

EATON COUNTY BOARD OF COMMISSIONERS

MEMBERS

Tim Barnes
Blake Mulder
Terrance Augustine
Brandon Haskell
Jeanne Pearl-Wright
Jane Whitacre
Mark J. Mudry
Joseph Brehler



MEMBERS

Brian Droscha
Dairus Reynnet
Wayne Ridge
Brian Lautzenheiser
Jim Mott
Jeremy Whittum
Barbara Rogers

1045 Independence Blvd, Charlotte, MI 48813

EATON COUNTY BOARD OF COMMISSIONERS/PUBLIC WORKS AND PLANNING COMMITTEE

**WEDNESDAY, NOVEMBER 9, 2022
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 October 12, 2022 Minutes.
5. Limited Public Comment.
6. Appointments.
7. Drain Commission Semi-Annual Report.
8. Construction Code Report.
9. Community Development Report.
 - ~~Purchase of Development Rights Ordinance Amendment~~
10. DIA Update.
 - Department Update
 - Scrap Tire Grant Resolution
 - Program Contract Resolutions
 - Financial Report
11. Parks Report.
12. Landfill Semi-Annual Monitoring Report.
13. Miscellaneous.
14. Limited Public Comment.

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

PUBLIC WORKS & PLANNING COMMITTEE

**WEDNESDAY, OCTOBER 12, 2022
9:00 A.M.**

MINUTES

MEMBERS PRESENT: Commissioners Brian Lautzenheiser, Jim Mott, Terrance Augustine, Joseph Brehler, Blake Mulder and Barbara Rogers

MEMBERS ABSENT: Commissioner Jane Whitacre

ALSO PRESENT: Commissioner Jeremy Whittum, Travis Keeton, Chris Garrison, Morgan Feldpausch, Claudine Williams, and John Fuentes

The October 12, 2022 regular meeting of the Public Works and Planning Committee was called to order at 9:00 a.m. by Chairperson Lautzenheiser.

The Pledge of Allegiance was given by all.

Commissioner Mulder moved to approve the agenda, as presented. Commissioner Rogers seconded. Motion carried unanimously.

Commissioner Rogers moved to approve the minutes of the September 14, 2022 meeting, as presented. Commissioner Mott seconded. Motion carried unanimously.

Bradley Funkhouser, contracted Director of EATRAN introduced himself to the Committee and provided a brief overview of the organizational changes.

Claudine Williams, Community Development Director, was present to provide the Department's monthly report. It was reported that Township stakeholder meetings are scheduled for October 25 and 26 for the County Master Plan update. It was also reported that Hamlin Township officially began administering its interim zoning ordinance on October 3, 2022. There was discussion regarding the eligibility requirements to serve on the Planning Commission.

Travis Keeton, Parks & Recreation Director, was present to provide the Department's monthly report. An update on programs and events was provided. A resolution to accept the Priority Health grant for a fitness court at Fitzgerald Park was presented for consideration.

Commissioner Mulder moved to recommend approval of a resolution to accept the National Fitness Campaign grant, to the Board of Commissioners, as presented. Commissioner Rogers seconded. Motion carried unanimously.

Chris Garrison, Construction Code Enforcement Director, was present to provide the Department's monthly report. The monthly permit inspections and housing start reports were provided. An

update on staffing and recruiting efforts for a permanent part-time plumbing inspector or full-time mechanical and plumbing inspector was provided. There was also discussion regarding a contracted inspection service model, current inspection lead times and regional/statewide labor market trends affecting services. Discussion held. No further action considered at this time.

Morgan Feldpausch, Resource Recovery Coordinator, was present to provide a monthly update on behalf of the Designated Implementing Agency. There was discussion regarding the State EGLE Scrap Tire Recycling grant. The committee instructed staff to work with current regional partners to pursue a grant application.

An update was provided on the waste hauler violation. An informal hearing in District Court has been requested for the infraction. Discussion held.

An update was also provided on the Michigan Materials Management County Engagement planning grant. Discussion held.

A communication from Capital Area Transportation Authority (CATA) requesting a commissioner be appointed as a non-voting representative by the Board of Commissioners. Discussion held.

Commissioner Brehler moved to recommend the appointment of Commissioner Augustine as a non-voting representative to the CATA Board, to the Board of Commissioners. Commissioner Mott seconded. Motion carried unanimously.

An update was given on the expiring non-commissioner appointments. Interest has been received for the appointment to the Road Commission. Individuals that have expressed interest will be invited to the November regular meeting. Discussion held.

Chairperson Lautzenheiser adjourned the meeting at 9:56 a.m.

The next regularly scheduled meeting of the Public Works and Planning Committee will be held at 9:00am on Wednesday, November 9, 2022 in the Board of Commissioners Room of the Courthouse located at 1045 Independence Blvd, Charlotte MI 48813.

Brian Lautzenheiser, Chairperson

PUBLIC WORKS & PLANNING COMMITTEE

Road Commission - 6 year term – 2 appointments

Tim Lamoreaux
Chris Arndt
Keith Barber
Eric Hafner

Planning Commission - 3 year term – 3 appointments

Zachary Dillinger
Brian Ross
Timothy Cattron

Zoning Board of Appeals - 3 year term – 2 appointments

Nicole Chmielewski
Timothy Cattron (Planning Comm. Rep.)

Construction Code Board of Appeals - 3 year term

Citizen
Alternate - Plumbing Code Representative

Purchase of Development Rights Selection Committee – 2 Year Term – 3 appointments

David Roberts
Duane Ross

Capitol Area Regional Transportation Study Committee - 1 year term

Claudine Hannold

EATON COUNTY CITIZEN INVOLVEMENT APPLICATION

Last Name: Arndt		First Name: Christopher	Middle Initial: J
Street Address: 459 East Needmore Highway		City/State/Zip: Grand Ledge/Michigan/48837	
Township: Oneida	Home Phone: 5175433231	Business Phone: 5174025997	
Employer: Oneida Township	Years of Service: 0.8	Occupation: Trustee	
Are You At Least 18 Years of Age: Yes (☒) No (☐) Email: leadership.arndt@gmail.com			

EDUCATION

School	Name & Location Of School	Course Of Study	From: To:	Did You Graduate?	Degree or Diploma
High School	1) Charlotte Hight School	general	1995 to 2000	yes	high school
College	1) Michigan State University James Madison College	Political Theory	2000 to 2022	not yet	bachelor's of arts
	2)				
Other	1)				

PREVIOUS PUBLIC SERVICE EXPERIENCE

Check All That Apply:

- | | |
|--|---------------------------------------|
| ☐ Local School Board | Position: _____ |
| ☒ Township Level | Position: Township Trustee |
| ☐ City Level | Position: _____ |
| ☒ County Level | Position: Housing Commissioner |
| ☐ State Level | Position: _____ |
| ☐ Other | Position: _____ |

FILED
OCT 18 2021
DIANA BOSWORTH
EATON COUNTY CLERK

REFERENCES

Name: Rick Jones	Phone Number: 517-410-9495	Occupation: State Senator, former
Name: Tom Barrett	Phone Number: 517-224-6266	Occupation: State Senator

Name Committee, Commission or Board Desired: **Parks and Recreationc Commission**

List Special Skills and Qualifications (include avocations and special interests): **orchardist, beekeeper, gentleman farmer, conservationist, some small amount of arbory, government, and everything I learned on the trail to Eagle Scout**

Have you ever been convicted of an offense other than a traffic violation? Yes (☐) No (☒)

Please be advised that all applicants may not be able to be appointed to a Board or Commission. If an appointment is not able to be made, the application will be held on file for four years. Thank you for your interest in Eaton County.

I certify that the above statements are true to the best of my knowledge.

Date: **2021 October 15**

Signature: _____

RETURN APPLICATION TO: Eaton County Clerk's Office, 1045 Independence Blvd., Charlotte, MI 48813

EATON COUNTY CITIZEN INVOLVEMENT APPLICATION

Last Name: BARBER		First Name: KEITH		Middle Initial: A
Street Address: 5400 OAK HILLS DR			City/State/Zip: EATON RAPIDS/ MI/ 48827	
Township: HAMLIN	Home Phone: 315-681-3375		Business Phone:	
Employer: MEARS GROUP	Years of Service: 2		Occupation: ESTIMATOR	
Are You At Least 18 Years of Age: Yes (☒) No (☐) Email: KBAR5555@OUTLOOK.COM				

EDUCATION					
School	Name & Location Of School	Course Of Study	From: To:	Did You Graduate?	Degree or Diploma
High School	1) EATON RAPIDS HS	GENERAL	1986-1991	Y	DIPLOMA
College	1) American Public Univ.	General	2009-2013	Y	Bachelor Degree
	2) Michigan State Univ	Managment	2018-2019	Y	Master of Sceince
Other	1)				

PREVIOUS PUBLIC SERVICE EXPERIENCE	
Check All That Apply:	
☐ Local School Board	Position: _____
☒ Township Level	Position: Hamlin Twp Planning & Zoning Chairperson
☐ City Level	Position: _____
☐ County Level	Position: _____
☐ State Level	Position: _____
☐ Other	Position: _____

STATE of MICHIGAN, COUNTY of EATON
FILED
SEP 21 2022
DIANA BOSWORTH
EATON COUNTY CLERK

REFERENCES		
Name: Barbara Rogers	Phone Number: 517-663-8775	Occupation: County Commissioner
Name: Phillip Bombrys	Phone Number: 517-663-7777	Occupation: Hamlin Twp Supervisor

Name Committee, Commission or Board Desired: Road Commission - 6 year Term
--

List Special Skills and Qualifications (include avocations and special interests): US Army 30 years; Intel Analysts, Company First Sergeant, Planner

Have you ever been convicted of an offense other than a traffic violation? Yes (☐) No (☒)
--

Please be advised that all applicants may not be able to be appointed to a Board or Commission. If an appointment is not able to be made, the application will be held on file for four years. Thank you for your interest in Eaton County.

I certify that the above statements are true to the best of my knowledge.

