

East Grand Rapids 2021 MS4 Progress Report

GENERAL

Did you identify, construct, or install any new outfalls or points of discharge that have not been authorized?

Yes No

ENFORCEMENT RESPONNS PLAN (ERP)

How many enforcement actions were taken during the reporting period?

An enforcement action is a violation of an ordinance and could impact water quality (unauthorized discharges). This could include fines, citations, stop work orders, or other tools identified on relevant ordinances.

Two: one that the City reported to EGLE that was outside of EGR city limits, the other was on Bonnell Ave. (see attached)

PUBLIC EDUCATION PROGRAM

fill out PEP form

ILLICIT DISCHARGE ELLIMINATION PROGRAM (IDEP)

How many outfalls and discharge points are in your MS4? Click or tap here to enter text.

Was any dry weather screening performed last year?

Yes No

If yes, explain: Screening will be performed next in summer of 2024

How many illicit discharges or illicit connections were detected during the reporting period? 1- located on Bonnell Ave, which was reported to EGLE

For each illicit discharge/connection:

Describe the illicit discharge/connection, include date/time:See attached

How much material was released to the environment?See attached

Cleanup action taken:See attached

Was the illicit discharge eliminated, or what is the schedule for elimination? See attached

Did the illicit discharge led to an enforcement action?Cooperative Enforcement by EGLE

CONSTRUCTION STORMWATER RUNOFF CONTROL PROGRAM

Part 91 Agency Status:

MEA CEA Utilizing CEA APA

Was the Part 91 agency, or appropriate staff if you are the Part 91 agency, notified when the soil or sediment was discharged to your MS4 from a construction activity in accordance with the approved procedure?

Yes No

Was EGLE notified when soil, sediment, or other pollutants were discharged to your MS4 from a construction activity in accordance with the approved procedure?

Yes No

Was a Part 91 permit issued for all construction activity one acre or greater in total earth disturbance with the potential to discharge to your MS4?

Yes No

Were all landowners or recorded easement holders of a property with construction activity one acre or greater in total earth disturbance advised of the State of Michigan Permit by Rule in accordance with the approved procedures?

Yes No

Any other comments regarding the Soil Erosion and Sedimentation Control (SESC) program: KCRC is the CEA

POST-CONSTRUCTION STORMWATER RUNOFF PROGRAM

Were the post-construction stormwater standards applied to all projects that disturb at least one or more acre that are part of a larger common plan of development or sale, in accordance with the approved ordinance/regulatory mechanism?

Yes No

Who reviews site plans for your community? Please list the reviewers contact information so GVMC can keep them in the loop with LGROW Design Spreadsheet Updates. [Click or tap here to enter text.](#)

Did you implement the approved procedure for reviewing the use of infiltration BMPs to meet the stormwater standards in areas of soil or groundwater contamination?

Yes No EGR DPW facility at 2310 Reeds Lake Blvd.

Were BMPs to address potential hot spots required in accordance with the stormwater standards?

Yes No

Were all site plans reviewed and approved to ensure compliance with the stormwater standards?

Yes No

Did you approve projects subject to your off-site mitigation or payment in lieu program during the reporting period?

Yes No City does not have a program

How many developments/redevelopments were approved under the new stormwater standards?

None

How many maintenance agreements have been signed? N/A

How many inspections/audits of maintenance agreements were completed? None

POLLUTION PREVENTION AND GOOD HOUSEKEEPING

Property Name: Municipal Parking Lot @ 659 Croswell Ave.				
Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Catch Basin sumps	Annually	5 year cycle Clean sumps (Public Works Complex)	Catch basins in this lot were cleaned in and inspected this reporting period.	Effective. Catch basins are functioning properly.
Property Name: EGR Community Center @ 750 Lakeside Drive				
Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Catch Basin sumps	Annually	5 year cycle. Clean sumps (Public Works Complex)	Catch basins in this lot were cleaned in and inspected this reporting period.	Effective. Catch basins are functioning properly.
Storm Sewer Separator	Annually	Annually or as needed. Clean chamber (Public Works Complex)	The separator was cleaned during the reporting period.	Effective. Functioning properly.
Property Name: Water Tower Property @1745 Woodlawn Ave.				

Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Grassy swale	Annually	Annually or as needed. Clean swale of debris and maintain turf. (Public Works Complex G.M.)	Swale was mowed regularly during the reporting period.	Effective. The swale filters storm water and prevents debris from entering the storm sewer system. The debris is regularly handpicked.

Property Name: Manhattan Park @ 430 Manhattan Rd.

Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Catch Basin sumps	Annually	5 year cycle. Clean sumps (Public Works Complex)	Catch basins in this lot were cleaned in and inspected this reporting period.	Effective. Catch basins are functioning properly.
Grassy swales	Annually	Annually or as needed. Clean swale of debris and maintain turf. (Public Works Complex-G.M.)	Swales are cleaned annually of any/all debris. Most swales in this area remain in their natural state providing excellent runoff filtration.	Effective. The grassy swale filters storm water and prevents silt and debris from entering the storm sewer system.

Property Name: John Collins Park @650 Lakeside Dr.

Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Rain Garden	Annually	Annually or as needed. Clean garden of debris and maintain garden plants (Public Works Complex-G.M.)	Rain garden is cleaned of debris on a routine basis.	Effective. The rain garden drains properly so it provides an effective means of storm water treatment for a portion of the park.
Property Name: Waterfront Park@2206 Reeds Lake Blvd.				
Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Vegetative Buffer Strips along shore line.	Annually	Annually or as needed. Clean Buffer and maintain vegetation (Public Works Complex-G.M.)	The buffer strips along the shoreline have been routinely cleaned of debris and inspected throughout the reporting period.	Effective. The vegetative buffer filters storm water, slow runoff and prevent silt and debris from entering Reeds Lake.
Property Name: Public Works Complex/Remington Park @2310 Reeds Lake Blvd.				
Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation

Catch Basin Sumps	Annually	Annually or as needed. Clean sumps (Public Works Complex)	Catch basin sumps were cleaned during reporting period.	Effective. Catch basins are functioning properly.
Grassy swale and vegetative buffer strip	Annually	Annually or as needed. Clean and maintain turf, vegetation (Public Works Complex-G.M.)	The natural vegetative buffer strips are cleaned of debris routinely.	Effective. Grassy swale and vegetative buffer strip are functioning properly.
Grassy detention pond	Annually	5 year cycle or as needed. Clean out sediment (Public Works Complex)	Clean out sediment.	Effective. Detention pond functioning properly.

Property Name: City Streets

Structural Storm Water Control	Inspection Frequency	Maintenance Schedule	Inspection and Maintenance Conducted and Location of Log (if applicable)	Effectiveness of Control and Support Documentation
Catch Basin Sumps	5 year cycle	5 year cycle or as needed. Clean sumps (Public Works Complex)	36 catch basins were cleaned during the reporting period.	Effective. Catch basins are functioning properly.
Sanitary Sewer Separator	Annually	Annually or as needed. Clean Chamber (Public Works Complex)	Separator was cleaned during the reporting period.	Effective. Functioning properly.
Storm sewer system	5 year cycle	5 year cycle. Clean sewer lines (Public Works Complex)	No Storm Sewer was cleaned between contractors and city crews during	Cleaning storm sewers removes any residual of debris and sediment from the system before ultimately entering the public waters of the state. This cleaning is

			the reporting period.	an effective means of storm water treatment as it further catches sediments and debris for the public street system after entering the storm system.

Were inspections done 2x/year at high priority facilities?

Yes No **To begin inspections in 2022**

Did you inspect catch basins?

Yes No **[Insert SWMP Table 17 catch basin cleaning requirement]**

How many? 87 See attached log

[Insert catch basin cleaning log, any associated invoices]

Table 17. Catch Basin Cleaning Prioritization						
The table below prioritizes applicant owned catch basins for cleaning based on their potential to discharge pollutions to surface waters of the state. Locations may be described or referenced on a map.						
Location	Priority (High, Medium, or Low)	Inspection Frequency	Maintenance Frequency	Disposal	TSS Removal (High, Medium, or Low)	2021 Inspection and Maintenance
Reeds Lake Blvd. & Pioneer Club Rd. Intersection	High	Every Month	Spring and Fall Annually	Liquid drained to Sanitary Solids stored and landfilled	Medium	Completed in Spring and Fall of 2021
Manhattan Parking Lot	Medium	Spring and Fall Annually	Fall Annually	Liquid drained to Sanitary Solids stored	Low	None competed in 2021

Table 17. Catch Basin Cleaning Prioritization

The table below prioritizes applicant owned catch basins for cleaning based on their potential to discharge pollutions to surface waters of the state. Locations may be described or referenced on a map.

