airline transportation, business applications, economic development activity, emergency use, fire and police applications, military staging and training, and general aviation and personal use.

In addition to regulations established by Eaton County, these State licensed airports are required to conform to standards adopted by both the State of Michigan Department of Aeronautics and the Federal Aviation Administration. These regulations and required documentation specifies the areas near airports where aircraft are permitted to fly departure and arrival patterns close to the ground in preparation for take off or landing in a safe and appropriate manner; where tall structures, towers trees, and other potential hazards are restricted; and where minimum building density is established for safety reasons and noise abatement purposes to minimize conflicts between airport users, and neighbors.

The six (6) airports located within Eaton County are as follows:

- Abrams: This publicly owned facility is located one mile north of the City of Grand Ledge. This facility has a specified National Guard area, and has extensive helicopter activity.
- Capital City: Nearest full service public airport located in Clinton County just outside the city limits of Lansing.
- Fitch Beach: Located just outside the northeast city limits of Charlotte, in close proximity of both I-69 and U.S. 27, this is a general utility municipal airport.
- Hiram Cure: A basic utility airport located in Sunfield Township at the intersection of Eaton Highway and Dow Rd. Skyway: A basic utility airport located four (4) miles north of Eaton Rapids and west of M-99.
- Wend Valley: Located west of the City of Charlotte off of Valley Highway, this is a basic utility airport.

Public Transportation

Both the Eaton County Transit System (EATRAN) and the Capital Area Transportation Authority (CATA) provide public transportation service in Eaton County. Descriptions of their existing services and service improvements needed to meet future demand for transit service are discussed below.

Eaton County Transit System (EATRAN)

Eaton County Transit System (EATRAN) is the public transportation provider for Eaton County and has been in operation since 1980. EATRAN operates a demand response service throughout the county. Under a cross boundary agreement with Capital Area Transportation Authority (CATA), EATRAN operates an express bus to downtown Lansing. Out-of-county medical trips are available on weekdays for senior citizens and persons with disabilities during limited hours. The majority of the trips are within Eaton County, but a significant number are outside of the County as well. The system currently operates from 6AM to 6PM Monday through Friday.

In 2021 EATRAN reported a total of 61,657 trips on the system. This was a slight decrease from the 75,520 trips reported in 2020. The COVD-19 pandemic drastically impacted transit ridership nationwide.

Capital Area Transportation Authority (CATA)

CATA provides several different types of public transportation services for residents of the greater Lansing urban area.

CATA operates 24 urban fixed routes, and nine 9 MSU routes. The majority of CATA fixed route service is in Lansing, East Lansing, Delhi, Lansing Township, and Meridian Township. Routes are also operated into Clinton and Eaton Counties to serve the Capital City Airport.

CATA offers several commuter services including free carpool and vanpool matching service to assist commuters traveling within the greater Lansing area. This is supported by an “Emergency Ride Home” program for all carpool and vanpool participants in case of emergencies.

CATA’s annual ridership nearly tripled between 1995 and 2007. It totaled 3.6 million in 1995, and exceeded 10.0 million in 2006. Increases in ridership are, in a large part, due to operation of the MSU service beginning in 1999. Incorporation of the MSU routes impacted ridership on routes that do not serve campus because of the new connections that resulted system wide.

In 2021 CATA reported a total of 3,030,644 trips on the system. This was a significant decrease from 2020 when over 7,000,000 trips were reported. The COVD-19 pandemic drastically impacted transit ridership nationwide.

Improvements to Existing Transit Service

EATRAN is undergoing a county-wide survey to identify demands and opportunities to enhance transit service in the county in 2023. The Transit Development Plan (May 2015), published by the Tri- County Planning Commission contains a thorough description of recommended service and other improvements to existing transit service in the tri-county region. With respect to Eaton County, the five-year implementation plan presented in the document recommends service-related improvements exclusively within Delta Township.

- Expand EATRAN service in Delta Township.
- Improve EATRAN demand response service around Waverly Road.
- Create EATRAN employment related service for the General Motors plant.

If a funding agreement between Delta Township and CATA were created, a package of service improvements could be implemented to connect to the largest destinations in Delta Township with the CATA fixed route network.

Non-Motorized Transportation

The purpose of a Non-Motorized Transportation Plan is to articulate a vision for non-motorized transportation throughout Eaton County. The plan would provide a vision for a non-motorized transportation network, a plan for nonmotorized facility development, and a clear direction of the implementation of nonmotorized facilities throughout the County.

A Non-Motorized Plan is intended to guide nonmotorized facility planning, design and construction for Eaton County. The plan is implementation oriented and utilizes community and stakeholder involvement and input. This type of plan is also intended to serve as a foundation for future grant applications and funding requests.

The Tri-County Regional Planning Commission (TCRPC) has a long history of non-motorized planning activities, dating from the 1980s. Since 1995, the Regional Transportation Plan has included maps, along with non-motorized goals and objectives, a series of policy statements, recommended actions and a description of future planning efforts. In recent years, a non-motorized task force has helped direct non-motorized planning activity

in the Tri-County Region and has played an important role in development of the Region's "2045 Metropolitan Transportation Plan". Additionally, the "Regional Trails Feasibility Plan" was completed in Summer 2023.

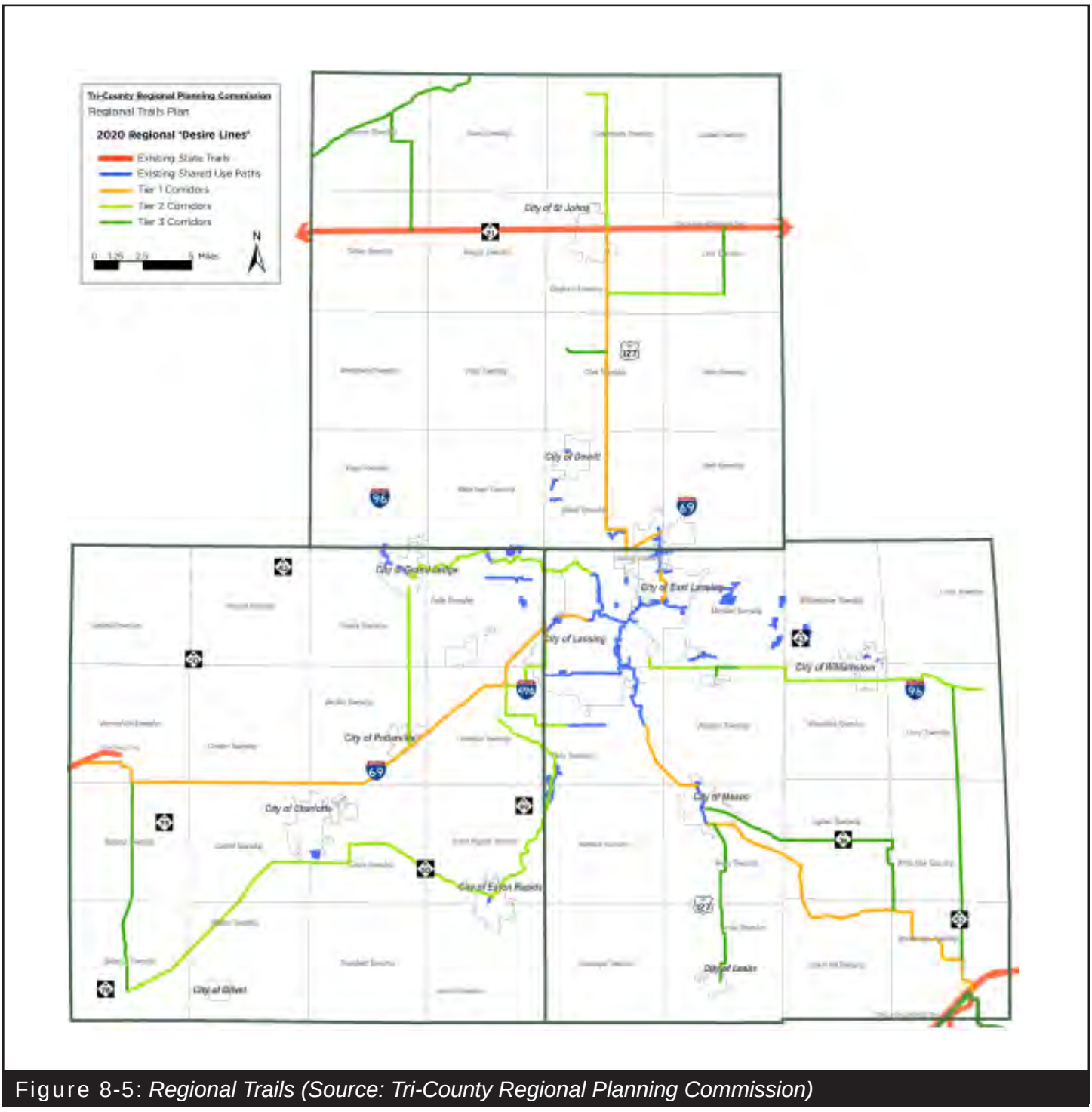


Figure 8-5: *Regional Trails (Source: Tri-County Regional Planning Commission)*

Opportunities for Change

This section highlights a number of ways that communities within Eaton County can influence the function and character of its roadways.

Access Management

Access management is the process or development of a program intended to ensure that the major arterials, intersections, and freeway systems serving a community or region will operate safely and efficiently while adequately meeting the access needs of the abutting land uses along the roadway (FHWA, ITE, 2004). Implementing access management techniques can help increase roadway capacity, manage congestion, and reduce crashes. Examples of less obvious benefits, in the case of businesses, include reduction in maintenance and other costs by utilizing shared driveways or eliminating entrance/exit points and increased road frontage and improved aesthetics as a result of eliminating driveways. In order for access management to be successful, cooperation between property owners, local land use authorities, and local, county and state transportation agencies is essential.

Traffic Calming

Traffic calming techniques use physical and visual cues to encourage drivers to travel at slower speeds. Traffic calming is intended to be self-enforcing, with the design of the roadway providing the desired effect. When implemented correctly, traffic calming has been shown to reduce traffic speeds, reduce the number and severity of crashes and reduce noise levels. Other benefits of traffic calming are less measurable and can include aspects such as improving community livability. There are numerous devices and techniques that communities have successfully used for “traffic calming”. In some cases, a single device may be implemented, while in others, a combination of techniques achieves the desired outcome. Some typical traffic calming measures include:

- Gateways / Entryways
- Speed Bumps / Speed Tables
- Cul-de-sacs
- Alternative Pavement Surfaces
- Curvilinear Roads
- Roundabouts / Traffic Circles

Private Roads

Private road construction standards, ordinance standards and connectivity to public thoroughfares will require cooperation by the County government and the Eaton County Road Commission. Establishment of consistent standards and construction practices will enhance the aesthetics of the County and the safety of both residents and visitors that travel along private roads throughout Eaton County. Eaton County’s zoning ordinance requires all private roads to meet minimum standards and requires maintenance agreements.

Nonmotorized Transportation and Trail Connectivity

As Figure 8-5 demonstrates, Eaton County is lagging behind Ingham County in development of trails and nonmotorized infrastructure. While this is not something the Planning Commission can directly influence, the Planning Commission can prioritize establishment of sidewalks and connectivity between sites when appropriate during the site plan review process.

CHAPTER 9

PUBLIC SERVICES

Chapter 9 | Public Services

The responsibility of providing public services to residents of Eaton County is shared by several public entities, including the County government itself, various township, village and city governments, various state offices, numerous school districts, and others. The adequacy of public facilities has a direct influence on the county's ability to attract new residents, businesses, and industries, and play an important role in maintaining and improving the quality of life for residents.

Local Governmental Offices

The Eaton County governmental complex is centrally located in the county seat of Charlotte, at 1045 Independence Boulevard. The complex, built in 1975-1976, was developed on a thirty (30) acre campus, enabling the county to consolidate many of its operations to one location. The complex includes the county's administrative services, District Court, Sheriff's Department, Animal Shelter, Youth Services, Social Services, the MSU Extension Service and the U.S. Department of Agriculture field office. In addition, each township, village and city within Eaton County provides local facilities to house their individual municipal operations.

Emergency Services

Eaton County is serviced by sixteen (16) Fire Districts, and ten (10) Emergency Medical Services (EMS) Districts. The EMS districts generally encompass a larger area than the Fire Districts; however, their boundaries are relatively similar. In addition, Eaton County houses two (2) hospital facilities, the Eaton Rapids Medical Center located in Eaton Rapids and the Sparrow Eaton Hospital in Charlotte.

Police protection throughout Eaton County is the responsibility of the Sheriff's office, except in those communities who have established their own police departments. Delta Township, Oneida Township and the Village of Vermontville currently contract police services through the Sheriff's office. In addition, a satellite Sheriff's office is located in Delta Township.

Schools

Twelve (12) public school districts are located within Eaton County, as well as a number of private learning institutions. In addition, the Eaton County Intermediate School District provides alternative and special needs educational opportunities to residents with a main campus in Charlotte, and other satellite locations throughout the county.

The University of Olivet, Great Lakes Christian College, and the west campus of Lansing Community College are located within Eaton County. The University of Olivet located in the City of Olivet is a private, four-year liberal arts institution. Olivet offers baccalaureate degree programs, and master programs and dual degree programs with other higher education institutions.

Great Lakes Christian College (GLCC) is located in Delta Charter Township on a forty-seven (47) acre campus. GLCC specializes in a four-year Bachelor of Science degree, a two-year Associate of Arts and Associate of Religious Education, and a two-year Associate of Arts in Early Childhood Education. Cooperative studies with Spring Arbor University and the University of Phoenix are also offered.

Lansing Community College (LCC) provides a west campus located within Delta Charter Township. The west campus serves as the academic workforce development center, more than thirty (30) programs are offered here.

Public Utilities

Provision of sewer and water services has significant impacts on how Eaton County will develop and function into the future. The extension of services from cities has allowed suburban development in adjacent townships and the development of new systems has resulted in new growth areas throughout the county. Providing additional services in the future will require a coordinated approach among local governments, not only to avoid duplication and provide services in the most cost-effective and sustainable manner, but to ensure that the location and density of new development is consistent with Master Plans across jurisdictional boundaries. Maintaining and improving surface and groundwater quality can also be achieved through a coordinated approach in the areas of eliminating older septic systems and managing land uses near public water supplies.

Public Wastewater Systems

Eaton County is serviced by twelve (12) wastewater collection and treatment systems. Each of these is operated and maintained by the municipality where they are located. Eaton County's wastewater collection and treatment systems are located within the following jurisdictions:

- Village of Bellevue
- Brookfield Township
- City of Charlotte
- Delta Charter Township
- Village of Diamondale
- City of Eaton Rapids
- City of Grand Ledge
- Village of Mulliken
- City of Olivet
- Village of Potterville
- Village of Sunfield
- Village of Vermontville

These combined wastewater collection and treatment systems throughout Eaton County serve approximately 60,000 residents, or about 58% of the County's population.

Public Water Systems

The majority of Eaton County is underlain by the Saginaw Formation, a bedrock aquifer that serves much of the region. This formation exists at depths of approximately 100 to 200 feet below the surface. It serves as the source of supply for most private wells and the nine (9) public water systems located throughout the County. These water systems are operated and maintained by the municipality in which they are located. Eaton County's public water systems are located in the following jurisdictions:

- Village of Bellevue
- City of Charlotte
- Delta Charter Township
- City of Eaton Rapids
- City of Grand Ledge
- City of Olivet
- Village of Potterville
- Village of Sunfield
- Village of Vermontville

Eaton County is also part of the Capital Area Groundwater Alliance (CAGA). CAGA was created to protect and preserve drinking water at its source. CAGA is a group of communities predominately in Eaton, Ingham and Clinton Counties, working together to maintain high standards of water quality and to educate residents and businesses about water protection.

Solid Waste

Eaton County has been committed to promoting and protecting the public health, safety and welfare of residents through the 1993 Solid Waste Ordinance with the development and administration of the County's waste management plan by Eaton County Department of Resource Recovery (ECDRR). Through the solid waste ordinance, solid waste collection, transportation, delivery and disposal can be regulated, residents and businesses are provided incentives to recycle in order to reduce the volume of solid waste disposed, and the environment is preserved and improved.

Combined, Eaton County's twelve (12) wastewater collection and treatment systems serve approximately 60,000 residents, or about 58% of the County's population. Eaton County is underlain by the Saginaw Formation, a bedrock aquifer that exists at depths of approximately 100 to 200 feet below the surface. It serves as the water supply for most private wells and the nine (9) public water systems located throughout the County.

ECDRR acts as a resource to Eaton County residents. They provide tips on recycling, reusing and reducing waste. In addition, the ECDRR coordinates both year-round programs and special collection events to accommodate the proper disposal of wastes.

There are six (6) recycling collection points within Eaton County each with acceptance of varying products. They are located in Charlotte, Delta Township, Grand Ledge, Mulliken, and Sunfield. Each recycling center operates under the municipality in which it resides.

CHAPTER 10

INTERGOVERNMENTAL COOPERATION

Chapter 10 | Intergovernmental Cooperation

Land use, economic development, housing, environmental protection, outdoor recreation access, and many of the other issues identified in this plan cross multiple jurisdictional boundaries and require various units of government and public agencies to collaborate. As a consequence, intergovernmental cooperation is an absolute must to effectively implement the goals and objectives in this master plan. With 27 local units of government, 12 school districts, several utility providers, and numerous county agencies, the ability to coordinate the decisions and actions of these entities is among the most important and challenging components of implementing this master plan.

Intergovernmental cooperation can take many shapes and forms, and often starting small is the best course of action. For example, county zoning is a significant act of cooperation between the 11 townships that participate and the county who has stake on the authority and responsibility to administer a zoning ordinance that applies to multiple units of government. This chapter identifies several opportunities for intergovernmental cooperation, summarizes the current status of activities, and then identifies opportunities for future collaboration. For those areas where a significant change or major opportunity is present, information is repeated in the Goals and Objectives Chapter of this plan.

Information Sharing and Training

Description: Keeping pace with changing best practices, technology, and evolving issues around land use, economic development, and housing is a common challenge across all units of government. Where possible, participating in joint meetings (either formal or informal) and training sessions presents relatively easy “low hanging fruit” for Eaton County.

Current Status: With the COVID-19 Pandemic and changes in leadership, past efforts for sharing information and fostering relationships between local units of government in the county are no longer active. However, re-establishing programs for regular interaction between local units of government was identified as a priority in stakeholder meetings.

Opportunities:

- Regular meetings hosted for training and informational purposes, including potentially re-establishing a Michigan Townships Association (MTA) Chapter in Eaton County.
- Training opportunities for local units of government facilitated by the county and/or local officials.

Planning and Zoning

Description: Many small cities and villages struggle with having the necessary capacity to administer their zoning ordinance, make regular updates, and review potential development options.

Current Status: The county administers the county zoning ordinance, and a few local units of government have common staff people that work for multiple jurisdictions, but collaboration on this issue is fairly limited.

Opportunities:

- Eaton County Community Development may identify opportunities to assist individual units of government by providing limited assistance to address a particular issue or challenge that aligns with master plan goals.
- The county can be a resource or assist local units of government in identifying a private contractor or staff person to administer local zoning and community development activities, and encouraging communities to share these services when appropriate.

Economic Development

Description: When opportunities to drive new business or job creation are presented to local units of government or the county, the Eaton County Community Development Department provides basic information and services to local units of government. For major projects or developments with potential incentives included Eaton County partners with the Lansing Economic Area Partnership (LEAP) to engage potential businesses and developers.

Current Status: The relationship with LEAP is extremely effective today for large-scale business development and attraction initiatives. But in smaller cities and villages, LEAP does not necessarily have the capacity to support all requests.

Opportunities:

- Encourage local units of government to be members in LEAP to expand the capacity and resources for economic development available in their respective communities.
- The Michigan Economic Development Corporation is encouraging local units of government to participate in the Redevelopment Ready Communities program (RRC). The Eaton County Community Development Department could provide some assistance to communities navigating the program and pursuing certification.

Transportation

Description: Eaton County is a member of the Tri-County Regional Planning Commission (TCRPC), which is the Metropolitan Planning Organization (MPO) for Eaton, Ingham, and Clinton Counties. TCRPC is the agency responsible for coordinating long-range and short-term transportation plans for the three counties.

Current Status: Eaton County is an active participant in the TCRPC, particularly related to TCRPC's role related to transportation in the county.

Opportunities:

- Continued collaboration between the Michigan Department of Transportation, County Road Commission, and local units of government to align major road reconstruction projects with other public improvements.
- Exploring opportunities to provide for a more regional approach to public transit, with increased collaboration between EATRAN, CATA, and Clinton Area Transit System.

Shared Services

Description: Local units of government have shared service agreements with other local units of government, or the county, to provide for essential services like police or fire protection.

Current Status: Shared service agreements are common in Eaton County and have been in place in some communities for many years. While it is important that these agreements are regularly evaluated to ensure they are effective for all parties, generally they have been viewed positively by residents and local officials.

Opportunities:

- Provide examples of successful shared service agreements and provide information to local units of government that are interested in exploring new options.

Parks, Recreation, and Natural Resources

Description: Eaton County is home to a county parks system, several local parks systems, school districts with recreational facilities, and an active Conservation District with a range of resources to support conservation and outdoor recreation.

Current Status: With the passage of a recent parks millage, Eaton County will begin to provide financial resources to support development of local parks and recreational assets. This new resource should allow for further development of recreational assets and opportunities in the county. Connectivity between parks and recreational assets in the county was also identified as a priority in the County's Parks and Recreation Master Plan and was a common theme during stakeholder interviews.

Opportunities:

- County millage funds present an excellent opportunity to leverage other state funding through the Michigan Natural Resources Trust Fund and other associated programs to make significant improvements to local parks and nonmotorized trails.
- Pursuit of joint projects to improve the connectivity of parks and natural resources assets in the county. Including nonmotorized trails and potential water trail designation along the Grand River.

CHAPTER 11

TAKING ACTION

Chapter 11 | Taking Action

Eaton County's role as a planning and zoning jurisdiction is multi-faceted. First, as the zoning authority for 11 of the county's 16 townships, the County is responsible for regulating land use over a majority of the county's land area. Second, the County's Community Development Department is responsible for regulating a wide range of land use related activities outside of zoning, including parcel divisions and administering the county's Purchase of Development Rights program. Lastly, as county government, there are a wide range of services operated by Eaton County that affect resident's daily lives, including public safety, construction codes, parks and recreation, and the Barry-Eaton District Health Department, among others. Lastly, in addition to the responsibilities under the direction of the county, there is a range of affiliated public and private organizations that also have direct influence on land use and community development, including, but not limited to the Eaton County Road Commission, MDOT, EATRAN and CATA, TCRPC, LEAP, the Eaton Conservation District, School Districts the Continuum of Care, County Mental Health, Capital Area Michigan Works, and the Tri-County Office on Aging.

The varied missions and responsibilities of the many departments and outside agencies that are stakeholders in land use and community development make setting goals that are realistic and tangible extremely challenging at the county level. **As a consequence, the Planning Commission has determined that it is best to separate Master Plan goals into two categories: 1) Overall goals that apply broadly to the community and 2) Goals specific to the work of the Planning Commission and County Community Development Department.**

Overall Goals

The following goals are broad policy statements that will guide the county's decision making related to land use and community and economic development. When making decisions regarding investing resources, developing infrastructure, and reviewing new potential developments, these goals should be considered carefully to ensure a consistent and steady approach toward growth and development.

Goal 1: **Increase the supply of housing while providing for a greater diversity of housing options throughout Eaton County.** Parts of Eaton County have seen steady population growth over the past two decades, while other more rural and isolated portions of the county have seen stagnation or decline. As the population has aged, and household dynamics have shifted toward smaller households, the county's housing stock has not kept up. There are opportunities to retrofit existing housing stock and provide for new housing stock in urban and suburban communities, as well as rural villages to ensure residents have access to appropriate housing options in their communities.

Goal 2: **Focus new development and growth in areas with existing infrastructure capable of supporting new development.** A large portion of the county has current access to or is in close proximity to infrastructure capable of supporting new residential, commercial, or industrial development. Because of the aging nature of much of the county's infrastructure,

LAND USE STAKEHOLDER ORGANIZATIONS

- **Eaton County Road Commission**
- **Eaton County Drain Commissioner**
- **Barry-Eaton District Health Department**
- **Eaton County Sherriff's Department**
- **Eaton County Transportation Authority (EATRAN)**
- **Eaton County Parks and Recreation**
- **Local Governments**
- **Michigan Department of Transportation (MDOT)**
- **Capital Area Transportation Authority (CATA)**
- **Tri-County Regional Planning Commission (TCRPC)**
- **Lansing Economic Area Partnership (LEAP)**
- **Eaton Conservation District**
- **Continuum of Care**
- **School Districts**
- **And many more…**

priority should be placed on directing new development and growth to places that utilize the infrastructure in the ground today and providing revenue necessary to support maintenance and upgrades to those systems.

Goal 3: **Preserve Eaton County's agricultural land and encourage development of new businesses and industries related to agriculture.** The most common feature cited by survey respondents as an asset in Eaton County is its agricultural land and natural areas. The County will continue to prioritize policies that maintain areas suitable for agriculture and provide high-quality natural areas for recreation and preservation of natural ecosystems.

Goal 4: **Continue to invest in natural resources and parks and recreation facilities throughout Eaton County.** The county parks system, combined with schools and local parks systems represents a significant asset. Since COVID, there has been a significant increase in interest in expansion of county parks and an increase in demand for programming for people of all ages, but especially youth and seniors.

Goal 5: **Support the growth of existing businesses and provide a welcoming climate for new businesses to locate in Eaton County.** Eaton County will continue to work with LEAP on business attraction efforts to bring new businesses and economic opportunities to the county, while also ensuring that county permitting, and review processes are timely and responsive to the needs of current and prospective businesses.

Goal 6: **Maintain existing infrastructure, including roads, sewer, and water, while expanding infrastructure for broadband connectivity.** With a large county that is served primarily by county roadways, maintaining transportation infrastructure is absolutely critical for a large portion of the county's land area. Maintaining and updating existing roadway, water, and sewer infrastructure to allow for growth within existing service areas is a priority. Expansion of broadband infrastructure throughout the county is also a priority, as ensuring access to rural locations provides new opportunities for remote work, education, and access to a variety of virtual services that can sustain rural places.

Goal 7: **Foster an environment of cooperation and collaboration between local units of government and the county.** Eaton County is home to 27 local units of government, 12 school districts, and dozens of public and private organizations with an active role in public life. As an entity with a broad role, the Eaton County sets the tone for cooperation and collaboration between these entities.

Planning Commission & Community Development Objectives

The local units of government, public and private organizations, and residents of the county all have roles to play in pursing the broad goals outlined in this chapter. This section defines objectives and actions to achieve those goals that are the responsibility of the Planning Commission and Community Development department that will be pursued prior to the next 5-year review of the Master Plan.

Goal 1: Increase the supply of housing while providing for a greater diversity of housing options throughout Eaton County.

Objective 1.1: Identify current barriers to increasing housing supply, particularly in small cities and rural villages.

Action: Work with local officials to convene a meeting of local realtors and developers to identify challenges and potential solutions for increasing the supply of housing.

Action: Follow-up with TCRPC on the regional housing assessment (Housing Drives) to understand how the project affects Eaton County.

Objective 1.2: Review county policies to ensure they are supportive of new housing development and a range of housing types, in appropriate locations.

Action: Review zoning ordinance provisions for cluster housing development and Planned Unit Developments to determine if additional density or housing typologies should be allowed.

Action: Assess the overall development review process (building permit, soil erosion, health department review, driveway permits, etc.) to identify opportunities for streamlining the process.

Action: Pursue other changes as identified by stakeholders or residents.

Objective 1.3: Provide support to local units of government which are interested in reviewing and updating their policies related to housing development.

Goal 2: Focus new development and growth in areas with existing infrastructure capable of supporting new development.

Objective 2.1: Reduce the rate of new development in agricultural areas of the county.