Date: 21 Sept 2022

Signature: 

RETURN APPLICATION TO: Eaton County Clerk's Office, 1045 Independence Blvd., Charlotte, MI 48813

EATON COUNTY CITIZEN INVOLVEMENT APPLICATION

Last Name: <u>Hafner</u>		First Name: <u>Eric</u>	Middle Initial: <u>F</u>
Street Address: <u>11420 Fees Rd</u>		City/State/Zip: <u>Grand Ledge, MI 49813</u>	
Township: <u>Oneida</u>	Home Phone: <u>517-712-3580</u>	Business Phone: _____	
Employer: <u>Eaton County</u>	Years of Service: <u>24</u>	Occupation: <u>Deputy</u>	
Are You At Least 18 Years of Age: Yes ☐ No ☐ Email: _____			

EDUCATION					
School	Name & Location Of School	Course Of Study	From: To:	Did You Graduate?	Degree or Diploma
High School	1) <u>Pewamo Wepohalia</u>	<u>H/S</u>	<u>1990</u>	<u>1994</u>	<u>General</u>
College	1) <u>Lake Superior State</u>	<u>1994</u>	<u>1994</u>	<u>1998</u>	<u>B.S.</u>
	2) <u>University</u>	<u>B/S Law Enforcement</u>			<u>Criminal Justice</u>
Other	1) _____				

PREVIOUS PUBLIC SERVICE EXPERIENCE	
Check All That Apply:	Position: _____
☐ Local School Board	Position: <u>Oneida Twp Planning Commission</u>
☒ Township Level	Position: _____
☐ City Level	Position: _____
☐ County Level	Position: _____
☐ State Level	Position: _____
☒ Other	Position: <u>Knights of Columbus Council #7311 - 3yrs Grand Knight 3yrs Trustee</u>

REFERENCES		
Name: <u>Jeff Rutter</u>	Phone Number: <u>517-759-0565</u>	Occupation: <u>Retired Road Comm</u>
Name: <u>Chris Kuhlman</u>	Phone Number: <u>543-6384</u>	Occupation: <u>Captain Eaton Co S/O</u>

Name Committee, Commission or Board Desired: Eaton County Road Commission

List Special Skills and Qualifications (include avocations and special interests): 24 years traffic Enforcement, 22 years Weighmaster, 18 yrs CMV Inspector

Have you ever been convicted of an offense other than a traffic violation? Yes ☐ No ☒

Please be advised that all applicants may not be able to be appointed to a Board or Commission. If an appointment is not able to be made, the application will be held on file for four years. Thank you for your interest in Eaton County.

I certify that the above statements are true to the best of my knowledge.

Date: 8-31-22

Signature: Hafner

STATE of MICHIGAN, COUNTY of EAT

FILED

AUG 31 2022

RETURN APPLICATION TO: Eaton County Clerk's Office, 1045 Independence Blvd., Charlotte, MI 48813

**DIANA BOSWORTH
EATON COUNTY CLERK**

2022 Semi-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 then asked us to wait until 2022. There will be a meeting with him before the end of 2022 and depending on the outcome of that meeting, we will then move forward with or without the branch the township was hoping to add.

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 has decided to move forward with this project. Project design completion and bidding are anticipated to occur in 2023. The road commission has informed us that they will be doing a funded project on that road in the future and we are hopeful we can get the drainage improved prior to that project.

The **Burns Village Extension Drain** was petitioned by the Village of Sunfield on September 12, 2016. The Board of Determination Hearing was held on December 8, 2016, and found necessary. Spicer Group is the assigned engineer. Plans were finalized, bids received, financing arranged. Both divisions are substantially complete and the project will be closed out once the final clean-up items are handled and the receipt of the final documents has been completed.

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. is the assigned engineering firm. Final design and easement acquisition should be finalized this year and the project is expected to be bid in January 2023. Construction should begin early spring of 2023 and be completed in the fall of 2023.

The **McGivra 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 currently ongoing. 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 should be completed this year. The project is expected to be bid this winter with construction beginning in the spring of 2023 and completed in the fall of 2023.

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, Notice of Letting and bid openings along with the Day of Review has occurred. Financing has been obtained and the project is scheduled to start construction late November or early December.

The **Glen No. 2 Drain** had a township petition executed by Oneida Charter Township on March 13, 2018. The Board of Determination Hearing was held on June 18, 2018 and was found necessary. The project was assigned to Civil Engineers Inc. for engineering. The scope of the project was finalized as well as the plans for the project. Notice of Letting has occurred, bids were opened, Day of Review was held, financing was obtained and the project is currently under construction. We anticipate a summer 2023 final completion.

The **McCreery Drain** had a township petition executed by Walton Township on November 13, 2018. The Board of Determination Hearing was held on January 30, 2019 and was found necessary. The project was assigned to Spicer Group for engineering. The plans were finalized, bids received, financing arranged and the project has been constructed. There are a few items to be finalized but we are waiting for crops to come off and hunting season to end prior to re-entry of the site. Completion is expected in spring of 2023.

The **Munson Drain** had a landowner petition filed on May 29, 2018. The Board of Determination Hearing was held on December 19, 2018 and was found necessary. The project was assigned to LRE for engineering. Plans were finalized, bids received, financing arranged and construction has occurred. Final stabilization will be confirmed in the spring and then this project can be closed out.

The **Church and McClintic Drain** had a landowner petition filed on January 4, 2019. The Board of Determination Hearing was held on October 29, 2019 and was found necessary. The project was assigned to Land and Resource Engineering for engineering. Scope has been determined, plans finalized, bids received, Day of Review held, financing arranged and construction is almost complete. There are a few clean-up items to be taken care of then the confirmation of stabilization in the spring and then this project can be closed out.

The **Woodview Estates Drain** had a landowner petition filed on January 10, 2019. This was at a time when the drain code was being amended regarding how many signatures would be required for drains that had pipe sizes larger than 36 inches. The amendments were signed at the very end of 2018 but they did not go into effect until 90 days after they were signed. That made this petition invalid due to it being submitted prior to that 90-day period. The petition circulator was contacted and the petition was re-circulated and resubmitted to the drain office on October 31, 2019. This project was assigned to Land and Resource Engineering. In the process of doing the legal review and historic record review, it was determined that there was some conflicting information and/or missing information with reference to this drain and the Reed Drain. The solution to clearing up this conflicting information was to have Oneida Township submit a municipality petition for consolidation of the drains in the area to clean up that conflicting/missing information. The township provided that petition. The Board of Determination Hearing for that consolidation was held on February 4, 2021 and was found necessary. LRE has finalized the plan, Notice of Letting, bid opening, Day of Review, and the arrangement of financing has all occurred. The project is set to begin construction in November of 2022 with completion in summer or fall of 2023.

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. A final attempt to get the easement for the branch will occur before the end of 2022 and then project design will be finalized based on the status of that easement and then the project will move forward.

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. Delta Township had a file in their possession that was reviewed which indicated that in the early 1990's, the township instituted an Orphan Drain Program in an attempt to convert private subdivision drains to county drains that would fall under our jurisdiction. It appears this program was initiated and directed by the township. In 1992, the township submitted an Application for Laying out and Designating a County Drainage District and petitioned the drain commissioner at that time to convert this system into a county drain. A Board of Determination Hearing was held and found necessary. It appears that a Bellaire Hills #265 Drainage District was designated but the proceedings were never completed. We have no record showing all easements were obtained or that a First Order or Final Order was filed. The last documentation is from Delta Township indicating that the final easement had not yet been obtained but was being attempted. So, while we have the Petition and the Order of Necessity, the proceedings for converting this subdivision system into a county system remain incomplete and there is no funding source that would permit us to undertake the required inspection of the drainage system. A letter stating all of this information was submitted to Delta Township with a request for financial assistance for the inspection of this system. Any contribution given by them would be credited back to them on their first at-large assessment if the system is determined to be in sufficient working order that the drain office is willing to take it over and the final proceedings for converting this system to a designated county system are completed. They met on this item at their October 2020 meeting and voted to move forward with financial assistance in the amount of \$10,000. That money was used to pay for legal assistance, engineering assistance, and obtaining video of the system to determine if it is something the drain office would considering taking over. All of these steps culminated in a Notice of Filling an Order

Laying Out and Designating a Drainage District to be executed. An informational letter with the next required step per drain code was sent to the drainage district. That step is to file a Chapter 4 Petition which would require signatures of at least 50% of the landowners in the drainage district whose lands would be liable for an assessment for benefits and whose lands are traversed by the drain (or abut on any highway or street along the side of which the drain extends). The landowners initially were short about 13 signatures with their first submission of this Chapter 4 petition. They have recently filed the final signatures and the Board of Determination Hearing should be scheduled in early December, 2022. We will move forward based on the outcome of that hearing.

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 finalizing some of the MDOT requirements. Once all of those items are taken care of, plans can be finalized and we can move forward with Notice of Letting, bids, Day of Review, financing and construction. The City of Charlotte has a street project that they are hoping to let in January or February of 2023. We are attempting to co-ordinate our project with that one so we are working closely with the City of Charlotte on this schedule.

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 is almost finalized. We are working on obtaining some agreements with Delta and possibly the road commission to help fund the water and sanitary obstruction corrections. Once those final details have been worked through, this project will be ready for Notice of Letting, receipt of bids, Day of Review, arrangement of financing, and construction. We hope to get this moving forward early 2023 for a possible spring construction.

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 in the fall of 2023.

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 are being finalized and we are looking at a spring 2023 Notice of Letting.

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 is being determined.

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. 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. 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.

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 is in the process of completing those tasks and that hearing may be held yet this year. 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.

MAINTENANCE & REPAIR ACTIVITY

We have continued to work on the specialized clean-up of the **Battle Creek Intercounty Drain**. GEI Consultants has been hired by the Intercounty Board to do an extensive clean-out of this drain using hand tools. There are several stretches of the this drain that there is no way to get heavy equipment into to do the cleaning. The Board authorized the financial maximum towards the clean-out of this drain again in 2022. There was not a significant amount of work remaining that requires this method using small hand-held equipment. Once this last stretch is done, which includes Bennett Park, the remainder of the clean-out can be done with larger equipment.

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 Excavating for the 2020 calendar year. Burkett Excavating agreed to keep his pricing the same for 2022 so he continued with an additional 12,000-foot stretch for the 2022 calendar year.

The **Densmore, Perkins and Fish Creek Drain** had an open channel clean-out project completed in 2022. This covered a 1600-foot stretch that included the clearing of a 10-foot wide lane along one side for the spray program vehicle.

The **Doxie Drain** had an open channel clean-out project completed in 2022. This covered a 2150-foot stretch that included the clearing of a 10-foot wide lane along one side for the spray program vehicle.

The **Gildart and Mud Lake Drain** had an open channel clean-out project completed in 2022. This covered a 4180-foot stretch that included the clearing of a 10-foot wide lane along one side for the spray program vehicle.

The **Little Thornapple Drain** had an open channel clean-out project completed in 2022. This covered a 4500-foot stretch that included the clearing of a 10-foot wide lane along one side for the spray program vehicle.

The **Dann Drain** had an open channel clean-out project completed in 2022. This covered a 1380-foot stretch that included the clearing of a 10-foot wide lane along one side for the spray program.

The **Bond Drain** had a tile replacement project completed. This was a stretch of 1300 feet and the tile size was 24-inch.

The **Cooley Drain** had a tile replacement project completed. This was a stretch of 260 feet of 15-inch tile and a stretch of 640 feet of 12-inch tile.