Location	Priority (High, Medium, or Low)	Inspection Frequency	Maintenance Frequency	Disposal	TSS Removal (High, Medium, or Low)	2021 Inspection and Maintenance
				and landfilled		
El Dorado Dr. and Kenesaw Dr. Intersection	High	Every Month	Spring and Fall Annually	Liquid drained to Sanitary Solids stored and landfilled	Medium	Completed in Spring and Fall of 2021

Did you perform street sweeping?

Yes No [Insert street sweeping log, any associated invoices]

Table 18. Sweeping Prioritization

The table below prioritizes applicant owned impervious surfaces for sweeping based on their potential to discharge pollutions to surface waters of the state. Locations may be described or referenced on a map.

Location	Priority (High, Medium, or Low)	Sweeping Frequency	Disposal	TSS Removal (High, Medium, or Low)	2021 Sweeping Log
DPW Parking Lot	High	Once per Spring and Fall	Liquid drained to Sanitary Solids stored and landfilled	Medium	Completed in Spring and Fall of 2021
Manhattan	Medium	Once per Spring and Fall	Liquid drained to Sanitary Solids stored and landfilled	Low	No
Post Construction Sites as needed – Residential, Commercial, Municipal	High	As needed	Liquid drained to Sanitary Solids stored and landfilled	High	Yes

Is your pesticide applicator certified by the State of Michigan?

Yes No

Was contractor oversight provided to ensure contractors hired by the permittee comply with Pollution Prevention and Good Housekeeping practices?

Yes No

TOTAL MAXIMUM DAILY LOAD (TMDL) IMPLEMENTATION PLAN

[GVMC will insert TMDL report]

TRAINING

Were new employees hired in the past year?

Yes No

Did new employees receive stormwater training?