Action: Review the county's zoning ordinance and land division ordinance to determine whether changes are necessary to reduce the number of splits and division of remaining large agricultural parcels.

Objective 2.2: Identify areas with access to existing infrastructure capable of supporting new development in the county.

Action: Work with local officials to identify priority sites and create a list of potential development to communicate to realtors and potential developers. These sites could be for housing, commercial development, industrial development, or a mix of uses.

Goal 3: Preserve Eaton County's agricultural land and encourage development of new businesses and industries related to agriculture.

Objective 3.1: Continue to promote the county's Purchase of Development Rights program and encourage farmers to consider permanently protecting their land though PDR or other mechanisms like the Michigan Farmland and Open Space Preservation program (PA 116).

Objective 3.2: Limit the impact on prime agricultural land from renewable energy development.

Action: Ensure that any renewable energy development provides for the continued use of land for agriculture, and/or provides for a return to agricultural use following the end of the life cycle of the

renewable energy system.

Action: Consider the impact on the agricultural base of communities caused by the conversion of agricultural land to renewable energy. If a significant proportion of land in a given area is converted to renewable energy, it may become difficult to maintain a productive agricultural base in rural communities.

Objective 3.3: Encourage farmers to pursue a range of opportunities to maintain economically stable farming operations.

Action: Continue to update zoning ordinance provisions as necessary to permit new agricultural tourism and value-added agricultural processing activities.

Action: Collaborate with Michigan State University Extension and other local partners to educate local farmers and communities on new opportunities.

Goal 4: Continue to invest in natural resources and parks and recreation facilities throughout Eaton County.

Objective 4.1: Work together with the county's Parks and Recreation Department and Commission to support expansion of recreational resources and activities within the county.

Objective 4.2: Support the pursuit of funding and resources to expand trails and improve connectivity between parks and recreation resources and key nodes of activity and population centers in the county.

Action: Work collaboratively with the County Parks and Recreation department to identify appropriate areas for expansion of parks and natural areas.

Action: Work with the Eaton County Parks and Recreation Department and County Road Commission to identify opportunities to add new nonmotorized and Outdoor Recreational Vehicle (ORV) trails to connect parks and other natural resources with population centers.

Goal 5: Support the growth of existing businesses and provide a welcoming climate for new businesses to locate in Eaton County.

Objective 5.1: Maintain an active presence with LEAP by Community Development Department staff and other county representatives having an active role on working committees and leadership committees.

Objective 5.2: Achieve Essentials certification from the Michigan Economic Development Corporation's (MEDC) Redevelopment Ready Communities (RRC) program.

Action: Complete a *baseline* report through RRC staff to identify necessary updates to county policies and procedures.

Action: Create a small subcommittee of key stakeholders to work toward certification.

Objective 5.3: Maintain an up to-date listing of local chambers of commerce, permitting officials and contacts, and other resources for businesses considering locating or expanding in Eaton County.

Objective 5.4: Continue to explore opportunities to make the development review and permitting process efficient and effective for existing and prospective businesses.

Action: Review the process annually with Planning Commission to determine opportunities for improvement.

Action: Advise local units of government on best practices for enhancing their process and working with county agencies.

Goal 6: Maintain existing infrastructure, including roads, sewer, and water, while expanding infrastructure for broadband connectivity.

Objective 6.1: Support local governments and county departments in securing the necessary funding to update and maintain infrastructure.

Objective 6.2: Pursue funding and explore creative solutions to provide broadband internet access throughout Eaton County by supporting the Broadband Communication Council.

Action: Provide support for the council by pursuing grants and working with the County GIS department to identify areas in greatest need of better connectivity.

Goal 7: Foster an environment of cooperation and collaboration between local units of government and the county.

Objective 7.1: Provide regular opportunities for local officials throughout the county to build positive working relationships.

Action: Host quarterly events sponsored by the County Planning Commission to engage local units of government, with a priority on townships under the county zoning jurisdiction. Events could include training programs, question and answer sessions with county departments (e.g., Road Commission or Drain Commission), or general updates on Planning Commission activities.

Action: Work with local township officials to re-establish an Eaton County chapter of the Michigan Townships Association (MTA).

Action: Host an annual training session on a relevant community development topic for all local governments within Eaton County.

Objective 7.2: The Eaton County Community Development Department and Planning Commission will serve as a resource for planning and zoning issues facing Eaton County communities.

Action: Community Development Department staff will meet at least once annually with officials from each township under county zoning jurisdiction to discuss applications and issues affecting their township.

Action: Community Development Department staff will work with small cities and villages to provide guidance and resources to support effective planning and zoning activities.

Implementation Strategy

The goals and objectives identified in this chapter were developed based on feedback from local stakeholders, public input through surveys, and evaluation of the data presented in this plan. This section provides guidance for the Planning Commission and Community Development Department to prioritize objectives. When preparing its annual report to the County Board of Commissioners, the Planning Commission should review this section of the Master Plan and provide a report on the status of each objective.

Objective	Priority	Year to be Completed	Funding Source(s)
Objective 1.1: Identify current barriers to increasing housing supply, particularly in small cities and rural villages.	**High**	2024	-
Objective 1.2: Review county policies to ensure they are supportive of new housing development and a range of housing types, in appropriate locations.	**High**	2024	MEDC RRC
Objective 1.3: Provide support for local units of government interested in reviewing and updating their policies related to housing development.	**Medium**	Start in 2024	-
Objective 2.1: Reduce the rate of new development in agricultural areas of the county.	**High**	Ongoing	-
Objective 2.2: Identify areas with access to existing infrastructure capable of supporting new development in the county.	**Medium**	2025	TBD
Objective 3.1: Continue to promote the county's Purchase of Development Rights program and encourage farmers to consider permanently protecting their land though PDR or other mechanisms like the PA 116 program at the State of Michigan.	**Medium**	Ongoing	-
Objective 3.2: Limit the impact on prime agricultural land from renewable energy development.	**High**	Ongoing	-
Objective 3.3: Encourage farmers to pursue a range of opportunities to maintain economically stable farming operations.	**Medium**	Ongoing	-
Objective 4.1: Work together with the county's Parks and Recreation Department and Commission to support expansion of recreational resources and activities within the county.	**Low**	Ongoing	Michigan DNR & County Parks Millage
Objective 4.2: Support the pursuit of funding and resources to expand trails and improve connectivity between parks and recreation resources and key nodes of activity and population centers in the county.	**Low**	Ongoing	Michigan DNR & County Parks Millage
Objective 5.1: Maintain an active presence with LEAP by county staff and other county representatives having an active role on working committees and leadership committees.	**Low**	Ongoing	-
Objective 5.2: Achieve *Essentials* certification from the Michigan Economic Development Corporation's (MEDC) Redevelopment Ready Communities (RRC) program.	**High**	2024	MEDC RRC
Objective 5.3: Maintain an up to-date listing of local chambers of commerce, permitting officials and contacts, and other resources for businesses considering locating or expanding in Eaton County.	**Medium**	2025	-

Objective	Priority	Year to be Completed	Funding Source(s)
Objective 5.4: Continue to explore opportunities to make the development review and permitting process efficient and effective for existing and prospective businesses.	**Medium**	Ongoing	-
Objective 6.1: Support local governments and county departments in securing the necessary funding to update and maintain infrastructure.	**High**	Ongoing	-
Objective 6.2: Pursue funding and explore creative solutions to provide broadband internet access throughout Eaton County by supporting the Broadband Communication Council.	**High**	Ongoing	State of Michigan; Federal Government
Objective 7.1: Provide regular opportunities for local officials throughout the county to build positive working relationships.	**Medium**	Start in 2024	-
Objective 7.2: The Eaton County Community Development Department and Planning Commission will serve as a resource for planning and zoning issues facing Eaton County communities.	**Medium**	Start in 2025	-

CHAPTER 12

LAND USE

Chapter 12 | Land Use

Existing Land Use

ROWE completed an analysis of county parcel data to evaluate existing land use within Eaton County. Existing Land Use assigns a particular use to each of the 40,000+ parcels throughout Eaton County. Existing land use is primarily based on tax classification for each parcel, with some adjustments based on unique classifications or large parcels with multiple uses where a tax classification was not the most appropriate description. Figure 12-2 displays existing land use across five categories, which are the same categories utilized to establish existing land use in the previous Master Plan update in 2008/2011.

	2008*		2021		Change	
Land Use	**Acres**	**%**	**Acres**	**%**	**Acres**	**%**
Residential	82,220.00	22.8%	114,848.88	31.7%	32,628.88	8.9%
Commercial	6,412.50	1.8%	15,415.06	4.3%	9,002.56	2.5%
Industrial	3,689.00	1.0%	5,016.22	1.4%	1,327.22	0.4%
Exempt	5,633.00	1.6%	279.21	0.1%	(5,353.79)	(1.5%)
Total Developed Land	**97,954.50**	**27.1%**	**135,559.37**	**37.4%**	**37,604.87**	**10.3%**
Agriculture-Vacant	263,235.50	72.9%	226,699.48	62.6%	(36,536.02)	(10.3%)
Total	**361,190.00**	**100.0%**	**362,258.84**	**100.0%**		

**The total number of acres cited in the 2008 Existing Land Use Analysis includes a mathematical error.*

Figure 12-1: *Existing Land Use*

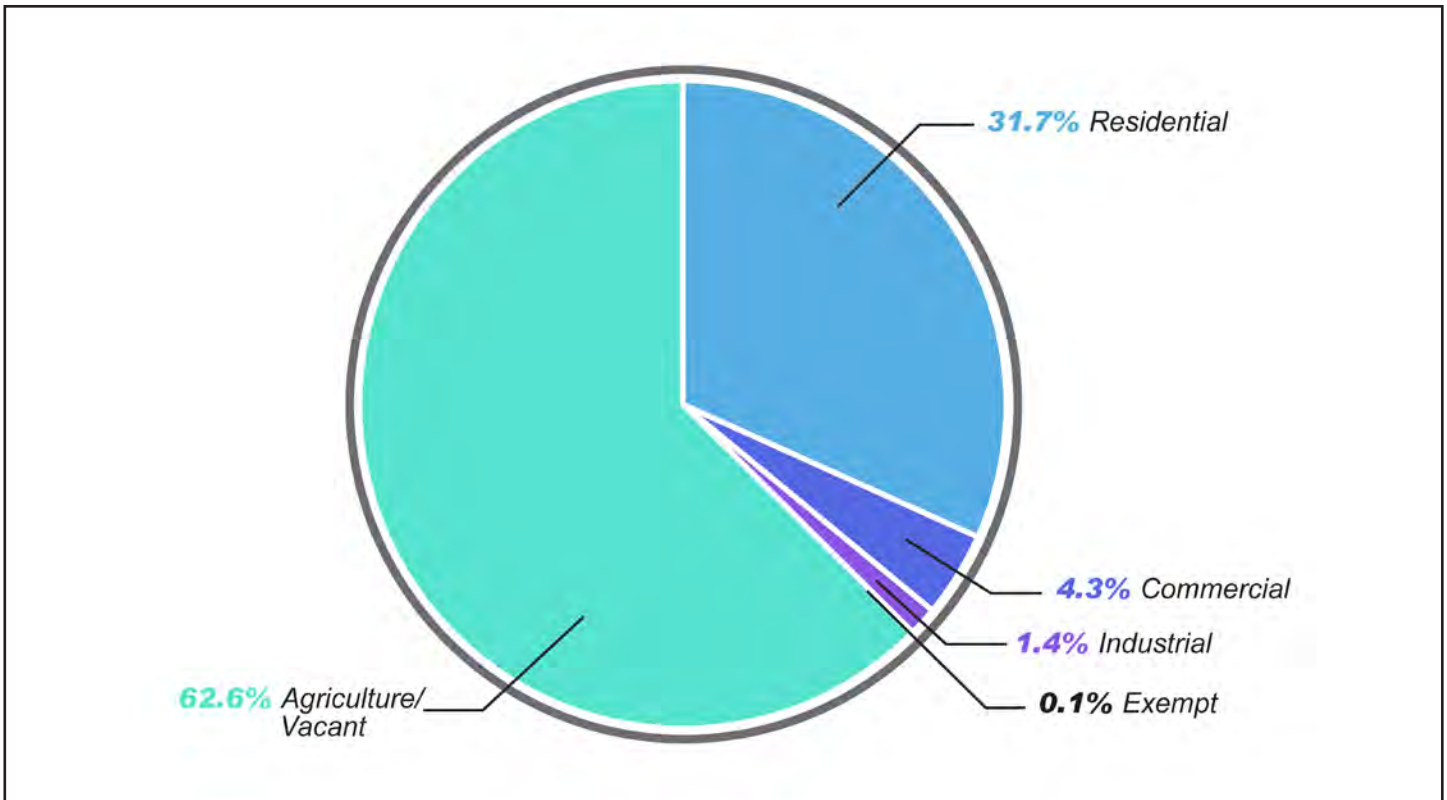
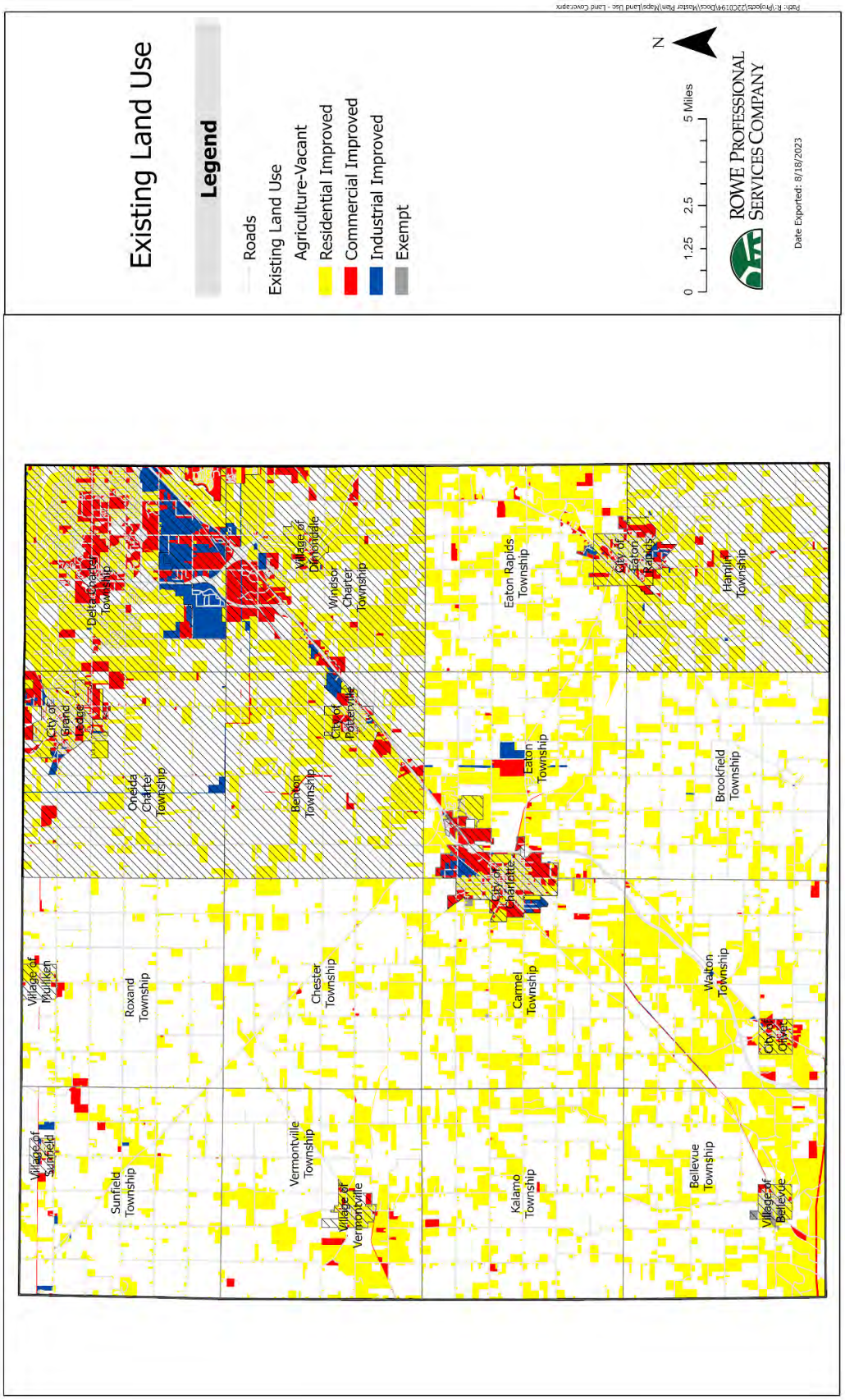


Figure 12-2: *Existing Land Use, 2021*



Map 12-1: *Existing Land Use (Note, cross hatch areas indicate local zoning jurisdictions)*

Land Use Change

As Figure 12-2 and Figure 12-4 show, a significant amount of land was converted from Agriculture-Vacant to Residential and Commercial uses between 2008 and 2022. Total, over 36,000 acres were converted to residential or commercial uses during this time period.

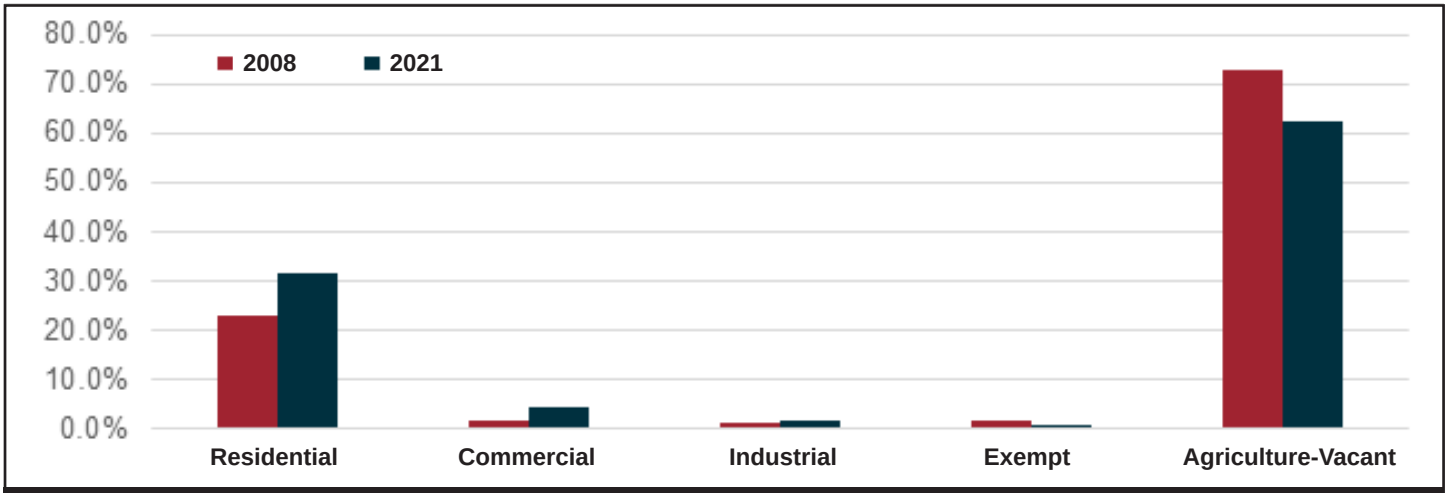


Figure 12-3: *Land Use Change 2008 -2022*

To complete this analysis, ROWE analyzed existing land use and change in Eaton County based on county parcel data. The starting point for the analysis is the 2011 Master Plan, which includes an analysis of Existing Land Use as of 2008.

Unfortunately, the data that was used to create the map in the 2011 Plan is no longer available, thus working with Eaton County's GIS team, ROWE recreated the 2008 version of the map and applied values to a 2011 version of county parcels.

Once the base year for the existing land use analysis was set, ROWE completed an analysis of Existing Land Use as of 2021 utilizing a combination of county parcel data, aerial imagery, Google Street View, and on-site observation to confirm land use on parcels within the county; creating a 2021 Existing Land Use Layer.

ROWE then compared the former existing land use layer with the new existing land use layer to identify areas of change. This created the Change in Land Use 2008-2021 Map. To verify this change, ROWE also compared change in tax classification of Eaton County Parcels between 2011 and 2022, which created the Change in Property Class Table (Figure 12-5).

- The following tables provide a summary of the data that creates each map. In summary, while Eaton County has not seen significant growth in terms of population according to the U.S. Census Bureau since 2010, land has continued to be converted from agricultural to residential use at a significant pace.
- Based on an analysis of land use, 30,060 acres converted from Agriculture-Vacant to Residential. This appears to be primarily in the form of large-lot residential, as the average size of parcels that converted to residential is 6.5 acres. This includes 70 parcels over 50 acres that account for over 6,000 acres. At the same time, 3,907 acres converted from Residential to Agriculture-Vacant.
- 2,777 acres changed from Agriculture-Vacant to Commercial and 3,869 acres changed from Exempt to Commercial.
- 1,686 acres changed from Agriculture-Vacant to Industrial.

It is important to note that **a change in use of a particular parcel does not necessarily mean that an entire parcel has converted from agricultural use to another use.** Property owners commonly continue to farm a portion of their parcel or lease it for agricultural purposes. However, this data does demonstrate that conversion of land from agricultural or natural status to more intense use has continued over the past decade, though likely in a different form from the early 2000s. This fragmentation of large agricultural parcels represents a significant threat to the long-term viability of agricultural use, and also significantly reduces space available for wildlife corridors and continuous tracts of open space. Two characteristics of Eaton County most commonly cited as assets by survey respondents.

- As the Change in Land Use Map shows, the dynamic of change varies throughout the county.
- Intensification of commercial and industrial uses is focused on the edges of cities and villages, along the I-69/Lansing Road Corridor, and in Southern Delta/Northern Windsor Townships.
- Conversion to residential uses is most intense in the Southwestern portion of the county, where most of the converted parcels are large, but conversion to residential is common throughout most of the county, with the exception of Sunfield and Roxand townships, where relatively little change occurred compared to the rest of the county.

Change in Property Class

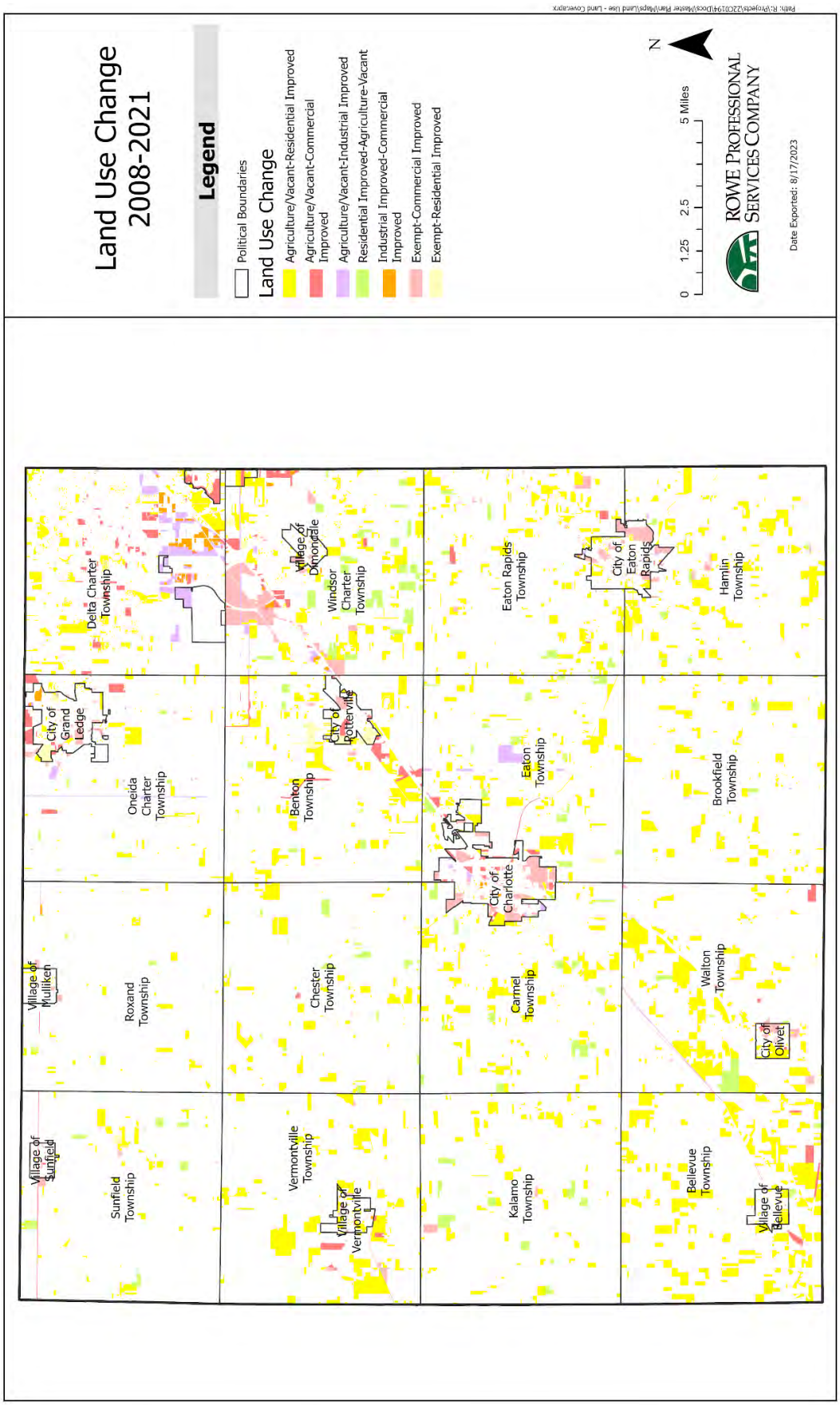
There is some discrepancy between the change in property classification and the change in land use. This is partially because there are many property classifications that were “rolled” into one land use. For example, residential condominiums are a separate property classification, but are classified as just “residential” for land use purposes.

The most significant change in classification relates to new parcels that were created and then classified. While the number of parcels created that are classified as residential is significant, it does not equate to the number of parcels identified in the Land Use Analysis. This may be partially due to the different timeframe of analysis Class was analyzed for 2011-2021 while Land Use was analyzed for 2008-2021, but there may also have been inconsistencies between the methodology used to conduct the land use analyses in 2008 and 2021 that is driving some of this difference. Figure 12-5 provides a summary of the top 20 most common changes in classification.