The **Hamlin Section 16 Drain** had a tile replacement project completed. This was a stretch of 460 feet of 12-inch tile.

The **Holmes and Branches Drain** had a tile replacement project completed. This was a stretch of 500 feet of 12-inch tile.

The **Wood Drain** had a tile replacement project completed. This was a stretch of 560 feet of 12-inch tile.

The **Boatman Drain** had a road crossing replaced that was 40 feet of 15-inch HP (plastic).

The **Corwin Drain** had a road crossing replaced that was 40 feet of 12-inch HP (plastic).

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 is currently a senate bill that has been 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. We are hopeful that this will move through yet this year. This is senate bill number 864.

SPRAY PROGRAM

We continued with the spray program that was implemented in 2020. Right-of-Way Management came in and sprayed a total of 16 drains this year. There were 68,620 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.

MS4 PROGRAM

The Drain Office is in charge of the county's MS4 program which is in place to protect the waters of the state. The body of water that we are protecting is the Grand River. We have submitted the necessary documents to EGLE and are on track to keep this permit in compliance. As it is the county's permit, there are tasks that are required to be completed by not only the Drain Office but the Parks Department and the Eaton County Road Commission as well. There have been announcements at the GLRC (Greater Lansing Regional Committee for Stormwater Management) meetings that the areas that will require monitoring may be changing. The areas are based on population among other things. That population requirement of what constitutes an MS4 area may be lowered. Based on the numbers that have been

presented, this could bring Charlotte, Eaton Rapids, and Potterville into our monitoring area. We have been working with Spicer Group to ascertain all of the points that we are required to check are being met.

ELECTRONICS

We are continuing to work with the TS Department to take advantage of technologies that are available. We have been working closely with Jonathon Merrick and Elizabeth Goble in the TS department to utilize completely the programs they have created for us in the most efficient manner. This will remain ongoing as the two offices work well together for the better of the county.

We have implemented steps to provide all of the drainage district boundary changes that have occurred to the TS Department in order to get that information incorporated with the current GIS information. We are also working with TS to get changes made to the route and course of drains updated to that GIS system. It will be some time before all of the past projects are reviewed, requested, and updated but our hope is that as all new projects are completed, that information is given to TS as part of the file completion procedures and updated at that time. This will be an ongoing project and we are thankful for the GIS department.

We obtained a GPS unit and we are now able to mark points and elevations live on the GIS mapping system which has proven to be an invaluable tool in many instances. We are looking forward to find many more uses for the data this unit can supply to us.

We are also working with the Controller's Office to move drain ledger functions into New World.

NOTABLE EVENT

During the 2022 calendar year, Delta Township rescinded their APA status from the State. They had been their own APA and could monitor their department's development sites internally. They will now be required to obtain a Soil Erosion and Sediment Control Permit from our office for any projects that fall within our ordinance of requiring a permit.

Year Rec'd	Drain Name	Engineer	Legal	Status	Municipality	Municipality	Municipality	Municipality	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	Awaiting final stabilization	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	Final Design	Carmel	Walton			necessary	Landowner	
2017	Trumbull	CEI	FSBR	Final Design	Carmel				necessary	Municipality	
2017	Hobart	Spicer	FSBR	Hamlin Township asked to hold to 2022	Hamlin	City of Eaton Rapids			necessary	Municipality	
2017	McGilvra	Spicer	FSBR	MDOT 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	Under construction	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	Spring clean-up	Benton	Carmel	Chester	Eaton	necessary	Landowner	\$995,000.00
2018	Cooper Frost and Reynolds	LRE	Clark	Awaiting financing	Carmel	Charlotte			necessary	Municipality	\$4,190,000.00
2018	McCreery	Spicer	FSBR	Spring clean-up	Walton				necessary	Municipality	\$935,000.00
2019	Church and McClintic	LRE	Clark	Spring clean-up	Benton	Eaton			necessary	Landowner	\$1,150,000.00
2019	Woodview Estates	LRE	FSBR	Construction to begin soon	Oneida	City of Grand Ledge			necessary	Landowner	
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	Coordinating Schedule w/City of Charlotte	Eaton	City of Charlotte			necessary	Landowner	
2019	Watson & Watson: Chris J Drive	HRC	Clark	Working on Project Scope	Delta					Landowner	
2020	Bentley and DePue	Spicer	FSBR	Under construction	Eaton Rapids				necessary	Landowner	
2021	Higby	LRE	FSBR	Working on Project Scope	City of Charlott	Eaton				Municipality	
2021	Lemon	HRC	FSBR	Working on Project Scope	Windsor					Landowner	
2021	Watson No 2	LRE	FSBR	Working on Project Scope	Oneida					Landowner	
2022	Bellaire Hills - establish drain	HRC	Clark	needs BOD - to be scheduled in December	Delta					Landowner	
2022	Allison Heights	Spicer	FSBR	Engineering Study	Delta					Landowner	
2022	Potter (Benton Township)	LRE	FSBR	Engineering Study	Benton	City of Potterville				Landowner	
2022	Harvest Park - petition for district	Spicer	FSBR		Windsor					Landowner	

not necessary

completed

needs BOD

EATON COUNTY BOARD OF COMMISSIONERS

RESOLUTION TO REQUIRE DEPOSIT FOR PRELIMINARY COSTS AS PROVIDED BY THE DRAIN CODE, PA 40 of 1956, AS AMENDED

NOVEMBER 16, 2022

Introduced by the Public Works and Planning Committee

WHEREAS Sections 51 and 191 of the Michigan Drain Code, Public Act 40 of 1956, as amended (“Drain Code”) allows the Board of Commissioners for the County of Eaton to require a cash deposit, sufficient to cover the preliminary costs, as determined by the Eaton County Drain Commissioner (“Drain Commissioner”), associated with any application to lay out and designate a drainage district or petition for maintenance and improvement of an existing county drain, be submitted to the Drain Commissioner: and

WHEREAS, if such project is completed, the cost advanced shall be returned to the depositor out of the first installments of special assessments and if the project is uncompleted, any excess above costs shall also be returned.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners for the County of Eaton, that pursuant to Sections 51 and 191 of the Drain Code, the Eaton County Drain Commissioner is authorized to require a cash deposit to cover the estimated preliminary costs, in an amount determined by the Drain Commissioner as sufficient, associated with any application to lay out and designate a drainage district or petition for maintenance and improvement of an existing county drain.

RESOLUTION approved this _____ day of _____, 20__, by the Board of Commissioners of the County of Eaton.

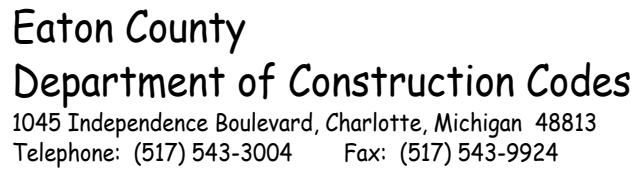
MOVED:

SECONDED:

CARRIED:

I hereby certify that the above Resolution was adopted at the Eaton County Board of Commissioners regular meeting of the _____ day of _____, 20__

Diana Bosworth, Eaton County Clerk



For: Mr. John Fuentes, County Controller
From: Chris Garrison, Director

[illegible]



Eaton County Department of Construction Codes

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"

SINGLE FAMILY HOUSING UNITS

Respective Calendar Years

YEAR	SINGLE WIDE (MH)	DOUBLE WIDE (MFG) (DW)	SITE BUILT (N)	YEARLY TOTAL
2006	0	2	123	125
2007	0	0	86	86
2008	0	1	39	40
2009	2	3	12	17
2010	7	19	22	48
2011	3	7	28	38
2012	7	14	35	56
2013	10	37	40	87
2014	7	48	40	95
2015	20	39	43	102
2016	8	27	57	92
2017	8	12	59	79
2018	3	6	66	75
2019	8	5	53	66
2020	2	2	62	66
2021	4	18	61	80
2022 Last Month	0	0	6	81
2022 YTD	3	6	72	81

Eaton County Department of Construction Codes

County Wide Housing Starts Total

		January	February	March	April	May	June	July	August	September	October	November	December	Y.T.D. TOTAL	2021 Totals	2020 Totals	2019 Totals
Charlotte	Site Built	x	x	x	x	x	x	x	x	x	x	x	x	0	7	17	9
	Mobile Homes	x	x	x	x	x	x	x	x	x	x	x	x	0	1	4	4
	Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	13
Delta Twp.	Site Built	0	1	0	0	4	6	2	3	4	2			22	37	36	28
	Mobile Homes	0	0	0	0	0	0	0	0	0	0			0	1	11	11
	Totals	0	1	0	0	4	6	2	3	4	2	0	0	22	38	35	39
Eaton County	Site Built	3	5	7	11	6	10	10	7	7	6			72	61	60	53
	Mobile Homes	8	0	0	0	1	0	0	0	0	0			9	23	4	13
	Totals	11	5	7	11	7	10	10	7	7	6	0	0	81	84	64	66
Eaton Rapids	Site Built	0	0	0	0	0	0	0	0	0	0			0	2	3	4
	Mobile Homes	0	0	0	1	4	1	0	0	4	0			10	12	0	0
	Totals	0	0	0	1	4	1	0	0	4	0	0	0	10	14	3	4
Grand Ledge	Site Built	6	1	0	1	0	0	0	0	3	0			11	23	14	14
	Mobile Homes	0	0	0	0	0	3	0	0	0	2			5	3	6	0
	Totals	6	1	0	1	0	3	0	0	3	2	0	0	16	26	20	14
Oneida	Site Built	0	0	0	0	2	0	0	0	0	0			2	2	5	4
	Mobile Homes	0	0	0	0	0	0	0	0	0	0			0	0	0	0
	Totals	0	0	0	0	2	0	0	0	0	0	0	0	2	11	5	4
County Wide Total		17	7	7	13	17	20	12	10	18	10	0	0	131	181	143	140

X = Not reported.