Yes No

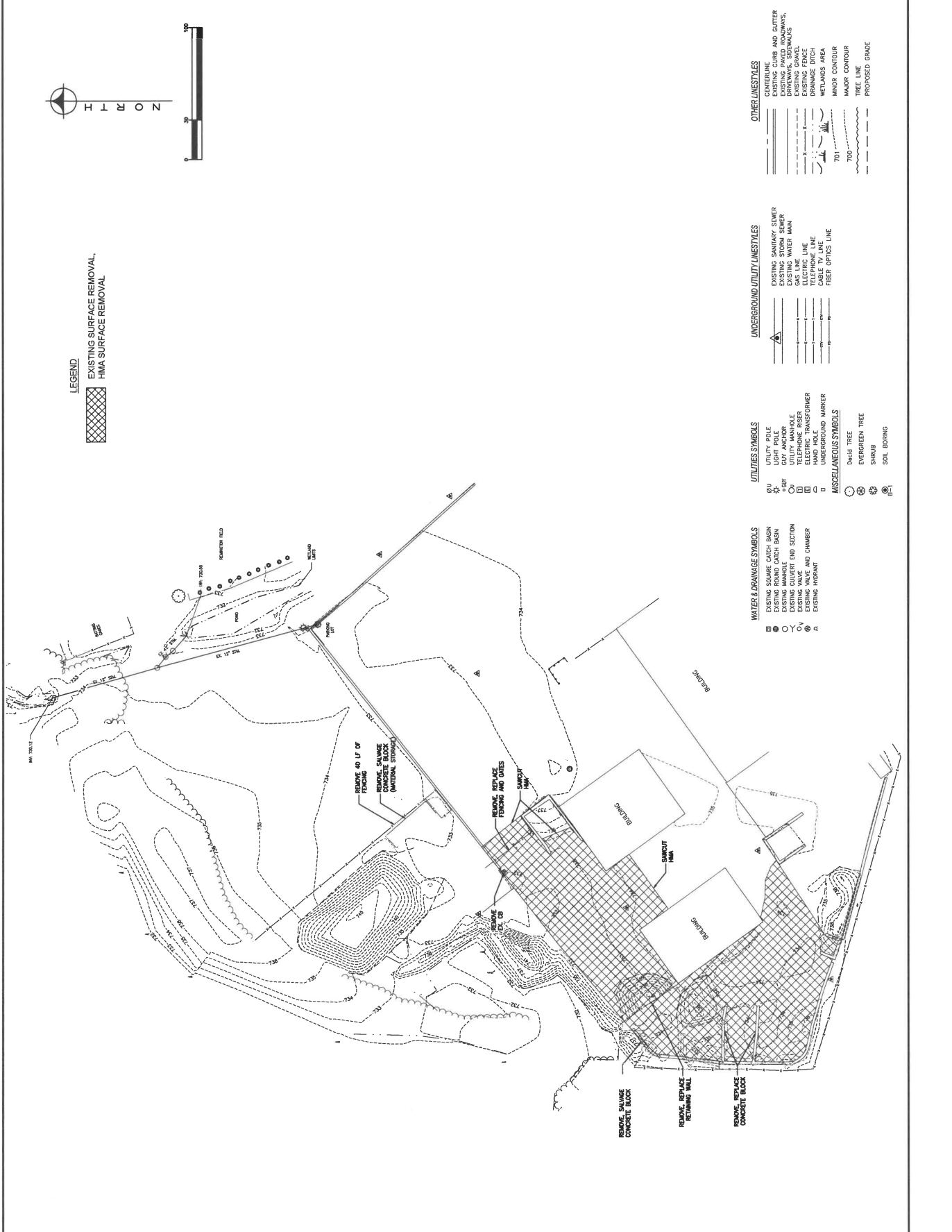
List any stormwater training that was completed by your community last year: DPW Director conducted training during his weekly meetings with staff.

OTHER

Please list any extra efforts that your community has conducted to reduce stormwater pollution, enhance watershed efforts, or that you would like EGLE to be aware of: Jan 18, 2021 KDL EGR branch for MLK Day service opportunity for 3rd-5th grade, got a 'water protector' button for cleaning out and adopting a storm drain.

Three additional dry wells were installed in 2021. They are in REGIS.





LEGEND

EXISTING SURFACE REMOVAL,
HMA SURFACE REMOVAL



omm engineering, inc.
civil engineers/surveyors
1680 east park, s.e.
grand rapids, mi. 49546
616-957-4350

CITY OF EAST GRAND RAPIDS
Kent County, Michigan
DEPARTMENT OF PUBLIC WORKS
PARKING LOT IMPROVEMENTS

drawn by	date
1/18	1/18
checked by	date
1/18	1/18
project number	
sheet number	1
of	1

- UTILITIES SYMBOLS**
- Utility Pile
 - Day Anchor
 - Utility Manhole
 - Electric Transformer
 - Hand Hole
 - Underground Marker
- MISCELLANEOUS SYMBOLS**
- Dead Tree
 - Evergreen Tree
 - Shrub
 - Soil Boring
- WATER & DRAINAGE SYMBOLS**
- Existing Square Catch Basin
 - Existing Rectangular Catch Basin
 - Existing Manhole
 - Existing Culvert End Section
 - Existing Valve and Chamber
 - Existing Hydrant
- UNDERGROUND UTILITY LINES**
- Existing Sanitary Sewer
 - Existing Storm Sewer
 - Existing Water Main
 - Electric Line
 - Telephone Line
 - Fiber Optics Line
- OTHER LINES**
- Centerline
 - Existing Paved Roadways
 - Existing Sidewalks
 - Proposed Grade
 - Existing Fence
 - Drainage Ditch
 - Wetlands Area
 - Major Contour
 - Tree Line
 - Proposed Grade

REMOVAL

RE: Bonnell Street Investigation - Update and request for Secchia contact for letter

Respectfully,
Doug



From: Wierzbicki, David (EGLE) <WIERZBICKID@michigan.gov>
Sent: Tuesday, February 15, 2022 1:30 PM
To: David Johnson <djohnson@eastgr.org>; Doug LaFave <dlafave@eastgr.org>
Cc: Cara Decker <deckerc@gvmc.org>; Bandlow, David (EGLE) <BandlowD@michigan.gov>; Poll, Jason (EGLE) <PollJ@michigan.gov>
Subject: RE: Bonnell Street Investigation - Update and request for Secchia contact for letter

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

David and Doug,

Here is the update for Bonnell Street.