Change in Land Use (2008 - 2021)	Sum of Acreage	%	Change in Land Use (2008 – 2021)	Sum of Acre-age	%
Agriculture-Vacant-Agriculture-Vacant		51.3%	Commercial Improved-Agriculture-Vacant	193.79	0.1%
Residential Improved-Residential Improved	69,882.49	19.3%	Exempt-Exempt	185.59	0.1%
New Parcels not existing in 2008	53,789.84	14.8%	Commercial Improved-Residential Improved	182.86	0.1%
Agriculture-Vacant-Residential Improved	30,060.55	8.3%	Industrial Improved-Residential Improved	52.16	0.0%
Commercial Improved-Commercial Improved	4,958.25	1.4%	Commercial Improved-Industrial Improved	45.08	0.0%
Residential Improved-Agriculture-Vacant	3,906.86	1.1%	Agriculture-Vacant-Exempt	24.87	0.0%
Exempt-Commercial Improved	3,869.17	1.1%	Industrial Improved-Agriculture-Vacant	22.52	0.0%
Agriculture-Vacant-Commercial Improved	2,776.99	0.8%	Exempt-Industrial Improved	17.10	0.0%
Industrial Improved-Industrial Improved	2,495.58	0.7%	Agriculture-Vacant-ROW	8.43	0.0%
Agriculture-Vacant-Industrial Improved	1,685.56	0.5%	Residential Improved-Industrial Improved	4.87	0.0%
Exempt-Residential Improved	829.85	0.2%	Residential Improved-ROW	2.01	0.0%
Industrial Improved-Commercial Improved	561.94	0.2%	Commercial Improved-Exempt	0.2	0.0%
Exempt-Agriculture-Vacant	457.74	0.1%	Agriculture-Vacant-Residential Improved	0.06	0.0%
Residential Improved-Commercial Improved	235.66	0.1%	**Total**		100.0%

Figure 12-4: *Change in Land Use*

Map 12-2: *Land Use Change*



Top 20	2022	Count	Acres
N/A	102 Agricultural-Vacant	389.00	21,867.25
N/A	101 Agricultural-Improved	223.00	13,545.97
N/A	401 Residential-Improved	1,625.00	9,930.66
101 Agricultural-Improved	102 Agricultural-Vacant	74.00	5,202.19
402 Residential-Vacant	102 Agricultural-Vacant	213.00	3,975.08
N/A	402 Residential-Vacant	405.00	3,864.19
402 Residential-Vacant	401 Residential-Improved	801.00	3,569.52
102 Agricultural-Vacant	101 Agricultural-Improved	57.00	3,348.07
101 Agricultural-Improved	401 Residential-Improved	65.00	3,158.02
401 Residential-Improved	101 Agricultural-Improved	86.00	2,584.87
N/A	302 Commercial-Improved	261.00	2,540.10
102 Agricultural-Vacant	402 Residential-Vacant	61.00	2,284.74
701 Exempt Improved	201 Commercial-Improved	279.00	1,861.34
101 Agricultural-Improved	001 Retired/Split	23.00	1,713.31
702 Exempt Vacant	201 Commercial-Improved	164.00	1,702.75
401 Residential-Improved	402 Residential-Vacant	207.00	1,180.78
602 Developmental-Vacant	102 Agricultural-Vacant	24.00	1,088.98
401 Residential-Improved	408 Residential-Improved Waterfront	223.00	541.47
401 Residential-Improved	407 Residential-Condominiums	1,495.00	55.06
N/A	407 Residential-Condominiums	212.00	6.33
Total		**6,887.00**	**84,020.68**

Figure 12-5: *Change in Property Classification*

Building Permits

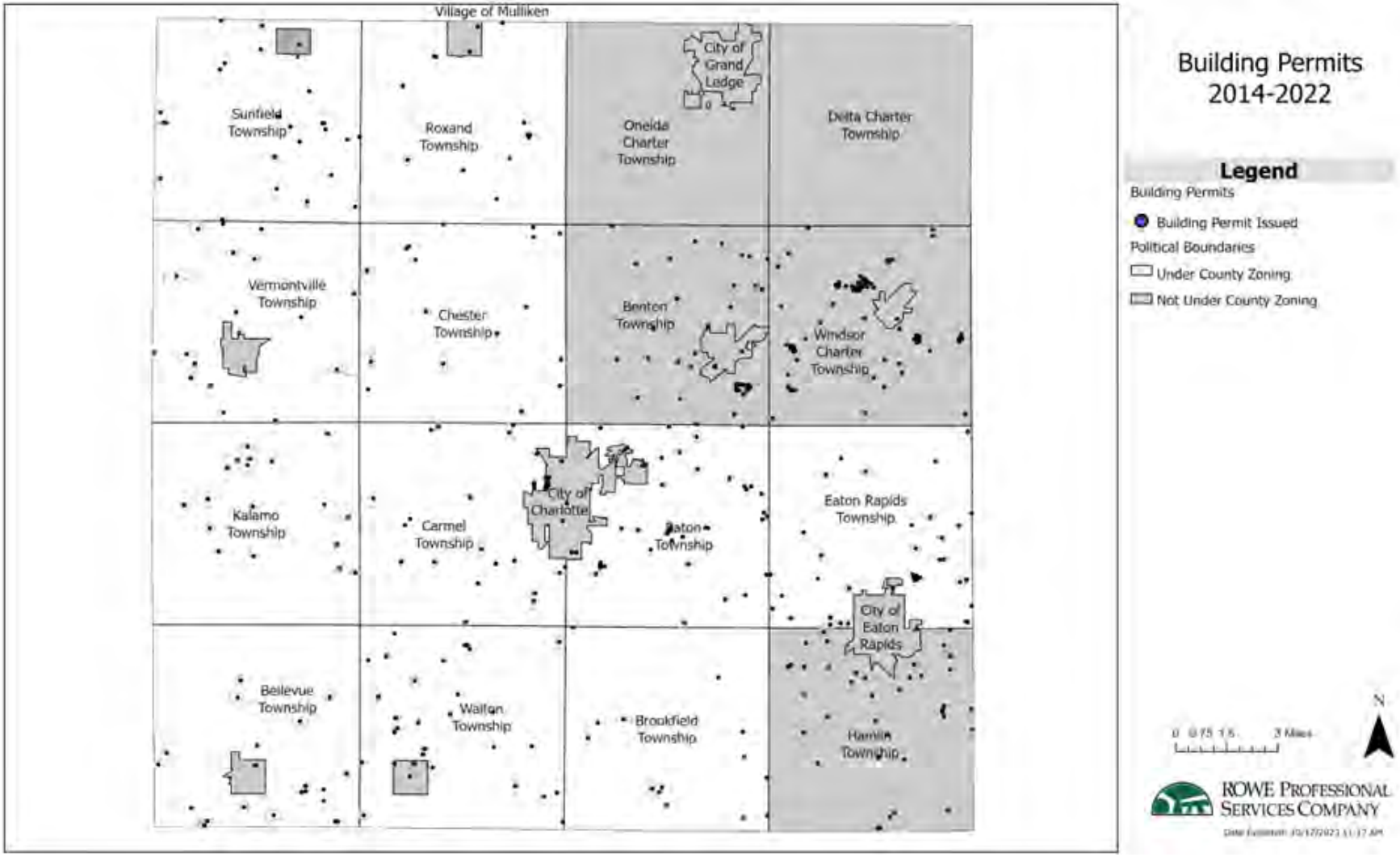
As a final analysis of land use change in Eaton County, this section analyzes building permits issued from 2014 through 2022. During this period of time there were a total of 526 building permits issued in the county for construction of new dwellings. Figure 12-6 illustrates the number of building permits issued for new dwellings by year. As the table indicates, there has been a gradual upward trend in new dwelling building permits since 2014, with 2022 being the year with the most permits issued.

Year	Permits for New Dwellings issued
2014	18
2015	40
2016	57
2017	60
2018	64
2019	55
2020	63
2021	83
2022	86

Figure 12-6: *Building Permits Issued*

Figure 12-7 illustrates the location of building permits issued by Eaton County over this time period. Note that Eaton County does not issue building permits for Oneida Charter Township, Delta Charter Township, the City of Grand Ledge, and the City of Eaton Rapids. Figure 12-7 tells a similar story to the Land Use Change and Tax Classification change maps, since the last master plan update, development in the rural portions of the county has been relatively scattered and not particularly focused, with a stronger tendency toward new development in the eastern portions of the county.

Figure 12-7: *Building Permits*



Future Land Use

The Future Land Use Plan provides direction for the future development of areas of Eaton County that are under the zoning jurisdiction of the county. It serves as an overall framework for the management and regulation of future development and serves as the basis for evaluating rezoning requests.

The Planning Enabling Act (P.A. 33 of 2008, as amended) provides Planning Commissions the authority to prepare and officially adopt a master plan. Section 33 (2) of the Act states:

> 2) A master plan shall also include those of the following subjects that reasonably can be considered as pertinent to the future development of the planning jurisdiction:
>
> (a) A land use plan that consists in part of a classification and allocation of land for agriculture, residences, commerce, industry, recreation, ways and grounds…public transportation facilities, public buildings, schools, soil conservation, forests, woodlots, open space, wildlife refuges, and other uses and purposes.

The future land use plan is based on the goals, objectives, and strategies established in the Action Plan in Chapter 11, but is intended to be somewhat flexible. It is important to keep the following in mind when considering Future Land Use Plan.

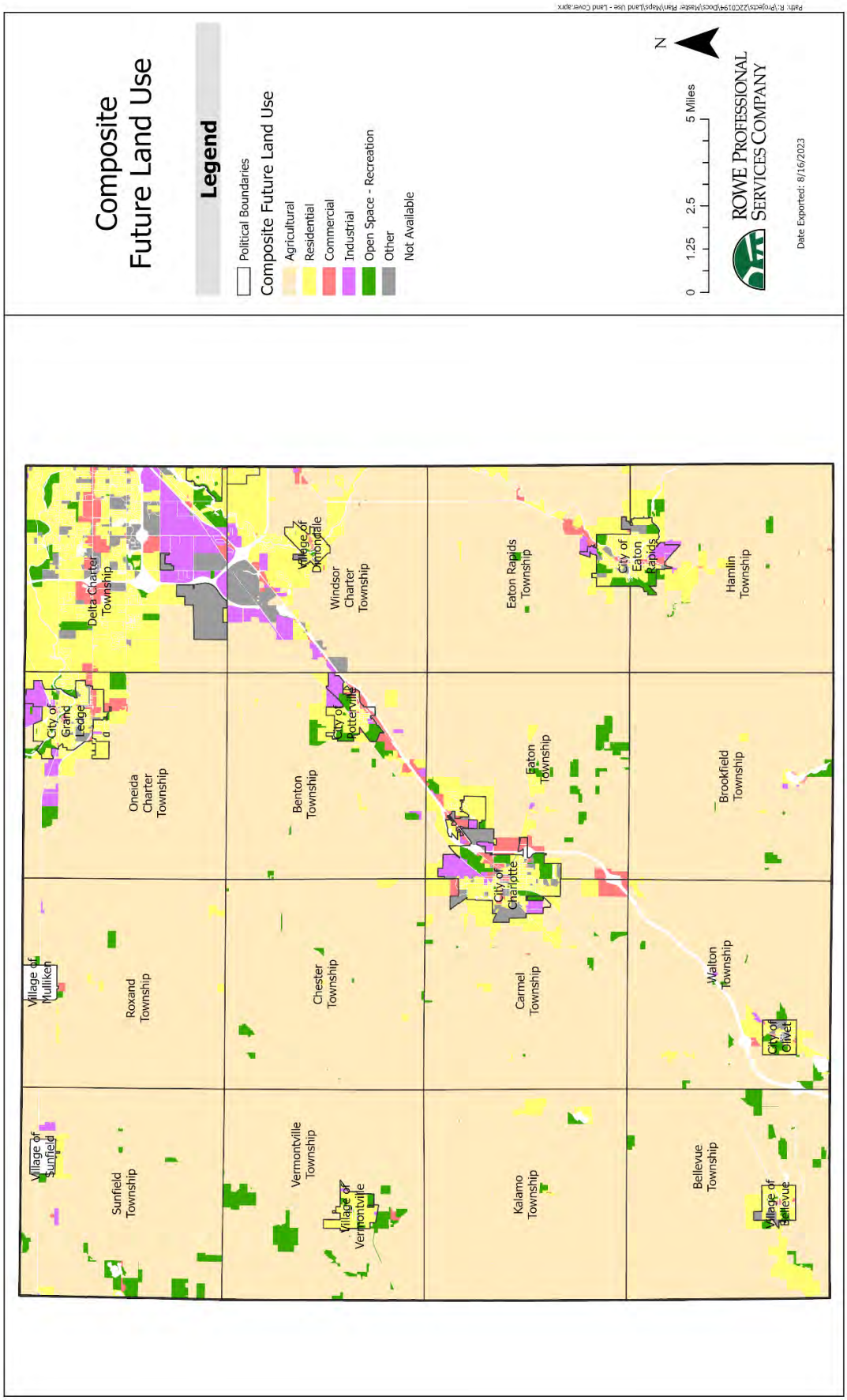
The Future Land Use Plan provides a long-range projection of land uses for the next 20 years to coordinate development consistent with the county's goals and objectives. The Future Land Use Map represents a general arrangement of the proposed land uses as identified by their locational criteria. It is not intended to be the zoning map. In determining the appropriateness of a zoning change, the plan's goals, policies, and locational criteria should be reviewed and weighed equally with the map's delineation of future land use classification boundaries.

The Future Land Use Plan considers land uses in the context of the county as it exists at the date of adoption of the plan, relative to goals and objectives for future development. The relationship between land uses, transportation facilities, public facilities, utilities, and a range of other factors was considered in establishing future land use classifications. As these factors change, the assumptions upon which the map was developed may no longer be relevant.

The Future Land Use Plan should be reviewed and analyzed when the Planning Commission considers public and private development activities relative to a constantly changing economic, social, and built environment.

Prior to establishing a future land use plan for the county zoning jurisdiction, the Eaton County Planning Commission examined a generalized version of future land use across the entire county. This composite future land use analysis provides a snapshot of the plans for land use in all zoning jurisdictions. As the map shows, the overwhelming majority of the county is planned for agricultural use, with much greater densities of residential and commercial uses in the northeast portion of the county and within cities and villages.

Map 12-3: *Composite Future Land Use*



Eaton County Master Plan Land Use Classifications

The draft master plan identifies 8 land use classifications to direct development in Eaton County. These classifications generally align with current zoning district classifications. The land use classifications listed below are presented from least intense use to most intense use.

Resource Conservation

Intent: This land use category is intended to preserve areas of importance as they relate to natural resources which support the rural character of the county. The areas designated as Resource Conservation were derived from those that ranked the highest in the *Greening Mid- Michigan Tri-County Planning* report.

Locational Criteria: These areas are dispersed throughout the county and correspond to the irregular boundaries of wetlands, floodplains, potential conservation areas and areas of particular historical importance. They provide vital ecological benefits such as wildlife habitat, flood control, and aquifer recharge zones.

Preferred Land Uses: Land uses should be restricted to resource conservation, environmentally friendly customary agricultural activities, single-family dwellings, and accessory buildings. Clustered housing development that preserves significant tracts of open lands would be favored over large acreage single-family lots.

Equivalent Zoning District: Resource Conservation.

Agricultural Preservation

Intent: This land use category is intended to serve the needs of the agricultural industry in the County by maintaining and protecting agricultural operations against development pressure.

Locational Criteria: The boundaries of the area may shift as markets change, but the intent is that this classification will be restricted to areas designated as prime farmland, without access to public utilities, and with value as farmland and/or open space.

Preferred Land Uses: Other than the homes of farmers and their employees, new housing should be discouraged within this land use classification. Agricultural processing operations (i.e., grain elevators, feed lots, slaughterhouses) are encouraged along with large tracts of quality farmlands intended primarily for agriculture and agricultural processing activities. Limited use of land in this classification for utility-scale renewable energy and agricultural tourism operations is permitted, so long as the ability to utilize the land for agricultural production or valuable open space is maintained beyond the useful life of the renewable energy system or agricultural tourism operation.

Equivalent Zoning District: LA, Limited Agricultural.

Mixed Use Transition

Intent: The Mixed Use Transition designation is intended to provide flexibility for development along major corridors outside of cities and villages. This future land use designation permits existing uses consistent with the agricultural preservation district, but also allows for rezoning to higher-intensity rural residential, Moderate/High Density Residential, Local Business, or General Business uses and associated zoning districts.

Locational Criteria: Land in the Mixed Use Transition designation must have frontage along a state highway or a primary county roadway; be within one mile or less of a city, village, or other node of activity; be free from significant development limitations like the presence of wetlands; and not include Resource Conservation areas. If a portion of a parcel includes Resource Conservation areas or wetlands, but the remainder of the parcel meets these criteria, the Resource Conservation or

Wetland area should be maintained as open space. s

Preferred Land Uses: Existing agricultural and residential uses are preferred, until the opportunity for transition to a higher intensity use is presented. Any transition to a higher intensity use and associated zoning district should include consideration for limiting impacts on adjacent residential and agricultural uses by minimizing any nuisance effects from noise, light, odors, or dust while also providing for ample landscaping and screening to provide a transition to surrounding rural areas.

Equivalent Zoning District: Limited Agricultural, R-1 Residential, R-2 Moderate Density, C-1 Local Business, and C-2 General Business

Rural Residential

Intent: The Rural Residential land use designation is intended to provide for low-density residential development that serves as a transition between more intense development in cities and villages and the agricultural areas of the county.

Locational Criteria: The areas designated for Rural Residential are generally found where development already exists and/or areas adjacent to or near the County's lakes. Many of these areas have been platted and contain small lots. These areas will not likely be served by public water or wastewater, which necessitates relatively low densities to support individual septic systems.

Preferred Land Uses: Single family residential development on relatively small lots and clustered developments are preferred to minimize the fragmentation of farmlands.

Equivalent Zoning District: R-1 Residential.

Moderate/High Density Residential

Intent: It is the County's desire to provide a reasonable range of housing options in the County by allowing higher-density housing in locations where there is access to water and sanitary sewer, and other community services.

Locational Criteria: This land use designation may serve as a transitional zone between residential and non-residential areas and should therefore be located in proximity to areas with existing or future planned services and facilities. Densities should be limited, unless a public or approved private community sewer system is installed.

Preferred Land Uses: Uses such as condominiums, multi-family dwellings, senior housing complexes or manufactured home communities are appropriate in this land use designation. Demands for other public facilities and services should also be taken into consideration to minimize the impact of a high-density development. Maximum density shall be five to eight units per acre.

Equivalent Zoning District: R-2 Moderate Density and R-3 High Density

Local Business

Intent: This designation is intended to provide for commercial uses that support the needs of local residents and businesses and are not a major destination or draw for regional traffic.

Locational Criteria: This land use designation should be located along primary roadways and highways, and ideally at key intersections or nodes of activity. The local business designation must be in close proximity to residential, commercial, or industrial uses for which it provides associated services.

Preferred Land Uses: Areas shown as local business are considered convenience commercial. These types of commercial uses deal with goods and services that represent daily needs such as laundry services, convenience goods such as groceries and pharmacies, and other personal service

uses. Local business uses are small in nature, generally serving the residents of the community in which they are located.

Equivalent Zoning District: C-1 Local Business

General Business

Intent: This designation provides for larger businesses with a regional draw and large footprint buildings that generate significant traffic and provide employment opportunities for county residents.

Locational Criteria: The criteria for location of these uses includes accessibility to water and sewer services, proximity to highways and primary roads, and lands capable of supporting development.

Preferred Land Uses: Regional commercial uses are larger in scale and cater to a regional market. These include automobile related services, restaurants, shopping centers, and office buildings.

Equivalent Zoning District: C-2 General Business

Industrial

Intent: To provide for areas within the county for development of industrial, manufacturing, and storage or warehousing uses that require significant land and provide employment opportunities for county residents.

Locational Criteria: Key conditions in the location of industrials lands are the accessibility to adequate roads, availability of rail (where needed), availability of adequate water supply and wastewater disposal and compatibility with neighboring land uses. Generally, such locations are found in and near the cities of Charlotte, Eaton Rapids, Olivet and Potterville along I-69, M-50, M-100, M-99 and M-78.

Preferred Land Uses: Industrial processing and manufacturing facilities, major repair and refurbishing of automobiles and vehicles, warehousing and storage, and associated office, storage and related uses.

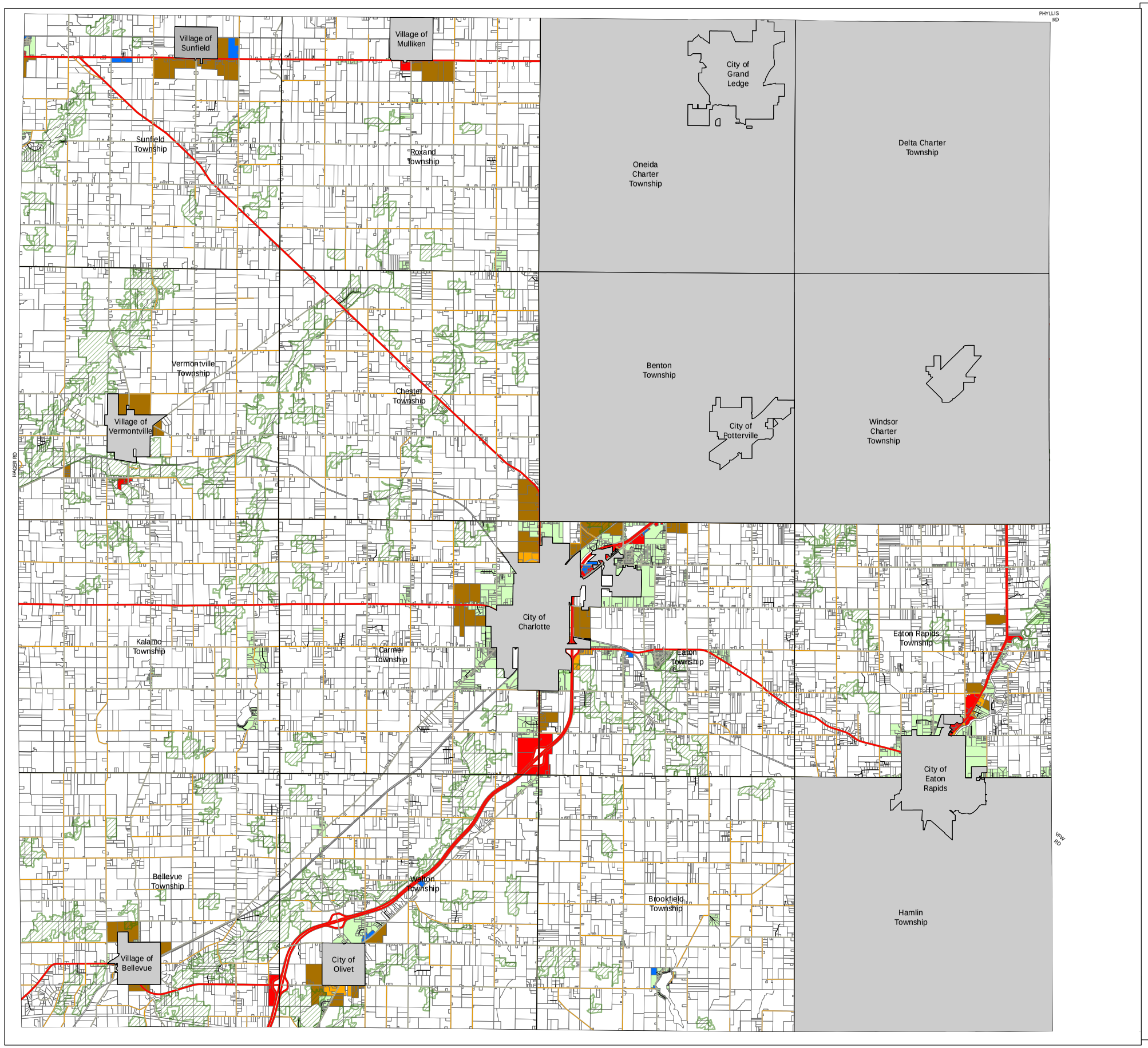
Equivalent Zoning District: I Industrial

Future Land Use Map

Map 12-4 provides the overall Future Land Use Map for Eaton County. Individual maps of each township under county zoning jurisdictions are provided in the appendix. The future land use map is intended to illustrate one possible arrangement of land uses based on the plan's location criteria. When the Planning Commission and County Board of Commissioners considers a rezoning request, the fact that a particular parcel is identified in the future land use classification that corresponds to a certain zoning district is a good indication that the proposed rezoning complies with the plan, but that may not be the only appropriate future land use classification based on consistency with the master plan.

This Future Land Use map also reflects the planned future land use for the county at a particular point in time. It is critical that the Planning Commission periodically review this plan to determine whether changes to the map or the classifications of future land use are necessary.

Map 12-4: *Future Land Use Map*



2023 Future Land Use Map

Legend

Roads

- Highway
- County/Local Road
- Unpaved
- Other

County Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

N

0 0.75 1.5 3 Miles

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Zoning Plan

Figure 12-8 provides a summary of the relationship between Eaton County zoning districts and future land use classifications in the Master Plan. All future land use classifications have an equivalent zoning district except for Secondary Agricultural.

Zoning District	Future Land Use	Minimum Zoning Ordinance Lot Size (Square Feet)
RC Resource Conservation	Resource Conservation	36,300
LA Limited Agricultural	Agricultural Preservation	36,300
None	Mixed Use Transition	N/A
R-1 Low Density Residential	Rural Residential	36,300 – 15,000
R-2 Medium Density Residential	Medium/High Density Residential	12,000
R-3 High Density Residential	Medium/High Density Residential	12,000 – 8,000
C-1 Local Business	Local Business	30,000 – 15,000
C-2 General Business	General Business	30,000 – 15,000
I Industrial	Industrial	43,560

Figure 12-8: *Zoning Plan Summary*

Recommended Zoning Ordinance Amendments

The following zoning ordinance amendments are recommended based on this Master Plan. The primary adjustment to the zoning ordinance envisioned by this Master Plan is exploring options to reduce the rate of farmland and open space being converted to residential use while also providing for opportunities for limited expansion of residential development in appropriate areas of the county.

1. **Establish the Mixed Use Transition zoning district** to provide for areas within the county that are most appropriate for more intensive residential development, and therefore limiting the continued conversion of prime agricultural lands throughout the county.
2. Evaluate the lot sizes permitted within the Resource Conservation and Limited Agricultural districts to **determine whether larger lot sizes, or other land preservation techniques are appropriate** to limit the conversion of agricultural and open space land to residential uses.
3. **Evaluate the utility of the Resource Conservation District relative to the Limited Agricultural District** and determine whether the two districts can be combined, or if the Resource Conservation District would function more effectively as an overlay district that is aligned with the Future Land Use map.
4. **Consider the locations currently designated for Medium and High Density Residential** and determine whether they are adequate or if additional areas should be rezoned or designated in the Future Land Use map for these classifications.
5. **Re-evaluate current provisions for utility scale renewable energy systems** to ensure the regulations effectively balance master plan goals for agricultural preservation with the rights of private property owners.

Annual Report

The Planning Commission annual report is a critical tool to tracking progress toward Master Plan goals and objectives. Each year, the Planning Commission should include a review of actions and accomplishments related to the plan and identify priorities for the upcoming year to be considered by the County Board of Commissioners.

Five-Year Review

Under the terms of the Michigan Planning Enabling Act (MPEA), the county's Planning Commission must review the Master Plan at least every five years to determine if an update is required. The findings and determination of the Planning Commission should be recorded in the meeting minutes and as part of a formal motion or resolution.

The review should be a formal process if the county intends it to serve as compliance with the requirements of Section 45 (2) of the MPEA. This means that a report outlining the standards for review and other basis upon which the Planning Commission determined whether an update is necessary should be created. The findings may be part of a resolution adopted by the Planning Commission or a separate report incorporated into the minutes of the meeting.

As noted above, it is intended that the Planning Commission conduct a less formal review annually as part of the annual report to the County Board of Commissioners.

Standards for Review

In conducting the five-year review, the Planning Commission should evaluate the plan using the following criteria to determine if a plan update is necessary. If one or more of these conditions are met, a plan update may be appropriate.

1. **The conditions that the plan was based on have changed.** For example, this plan is based on a relatively flat rate of population growth in the county. If population growth suddenly surges, a revision may be appropriate. The county should track the rate of land splits, building permits, and regular census data updates to determine if the analysis in this plan is no longer accurate, and therefore the land use plan and goals and objectives may need to be re-evaluated.

2. **There was a significant error in the plan** that affects the plan policies, goals, or recommendations. Sometimes a plan is based on an assumption that turns out to be incorrect, such as an area that was previously thought to lack in pressure for development suddenly sees a surge in demand. Any changes in the facts as a community knows them should be considered to see if it changes the appropriateness of proposals in the plan.

3. **There has been a change in resident sentiment** about some basic goal of the plan, or on a proposed approach to achieving the goal, that is reflected in the Planning Commission's recommendations or the County Board of Commissioner's decisions, but not in the plan.