Eaton County Department of Construction Code

month by month permits 2013-2022

Year	Trade	January	February	March	April	May	June	July	August	September	October	November	December	YEAR TOTAL
2013	Building	13	16	20	23	34	35	51	54	47	37	24	11	365
	Mechanical	42	38	37	57	42	44	61	39	44	61	65	43	573
	Electrical	30	15	27	58	34	50	52	47	44	68	40	29	494
	Plumbing	19	18	16	16	19	27	28	27	25	28	12	11	246
MONTHLY TOTAL		104	87	100	154	129	156	192	167	160	194	141	94	1678
2014	Building	13	17	15	38	44	43	33	69	57	48	31	66	474
	Mechanical	46	35	39	40	30	58	53	53	71	78	55	100	658
	Electrical	44	30	35	36	43	59	55	36	55	85	43	50	571
	Plumbing	21	17	20	23	21	29	24	17	22	21	18	47	280
MONTHLY TOTAL		124	99	109	137	138	189	165	175	205	232	147	263	1983
2015	Building	39	20	34	43	61	54	36	51	42	49	29	19	477
	Mechanical	88	29	50	38	50	59	46	50	55	65	61	47	638
	Electrical	53	54	53	41	51	81	54	52	49	59	43	40	630
	Plumbing	45	10	22	24	40	24	25	28	24	26	22	13	303
MONTHLY TOTAL		225	113	159	146	202	218	161	181	170	199	155	119	2048
2016	Building	23	19	21	45	45	67	58	56	57	59	44	28	522
	Mechanical	44	37	48	45	63	78	48	57	56	84	88	64	712
	Electrical	29	37	39	48	70	78	53	58	65	80	71	39	667
	Plumbing	20	20	23	26	32	34	29	33	22	31	23	24	317
MONTHLY TOTAL		116	113	131	164	210	257	188	204	200	254	226	155	2218
2017	Building	24	29	31	36	61	58	45	53	52	42	24	24	479
	Mechanical	51	50	61	50	60	53	49	67	68	75	78	44	706
	Electrical	36	40	59	48	64	62	57	73	58	78	55	45	675
	Plumbing	25	39	24	30	31	26	22	39	27	28	24	15	330
MONTHLY TOTAL		136	158	175	164	216	199	173	232	205	223	181	128	2190
2018	Building	14	21	49	53	58	60	67	64	53	54	31	27	551
	Mechanical	63	47	47	46	52	71	63	88	52	106	64	67	766
	Electrical	32	38	41	49	67	78	70	71	80	76	54	54	710
	Plumbing	24	17	20	31	27	36	27	37	21	25	12	23	300
MONTHLY TOTAL		133	123	157	179	204	245	227	260	206	261	161	171	2327
2019	Building	24	25	28	54	64	50	46	59	48	58	37	28	521
	Electrical	38	40	55	78	79	53	84	70	69	71	68	62	767
	Mechanical	51	40	43	56	66	65	71	51	53	103	65	62	726
	Plumbing	15	16	17	39	24	26	36	32	29	40	25	35	334
MONTHLY TOTAL		128	121	143	227	233	194	237	212	199	272	195	187	2348
2020	Building	18	28	20	6	53	55	71	74	47	66	45	31	514
	Electrical	62	48	43	8	49	79	85	99	93	80	88	69	803
	Mechanical	74	47	39	12	44	75	85	73	70	106	88	79	792
	Plumbing	24	30	22	11	20	32	47	45	35	39	33	30	368
MONTHLY TOTAL		178	153	124	37	166	241	288	291	245	291	254	209	2477
2021	Building	29	40	52	108	154	86	69	65	71	56	44	51	825
	Electrical	68	42	81	95	75	94	84	97	76	93	60	72	937
	Mechanical	62	68	81	85	69	81	85	93	68	93	73	71	929
	Plumbing	24	27	29	56	31	28	50	36	43	34	29	31	418
MONTHLY TOTAL		183	177	243	344	329	289	288	291	258	276	206	225	3109
2022	Building	53	35	67	92	74	82	83	82	62	71			701
	Electrical	83	71	73	80	95	90	74	116	80	82			844
	Mechanical	71	84	71	67	86	102	73	153	69	95			871
	Plumbing	30	42	46	59	53	42	33	32	45	38			420
MONTHLY TOTAL		237	232	257	298	308	316	263	383	256	286	0	0	2836

Eaton County Department of Construction Code

MONTH BY MONTH INSPECTIONS 2013-2022

Year	Trade	January	February	March	April	May	June	July	August	September	October	November	December	Year Total
2013	Building	45	45	96	144	88	74	113	184	173	185	129	82	1358
	Mechanical	65	43	134	113	57	56	56	65	50	71	71	62	843
	Electrical	43	53	135	133	75	57	77	93	80	99	76	69	990
	Plumbing	25	35	46	45	34	41	50	52	41	60	39	24	492
MONTHLY TOTAL		178	176	411	435	254	228	296	394	344	415	315	237	3683
2014	Building	72	67	50	117	140	144	144	118	187	183	162	156	1540
	Mechanical	66	61	45	52	43	46	64	58	66	93	68	77	739
	Electrical	73	74	57	36	72	61	101	105	99	103	83	95	959
	Plumbing	34	39	25	23	45	48	54	42	49	59	31	31	480
MONTHLY TOTAL		245	241	177	228	300	299	363	323	401	438	344	359	3718
2015	Building	89	79	132	145	171	166	216	182	161	192	176	135	1844
	Mechanical	88	49	73	74	109	109	78	66	71	92	78	74	961
	Electrical	90	68	101	78	89	84	102	114	106	140	88	99	1159
	Plumbing	35	51	34	88	72	72	52	63	58	53	51	74	703
MONTHLY TOTAL		302	247	340	385	441	431	448	425	396	477	393	382	4667
2016	Building	97	77	109	126	199	199	191	216	189	227	187	168	1985
	Mechanical	73	61	50	48	63	90	57	68	82	105	81	98	876
	Electrical	67	63	62	67	98	134	94	118	101	105	143	110	1162
	Plumbing	45	38	41	59	57	58	47	65	57	44	49	44	604
MONTHLY TOTAL		282	239	262	300	417	481	389	467	429	481	460	420	4627
2017	Building	107	105	156	129	195	197	187	195	236	214	164	121	2006
	Mechanical	92	97	77	60	117	57	60	87	95	79	76	82	979
	Electrical	93	97	97	82	136	105	103	157	131	116	100	104	1321
	Plumbing	46	46	74	47	49	49	42	68	61	53	37	29	601
MONTHLY TOTAL		338	345	404	318	497	408	392	507	523	462	377	336	4907
2018	Building	114	98	157	182	222	225	273	310	241	283	202	159	2466
	Mechanical	79	72	75	59	71	76	83	73	90	120	110	85	993
	Electrical	35	89	105	88	109	140	133	106	123	152	156	134	1370
	Plumbing	40	39	39	30	47	50	53	60	46	49	42	39	534
MONTHLY TOTAL		268	298	376	359	449	491	542	549	500	604	510	417	5363
2019	Building	157	125	131	189	220	240	267	239	262	273	190	219	2512
	Electrical	93	83	103	122	124	122	123	132	115	150	119	110	1396
	Mechanical	87	75	91	96	82	91	87	100	67	113	84	67	1040
	Plumbing	34	35	37	52	49	35	45	45	43	57	47	48	527
MONTHLY TOTAL		371	318	362	459	475	488	522	516	487	593	440	444	5475
2020	Building	174	141	116	9	146	206	236	272	263	274	256	277	2370
	Electrical	108	106	74	8	102	112	137	144	148	154	146	146	1385
	Mechanical	89	77	46	4	63	118	79	104	118	149	141	200	1188
	Plumbing	59	48	35	1	44	53	65	57	77	104	81	50	674
MONTHLY TOTAL		430	372	271	22	355	489	517	577	606	681	624	673	5617
2021	Building	187	134	204	244	329	292	319	322	300	305	280	268	3184
	Electrical	146	94	147	130	128	130	136	132	137	175	132	129	1616
	Mechanical	151	145	184	169	116	115	125	140	112	127	181	113	1678
	Plumbing	68	57	71	59	46	59	65	48	69	83	70	59	754
MONTHLY TOTAL		552	430	606	602	619	596	645	642	618	690	663	569	7232
2022	Building	231	164	198	271	300	305	338	390	345	359			2901
	Electrical	108	108	117	121	101	137	117	144	111	130			1194
	Mechanical	101	77	121	88	112	108	83	116	100	116			1022
	Plumbing	64	35	70	99	60	92	72	81	79	56			708
MONTHLY TOTAL		504	384	506	579	573	642	610	731	635	661	0	0	5825



Community Development and Housing Department Report 10/31/2022
For Public Works & Planning Committee November 9, 2022

Case Status: (Permits and Applications Activity summarized on attached table):

- The **Planning Commission** met October 4, 2022 and approved a Change of Conditions to a Home Business in Vermontville Township. They additionally held a special meeting on October 25, 2022 to discuss Master Plan update activities.
- The **Board of Appeals** met October 4, 2022 and approved a variance to allow for an addition to a structure within the safe fall area of an existing Communication Tower in Eaton Township.

Zoning and Junk Code Enforcement (Activity is summarized on attached table):

- Currently there are twenty-eight (28) junk violations and twenty-six (26) zoning violations. Four (4) tickets were issued for a zoning and junk violations in Vermontville and Kalamo Townships.
- Ms. Williams and Mr. Garrison are currently working on a violation in Eaton Township in reference to an agricultural building.

Housing Department Activities:

- There are currently two active emergency housing repair projects in process, both for new roofs. Two applications (one for a roof and one for a new furnace) are currently being verified and submitted to MEDC.
- Ms. Williams met with MEDC on October 27th in reference to closing out an old housing grant originally awarded in late 2015. Ms. Williams was informed via e-mail in 2018 this grant was closed; however, the County never received a formal close out letter. The MEDC is now requiring more information from the County in order to formally close out the grant in their system.
- The current total Program Income revolving loan fund balance is \$132,831. Total amount to be spent before June 30, 2023 is \$113,131. Two (2) program payoffs have been received since July 1, 2022.

Economic Development Activities:

- The Capital Area Child Care Coalition has been newly created for the tri-county area. The Coalition was established specifically in response to the Michigan Department of Education statewide Caring for MI Future initiative. This initiative includes funding to support the Child Care Regional Planning grant program. The coalition led by LEAP, the Capital Area United Way, and Capital Area Michigan Works! plans to apply for \$150,000 in funding from this new program to address the lack of child care in the area and develop a regional plan that meets the needs and preferences of working families.
- Ms. Williams received (and forwarded to all locals) eleven (11) site searches in the month of October. Six inquires for were property only, four were for existing buildings, and one was for property or a building.

Veteran Service Activities:

- Seventy-two (72) Veteran appointments were conducted in October.
- One (1) veteran was transported to the Ann Arbor hospital by a volunteer driver.
- All MVAA CVSF reporting was submitted on October 5th and the new county grant began on October 1st.

Other:

Housing Program public hearings.

PDR grant application opportunity.

Master Plan Update.

Additionally, Ms. Williams attended the following: Continuum of Care (CoC), CoC Strategies and Grants Committee, HSCC meeting, Information and Technology meeting, Broadband meeting, and a Continuity of Operations workshop.