I informed Joan Secchia via email on 2/11/21 that they should continue to monitor the sanitary sewer lateral for fuel odors and promptly remove any fuel, if present, coordinating the work with the City. I also let them know that they would need to properly manage and dispose of any contaminated soils encountered in the future on the property, and that EGLE intended to monitor the ravine and discharge areas for odors, and may require additional investigations or responses from the adjacent property owners, if warranted. On 6/4/21 I inspected the seep area by the lake and it was dry, with no odors and the small pooling area was filled in. I also walked up the ravine to about where the Secchia and south discharges were and noted no odor or sheens on the small trickle of water in the ravine.

Based on the absence of odors during these most recent inspections and the fact that contaminants were not detected in the ravine seeps and the seep area by the lake during the last sampling event, EGLE considers this matter resolved. The City may want to monitor the sanitary sewer cleanout on the Secchia property periodically for fuel odors. Please let me know if you note any odors during your inspections. We appreciate your cooperation during the investigation work.

Please contact me if you have questions.

David Wierzbicki
Incident Management Specialist
Remediation and Redevelopment Division / Grand Rapids District Office

FW: Bonnell Street Investigation - Update and request for Secchia contact for letter

Doug LaFave <dlafave@eastgr.org>

Thu 2/4/2021 7:57 AM

To: David Johnson <djohnson@eastgr.org>

📎 2 attachments (9 MB)

Bonnell Map 1-19-21.pdf; 2012140_1 ENVReport 01 13 2021 0829.pdf;

Dave: FYI for our GVMC monitoring.



From: Wierzbicki, David (EGLE) <WIERZBICKID@michigan.gov>

Sent: Thursday, February 4, 2021 6:51 AM

To: JTaylor@rockfordconstruction.com

Cc: Bandlow, David (EGLE) <BandlowD@michigan.gov>; Worm, Michael (EGLE) <WORMMM@michigan.gov>; Poll, Jason (EGLE) <PollJ@michigan.gov>; Hendershott, Abigail (EGLE) <HENDERSHOTTA@michigan.gov>; Doug LaFave <dlafave@eastgr.org>

Subject: RE: Bonnell Street Investigation - Update and request for Secchia contact for letter

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Jeremy,

I'm providing you with an update on the Department of Environment, Great Lakes, and Energy (EGLE) Bonnell street investigation, and asking for a contact for the Secchias so that I can provide them with this same information in a letter along with a copy of the SME report I received via email on 1/21/21.

On 12/9/20 I inspected the Secchia drain tile removal and the area from the lawn west down to the ravine did not appear disturbed from excavation work. I screened the slow groundwater seep on the west side of the ravine by the Keller property and the trickle of water from the Secchia drain tile pipe on the east side of the ravine with my Photo Ionization Detector, with no Volatile Organic Compounds (VOCs) detections at either spot. There were low level odors at each location, so I collected water samples from both. I also collected a sample from the seep area at the lake (SW-2), but the level in the depression was low, and water was not overflowing into the lake (see attached map). No VOCs were detected in the three samples (results attached).

EGLE will inform the Secchia's that they should continue to monitor the sanitary sewer lateral for fuel odors and promptly remove any fuel, if present, coordinating the work with the City. We will also let them know that they would need to properly manage and dispose of any contaminated soils encountered in

the future on the property, and that EGLE intends to monitor the ravine and discharge areas for odors, and may require additional investigations or responses from the adjacent property owners, if warranted.

Please provide me with the contact information at your earliest convenience. Thank you. I appreciate your cooperation regarding this investigation.

Please contact me if you have questions.