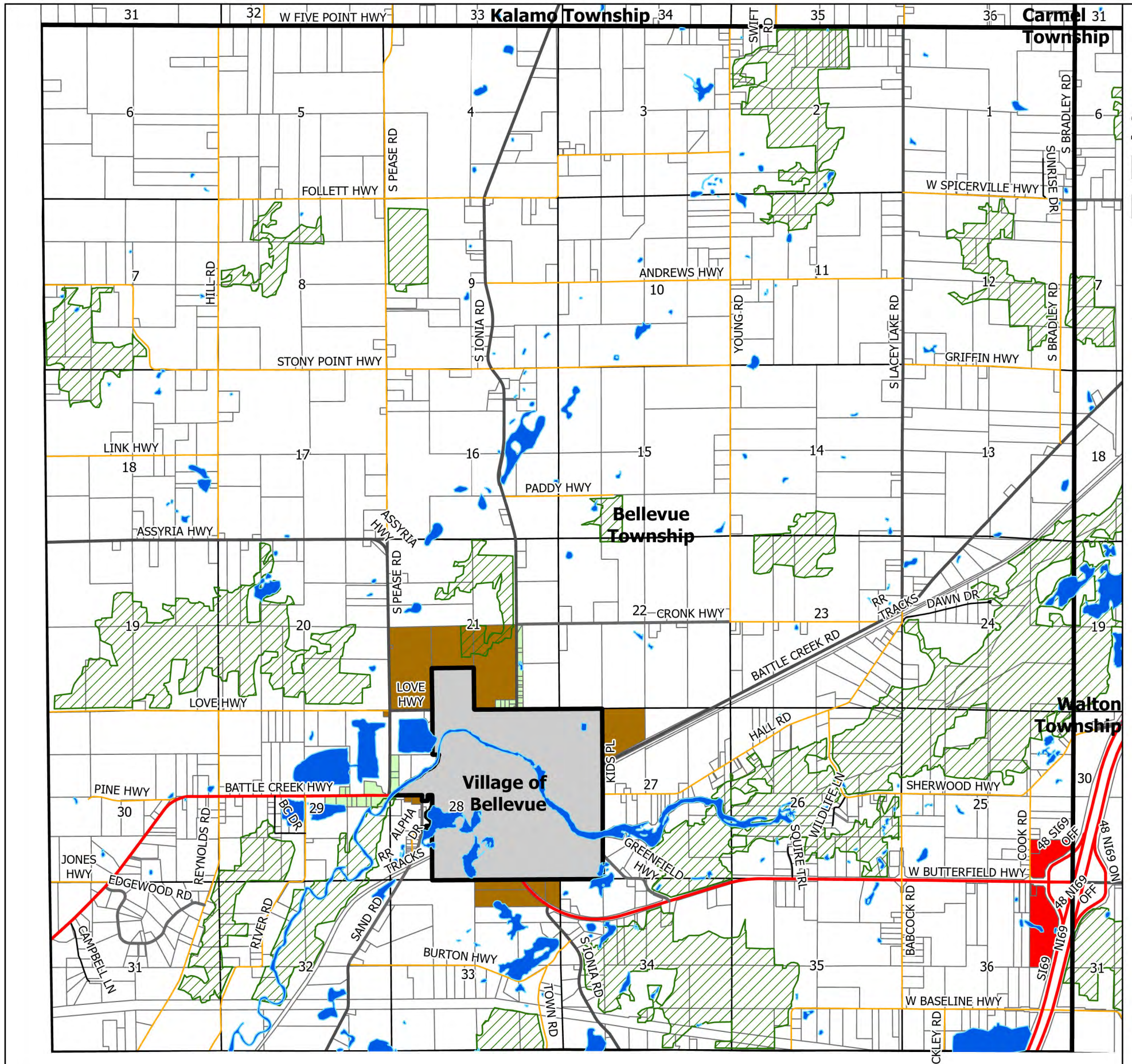
4. **New issues that should be addressed by the plan have come up** and are not adequately addressed. Issues important to a community may present themselves after a Master Plan has been adopted. In those instances, it might be an issue that requires amendment of the Master Plan to ensure that the county's policies regarding the use are clear.

5. **The plan is out of date.** Master Plans normally have a 10- to 20-year scope. If the plan has not been revised or significantly updated by the time the plan has reached the end of its "life", then it should be updated.

APPENDIX

- *Township Future Land Use and Zoning Maps*

2023 Master Plan Update: Bellevue Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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Bellevue Township Future Land Use

Legend

- Water Bodies
- Roads
- Future Land Use
  - Resource Conservation
  - Agricultural Preservation
  - General Business
  - Industrial
  - Local Business
  - Rural Residential
  - Secondary Agricultural
  - Not Under County Zoning

N

0 0.35 0.7 1.4 Miles

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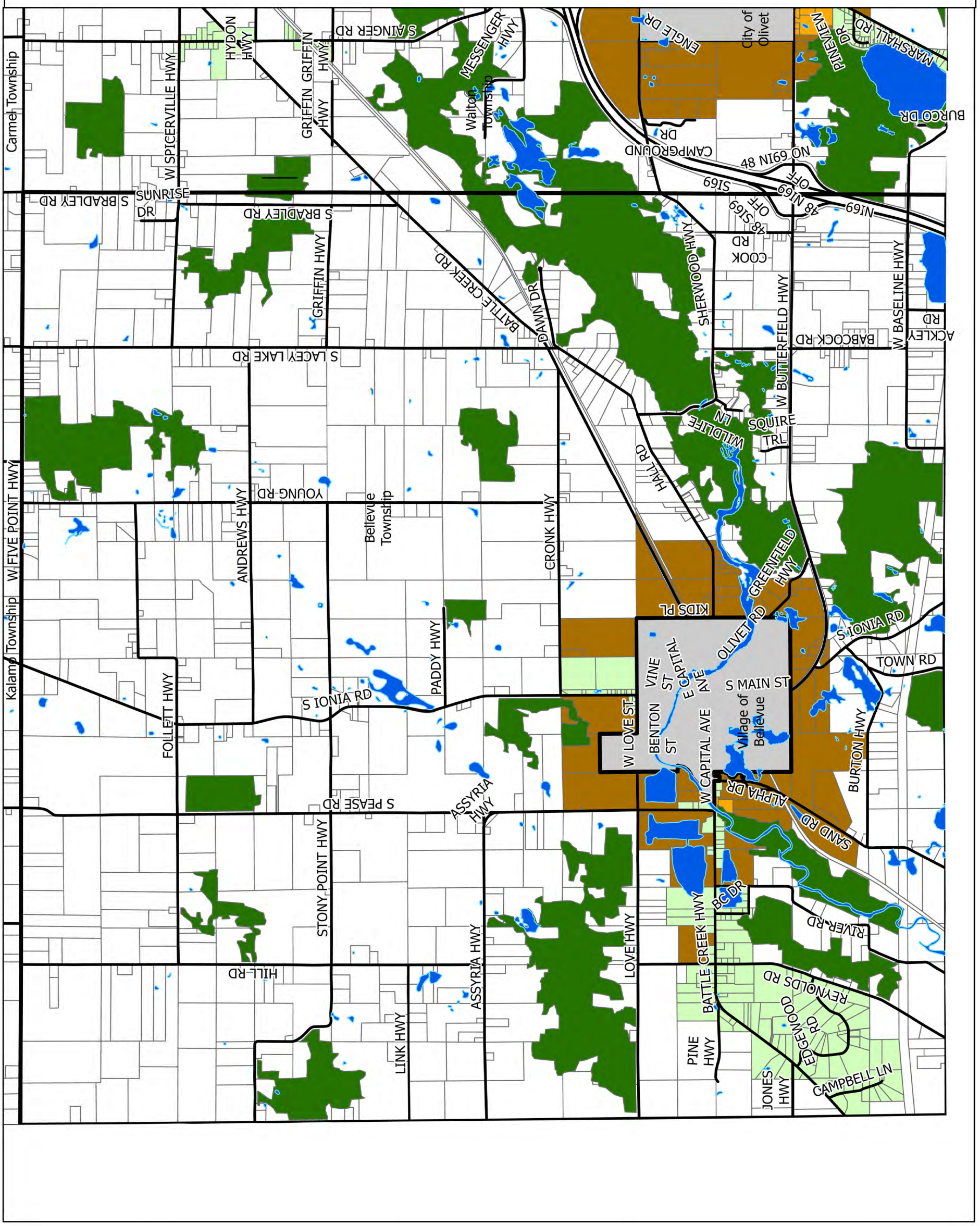
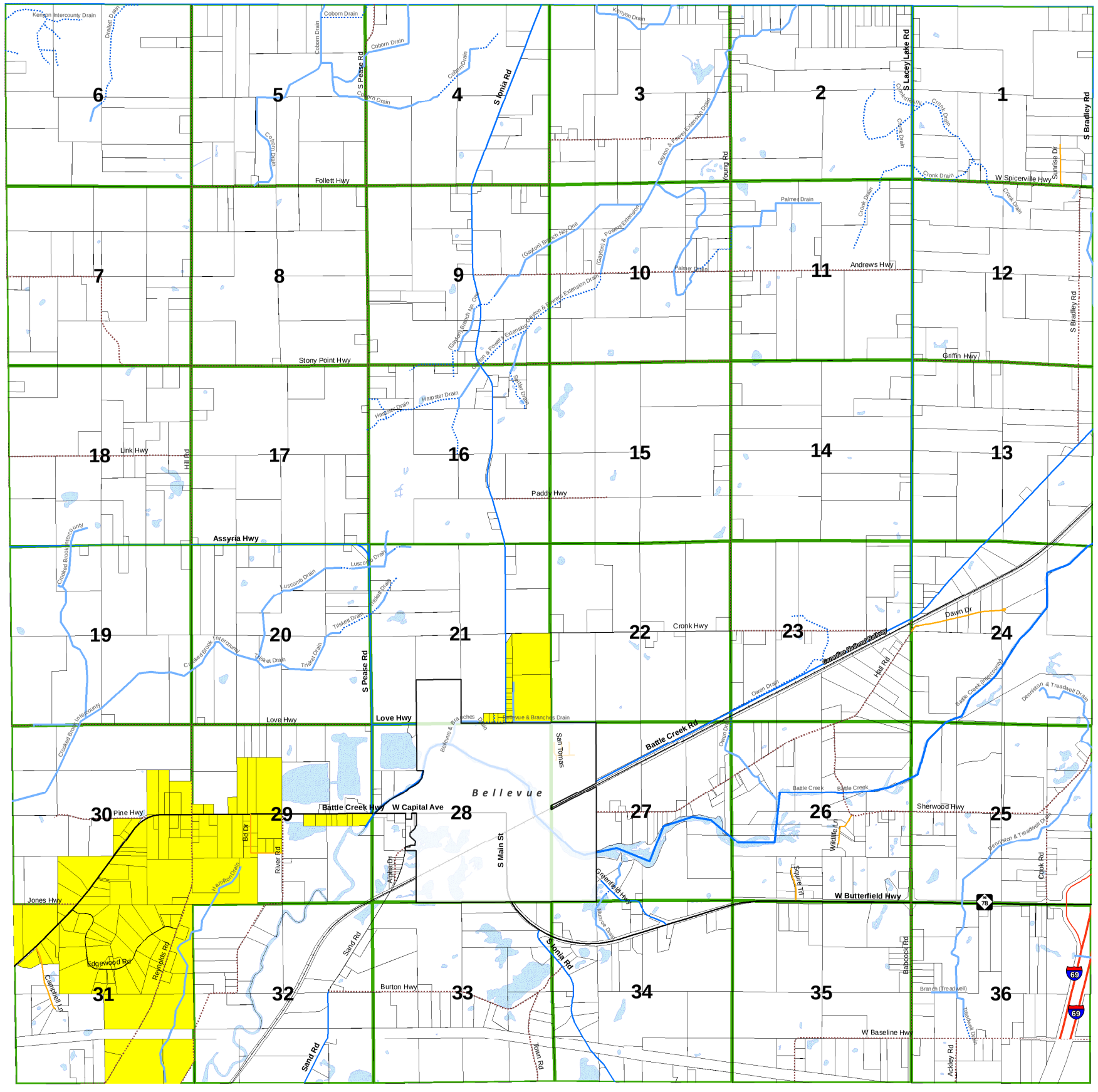




Eaton County Community Development

Bellevue Township Zoning Map

Zoning

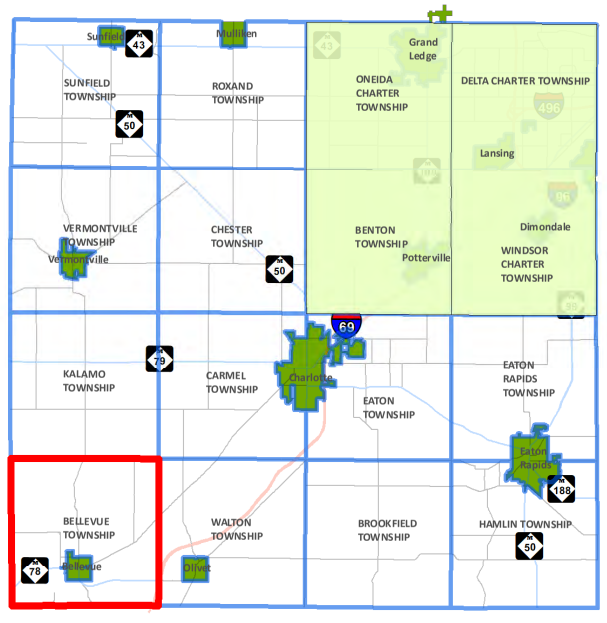
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



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1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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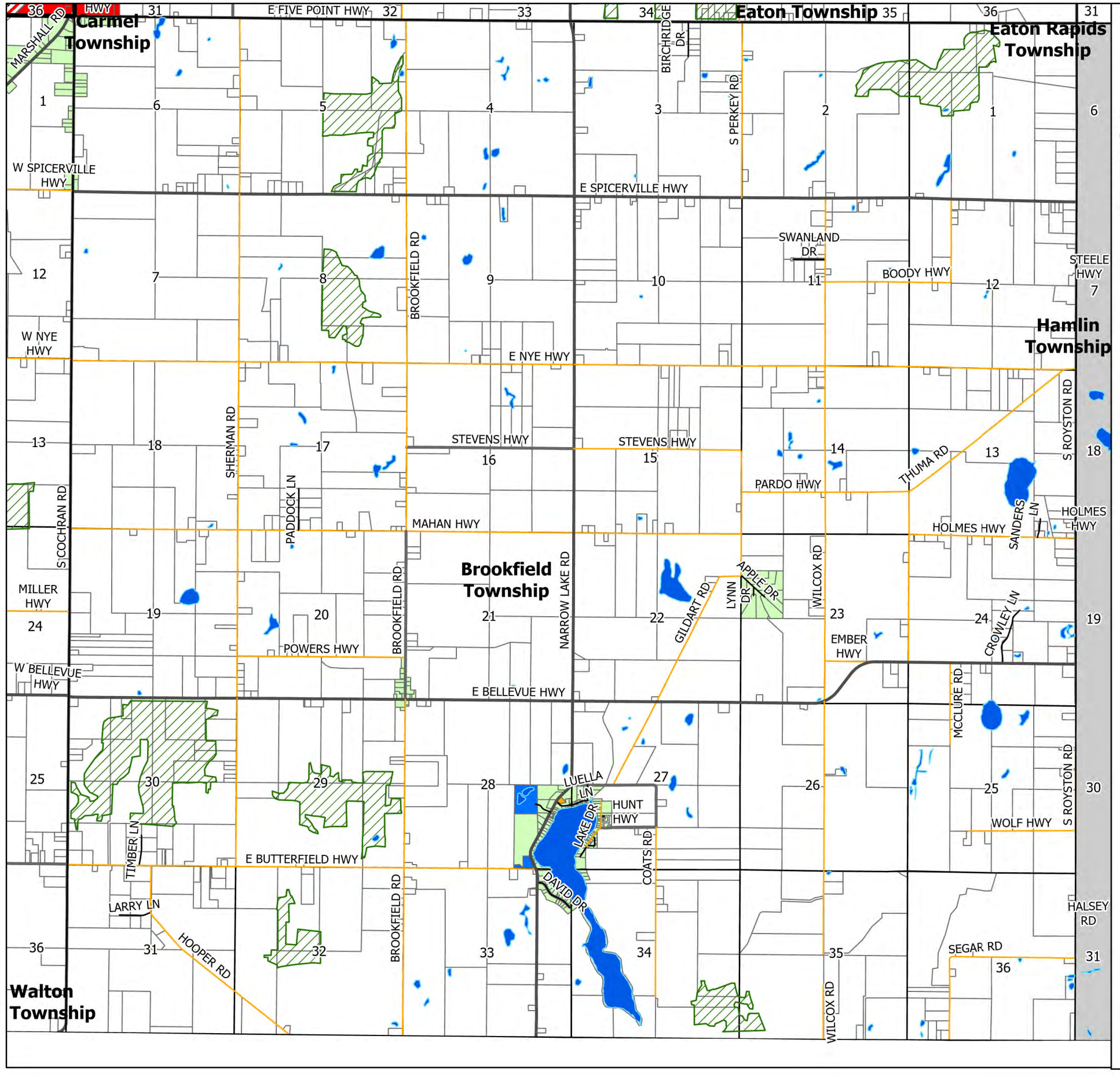

2023 Master Plan Update: Brookfield Township Future Land Use

Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

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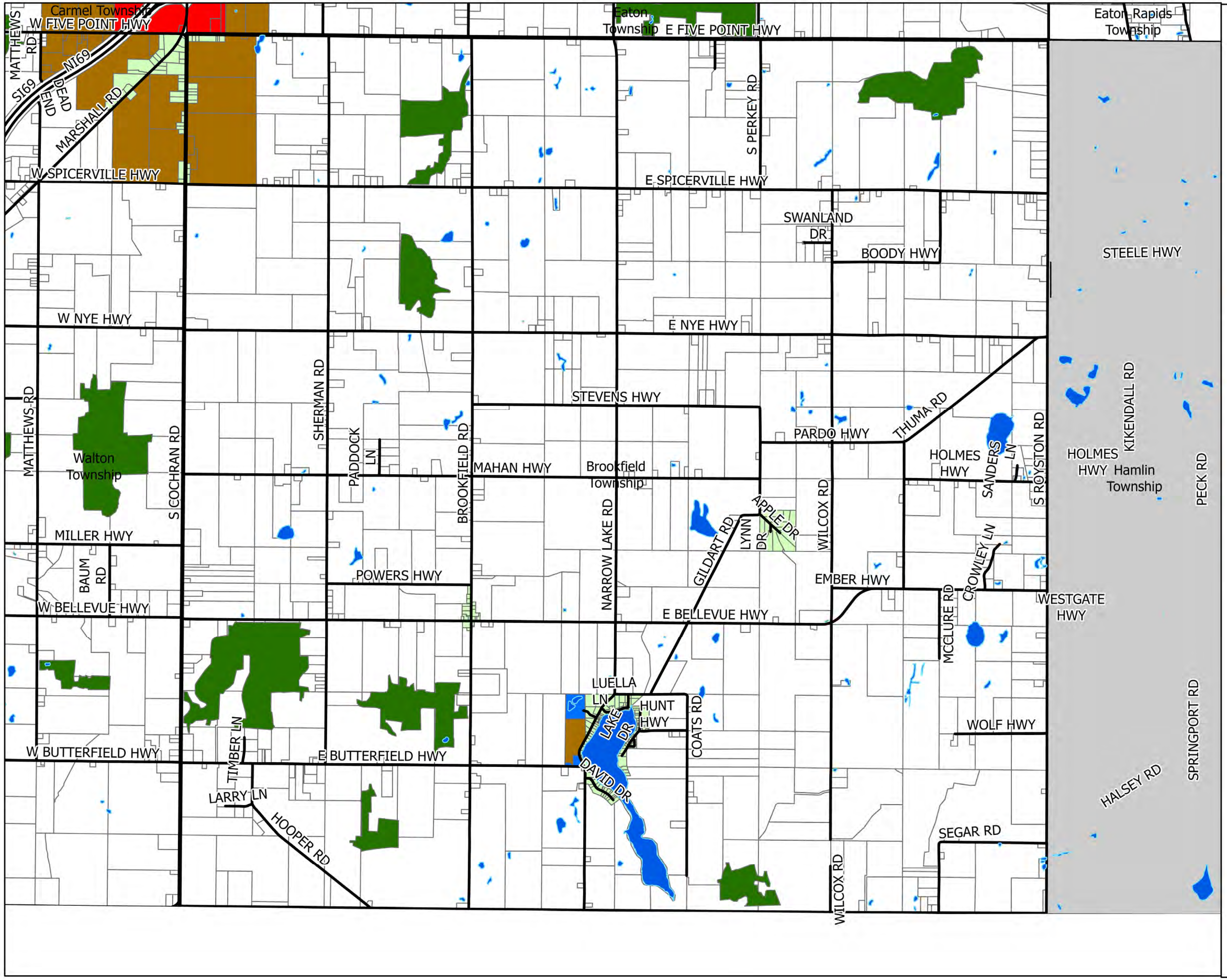

Brookfield Township Future Land Use

Legend

- Water Bodies
- Roads

Future Land Use

- Resource Conservation
- Agricultural Preservation
- General Business
- Industrial
- Local Business
- Rural Residential
- Secondary Agricultural
- Not Under County Zoning

N

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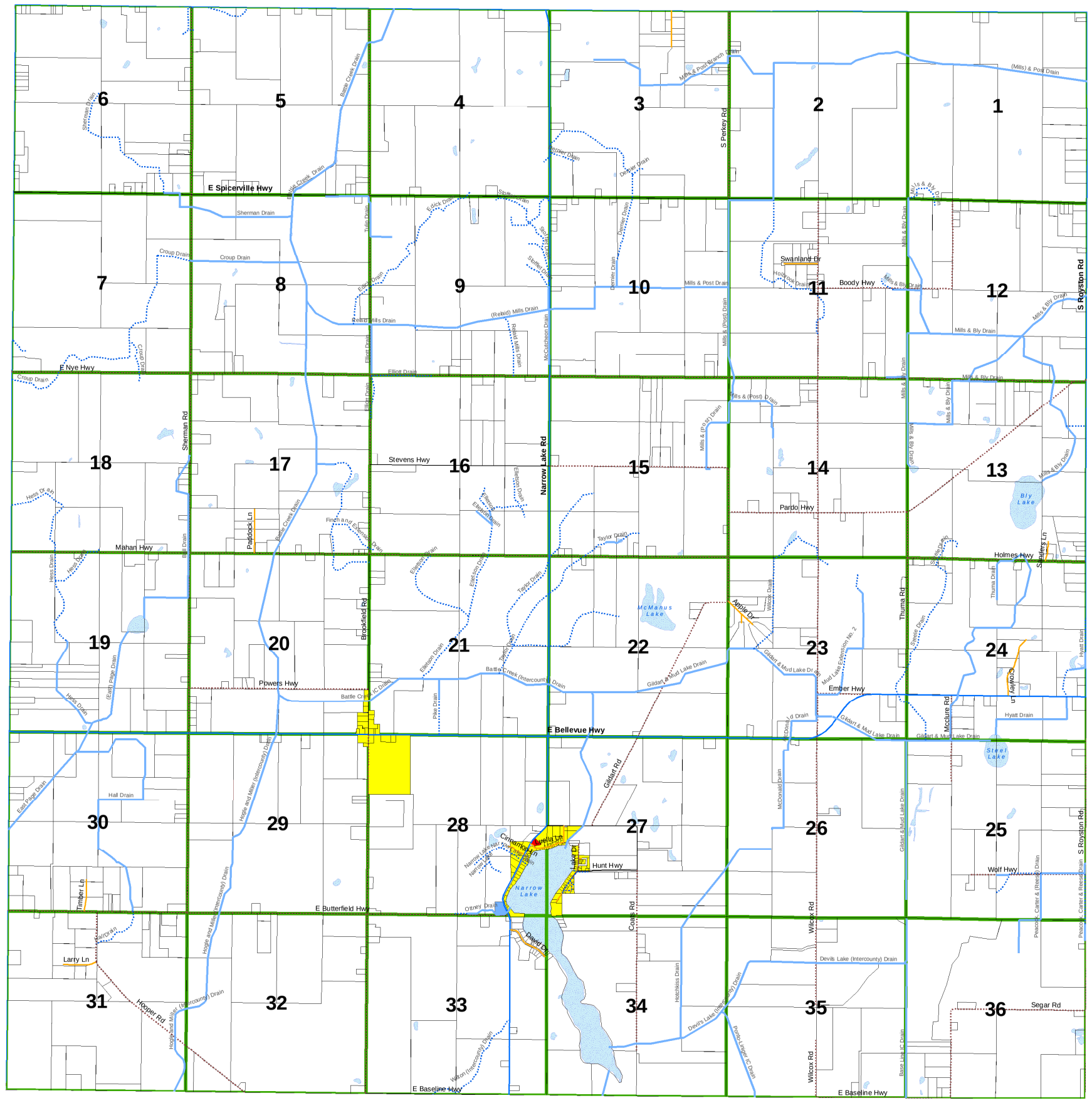


Eaton County Community Development

Brookfield Township Zoning Map

Zoning

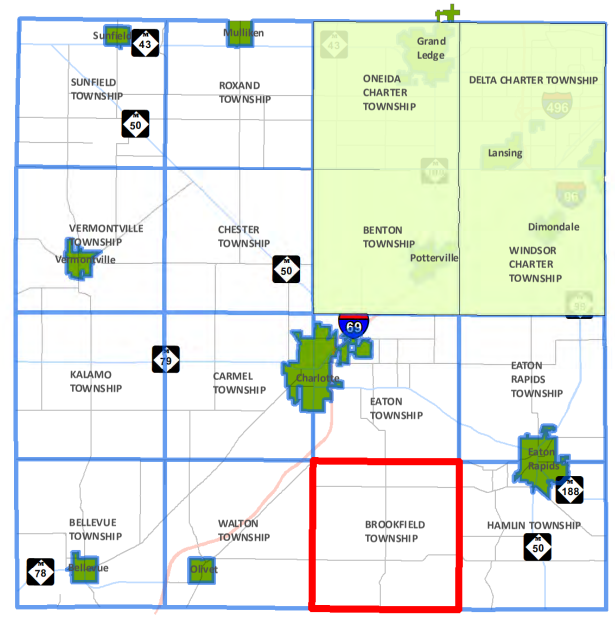
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



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Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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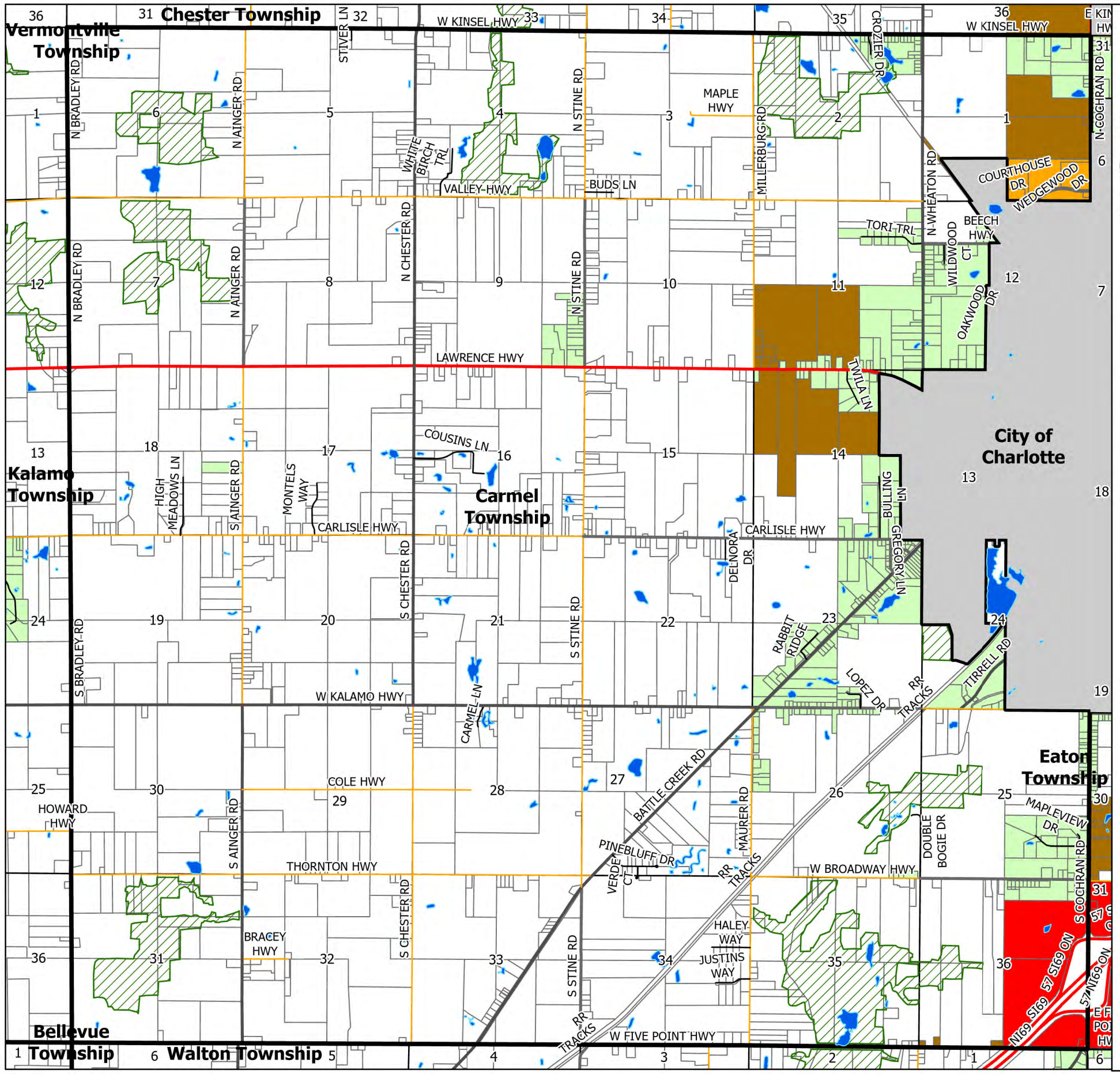