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	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"	"21"	"22"
JAN	1	0	0	0	0	0	0	0	0	0	18	18	0	0	3	5	5	8	4	6	31	37
FEB	1	4	1	1	0	0	0	0	0	0	8	16	0	0	1	0	2	0	1	3	14	24
MARCH	0	0	1	0	0	0	0	0	1	0	31	20	1	0	6	1	2	3	5	4	47	28
APRIL	1	0	0	1	0	0	2	0	0	0	38	38	0	0	8	3	3	3	4	6	56	51
MAY	0	2	0	0	0	0	0	1	2	0	39	36	0	0	4	3	2	2	4	2	51	46
JUNE	3	1	2	0	0	0	1	0	0	0	33	38	0	0	0	0	4	4	2	4	45	47
JULY	1	2	0	1	0	0	0	1	0	0	27	31	0	0	1	2	7	2	2	4	38	43
AUG	1	1	1	0	0	0	0	0	1	0	31	37	0	0	2	3	4	2	6	2	46	45
SEPT	4	1	0	1	0	0	0	0	0	0	25	29	0	0	3	2	3	2	4	4	39	39
OCT	2	1	0	1	0	0	0	0	0	0	21	26	0	0	2	1	2	1	1	4	28	34
NOV	0	0	0	0	0	0	2	0	0		12		0		1		3		2		20	
DEC	2	0	1	1	0		1		0		14		0		1		2		6		27	1
TOTALS	16	12	6	6	0	0	6	2	4	0	297	289	1	0	32	20	39	27	41	39	442	395

CASES	JUNK	JUNK	JUNK	JUNK	ZONING	ZONING	ZONING	ZONING
	(NEW)	(NEW)	(CLOSED)	(PENDING)	(NEW)	(NEW)	(CLOSED)	(PENDING)
		2021 carryover: 36				2021 carryover: 26		
MO/YR	2021	2022	2022	2022(PENDING)	2021	2022	2022	2022(PENDING)
JAN	0	1	16	21	3	7	14	19
FEB	1	1	1	21	1	0	0	19
MARCH	0	1	1	21	1	2	4	17
APRIL	2	6	3	24	1	3	2	18
MAY	5	6	1	29	8	2	0	20
JUNE	2	0	1	28	0	1	1	20
JULY	2	1	3	26	7	10	6	24
AUG	1	1	0	27	4	5	2	27
SEPT	0	2	1	28	3	1	0	28
OCT	4	1	1	28	6	1	3	26
NOV	1				0			
DEC	0				1			
TOTALS	18	20	28	28	35	32	32	26
			TOTAL PENDING JUNK & ZONING VIOLATIONS					54

EATON COUNTY NOTICE OF PUBLIC HEARING

The Eaton County Board of Commissioners will conduct a public hearing on Wednesday, November 16, 2022 at 7:00 pm at the Eaton County Courthouse, 1045 Independence Blvd, Charlotte, MI for the purpose of affording citizens an opportunity to comment on the expenditure of this year's CDBG Emergency Repair Program housing funds. Additionally, a close out public hearing will be conducted for the purpose of affording citizens an opportunity to submit comments and receive a final report on the completion of the previous year's CDBG Emergency Repair Program housing funds.

All CDBG Emergency Repair Program housing funds assist low to very low-income households in Eaton County to correct urgent problems within their home that may pose an imminent health and/or safety hazard to the occupants. Assistance may be provided in the form of an interest free loan from the County to be repaid on the sale or title transfer of the property. All CDBG projects benefit at least 51% low to moderate income persons; no persons will be or were displaced as a result of the project.

Eaton County proposes to use up to \$113,131 in CDBG program funds to administer the current years Emergency Repair Program.

Last program year assistance was provided to one home in the amount of \$9,960.

Interested citizens are invited to comment on this program in person or may send comments before the hearing to the Eaton County Community Development & Housing Dept. 1045 Independence Blvd, Charlotte MI. For more information, please call the Department Director, Claudine Williams at 517-543-3689.



EATON COUNTY NOTICE OF PUBLIC HEARING

The Eaton County Board of Commissioners will conduct a closeout public hearing on **Wednesday, November 16, 2022 at 7:00 pm** at the Eaton Co. Courthouse, 1045 Independence Blvd, Charlotte, MI for the purpose of affording citizens an opportunity to submit comments and receive a final report on the completion of the Eaton County Homeowner Rehabilitation Program CDBG Grant from 2015 thru 2017.

The CDBG grant provided funding to assist moderate to very low income households, located in Eaton County, in the repair and improvement of single-family, owner-occupied homes to improve safety, affordability and accessibility, by providing an interest free loan from the County to be repaid upon the sale or title transfer of the property. The CDBG project benefited at least 51% low to moderate income persons; no persons were displaced as a result of the project.

Interested parties are invited to comment on the project in person or may send comments before the hearing to the Eaton Co. Community Development & Housing Dept. 1045 Independence Blvd, Charlotte MI. For more information please call 517-543-3689.





Resource Recovery Department Report

For Public Works & Planning Committee

October 2022

General Updates:

A Civil Infraction Notice of Violation was issued to Lebron Trash Hauling on 9/22/2022 as a result of continued non-compliance with the Eaton County Solid Waste Ordinance of 1993, specifically Article IV Conditions of Hauler License, Section 4.02 – Specific License Conditions, subsections (b) and (c). The fine associated with the notice of violation was considered late as of 10/7/2022. The Civil Infraction Notice has been submitted to Eaton County's District Court in pursuance of a civil infraction citation and is pending scheduling of an informal hearing.

The department met with Resource Recycling Systems on 11/3/2022 to discuss efforts and next-steps for the Department's on-going program evaluation and Michigan Materials Management County Engagement (MMCE) Grant. A follow-up meeting has been scheduled for 11/17/2022.

Local Projects:

Final quarterly reporting forms for the 2021-2022 Solid Waste Alternative Grant program were provided to all program participants 9/30/2022. Completed reports were due 10/17/2022. All reports have been received by the department, completing the program year.

2018-2022 SWAG Total Collected Core Material Diversion (Tons)			
Program Year	2019-2020	2020-2021	2021-2022
Bellevue/Olivet	139.23	137.86	132.86
CARA	371.92	351.66	334.99
Delta Township	180.86	217.85	212.59
Eaton Rapids	116.81	108.21	73.1
Grand Ledge	119.2215	114.63	114.43
Mulliken	16.22	20.17	0*
Pottersville	59.29	0	0
Sunfield	0	49.04	41.33
Total	1003.55	950.38	909.306

County Programs:

The following bids were received in response to the department's 2023 & 2024 household hazardous waste (HHW) collection services, electronic waste recycling services, and household battery recycling services requests for proposals. While the department received bids for electronics and household batteries that were comparable in terms of projected costs to the 2022 program year, the received bid for household hazardous waste was not - the projected costs for the program are approximately \$62,000 annually. Overall this is approximately a 55% increase (\$21,000) from the previous program year, based on similar collection volumes. Detailed bid analyses and draft resolutions to approve contracts for each service have been included.

- Household Hazardous Waste (HHW) Collection Services:
 - ERG Environmental
- Electronic Waste Recycling Services:
 - Schupan Asset Management
 - Valley City Electronic Recycling
- Household Battery Recycling Services:
 - Cirba Solutions (formerly known as Battery Solutions)
 - ERG Environmental

The fourth quarter progress report for the 2021-2024 Rural Electronics Recycling Grant was completed and submitted to the state on 10/14/2022. Delta Township hosted three electronic collection events and the department hosted one during the period generating \$7,651.91 of match funds. There were no reimbursable expenditures made during the period.

On 10/28/2022 the department submitted an application for the 2023 Scrap Tire Cleanup Grant program. If awarded, the department has agreed to act as a grant fiduciary for both Barry and Clinton counties. In total \$36,000 was requested, equivalent to approximately 12 trailers for up to five collection events. A draft resolution to approve the application has been included.

Sustainability Steering Committee Update October 2022

ICLEI – Local Governments for Sustainability

Based on approval from the sustainability steering committee, the department is pursuing an application for ICELI membership. ICELI is a digital platform and network tool to aid local governments in sustainability planning and management. Access to resources/tools and technical assistance as well as networking and news are among the relevant benefits of membership. A primary elected liaison contact is required for the application and membership, the department seeks guidance in determining the appropriate contact. The official will serve as the key political figure and lead for all elected officials for the community around sustainability work.

Michigan Green Communities (MGC)

The department is pursuing an application for certification in the 2022 MGC program. The program is a sustainability benchmarking, networking, and technical assistance program available to local governments in Michigan. Though the level of certification obtained directly correlates to the associated benefits, the program will allow the county to gain access to sustainability planning resources and recognize the county for accomplishing sustainability related projects/pursuing sustainability related efforts. The program is for action efforts that have been completed or started in the 2022 calendar year. The department is currently in the process of evaluating individual action items outlined in the program application. Completed applications for the 2022 program year are due in April 2023.

Campus Environmental Placemaking Plan

The department has been working with ROWE, the contracted vendor for the development of the Environmental Placemaking Plan, to make progress in developing the plan.

EATON COUNTY BOARD OF COMMISSIONERS

NOVEMBER 16, 2022

RESOLUTION TO APPROVE A MICHIGAN DEPARTMENT OF ENVIRONMENT GREAT LAKES AND ENERGY SCRAP TIRE RECYCLING GRANT APPLICATION

Introduced by the Public Works and Planning Committee

WHEREAS, the Resource Recovery Department has been established for the development and administration of the County Solid Waste Management Plan under Act 641; and

WHEREAS, key components of the Resource Recovery Department include increasing the amount of materials recycled; and

WHEREAS, the Michigan Department of Environment Great Lakes and Energy Scrap Tire Recycling Grant is designed to provide assistance in the removal of residential tires; and

WHEREAS, the Resource Recovery Department offers Scrap Tire collection events annually; and

WHEREAS, the Michigan Department of Environment Great Lakes and Energy has encouraged regional applications and Eaton County has been approached by Clinton County and Barry County to submit one grant for all three communities; and

WHEREAS, the grant program does not have any matching requirements; and

WHEREAS, Eaton County will serve as the applicant and fiduciary for the grant; and

NOW, THEREFORE, LET IT BE RESOLVED that Eaton County approves the application of the Scrap Tire grant; and

BE IT FURTHER RESOLVED, that acceptance of the grant award is contingent upon the approval of Memorandums of Understanding between the County and other individual participating entities providing for said participating entities to reimburse the County for any non-grant costs associated with collection events held within their jurisdiction; and

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

BE IT FURTHER RESOLVED, that the Controller is authorized to make budgets amendments to the adopted budget, in the event the grant is authorized.