David Wierzbicki
Incident Management Specialist
Remediation and Redevelopment Division / Grand Rapids District Office
Michigan Department of Environment, Great Lakes, and Energy
[517-420-2605](tel:517-420-2605) | wierzbickid@michigan.gov
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**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

13 January 2021

Work Order: 2012140

Price: \$345.00

David Wierzbicki
EGLE-RRD-GRAND RAPIDS
350 Ottawa Ave. NW, Unit 10
Grand Rapids, MI 49503-2341
RE: BONNELL INVESTIGATION

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane
Laboratory Director

EGLE-RRD-GRAND RAPIDS
350 Ottawa Ave. NW, Unit 10
Grand Rapids MI, 49503-2341

Project: BONNELL INVESTIGATION
Site Code: 7752
Project Manager: David Wierzbicki

Reported:
01/13/2021

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
BONNELL RAVINE SEEP W.	2012140-01	Water	12/09/2020	12/16/2020	
BONNELL RAVINE PIPE E.	2012140-02	Water	12/09/2020	12/16/2020	
BONNELL SW-2.	2012140-03	Water	12/09/2020	12/16/2020	

Notes and Definitions

- X Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 °C. 2-Methylnaphthalene & naphthalene have boiling points above 200 °C and are better suited to analysis by methods 8270 & 625 as semivolatile organics.
- A11 Result is estimated due to high initial verification standard criteria failure.
- A06 Result is estimated due to high continuing calibration standard criteria failure.
- A04 Result is estimated due to high matrix spike recovery.
- ND Indicates compound analyzed for but not detected at or above the reporting limit (RL).
- RL Reporting Limit
- NA Not Applicable



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

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ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: BONNELL RAVINE SEEP W.

Lab ID: 2012140-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/21/20	B0L2105	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	

Client ID: BONNELL RAVINE SEEP W.

Lab ID: 2012140-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/21/20	B0L2105	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/21/20	B0L2105	8260	
994-05-8	tertiary Amyl methylether	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/21/20	B0L2105	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/21/20	B0L2105	8260	
Surrogate: Bromofluorobenzene			94.5 %	85-115		12/21/20	B0L2105	8260	
Surrogate: Dibromofluoromethane			103 %	82.7-115		12/21/20	B0L2105	8260	
Surrogate: Toluene-d8			98.4 %	85-115		12/21/20	B0L2105	8260	



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: BONNELL RAVINE PIPE E.

Lab ID: 2012140-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/19/20	B0L1816	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	

Client ID: BONNELL RAVINE PIPE E.
Lab ID: 2012140-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/19/20	B0L1816	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/19/20	B0L1816	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
Surrogate: Bromofluorobenzene		95.4 %	85-115			12/19/20	B0L1816	8260	
Surrogate: Dibromofluoromethane		103 %	82.7-115			12/19/20	B0L1816	8260	
Surrogate: Toluene-d8		99.8 %	85-115			12/19/20	B0L1816	8260	

Client ID: BONNELL SW-2.

Lab ID: 2012140-03

CAS#	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/19/20	B0L1816	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	

Client ID: BONNELL SW-2.

Lab ID: 2012140-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/19/20	B0L1816	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/19/20	B0L1816	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/19/20	B0L1816	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/19/20	B0L1816	8260	
Surrogate: Bromofluorobenzene			97.4 %	85-115		12/19/20	B0L1816	8260	
Surrogate: Dibromofluoromethane			101 %	82.7-115		12/19/20	B0L1816	8260	
Surrogate: Toluene-d8			99.1 %	85-115		12/19/20	B0L1816	8260	

Laboratory Services Section
Analysis Request Sheet

Lab Work Order Number 2012140	Project Name Bonnell Street	Matrix WATER
Site Code/Project Number N/A (Incident response)	AV 	Project TAT Days Standard-21 days
Dept-Division-District MDEQ-RRD-GRAND RAPIDS	Index 	Project Due Date 12/31/2020
State Project Manager David Wierzbicki	CC Email 1 	Sample Collector David Wierzbicki
State Project Manager Email wierzbickid@michigan.gov	CC Email 2 	Sample Collector Phone --
State Project Manager Phone 517-420-2605	CC Email 3 	Contract Firm
	Project Overflow Lab Choice 1	Accept Analysis hold time codes
	Phase TriMatrix Laboratories, Inc.	Contract Firm Primary Contact
	Overflow Lab Choice 2 	Primary Contact Phone --