2023 Master Plan Update: Carmel Township Future Land Use

Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

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Carmel Township Future Land Use

Legend

- Water Bodies
- Roads
- Future Land Use
- Resource Conservation
- Agricultural Preservation
- General Business
- Industrial
- Local Business
- Rural Residential
- Secondary Agricultural
- Not Under County Zoning

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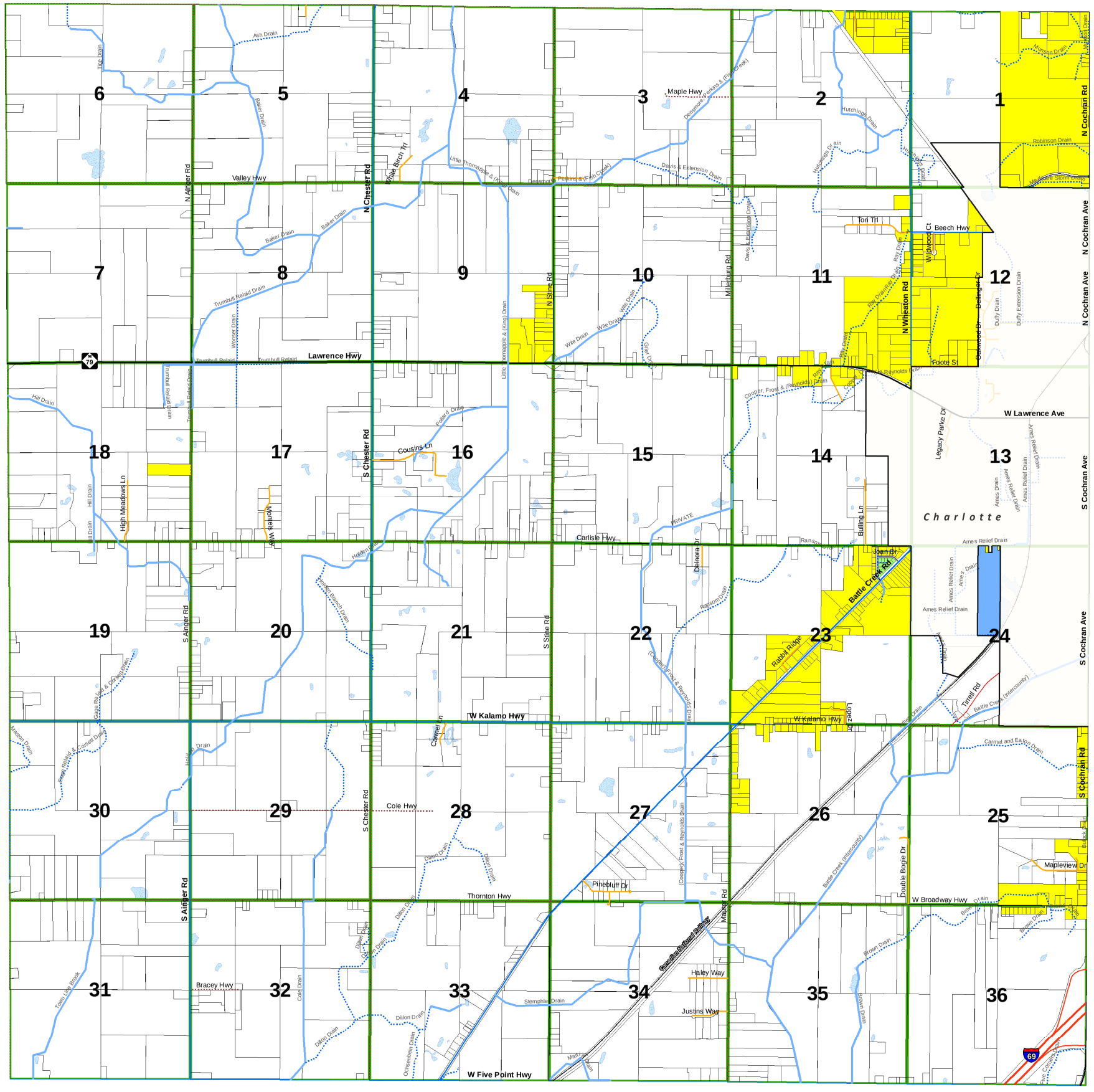
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Valley Hwy
Lawrence Hwy
Maple Hwy
Carlisle Hwy
W Kalamo Hwy
Cole Hwy
Thornton Hwy
W Broadway Hwy
Bracey Hwy
W Five Point Hwy
W Beech Hwy
Foote St
W Lawrence Ave
Charlotte
N Cochran Ave
S Cochran Ave
N Cochrain Rd
S Cochrain Rd
N Wheaton Rd
N Alaiger Rd
S Alaiger Rd
N Chester Rd
S Chester Rd
N Stine Rd
S Stine Rd
Battle Creek Rd
Tod Trl
Timrill Rd
Legacy Parke Dr
Maplewood Dr
Pinehurst Dr
Double Bogie Dr
Justins Way
Haley Way
Cousins Ln
High Meadows Ln
Rabbit Ridge
Ames Relief Drain
Baker Drain
Trombley Relief Drain
Dillon Drain
Cole Drain
Carmel and Eaton Drain
Battle Creek (Intercounty)
Gratiot-Mineral Road
Miller Rd
Millerburg Rd
Lapeer Rd
Tod Drain
Aich Drain
Hill Drain
Hutchings Drain
Rubsamen Drain
Davis & Extension Drain
Little Thornapple & (Kooy) Drain
Wile Drain
Wilcox Drain
Bellingham Dr
Duffy Drain
Duffy Extension Drain
Legacy Parke Dr
Ames Drain
Ames Relief Drain
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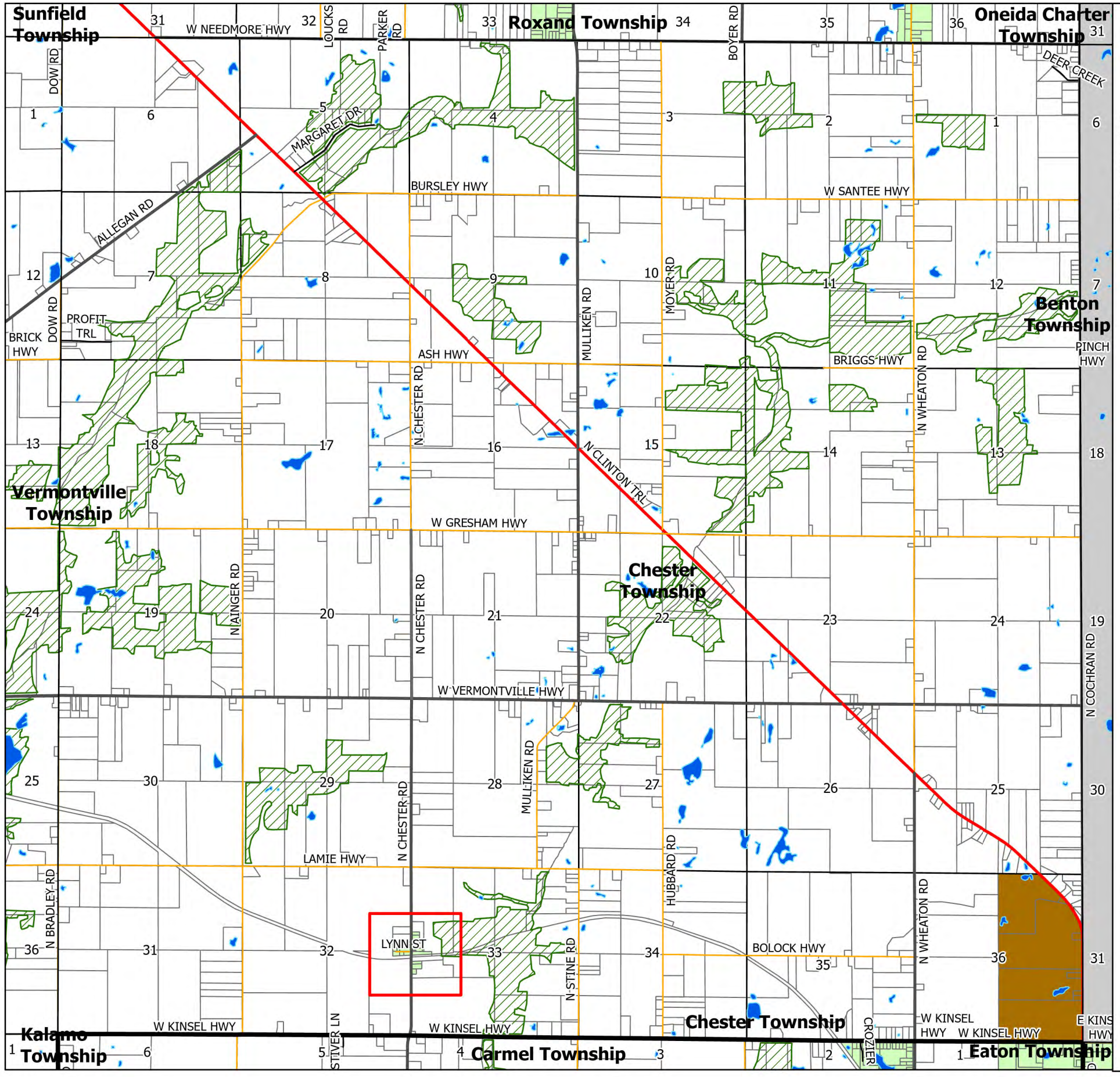
2023 Master Plan Update: Chester Township Future Land Use



Legend

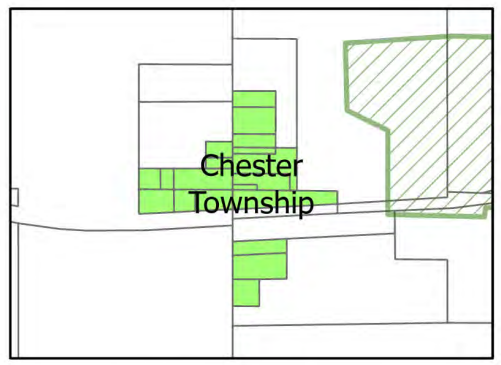
- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning



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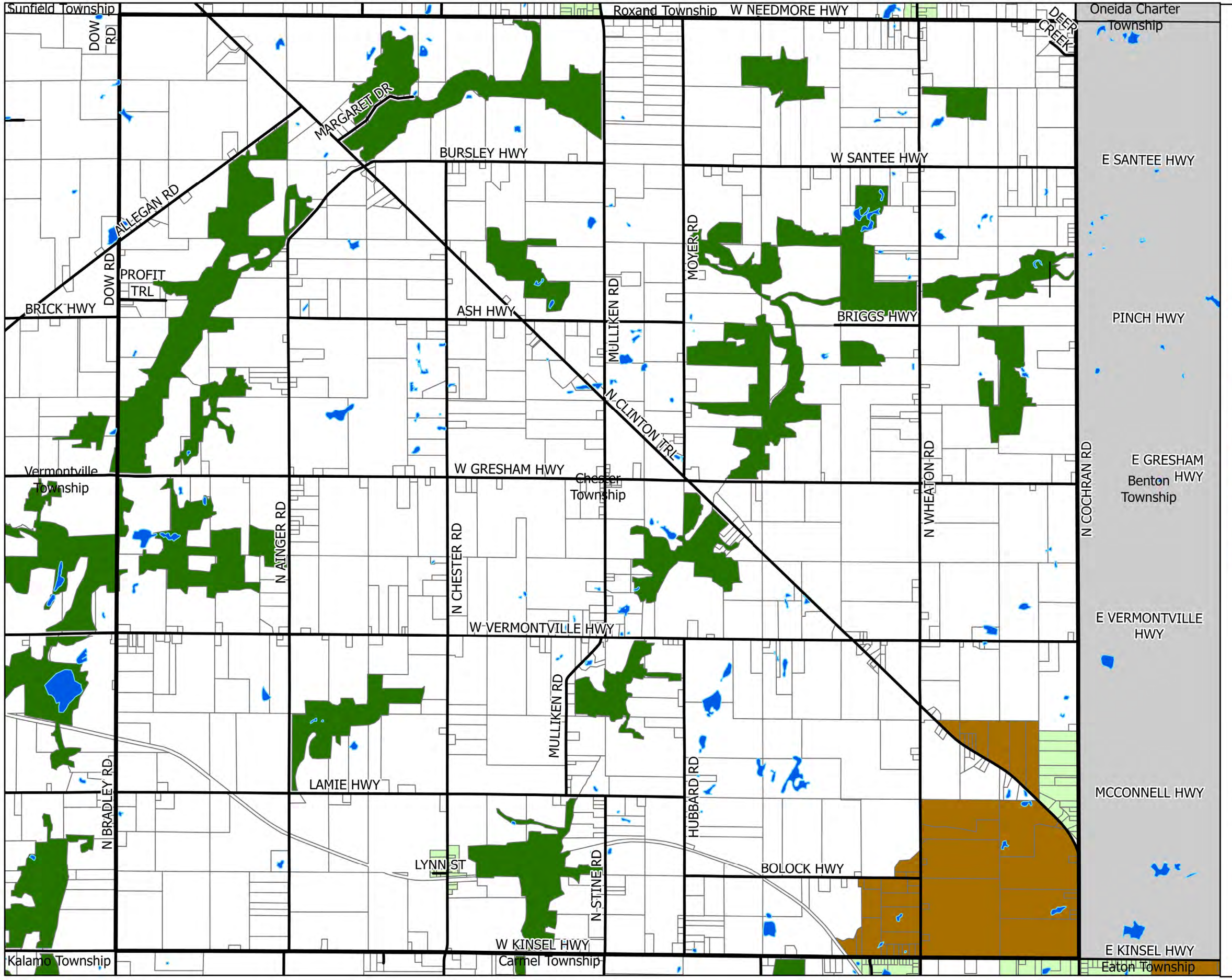
Chester Township Future Land Use



Legend

- Water Bodies
- Roads

Future Land Use

- Resource Conservation
- Agricultural Preservation
- General Business
- Industrial
- Local Business
- Rural Residential
- Secondary Agricultural
- Not Under County Zoning

N

0 0.35 0.7 1.4 Miles

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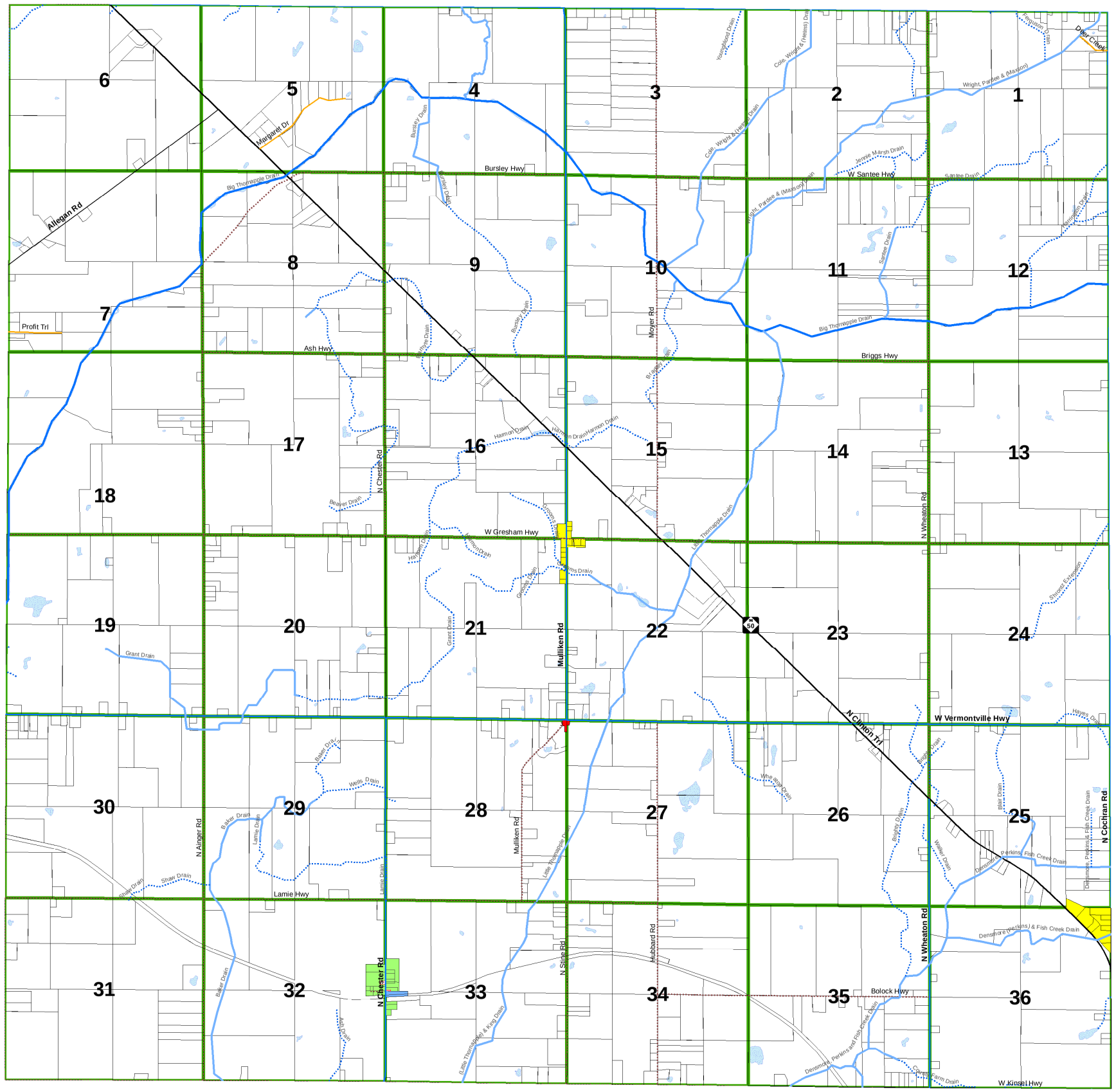


Eaton County Community Development

Chester Township Zoning Map

Zoning

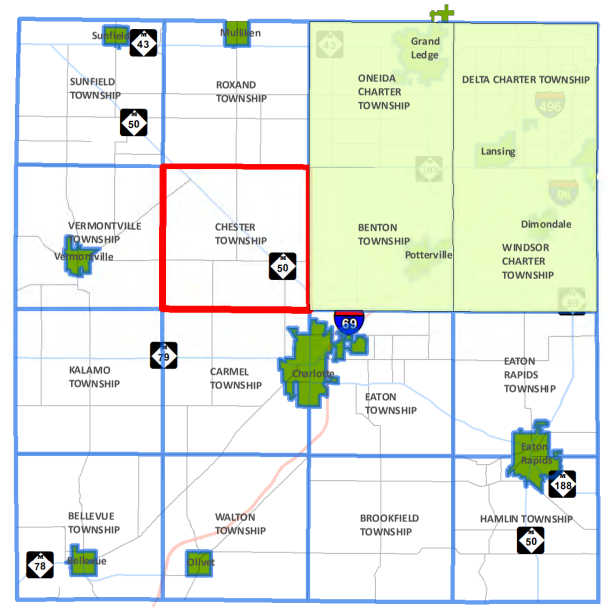
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



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1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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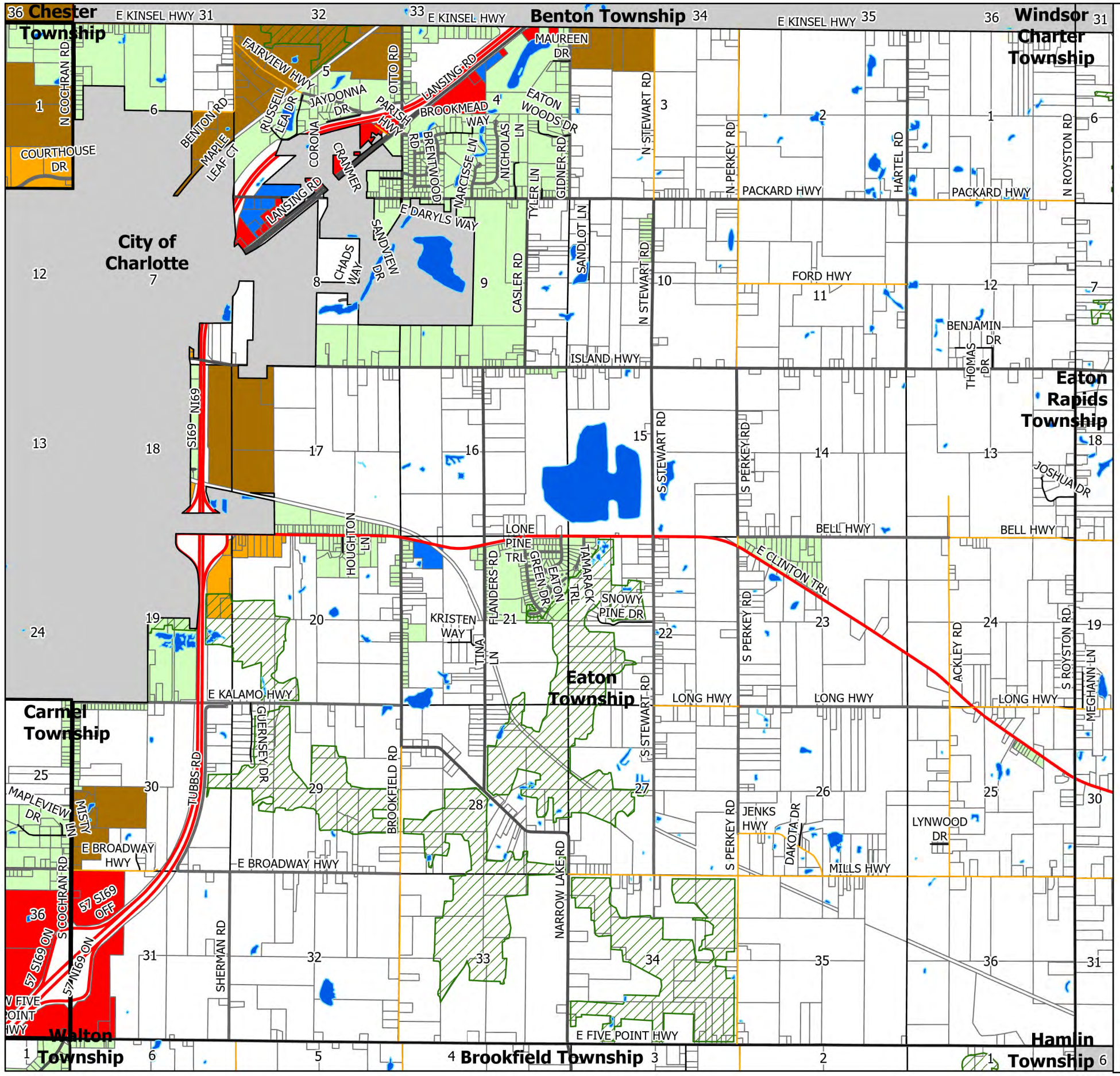
2023 Master Plan Update: Eaton Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

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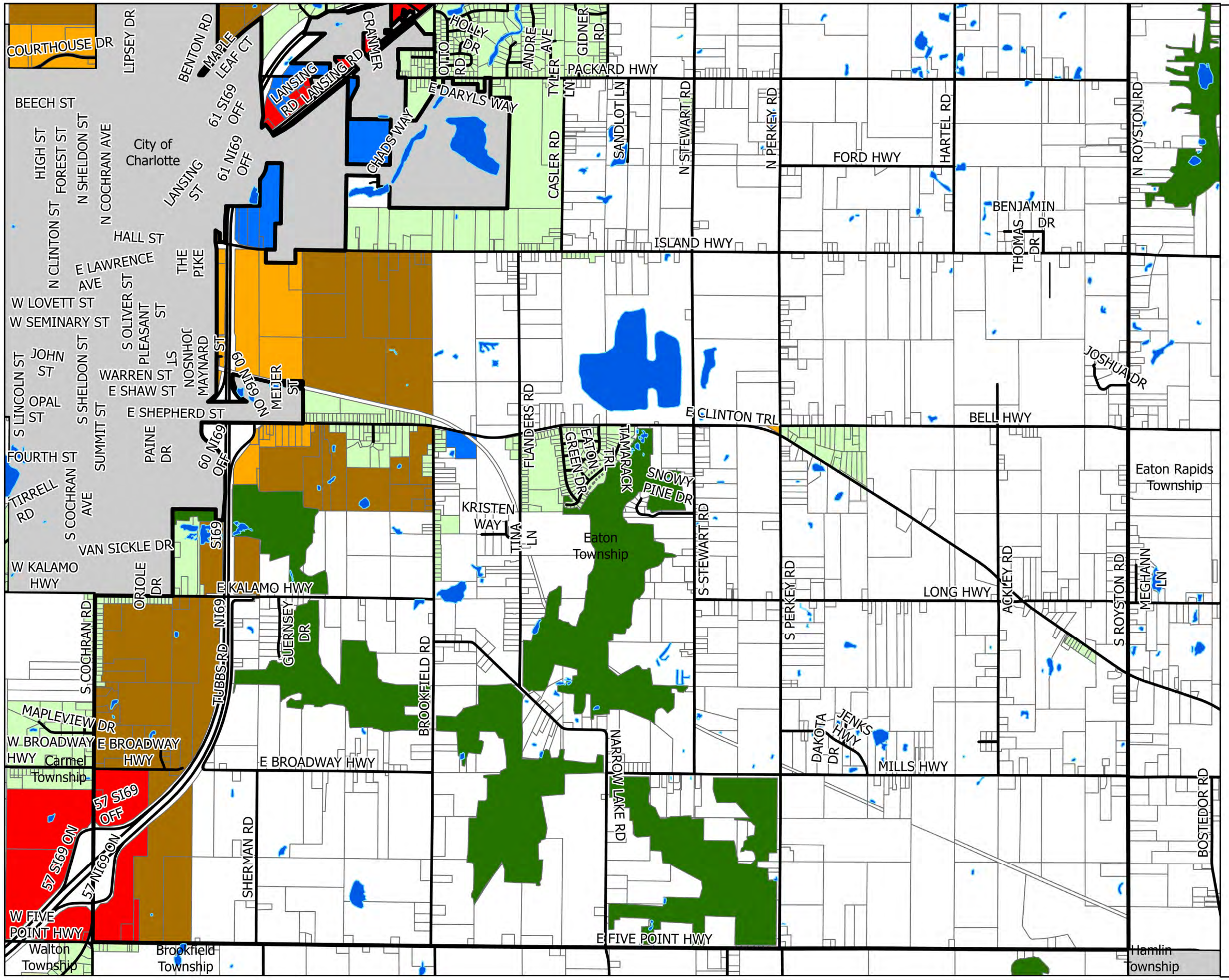