EATON COUNTY BOARD OF COMMISSIONERS

NOVEMBER 16, 2022

RESOLUTION TO APPROVE CONTRACTS FOR HOUSEHOLD HAZARDOUS WASTE, ELECTRONICS AND BATTERY RECYCLING

Introduced by the Public Works and Planning Committee

WHEREAS, the County is charged by the Public Act 451, Part 115, as amended, Eaton County Solid Waste Management Plan Update of February 1999 to enhance the separation, collection, and utilization of materials to increase the percentage of the solid waste stream diverted; and,

WHEREAS, the County Department of Resource Recovery operates a household hazardous waste, electronic waste and battery collection programs, which divert potentially hazardous materials from improper disposal; and,

WHEREAS, ERG Environmental Services agreed to recycle all household hazardous waste brought to Eaton County collection sites per Federal and State guidelines and in accordance with the proposals submitted to the Department of Resource Recovery; and

WHEREAS, Schupan Asset Management agreed to recycle all electronic waste brought to Eaton County collection sites per Federal and State guidelines and in accordance with the proposals submitted to the Department of Resource Recovery; and

WHEREAS, Cirba Solutions agreed to recycle all household batteries brought to Eaton County collection sites per Federal and State guidelines and in accordance with the proposals submitted to the Department of Resource Recovery; and

WHEREAS, the County Department of Resource Recovery recommended these vendors for two-year contracts extending from January 1, 2023-December 31, 2024; and

WHEREAS, the Public Works and Planning Committee reviewed one proposal and recommended that a contract be established between the County and ERG Environmental Services for a two-year household hazardous waste disposal contract at its regular meeting held on November 9, 2022; and

WHEREAS, the Public Works and Planning Committee reviewed two proposals and recommended that a contract be established between the County and Schupan Asset Management for a two-year electronics recycling contract at its regular meeting held on November 9, 2022; and

WHEREAS, the Public Works and Planning Committee reviewed two proposals and recommended that a contract be established between the County and Cirba Solutions for a two-year battery recycling contract at its regular meeting held on November 9, 2022; and

NOW, THEREFORE, BE IT RESOLVED, that the Eaton County Board of Commissioners officially approves the recommended contracts.

Eaton County Household Hazardous Waste Collections

2023-2024 Household Hazardous Waste Collection Program Bid Analysis

	WMM	Total lbs Collected in 2022	2022 Contracted Price			ERG Bid	
			2022 Costs			RFP Projected Costs	
AEROSOL CANS	FI	2,004	\$	0.91	\$ 1,823.64	\$ 1.35	\$ 2,705.40
ASBESTOS	LF	0	\$	0.91	\$ -	\$ 1.35	\$ -
CHARACTERIZATION OF UNKNOWNNS	*	0	\$	-	\$ -	\$ -	\$ -
CORROSIVE LIQUIDS AND SOLIDS	ST	1,050	\$	0.91	\$ 955.50	\$ 1.35	\$ 1,417.50
DRYCELL BATTERIES	RC	255	\$	0.91	\$ 232.05	\$ 1.35	\$ 344.25
FIRE EXTINGUISHERS/PROPANE CYLINDERS	RC	2,402	\$	0.91	\$ 2,185.82	\$ 1.35	\$ 3,242.70
FLAMMABLE LIQUIDS (BULKED AND NON-BULKED)	FI	1,894	\$	0.91	\$ 1,723.54	\$ 1.35	\$ 2,556.90
LATEX PAINT	RC / ST*	0	\$	0.50	\$ -	\$ 0.75	\$ -
MEDICAL WASTE/SHARPS	DI	360	\$	0.91	\$ 327.60	\$ 1.35	\$ 486.00
MERCURY	RC	40	\$	0.91	\$ 36.40	\$ 33.00	\$ 1,320.00
OIL-BASED PAINT	FI	8,831	\$	0.91	\$ 8,036.21	\$ 1.35	\$ 11,921.85
AUTOMOTIVE LIQUIDS AND FILTERS	RC	9,938	\$	0.91	\$ 9,043.58	\$ 1.35	\$ 13,416.30
PESTICIDE LIQUIDS AND SOLIDS	ST / DI	3,579	\$	0.91	\$ 3,256.89	\$ 1.35	\$ 4,831.65
PHARMACEUTICALS	ST / DI	0	\$	0.91	\$ -	\$ 1.35	\$ -
SMOKE DETECTORS	RC / LF	15	\$	0.91	\$ 13.65	\$ 1.35	\$ 20.25
TOXICS AND CLEANERS	ST	12,046	\$	0.91	\$ 10,961.86	\$ 1.35	\$ 16,262.10
REACTIVES	ST / DI	527	\$	0.91	\$ 479.57	\$ 4.50	\$ 2,371.50
FLUORESCENT LAMPS AND PCB BALLASTS	RC / LF	1,027	\$	0.91	\$ 934.57	\$ 1.35	\$ 1,386.45
Costs					\$ 40,010.88	\$	62,282.85

Waste Management Method (WMM)
DI = Destructive Incineration
LF = Landfill
ST = Stabilization
FI = Fuel Incineration
RC = Recycle/Reuse

Eaton County Electronics Collections

2023-2024 Electronics Collection Program Bid Analysis

	Total lbs Collected in 2022	Schupan	RFP Projected Costs	Valley City	RFP Projected Costs
COMPUTERS	5,497	\$ -	\$ -	\$ -	\$ -
CRT COMPUTER MONITORS	783	\$ 0.20	\$ 156.60	\$ 0.30	\$ 234.90
FLAT PANEL COMPUTER MONITORS	1,893	\$ 0.05	\$ 94.65	\$ 0.25	\$ 473.25
SEPARATE COMPUTER COMPONENTS		\$ -	\$ -	\$ 0.25	\$ -
LAPTOPS		\$ -	\$ -	\$ -	\$ -
PRINTERS	4,672	\$ -	\$ -	\$ -	\$ -
SCANNERS		\$ -	\$ -	\$ 0.25	\$ -
COPY MACHINES		\$ 0.10	\$ -	\$ 0.25	\$ -
CONSOLE TVS		\$ 0.25	\$ -	\$ 0.30	\$ -
NON-CONSOLE TVS		\$ 0.25	\$ -	\$ 0.30	\$ -
LARGE SCREEN TVS	2,798	\$ 0.25	\$ 699.50	\$ 0.30	\$ 839.40
LCD TVS	5,952	\$ -	\$ -	\$ 0.25	\$ 1,488.00
CRT TVS	17,010	\$ 0.20	\$ 3,402.00	\$ 0.30	\$ 5,103.00
OTHER FLAT PANEL TVS		\$ -	\$ -	\$ 0.25	\$ -
VCRS		\$ -	\$ -	\$ 0.25	\$ -
STEREOS		\$ -	\$ -	\$ 0.25	\$ -
TELEPHONES		\$ -	\$ -	\$ 0.25	\$ -
CELL PHONES		\$ -	\$ -	\$ -	\$ -
COFFEE MAKERS		\$ -	\$ -	\$ 0.25	\$ -
VACUUM CLEANERS		\$ -	\$ -	\$ 0.25	\$ -
TOASTERS		\$ -	\$ -	\$ 0.25	\$ -
OTHER: MISC. ELECTRONICS	24,674	\$ -	\$ -	\$ 0.25	\$ 6,168.50
MOBILIZATION/TRANSPORTATION CHARGES PER EVENT		\$ 1,930.00	\$ 5,790.00	\$ 2,880.00	\$ 8,640.00
Costs			\$ 10,142.75		\$ 22,947.05

Eaton County Household Battery Recycling

2023-2024 Household Battery Recycling Program Bid Analysis

Material Per Pound Analysis

	2022 Contracted Price		ERG Bid		RFP Projected Costs		Cirba Solutions		RFP Projected Costs	
Total lbs Collected in 2022	2022 Costs									
ALKALINE	11,627	\$ 0.37	\$ 4,301.99	\$ 0.78	\$ 9,069.06	\$ 0.37	\$ 4,301.99			
ALKALINE/ZINC LARGE	3,193	\$ 0.60	\$ 1,915.80	\$ 0.78	\$ 2,490.54	\$ 0.67	\$ 2,139.31			
LEAD ACID (NON-AUTOMOTIVE TYPE)	0	\$ (0.10)	\$ -	\$ 0.78	\$ -	\$ -	\$ -			
WET LEAD ACID	820	\$ (0.10)	\$ (82.00)	\$ -	\$ -	\$ (0.05)	\$ (41.00)			
NICKEL CADMIUM	601	\$ 0.20	\$ 120.20	\$ 0.78	\$ 468.78	\$ 0.20	\$ 120.20			
HIGH MERCURY BATTERIES	0	\$ 10.50	\$ -	\$ 33.00	\$ -	\$ 10.50	\$ -			
NICKEL METAL HYDRIDE	234	\$ (0.20)	\$ (46.80)	\$ 0.78	\$ 182.52	\$ (0.15)	\$ (35.10)			
LITHIUM	0	\$ 0.05	\$ -	\$ 5.50	\$ -	\$ 0.05	\$ -			
LITHIUM THIONYL	0	\$ 3.25	\$ -	\$ 5.50	\$ -	\$ 3.25	\$ -			
LITHIUM ION	373	\$ 0.05	\$ 18.65	\$ 5.50	\$ 2,051.50	\$ 0.05	\$ 18.65			
LITHIUM ION CELL PHONE	193	\$ (0.15)	\$ (28.95)	\$ 5.50	\$ 1,061.50	\$ (0.15)	\$ (28.95)			
LITHIUM SULFUR DIOXIDE	314	\$ 3.25	\$ 1,020.50	\$ 5.50	\$ 1,727.00	\$ 3.25	\$ 1,020.50			
BUTTON CELLS	45	\$ 3.50	\$ 157.50	\$ 5.50	\$ 247.50	\$ 3.50	\$ 157.50			
OTHER:										
LITHIUM ION DAMAGED (Li-Ion Damaged)	23	\$ 4.25	\$ 97.75	\$ 5.50	\$ 126.50	\$ 4.25	\$ 97.75			
Costs		\$ 7,474.64		\$ 17,424.90		\$ 7,750.85				

Drum and Transportation Analysis

	2022 Contracted Price		ERG Bid		RFP Projected Costs		Cirba Solutions		RFP Projected Costs	
Total Qty Charged in 2022	2022 Costs									
DOT DRUMS FOR STORAGE/TRASPORT	32	\$ 15.00	\$ 480.00	\$ 50.00	\$ 1,600.00	\$ 15.00	\$ 480.00			
TRANSPORTATION FEE	9	\$ 35.00	\$ 1,120.00	\$ 185.00	\$ 5,920.00	\$ 250.00	\$ 2,250.00			
OTHER:				*Transportation fee is per drum		* Transportation fee is per pickup				
EIR CHARGE				6%		N/a				
				*On total invoice Costs						
Costs		\$ 1,600.00		\$ 7,520.00		\$ 2,730.00				
				*Not including EIR Charge						

Total Costs	\$ 9,074.64	\$ 26,441.59	\$10,480.85
		*Including ERI Charge	

Eaton County Resource Recovery
Financial Report
Fiscal Year 2022/23
Through the end of October, 2022