Eaton Township Future Land Use

Legend

- Water Bodies
- Roads

Future Land Use

- Resource Conservation
- Agricultural Preservation
- General Business
- Industrial
- Local Business
- Rural Residential
- Secondary Agricultural
- Not Under County Zoning

N

0 0.33 0.65 1.3 Miles

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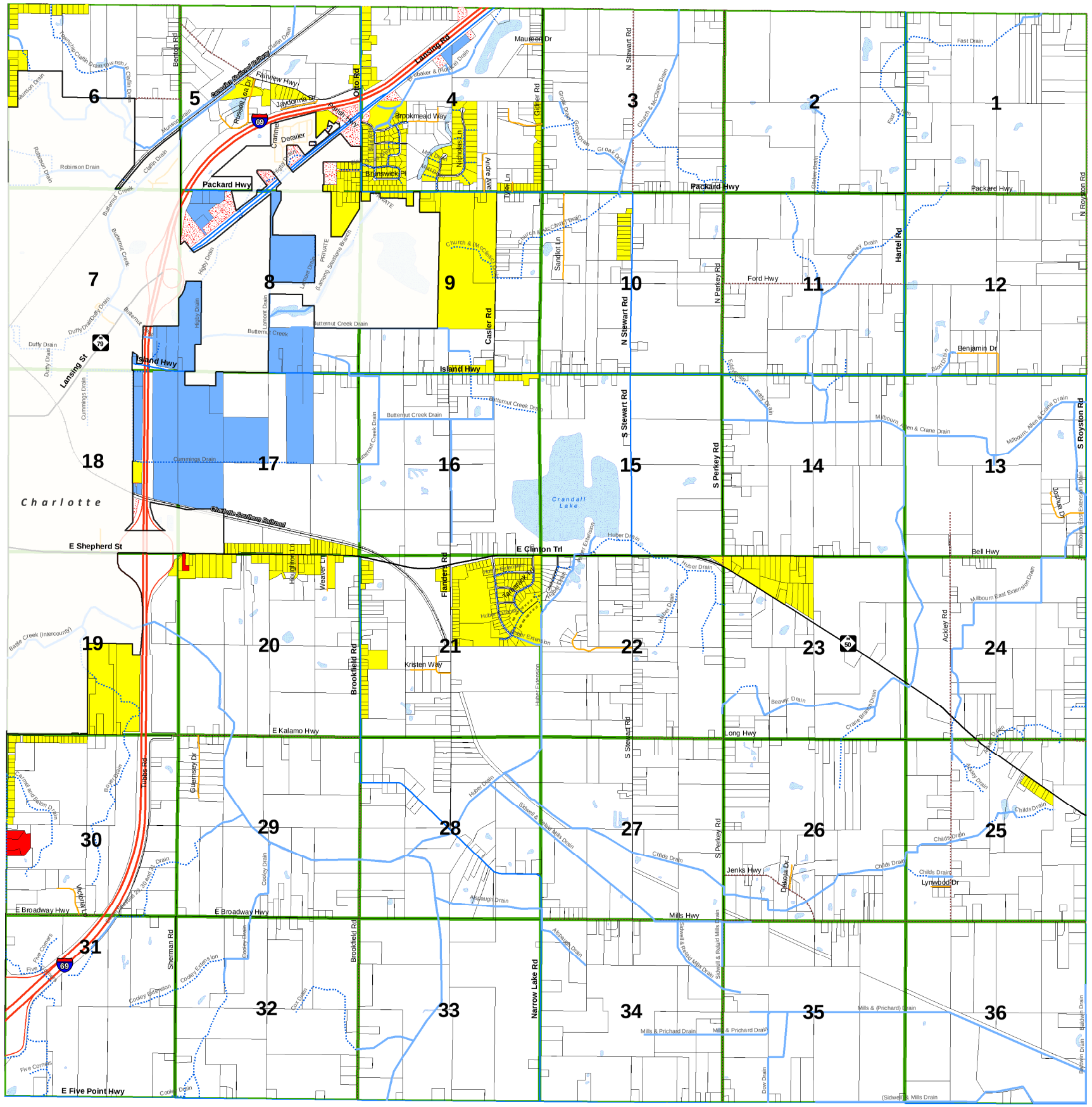
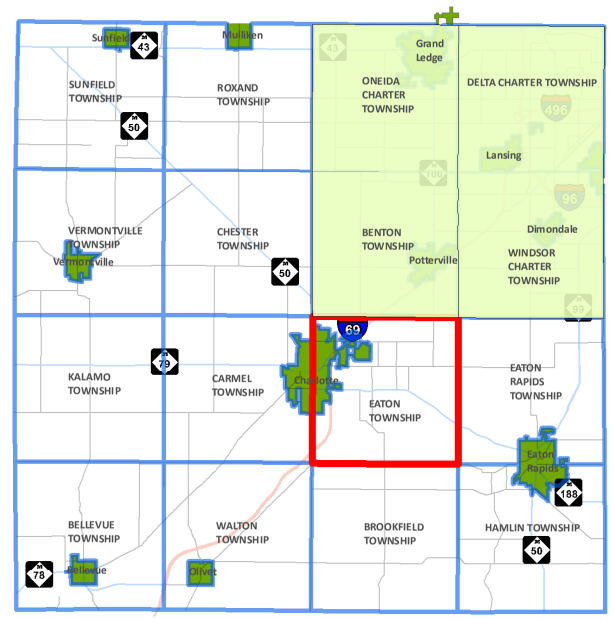


Eaton County Community Development

Eaton Township Zoning Map

Zoning		County Drain		Roads	
LA		Open Drain		City	
R1		Tile Drain		CLP	
R2		River		CPP	
C1		City/Village		Interstate	
C2		Section Lines		Interstate Ramp	
I		Waterbodies		Private	
RC		Railroads		State	
				Unpaved	



0 750 1,500 3,000 4,500 6,000 Feet

1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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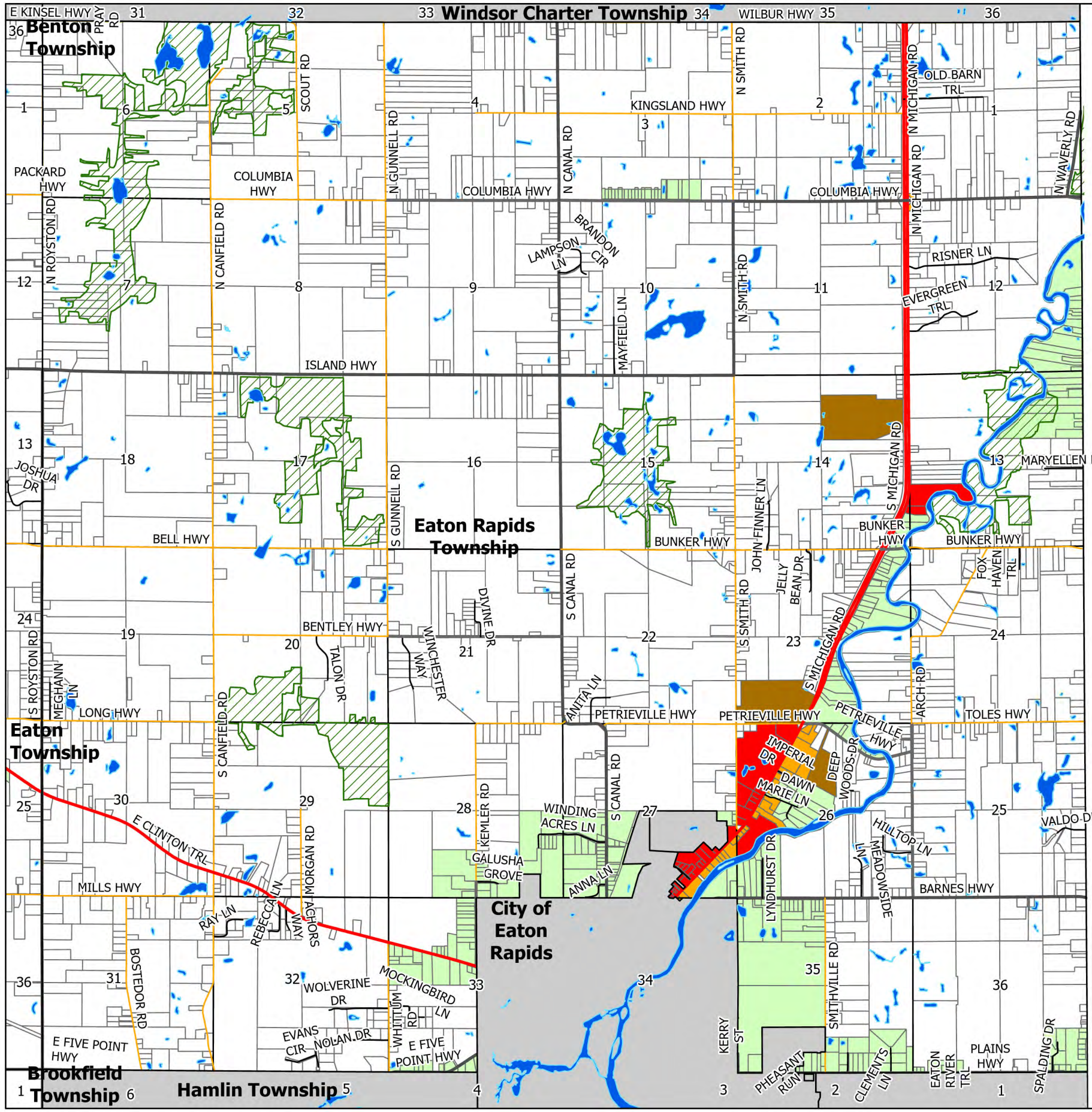
2023 Master Plan Update: Eaton Rapids Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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Eaton Rapids Township Future Land Use

Legend

- Water Bodies
- Roads

Future Land Use

- Resource Conservation
- Agricultural Preservation
- General Business
- Industrial
- Local Business
- Rural Residential
- Secondary Agricultural
- Not Under County Zoning

0 0.35 0.7 1.4 Miles

N

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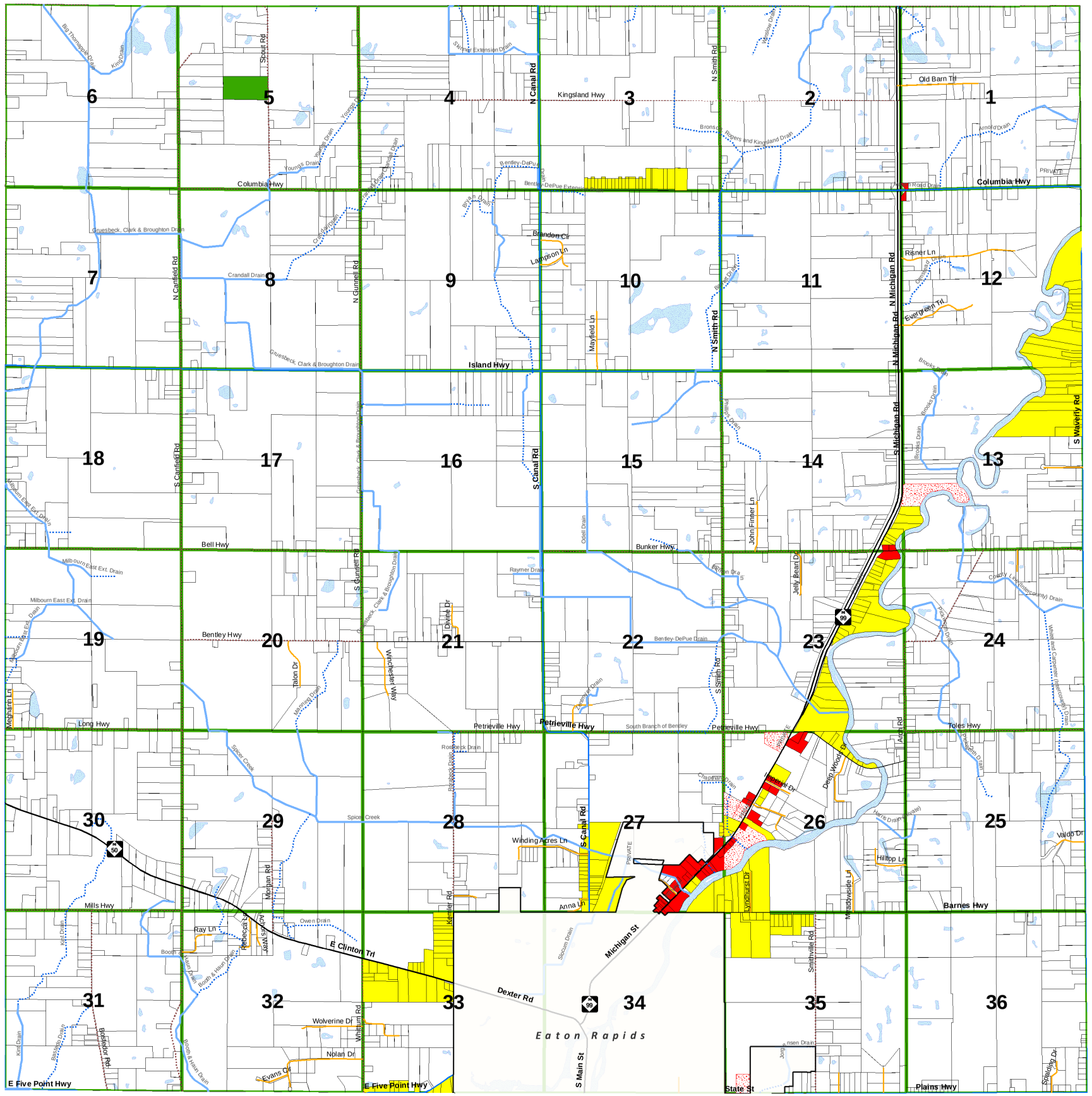
Date Exported: 9/6/2023

Path: Q:\Engineering\Reference\GIS_Data\Eaton County\Master_Plan\Township FLU Review.aprx



Eaton County Community Development

Eaton Rapids Township Zoning Map

Zoning	County Drain	Roads
LA	Open Drain	City
R1	Tile Drain	CLP
R2	River	CPP
C1	City/Village	Interstate
C2	Section Lines	Interstate Ramp
I	Waterbodies	Private
RC	Railroads	State
		Unpaved

0 750 1,500 3,000 4,500 6,000 Feet

1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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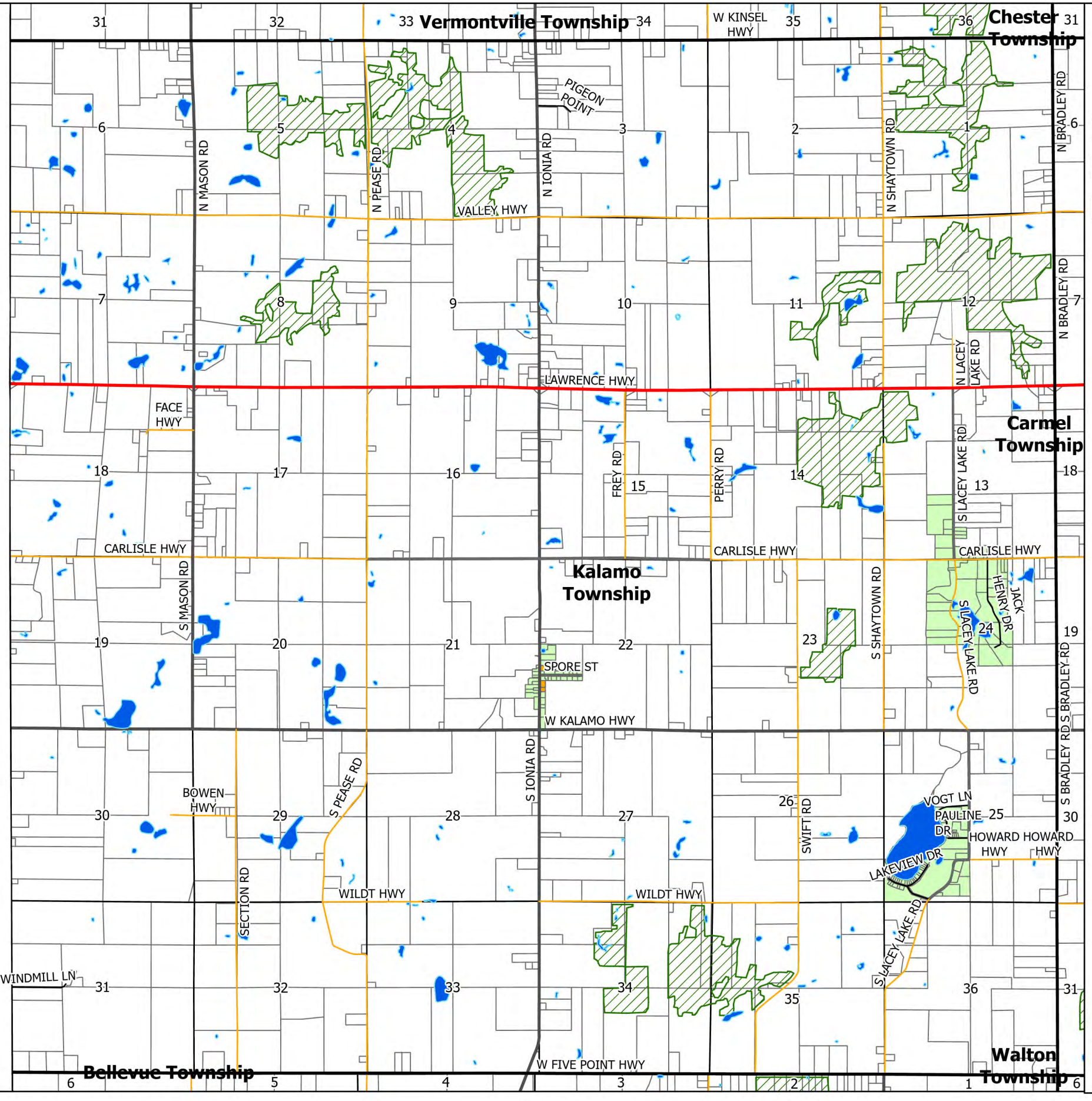
2023 Master Plan Update: Kalamo Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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Path: Q:\Engineering\Reference\GIS_Data\Eaton County\Master_Plan\Township FLU Review.aprx

Kalamo Township Future Land Use

Legend

- Water Bodies
- Roads
- Future Land Use
  - Resource Conservation
  - Agricultural Preservation
  - General Business
  - Industrial
  - Local Business
  - Rural Residential
  - Secondary Agricultural
  - Not Under County Zoning

N

0 0.35 0.7 1.4 Miles

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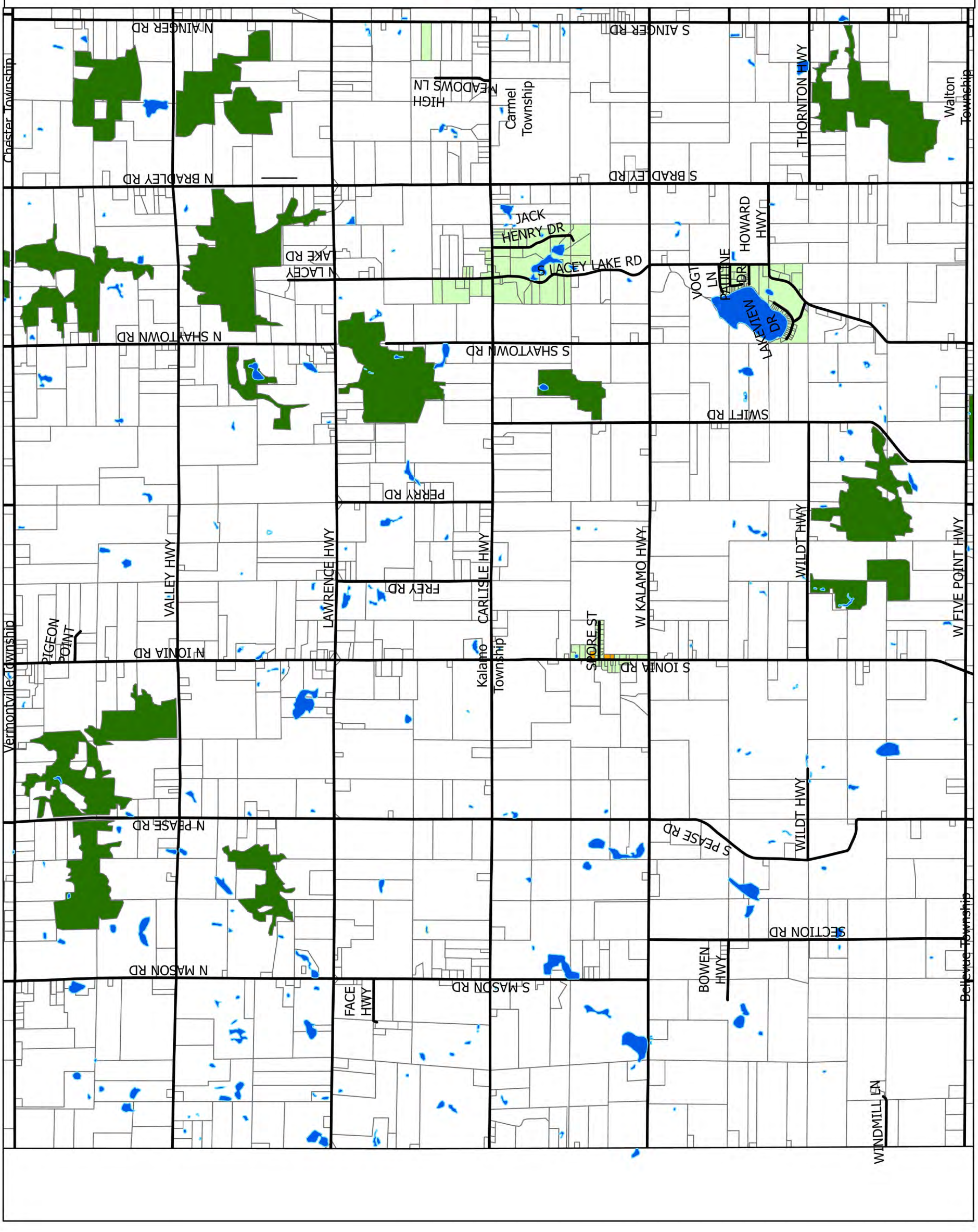
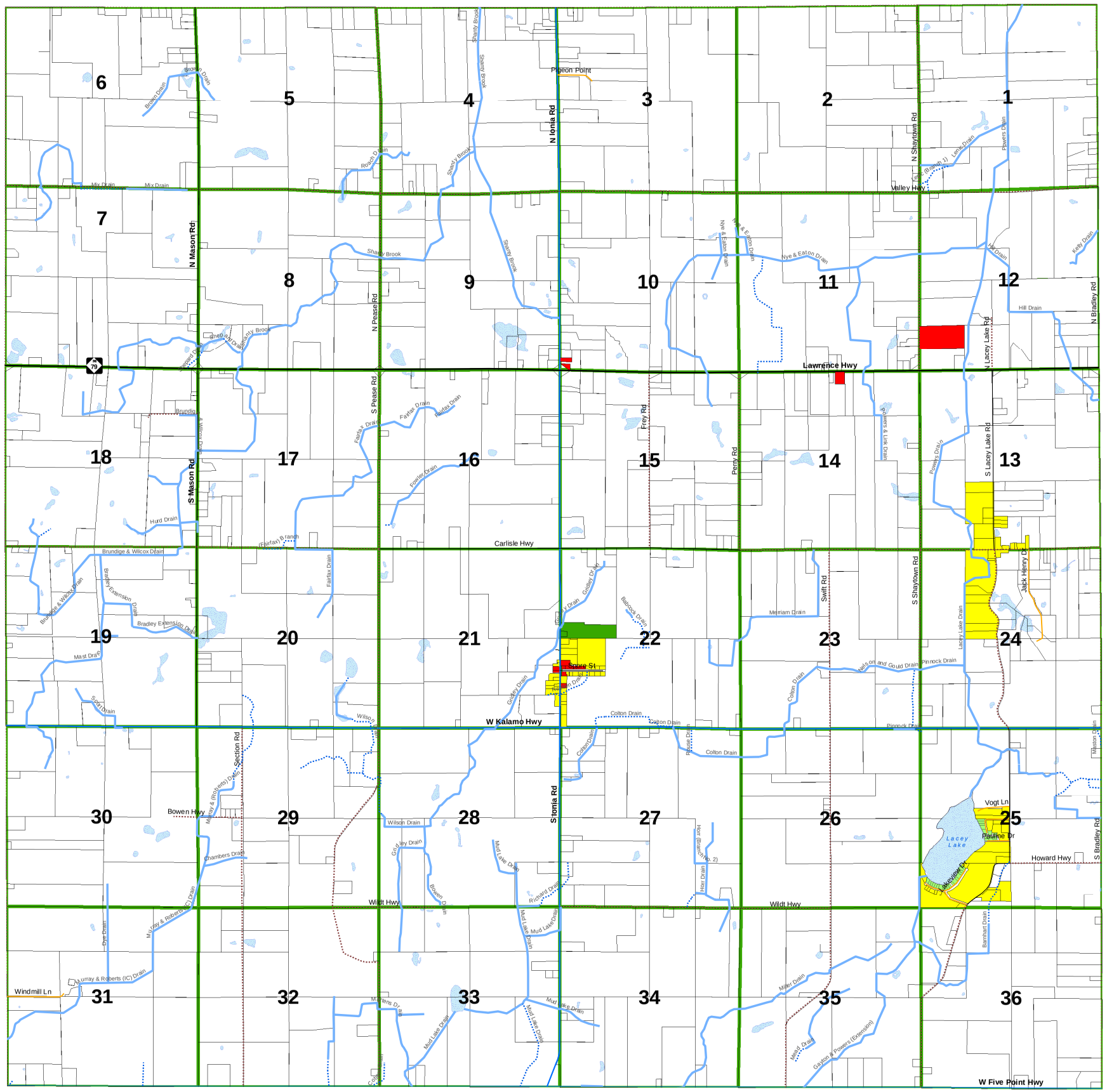




Eaton County Community Development

Kalamo Township Zoning Map

Zoning

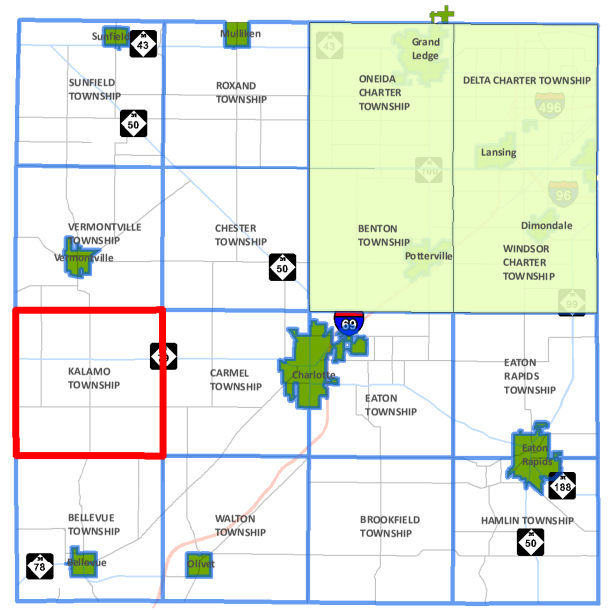
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



0 750 1,500 3,000 4,500 6,000 Feet

1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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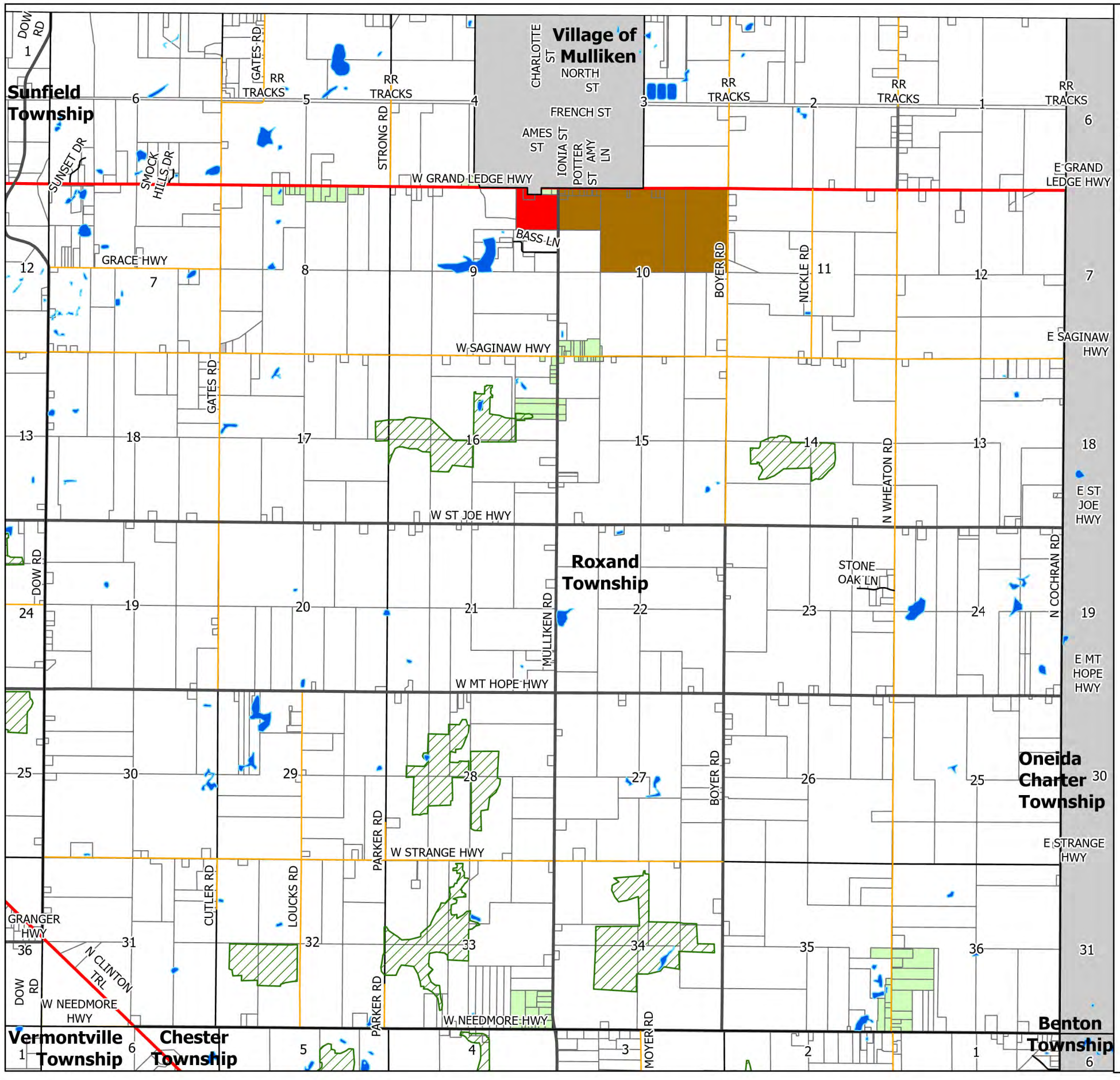
G:\Development_Environment\Information Systems\GIS_Jon\Projects\Jurisdiction\Eaton County\Community Development\zoning_maps\Kalamo_Zoning_Map.mxd - JLM

2023 Master Plan Update: Roxand Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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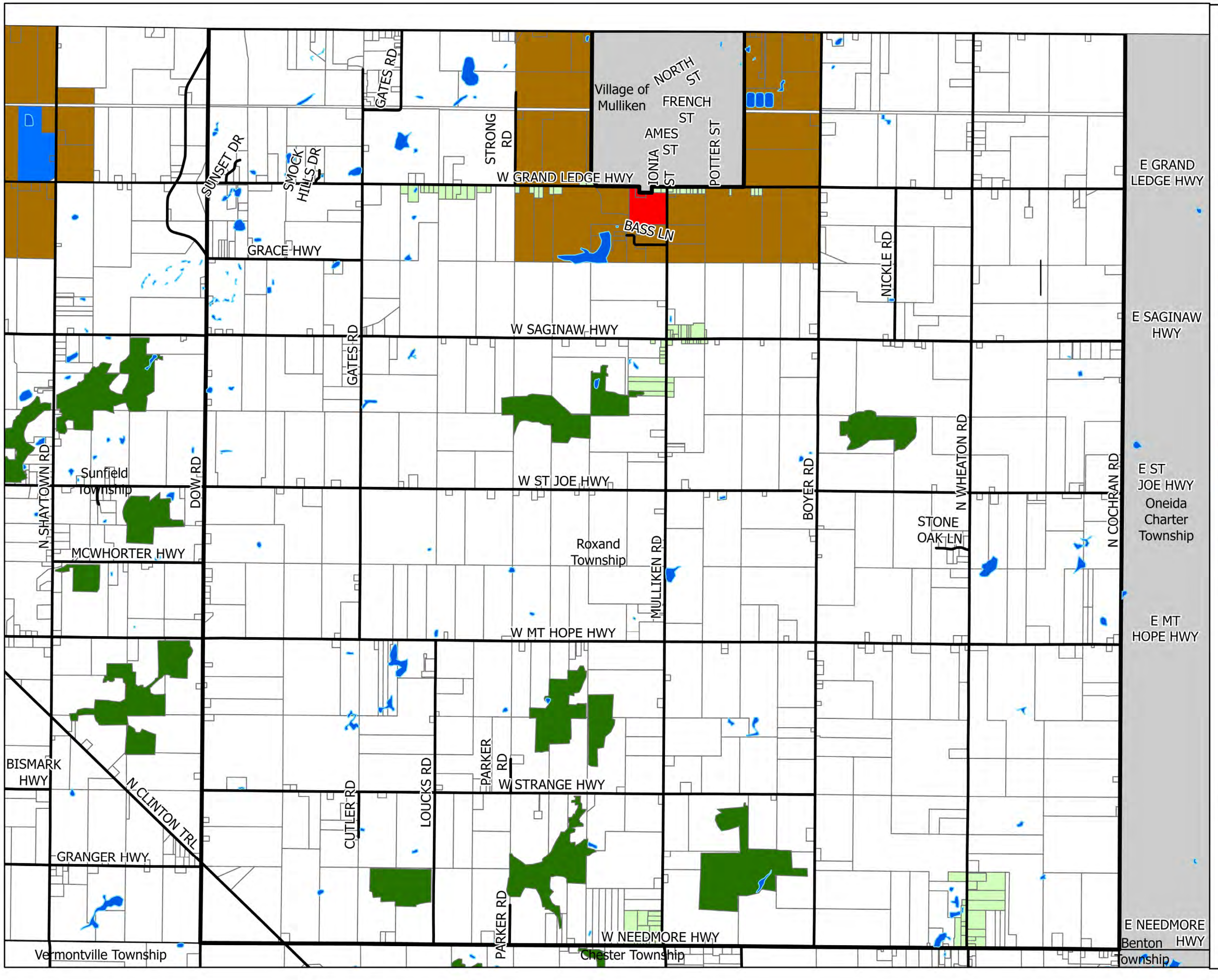
Roxand Township Future Land Use



Legend

- Water Bodies
- Roads

Future Land Use

- Resource Conservation
- Agricultural Preservation
- General Business
- Industrial
- Local Business
- Rural Residential
- Secondary Agricultural
- Not Under County Zoning

N

0 0.35 0.7 1.4 Miles

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Date Exported: 9/6/2023

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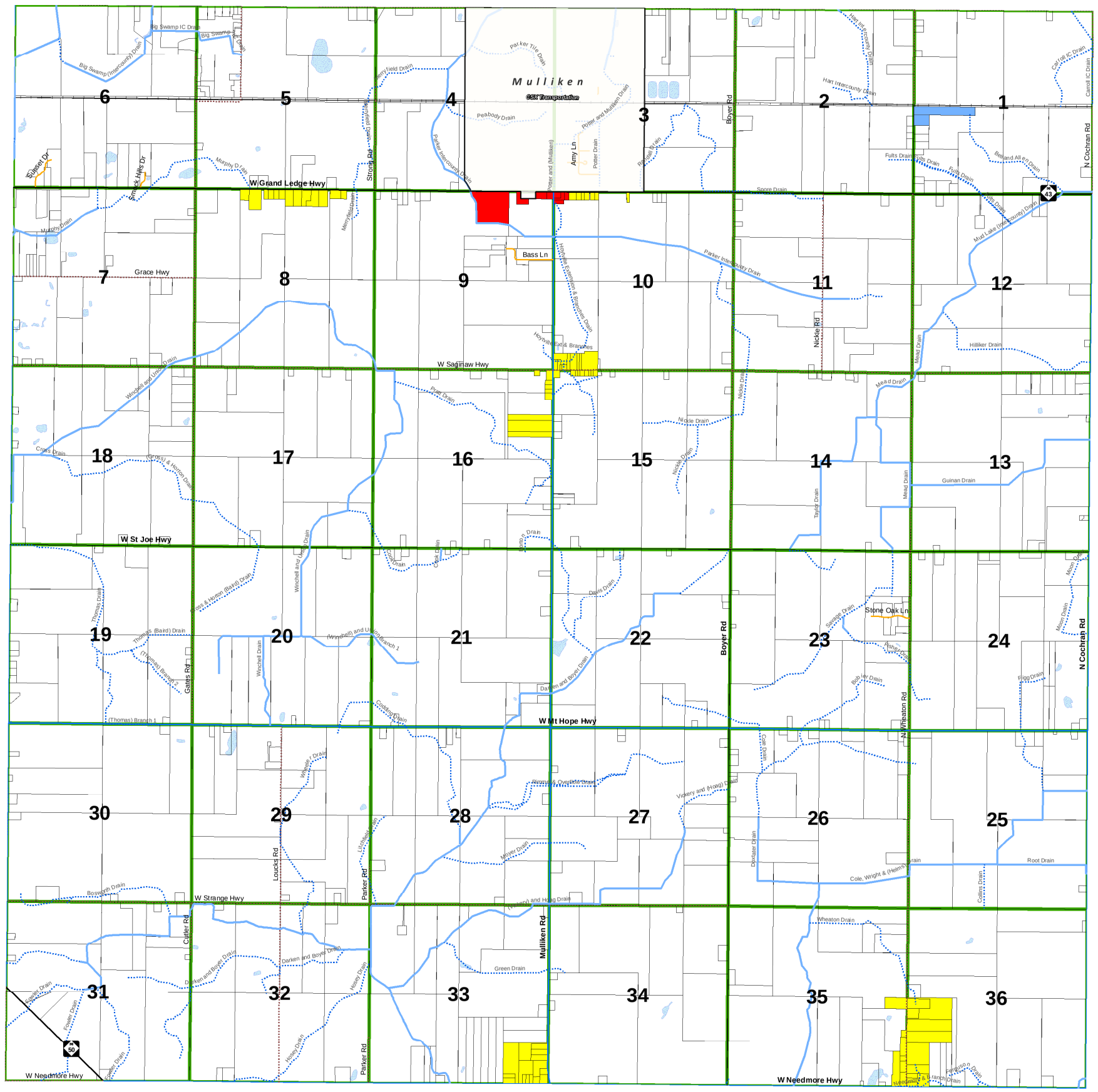


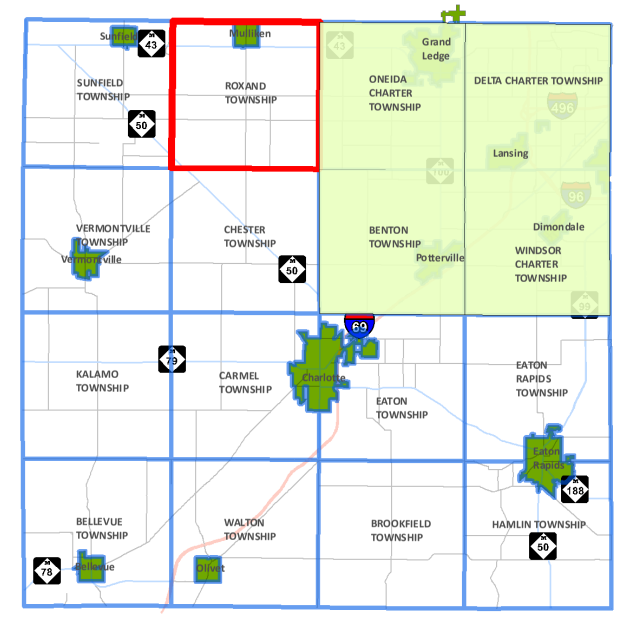
Eaton County Community Development

Roxand Township Zoning Map

Zoning
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain
- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads
- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



0 750 1,500 3,000 4,500 6,000 Feet

1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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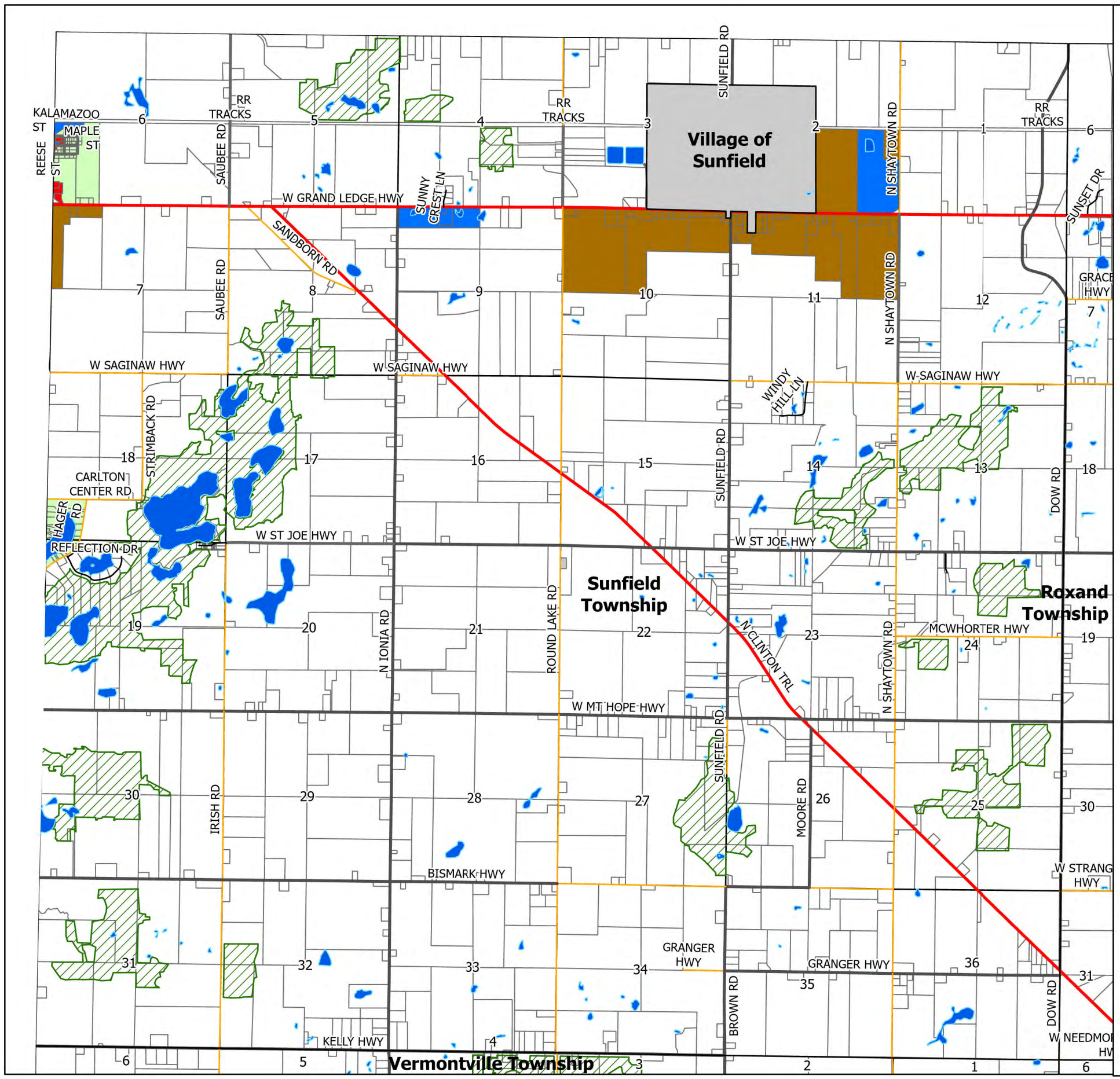
G:\Development_Environment\Information Systems\GIS_Xon\Projects\Jurisdiction\Eaton County\Community Development\Zoning_maps\Roxand_Zoning_Map.mxd - JLM

2023 Master Plan Update: Sunfield Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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Date Exported: 10/18/2023 3:38 PM

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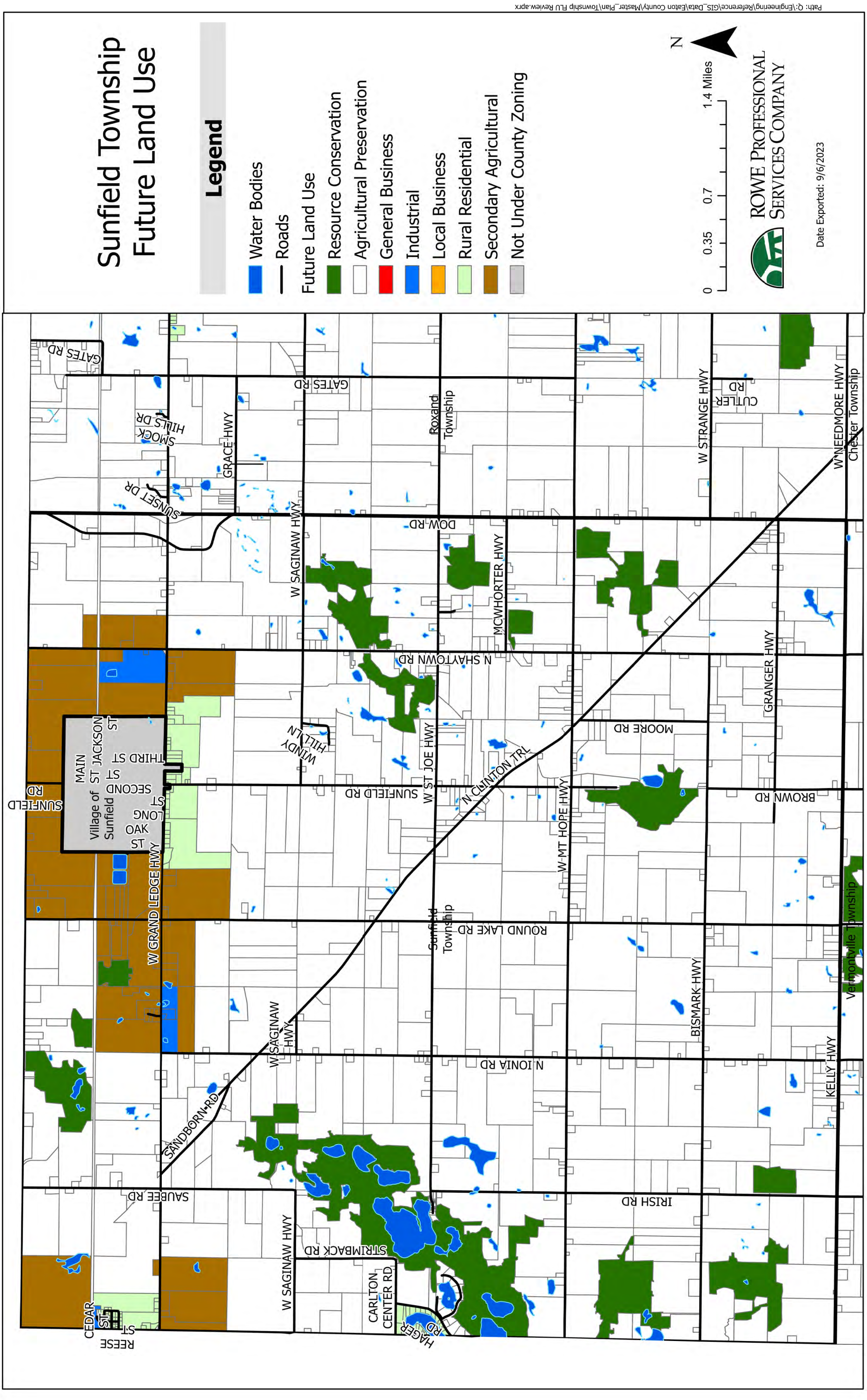
Sunfield Township
Future Land Use
Legend
Water Bodies
Roads
Future Land Use
Resource Conservation
Agricultural Preservation
General Business
Industrial
Local Business
Rural Residential
Secondary Agricultural
Not Under County Zoning
N
0
0.35
0.7
1.4 Miles
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Date Exported: 9/6/2023
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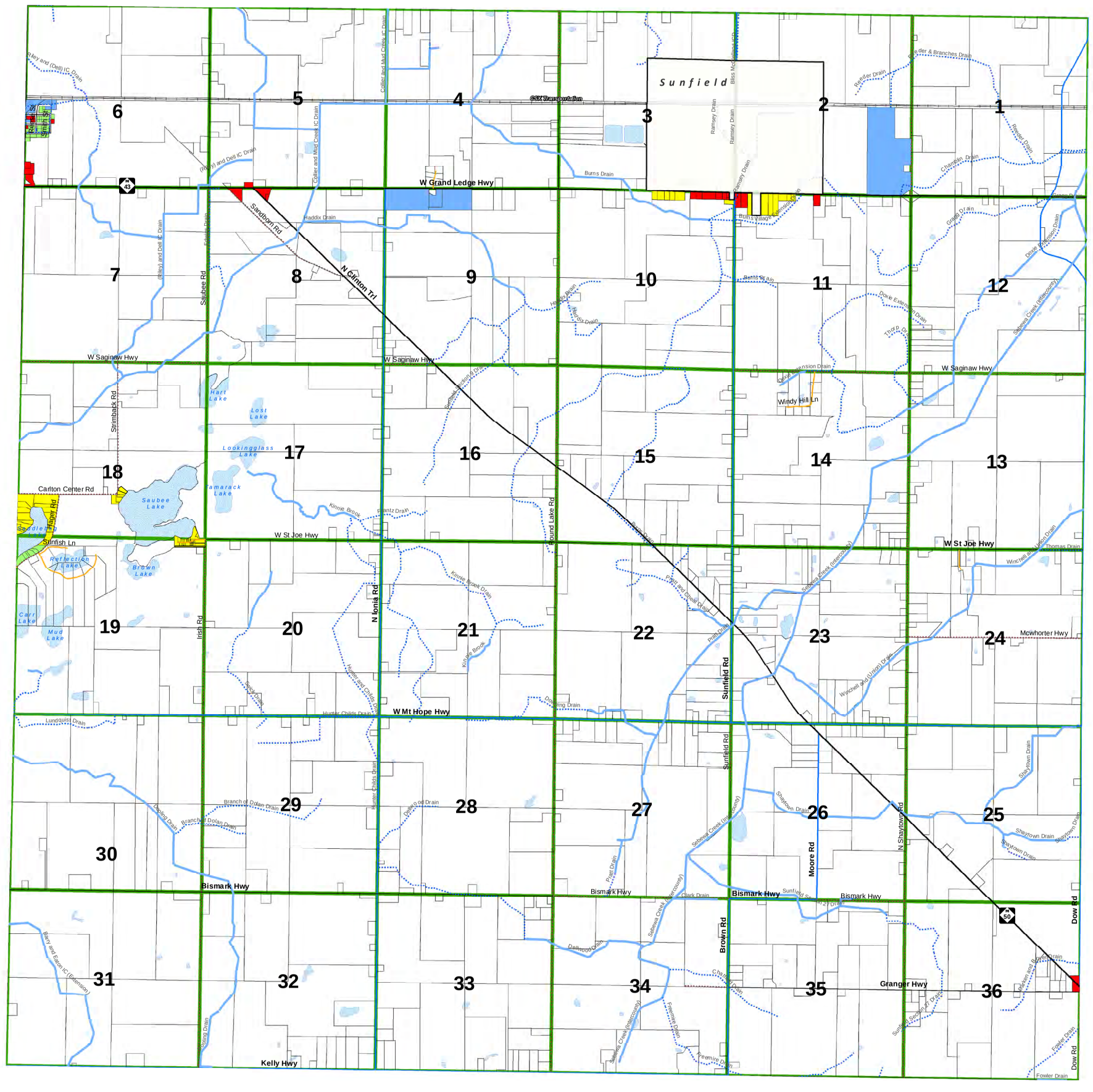
GATES RD
SMOCK HILLS DR
GRACE HWY
SUNSET DR
GATES RD
Roxand Township
CUTLER RD
W STRANGE HWY
W NEEDMORE HWY
Chester Township
DOW RD
W SAGINAW HWY
MCWHORTER HWY
N SHAYTOWN RD
GRANGER HWY
MOORE RD
WINDY HILL LN
W ST JOE HWY
SUNFIELD RD
N CLINTON TRL
BROWN RD
W MT HOPE HWY
MAIN ST
JACKSON ST
THIRD ST
SECOND ST
LONG
OAK ST
Village of Sunfield
SUNFIELD RD
W GRAND LEDGE HWY
ROUND LAKE RD
Sunfield Township
BISMARK HWY
Vermontville Township
KELLY HWY
W SAGINAW HWY
N IONIA RD
SANDBORN RD
SAUBEE RD
IRISH RD
STRIMBACK RD
CARLTON CENTER RD
HAGER RD
CEDAR ST
REESE ST



Eaton County Community Development

Sunfield Township Zoning Map

Zoning

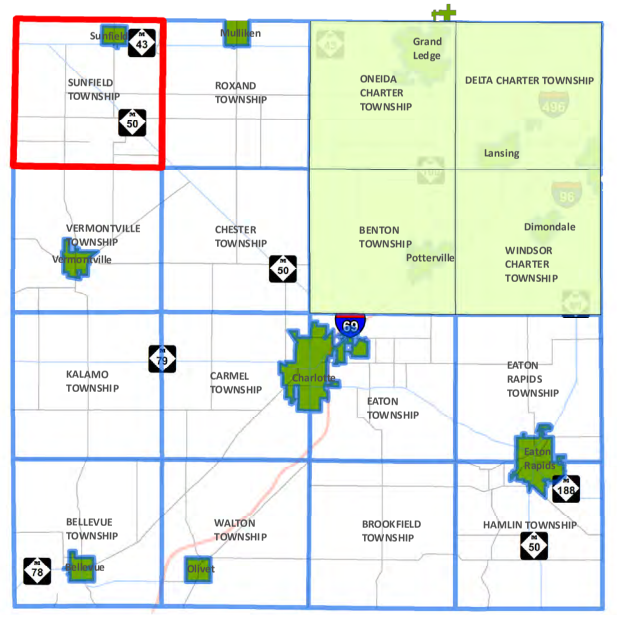
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