	ORIGINAL BUDGET	ADJUSTED BUDGET	ACTUAL YEAR TO DATE	REMAINING BALANCE	% USED
Revenues					
Administration					
Private Grant	36,000	36,000	-	(36,000.00)	0%
Resource Recovery Services	-	-	-	-	0%
Donations	11,000	11,000	-	(11,000.00)	0%
Transfers-In	81,392	81,392	20,348.00	(61,044.00)	25%
Fund Balance - Carry Over	-	-	-	-	0%
Total Administration Revenues	128,392	128,392	20,348.00	(108,044.00)	
Operational Revenues					
Waste Hauler Licenses	1,800	1,800	-	(1,800.00)	0%
Solid Waste Surcharge	325,000	325,000	-	(325,000.00)	0%
Agricultural Plastic Revenue	2,500	2,500	33.63	(2,466.37)	1%
Total Operational Revenues	329,300	329,300	33.63	(329,266.37)	
Total Revenues	457,692	457,692	20,381.63	(437,310.37)	4%
Expenditures					
Administration					
Personnel	172,210	172,210	9,343.94	162,866.06	5%
Supplies	3,070	3,070	1,048.00	2,022.00	34%
Other Services	7,529	7,529	271.80	7,257.20	4%
Debt Service - Vehicle Lease	8,293	8,293	691.18	7,601.82	8%
Transfer Out - General Fund	944	944	236.00	708.00	25%
Total Administration Expenditures	192,046	192,046	11,590.92	180,455.08	6%
Operational Expenditures					
County Projects	132,350	132,350	-	132,350.00	0%
Local Projects	117,101	117,101	47.57	117,053.43	0%
Total Operational Expenditures	249,451	249,451	47.57	249,403.43	0%
Total Expenditures	441,497	441,497	11,638.49	429,858.51	3%
Excess Revenues over Expenses (Net Carryover)	16,195	16,195	8,743.14	(7,451.86)	54%
Administration					
Revenues	128,392	128,392	20,348.00	(108,044.00)	16%
Expenditures	192,046	192,046	11,590.92	180,455.08	6%
Available Resources from Administration	(63,654)	(63,654)	8,757.08	72,411.08	
Operations					
Revenues	329,300	329,300	33.63	(329,266.37)	0%
Expenditures	249,451	249,451	47.57	249,403.43	0%
Available Resources from Operations	79,849	79,849	(13.94)	(79,862.94)	
Projected Net Carryover	16,195	16,195	8,743	(7,451.86)	
9/30/2022 Fund Balance	132,832	132,832	132,832		
Projected 9/30/2023 Fund Balance	132,832	132,832	141,575		

**Eaton County Resource Recovery
Program Update**
Fiscal Year 2022/23
Through the end of October, 2022

	Adopted Budget	Budget Amendments	Amended Budget	YTD Transactions	Amended Budget Less YTD Transactions	% Used
Summary of Programs						
529 - County Programs						
Roadside Cleanup	1,900.00	-	1,900.00	-	1,900.00	0.0%
Household Battery Collection	11,000.00	-	11,000.00	-	11,000.00	0.0%
Scrap Tire Collection	36,000.00	-	36,000.00	-	36,000.00	0.0%
Household Hazardous Waste Collection	60,000.00	-	60,000.00	-	60,000.00	0.0%
Education Programs	1,000.00	-	1,000.00	-	1,000.00	0.0%
Electronic Recycling	18,000.00	-	18,000.00	-	18,000.00	0.0%
Event Supplies & Contractual	1,200.00	-	1,200.00	-	1,200.00	0.0%
Promotion Programs	3,250.00	-	3,250.00	-	3,250.00	0.0%
Total	132,350.00	-	132,350.00	-	132,350.00	0.0%
530 - SWAG Programs						
Bellevue/Olivet	17,501.00	-	17,501.00	-	17,501.00	0.0%
Charlotte Area Recycling (CARA)	28,500.00	-	28,500.00	-	28,500.00	0.0%
Delta Twp - Recycling Center	27,600.00	-	27,600.00	-	27,600.00	0.0%
City of Grand Ledge - Recycling	21,500.00	-	21,500.00	-	21,500.00	0.0%
Sunfield Recycling Center (Pilot Project)	22,000.00	-	22,000.00	47.57	21,952.43	0.2%
Total	117,101.00	-	117,101.00	47.57	117,053.43	0.0%



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

Directors Report-November 9th, 2022

Monthly Briefing:

Trunk or Treat: On October 29th the recreation trailer was used for a Trunk or Treat event held at the Church of Nazarene located in Grand Ledge. The Recreation Coordinator provided crafts and activities for program participants.

Grand Ledge Cross-Country Invitational Event: On October 12th the annual Grand Ledge Cross Country Invitational Run was held at Fitzgerald Park. Eaton County Staff sold 467 passes with an estimate of 517 cars. This came to an average of 3.44 a minute generating \$2335.00 in total revenue averaging \$15.56 per minute.

Priority Health Grant Update: Still working on obtaining funding for the Fitness Court. I am hoping some of the organizations I have spoken with will get back to me soon.

Easement: The draft request for an easement at 3575 Curtis Road has been completed and approved by Tim Perrone. At this time, I will ask the Board of Commissioners to approve this.

Spark Grant: The Spark Grant application process opened on October 24th 2022. I am currently working with Zoning and Planning on a Conditional Use Permit Application for changes at Crandell Park. At this time the changes include adding an interior road, beach development, construction of bathroom, playgrounds, pavilions, gatehouse, and parking lots. Through the 2022 Spark Grant requesting approval to apply for funds in the amount of 1 million dollars for the construction of a new entrance off Stewart Road and an interior road inside Crandell Park. After speaking with Eaton County Road Commission and Zoning and Planning I am recommending the park entrance should be constructed off South Stewart Road.

Old Business:

1 Ton Truck: Still waiting on delivery.

Crandell Boat: Disposing in early/late winter.

RIGHT OF WAY EASEMENT AGREEMENT

This Right of Way Easement Agreement is made on _____, by and between **EATON COUNTY**, a Michigan political subdivision, whose address is 1045 Independence Boulevard, Charlotte, Michigan 48813 ("County") and **ARLINE C. VINCENT, deceased, BY JOHN C. VINCENT, PERSONAL REPRESENTATIVE OF THE ESTATE OF ARLINE VINCENT** ("Grantee") whose address is 3575 Curtis Road, Nashville, Michigan 49073 (collectively, the "Parties").

WHEREAS, Grantee owns a parcel of real property in the Township of Vermontville, Eaton County, Michigan, as more fully described in Exhibit A ("the Property");

WHEREAS, the County owns the Thornapple Trail within the Eaton County Parks system that bisects the Property, as more fully shown in Exhibit B.

WHEREAS, Grantee desires to obtain a 30' wide right of way easement from the County for purposes of ingress and egress to cross over the Thornapple Trail so as to have unobstructed access to the Property on both sides of the Thornapple Trail which belongs to Grantee, and to ensure that no portion of the Property is land locked: and

WHEREAS the Parties desire to enter into an agreement for the County's grant of a right of way easement to Grantee.

NOW, THEREFORE, the Parties agree:

1. For and in consideration of One and NO/100 Dollars (\$1.00), the County grants Grantee a thirty foot (30') wide right of way easement to cross the Thornapple Trail, including by the use of motor vehicles, for ingress and egress to access the Property that lies on both sides of the Thornapple Trail. A graphic depiction of the location of the right of way easement is set forth in Exhibit C.

2. County reserves the right to concurrent use of the land subject to this right of way easement, limited only by Grantee's right to unobstructed ingress and egress over the right of way easement area.

3. Grantee agrees that they will not block or obstruct in any way the Thornapple Trail which runs through the Property.

4. The right of way easement shall be maintained at the cost of the Grantee.

5. Grantee shall indemnify and hold the County harmless for any and all claims made as a result of Grantee's use of the right of way easement.

6. This right of way easement is permanent, shall run with the land, and be binding upon and inure to the benefit of the Parties as well as their successors and assigns.

7. The persons signing this Agreement on behalf of the Parties certify by their signatures that they are duly authorized to sign this Agreement on behalf of the Parties, and that this Agreement has been authorized by the Parties.

8. This Right of Way Easement Agreement is exempt from real estate transfer taxes pursuant to MCL 207.505(h) and MCL 207.526(h).

IN WITNESS WHEREOF, the authorized representatives of the Parties hereto have fully signed and entered into this Agreement on the day and year first above written

EATON COUNTY - GRANTOR

By: _____
Jeremy Whittum, Chairperson
Eaton County Board of Commissioners

STATE OF MICHIGAN)
)
COUNTY OF _____)

This Right of Way Easement Agreement was acknowledged before me, a Notary Public, on this _____ day of _____, 2022, by Jeremy Whittum, Chairperson, Eaton County Board of Commissioners, as Grantor.

_____, Notary Public
My Commission Expires: _____

**ARLINE C. VINCENT, deceased, by JOHN C. VINCENT, PERSONAL
REPRESENTATIVE OF THE ESTATE OF ARLINE VINCENT - GRANTEE**

By: _____
John C. Vincent

STATE OF MICHIGAN)
)
COUNTY OF _____)

This Right of Way Easement Agreement was acknowledged before me, a Notary Public, on this _____ day of _____, 2022, by John C. Vincent, on behalf of Arline C. Vincent, deceased, as Personal Representative of the Estate of Arline Vincent, as Grantee.

_____, Notary Public

My Commission Expires: _____

When recorded, please return to:

John C. Vincent
3575 Curtis Road
Nashville, Michigan 49073

*This instrument prepared by:
Michael E. Licari, Attorney #P81772
Bonahoom & Bobilya, LLC
927 S. Harrison St., Ste. 200, Fort Wayne, IN 46802*



Via Email

October 17, 2022

Mr. John Fuentes
Eaton County Controllers Office
1045 Independence Blvd.
Charlotte, MI 48813

Re: **Semi-Annual Groundwater Monitoring – October 2022**
Eaton County Landfill

Dear Mr. Fuentes:

This letter has been prepared in association with the second semi-annual groundwater and surface water sampling event of 2022 at the referenced site. Sampling was conducted on September 26 through September 29, 2022. During this sampling event, static water levels were measured in 16 monitoring wells, groundwater samples were collected from 14 monitoring wells (MW-2s, MW-2d, MW-3, MW-7r, MW-8s, MW-8dr, MW-10s, MW-10d, MW-15s, MW-15d, MW-17s, MW-17d, MW-18s, 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. With respect to MW-12r, 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, therefore it was also not sampled.

Strata personnel obtained static water level measurements from 16 monitoring wells on September 26, 2022. A summary of the groundwater elevation data is presented as 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 the lab 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 northwest, which is consistent with historic data.