0 750 1,500 3,000 4,500 6,000 Feet

1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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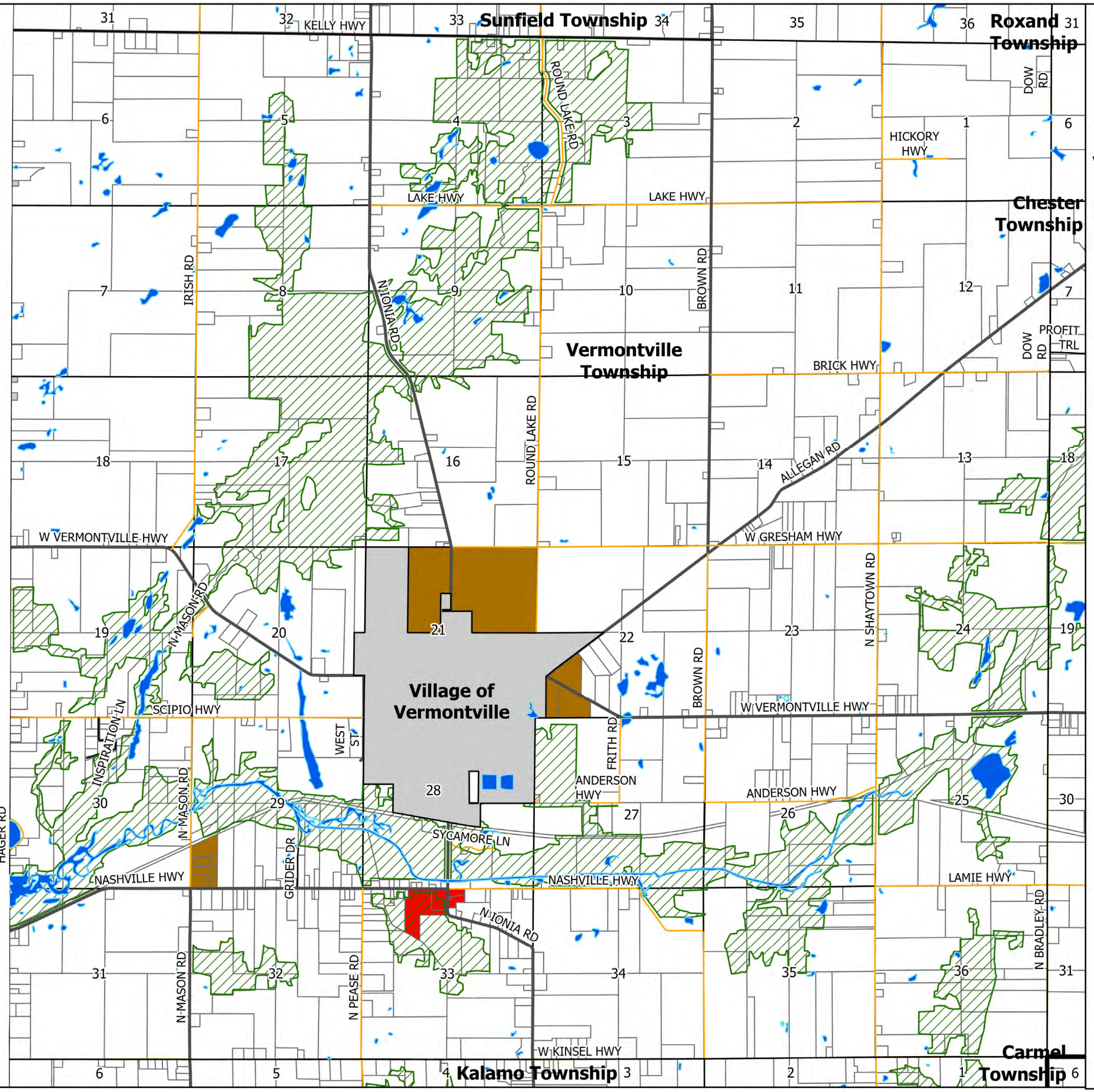
2023 Master Plan Update: Vermontville Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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Vermontville Township Future Land Use

Legend

- Water Bodies
- Roads
- Future Land Use
  - Resource Conservation
  - Agricultural Preservation
  - General Business
  - Industrial
  - Local Business
  - Rural Residential
  - Secondary Agricultural
  - Not Under County Zoning

N

0 0.35 0.7 1.4 Miles

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Date Exported: 9/5/2023

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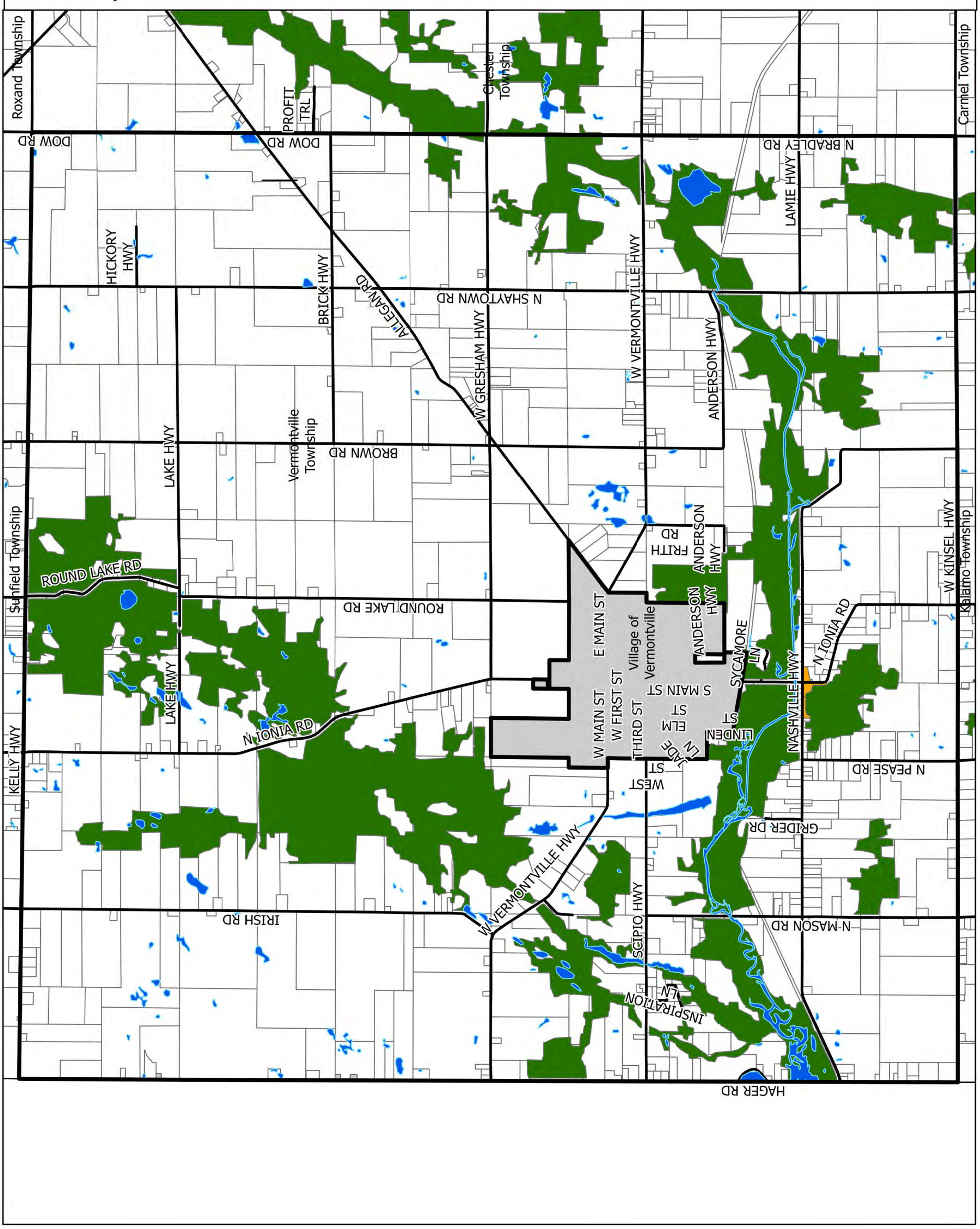
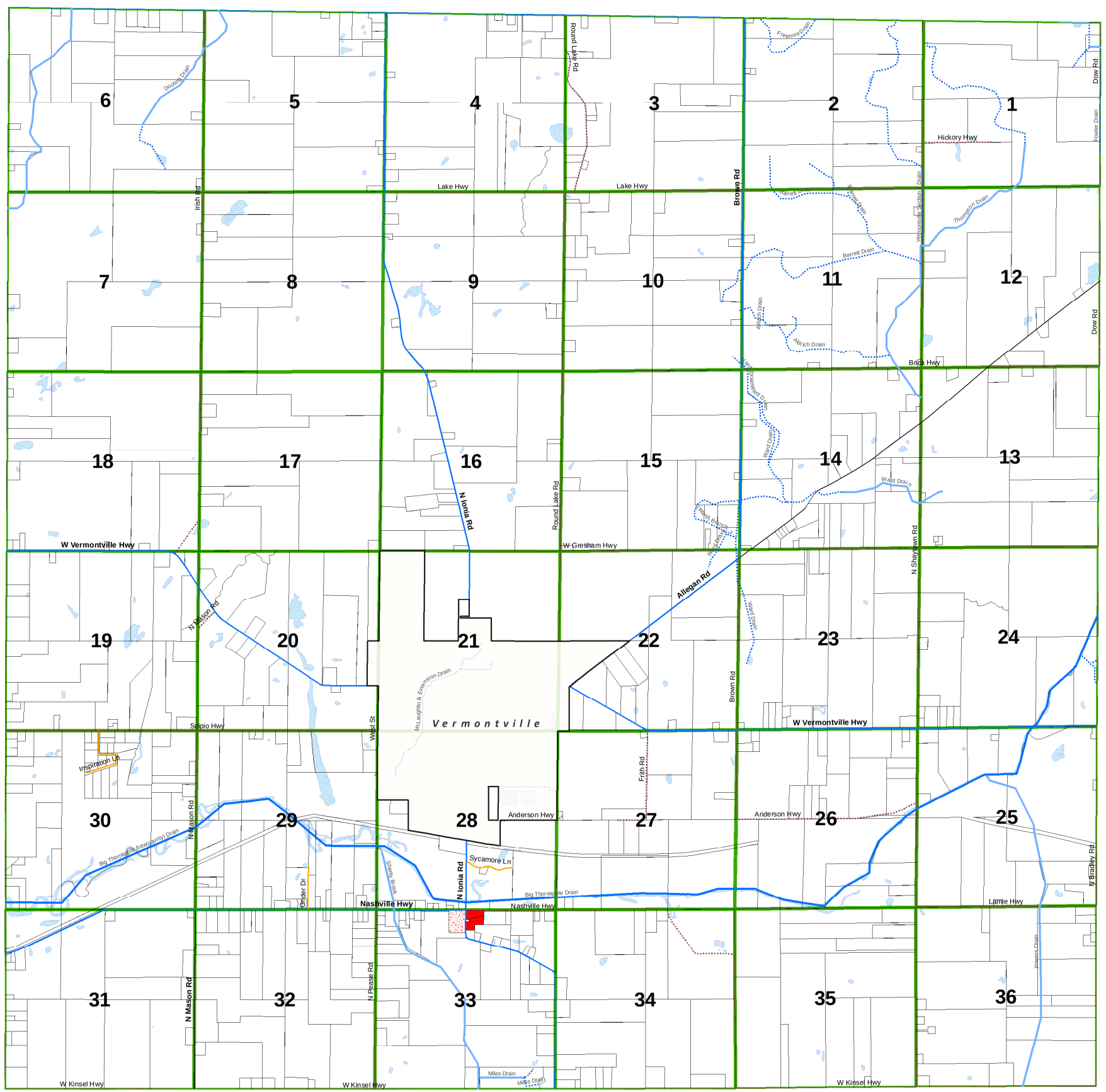




Eaton County Community Development

Vermontville Township Zoning Map

Zoning

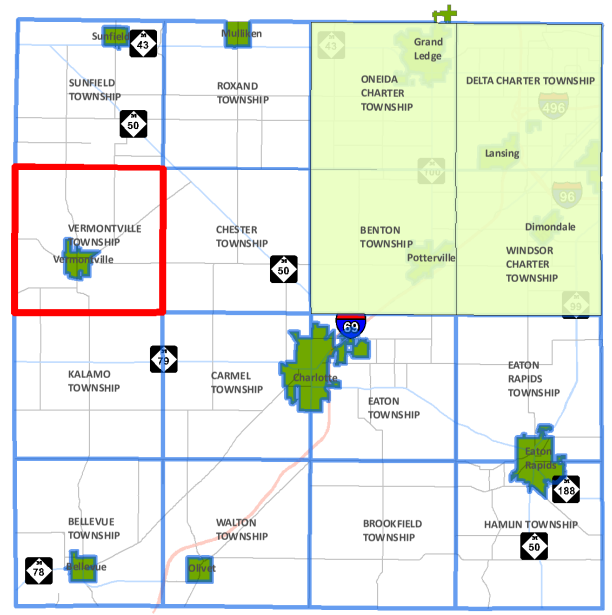
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



0 750 1,500 3,000 4,500 6,000 Feet

1 inch = 1,500 feet

Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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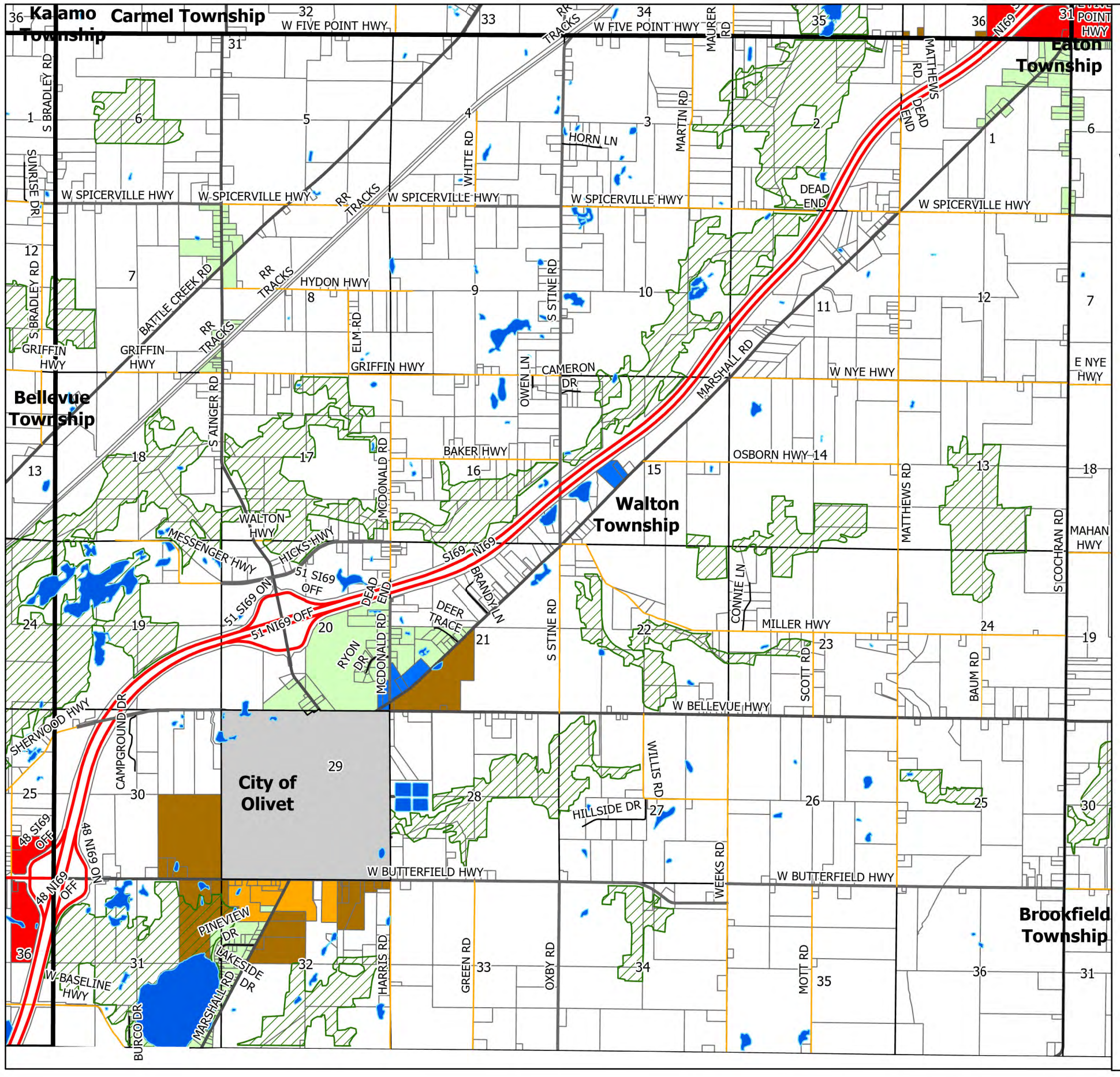
2023 Master Plan Update: Walton Township Future Land Use



Legend

- Water Bodies
- Section Lines

Roads

- Highway
- County/Local Road
- Unpaved
- Other

Future Land Use

- Agricultural Preservation
- Rural Residential
- Mixed-Use Transition
- Local Business
- General Business
- Industrial
- Resource Conservation
- Not Under County Zoning

0 0.5 1 2 Miles

N

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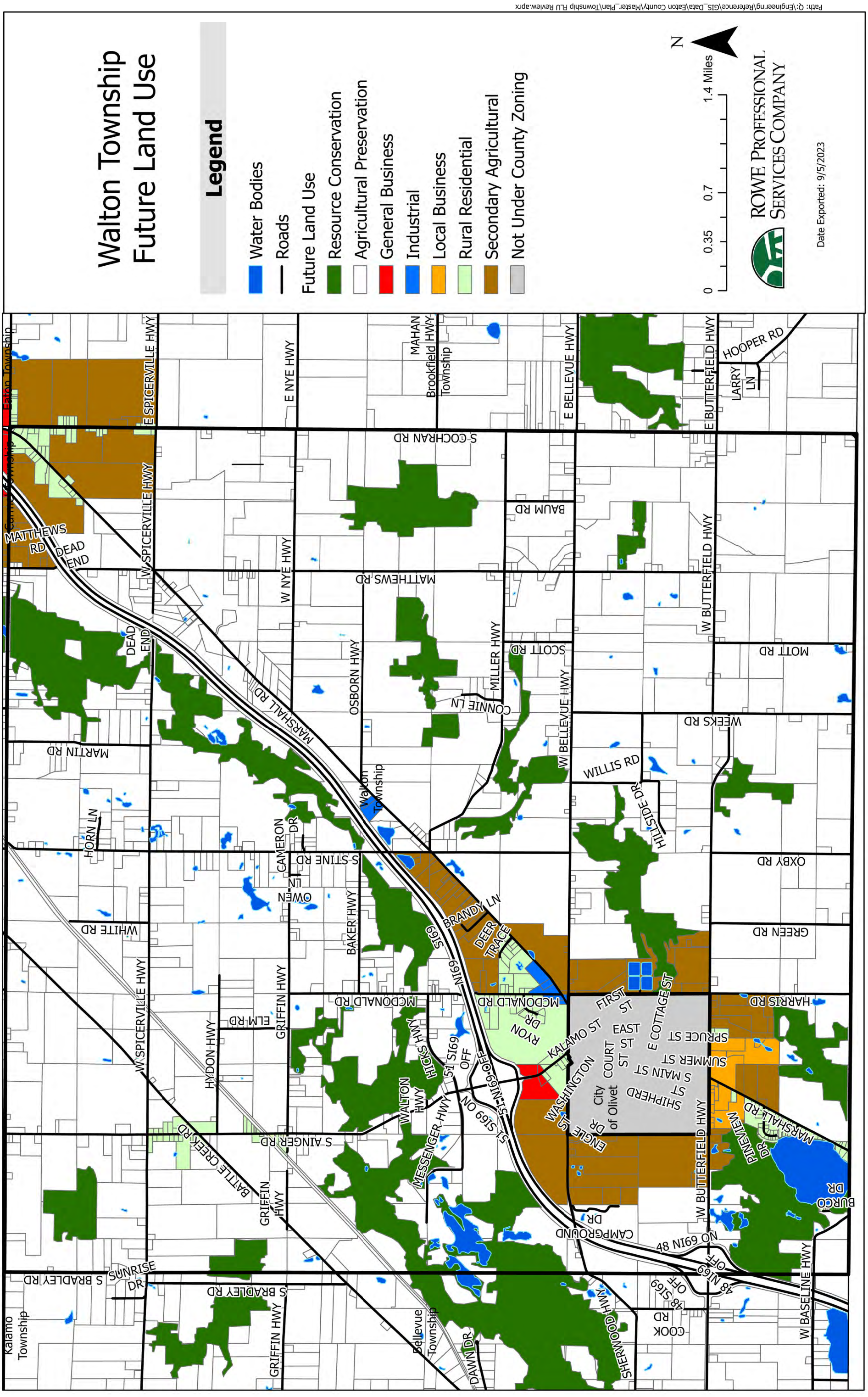
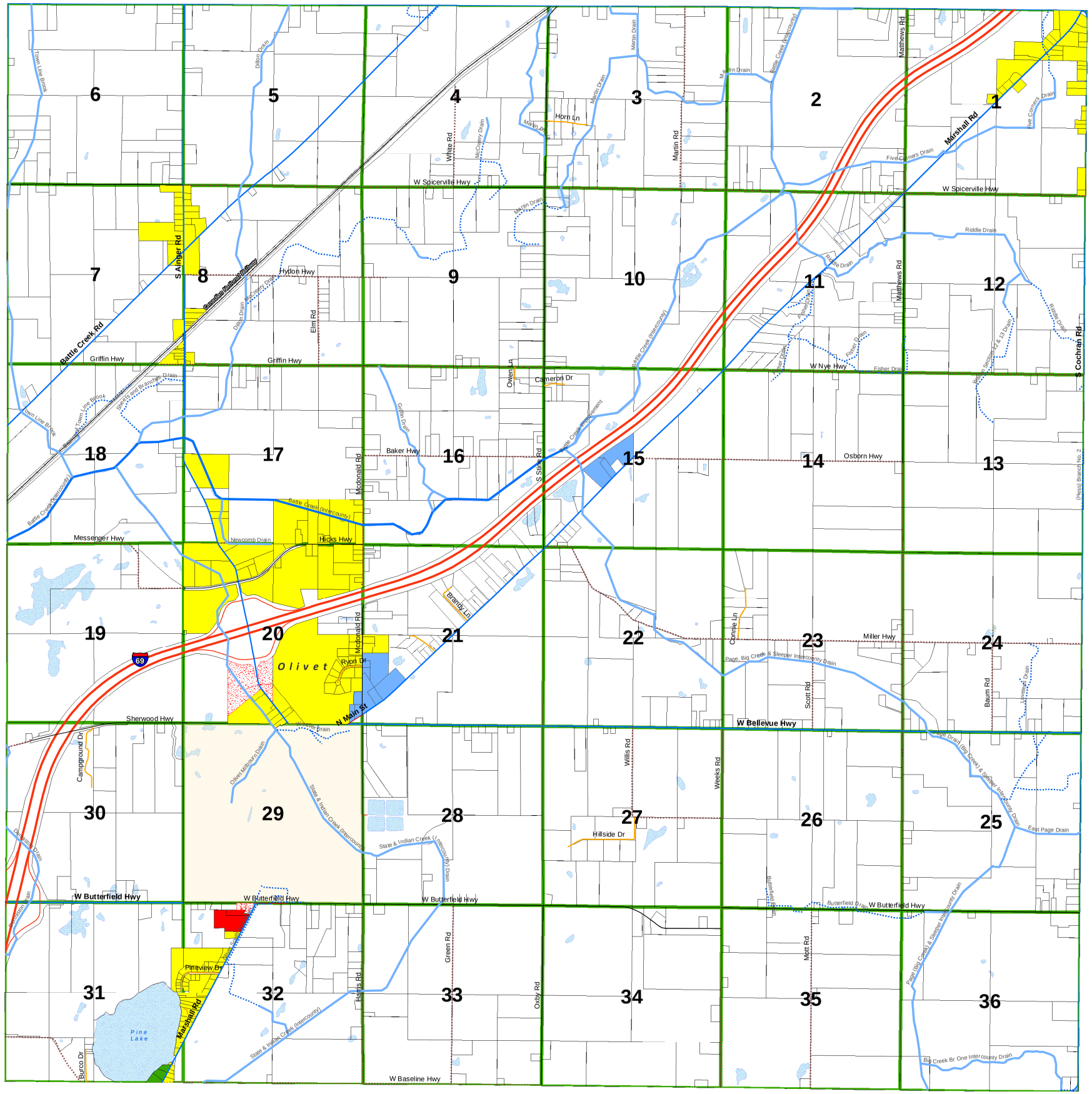

Walton Township
Future Land Use
Legend
Water Bodies
Roads
Future Land Use
Resource Conservation
Agricultural Preservation
General Business
Industrial
Local Business
Rural Residential
Secondary Agricultural
Not Under County Zoning
N
0
0.35
0.7
1.4 Miles
ROWE PROFESSIONAL SERVICES COMPANY
Date Exported: 9/5/2023
Path: Q:\Engineering\Reference\GIS_Data\Eaton County\Master_Plan\Township FLU Review.aprx
E SPICERVILLE HWY
E NYE HWY
MAHAN
Brookfield HWY
Township
S COCHRAN RD
E BELLEVUE HWY
E BUTTERFIELD HWY
HOOPER RD
LARRY LN
BAUM RD
MATTHEWS RD
W SPICERVILLE HWY
W NYE HWY
MILLER HWY
SCOTT RD
W BUTTERFIELD HWY
MOTT RD
MATTHEWS RD
DEAD END
OSBORN HWY
CONNIE LN
W BELLEVUE HWY
WEEKS RD
MARSHALL RD
MARTIN RD
Walton Township
WILLIS RD
HILLSIDE DR
HORN LN
CAMERON DR
S STINE RD
OWEN LN
OXBY RD
WHITE RD
BAKER HWY
BRANDY LN
DEER TRACE
SI 69
GREEN RD
MCDONALD RD
FIRST ST
E COTTAGE ST
HARRIS RD
RYON DR
KALAMO ST
EAST ST
SPRUCE ST
SUMMER ST
S MAIN ST
COURT ST
City of Olivet
SHIPHERD ST
ENGLE DR
WASHINGTON ST
PINEVIEW DR
MARSHALL RD
ELM RD
GRIFFIN HWY
HYDON-HWY
HICKS HWY
SI SI69 OFF
SI-NI69-OFF
S AINGER RD
BATTLE CREEK RD
WALTON HWY
MESSENGER HWY
SI SI69 ON
BURCO DR
CAMPGROUND DR
NO 69IN 48
OFF
48 NI69
48 SI69
COOK RD
SUNRISE DR
S BRADLEY RD
Kalamo Township
Bellevue Township
DAWN DR
SHERWOOD HWY
W BASELINE HWY



Eaton County Community Development

Walton Township Zoning Map

Zoning

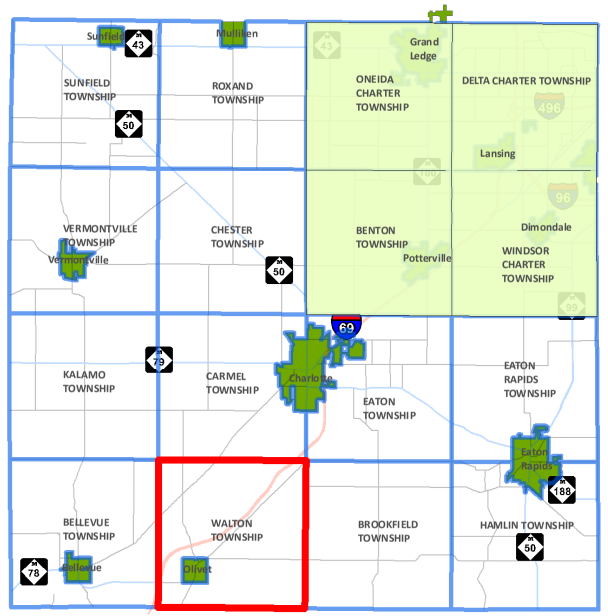
- LA
- R1
- R2
- C1
- C2
- I
- RC

County Drain

- Open Drain
- Tile Drain
- River
- City/Village
- Section Lines
- Waterbodies
- Railroads

Roads

- City
- CLP
- CPP
- Interstate
- Interstate Ramp
- Private
- State
- Unpaved



Printed:
April 2024

Zoning Records:
Community Development

Data Source:
Eaton County GIS
Eaton County Community Development

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