The table included as 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 not detected at or above their compound-specific reporting limits in any of the groundwater samples except MW-15s, MW-17s, and MW-17d. The groundwater sample from MW-15s contained benzene (3.0 µg/l), 1,1-dichloroethane (6.0 µg/l), 1,2-dichloroethane (3.1 µg/l) cis-1,2-dichloroethene (110 µg/l), trans-1,2-dichloroethene (5.8 µg/l), 1,2-dichloropropane (2.3 µg/l), diethyl ether (29

µg/l), trichloroethene (29 µg/l) and vinyl chloride (7.7 µg/l). Monitor wells MW-17s and MW-17d contained vinyl chloride at 1.8 µg/l and 1.2 µg/l, respectively. These two wells are located hydraulically downgradient from MW-15s. Of these reported VOC concentrations, the cis-1,2-dichloroethene, diethyl ether, trichloroethene, and vinyl chloride concentrations in MW-15s exceed their respective Drinking Water (DW) Generic Residential Cleanup Criteria (GRCC) of 70, 10, 5, and 2 µg/l, respectively

Inorganic and metal analytical results for groundwater samples indicate that the reported concentrations of all parameters, except iron, magnesium, manganese, zinc, and total dissolved solids (TDS) are either below their respective reporting limits and/or GRCC, if published. Iron was detected in all of the water samples (except the samples from MW-8s and MW-8dr) at concentrations that range from 260 µg/l (MW-3) to 3,800 µg/l (MW-17s). The reported iron concentrations exceed its DW GRCC (300 µg/l) in all of the well samples in which it was detected except MW-3. 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 the groundwater samples above its reporting limit. Only the magnesium concentration in MW-15s (460,000 µg/l) exceeds its DW GRCC of 400,000 µg/l. Manganese was present in the water samples obtained from MW-2s, MW-2d, MW-7r, MW-8dr, MW-15s, MW-17s, MW-19s, at concentrations that range from 52µg/l (MW-2d) to 890 µg/l (MW-15s). 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. Zinc was detected in each of the groundwater samples except MW-8dr. Zinc concentrations in the groundwater samples range from 71µg/l (MW-7r) to 40,000 µg/l (MW-15s). The reported zinc concentrations in MW-15s (40,000 µg/l), MW-15d (3,400 µg/l), and MW-17d (6,000 µg/l) exceed zinc's DW GRCC of 2,400 µg/l. All groundwater samples contained TDS (total dissolved solids) at concentrations that range from 130,000 µg/l (MW-10s) to 600,000 µg/l (MW-15s). The TDS concentrations in MW-7r, MW-15s, and MW-17d exceed their DW and Groundwater/Surface Water Interface (GSI) GRCC of 500,000 µg/l.

Surface water quality results indicate that one VOC was detected this event. Sample SW-1 contained 32.5 µg/l toluene. 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 exceed ND HNV, ND HCV, or WV.

The next semi-annual sampling event is scheduled for March 2023. 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.

Michael C. Serafini, CPG
Principal

Encls.

Cc: Mr. Evin Maguire (EGLE)
R.B. _____
9261422L.083



Via Email

October 12, 2022

Mr. John Fuentes
Eaton County Controllers Office
1045 Independence Blvd.
Charlotte, MI 48813

Re: **Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)**
Semi-Annual Groundwater Sampling, Eaton County Landfill

Dear Mr. Fuentes:

Strata Environmental Services, Inc. (Strata) completed the semi-annual sampling of five monitor wells (MW-3s, MW-15s, MW-15d, MW-17s, 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 September 26, 2022 to conduct the second semi-annual PFAS sampling event of 2022. Prior to sampling each well, the static water level was measured and recorded on the field data sheets (Attachment 1). 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 556 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 field data sheets. 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 with trizma buffer. 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 (March 2022) samples were analyzed for 28 PFAS compounds (recommended by EGLE). Since then, three more compounds have been added to the list, therefore during this event, samples were analyzed for 31 PFAS compounds by USEPA Method 0537.1M. 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)
Perfluorooctanoic acid (PFOA)
Perfluoroethylcyclohexane Sulfonate (PFECBS)

Perfluorobutanesulfonic acid (PFBS)
Perfluoro-n-pentanoic acid (PFPeA)
Perfluoropentane sulfonic acid: (PFPeS)

Perfluoroheptanoic acid (PFHpA)
Perfluorohexanesulfonic acid-total (PFHxS)

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	PFHxS (total)	PFOA	PFPeA	PFPeS	PFECHS
MW-3	ND	ND	ND	ND	ND	ND	ND	ND	5.7
MW-15s	11	3.1	5.4	11	3.1	19	10	2.1	6.8
MW-15d	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-17s	2.6	ND	ND	1.7	ND	ND	2.6	ND	ND
MW-19s	12	7.3	1.3	11	ND	ND	8.1	ND	ND
Field Blank	ND	ND	ND	ND	ND	ND	ND	ND	ND
Equip. Blank	ND	ND	ND	ND	ND	ND	ND	ND	ND
MCL	NA	420	NA	400,000	51	8	NA	NA	NA

Gray shaded cell denotes concentration exceeds MCL

ND: Not detected above compound-specific reporting limit

*: Denotes compound detected in field blank

The reported concentrations this sampling event are similar to the last time the wells were sampled in March 2022 with the exception of 5.7 ng/L and 6.8 ng/L PFECHS detected in MW-3 and MW-15s, respectively. The detection of PFECHS this event when compared to previous events is because it is one of the three new compounds added to the PFAS analyte list. As can be seen in Table 1, of the nine PFAS compounds detected in the groundwater at the former Eaton County Landfill site, only the concentration of PFOA (19 ng/L) in MW-15s exceeds its 8 ng/L MCL.

The next scheduled semi-annual PFAS sampling event is in March 2023. 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.


Michael C. Serafini, CPG
Principal

Enclosures

R.B. 
9261422L.082

John Fuentes

From: Mike Serafini <serafini@strataenvironmentalservices.com>
Sent: Monday, October 17, 2022 9:11 AM
To: John Fuentes
Subject: ECLF Semi-Annual GW Monitoring
Attachments: ECLF Semi-Annual Oct 2022 RPT.pdf

Hi John,

Attached is the October 2022 semi-annual groundwater monitoring report for the subject site. Several of the monitoring wells at the site (MW-2s&d, MW-10d, MW-15s&d, and MW-17s&d) have been deteriorating with time and are beyond their functional use. There are also elevated zinc concentrations (above criteria) which we believe is a direct function of deteriorated galvanizing. Most important are MW-15s&d and MW-17s&d where we have observed VOC and PFAS impact. Given that monitoring of this site will be ongoing, we believe it advisable to start replacing some of these wells and eliminate the galvanized casing. Please let me know if you have any questions.

Thanks,

Mike

*Michael C. Serafini, CPG
Principal*



538 W. Ash Street, Mason, MI 48854
Office: (517) 676-6900 Fax: (517) 676-8834
Cell: (517) 819-1383
E-mail: serafini@strataenvironmentalservices.com



COST ESTIMATE

ECLF Monitor Well Repacements

11/2/2022

<u>I. PROFESSIONAL SERVICES</u>	NO. OF HOURS	HOURLY RATE	COST
PRINCIPAL CONSULTANT	1	\$120.00	\$120.00
PROJECT DIRECTOR/HYDROGEOLOGIST	90	\$98.00	\$8,820.00
PROJECT MANAGER		\$90.00	\$0.00
PROJECT GEOLOGIST		\$80.00	\$0.00
ASSOCIATE GEOLOGIST		\$70.00	\$0.00
STAFF GEOLOGIST/ENVR. SCIENTIST		\$60.00	\$0.00
FIELD TECHNICIAN	5	\$55.00	\$275.00
WORDPROCESSING	1	\$35.00	\$35.00
		SUBTOTAL I	\$9,250.00

<u>II. SUBCONTRACTOR CHARGES</u>	EST	ADM. FEE	
DRILLING CONTRACTOR	\$22,672.00	\$2,834.00	\$25,506.00
LABORATORY		\$0.00	\$0.00
		\$0.00	\$0.00
		SUBTOTAL II	\$25,506.00

<u>III. EXPENSES</u>	UNITS	RATE	
CONCRETE CORING 10" (CORE)		\$100.00	\$0.00
CONCRETE CORING 3" (CORE)		\$75.00	\$0.00
CONDUCTIVITY METER (DAY)		\$30.00	\$0.00
DATA LOGGER (DAY)		\$275.00	\$0.00
DISPOSABLE BAILERS (EACH)		\$20.00	\$0.00
DISSOLVED OXYGEN METER (DAY)		\$50.00	\$0.00
ELECTRICAL JACKHAMMER (DAY)		\$60.00	\$0.00
FIELD FILTER (SAMPLE)		\$15.00	\$0.00
FIELD FILTER IN-LINE (SAMPLE)		\$22.50	\$0.00
GA 90 METER (3 DAYS to WEEK)		\$500.00	\$0.00
GA 90 METER (DAY)		\$350.00	\$0.00
GENERATOR UP TO 6.5 KW (DAY)		\$50.00	\$0.00
HAND AUGER KIT (Stainless Steel)		\$25.00	\$0.00
INTERFACE PROBE		\$60.00	\$0.00
JACK HAMMER		\$50.00	\$0.00
KEMMERER SAMPLER (DAY)		\$50.00	\$0.00
LOCKING WELL CAPS (EACH)		\$15.00	\$0.00
LOCKS (EACH)	4	\$10.00	\$40.00
METAL DETECTOR (DAY)		\$50.00	\$0.00
METHANOL KITS/EXTRACTION SOIL		\$11.25	\$0.00
MILEAGE	360	\$0.85	\$306.00
PERISTALTIC PUMP		\$40.00	\$0.00
P.I.D. (DAY)		\$75.00	\$0.00
Chop Saw and Blades (3 days)		PER JOB	\$0.00
Personal Protective Gear & Plastic Sheeting		PER JOB	\$0.00
pH METER (DAY)		\$20.00	\$0.00
SAMPLING PUMP (DAY)		\$125.00	\$0.00
SAMPLING SUPPLIES (LEVEL "D"/ DAY)		\$25.00	\$0.00
SAMPLING SUPPORT EQUIPMENT (DAY)		\$75.00	\$0.00
SAND/BENTONITE/CONCRETE/ASPHALT PATCH		\$15.00	\$0.00
SURVEY GEAR (DAY)	1	\$30.00	\$30.00
WATER LEVEL INDICATOR (DAY)	1	\$30.00	\$30.00
		SUBTOTAL III	\$406.00

TOTAL ESTIMATED COST	\$35,162.00
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TERMS: Actual invoice will be based on actual times and materials spent.
Balance due upon receipt.
1.25% interest per month (15% APR) charged on all invoices due after 30 days.