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01 Bonnell Ravine Seep W.	12/9/2020	12:00	21	
2	02 Bonnell Ravine Pipe E.	12/9/2020	12:10	21	
3	03 Bonnell SW-2	12/9/2020	12:30	21	
4					
5					
6					
7					
8					
9					
10					

ORGANIC CHEMISTRY	MAD - DISSOLVED METALS	MA - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic Volatile - Full List 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 Chlorinated only 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10	Diss - Silver - Ag 1 2 3 4 5 6 7 8 9 10 Diss - Aluminum - Al 1 2 3 4 5 6 7 8 9 10 Diss - Arsenic - As 1 2 3 4 5 6 7 8 9 10 Diss - Boron - B 1 2 3 4 5 6 7 8 9 10 Diss - Barium - Ba 1 2 3 4 5 6 7 8 9 10 Diss - Beryllium - Be 1 2 3 4 5 6 7 8 9 10 Diss - Cadmium - Cd 1 2 3 4 5 6 7 8 9 10 Diss - Cobalt - Co 1 2 3 4 5 6 7 8 9 10 Diss - Chromium - Cr 1 2 3 4 5 6 7 8 9 10 Diss - Copper - Cu 1 2 3 4 5 6 7 8 9 10 Diss - Iron - Fe 1 2 3 4 5 6 7 8 9 10 Diss - Mercury - Hg 1 2 3 4 5 6 7 8 9 10 Diss - Lithium - Li 1 2 3 4 5 6 7 8 9 10 Diss - Manganese - Mn 1 2 3 4 5 6 7 8 9 10 Diss - Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10 Diss - Nickel - Ni 1 2 3 4 5 6 7 8 9 10 Diss - Lead - Pb 1 2 3 4 5 6 7 8 9 10 Diss - Antimony - Sb 1 2 3 4 5 6 7 8 9 10 Diss - Selenium - Se 1 2 3 4 5 6 7 8 9 10 Diss - Strontium - Sr 1 2 3 4 5 6 7 8 9 10 Diss - Titanium - Ti 1 2 3 4 5 6 7 8 9 10 Diss - Thallium - Tl 1 2 3 4 5 6 7 8 9 10 Diss - Vanadium - V 1 2 3 4 5 6 7 8 9 10 Diss - Zinc - Zn 1 2 3 4 5 6 7 8 9 10 Diss - Calcium - Ca 1 2 3 4 5 6 7 8 9 10 Diss - Potassium - K 1 2 3 4 5 6 7 8 9 10 Diss - Magnesium - Mg 1 2 3 4 5 6 7 8 9 10 Diss - Sodium - Na 1 2 3 4 5 6 7 8 9 10 Diss - Hardness - Ca, Mg 1 2 3 4 5 6 7 8 9 10	Silver - Ag 1 2 3 4 5 6 7 8 9 10 Aluminum - Al 1 2 3 4 5 6 7 8 9 10 Arsenic - As 1 2 3 4 5 6 7 8 9 10 Boron - B 1 2 3 4 5 6 7 8 9 10 Barium - Ba 1 2 3 4 5 6 7 8 9 10 Beryllium - Be 1 2 3 4 5 6 7 8 9 10 Cadmium - Cd 1 2 3 4 5 6 7 8 9 10 Cobalt - Co 1 2 3 4 5 6 7 8 9 10 Chromium - Cr 1 2 3 4 5 6 7 8 9 10 Copper - Cu 1 2 3 4 5 6 7 8 9 10 Iron - Fe 1 2 3 4 5 6 7 8 9 10 Mercury - Hg 1 2 3 4 5 6 7 8 9 10 Lithium - Li 1 2 3 4 5 6 7 8 9 10 Manganese - Mn 1 2 3 4 5 6 7 8 9 10 Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10 Nickel - Ni 1 2 3 4 5 6 7 8 9 10 Lead - Pb 1 2 3 4 5 6 7 8 9 10 Antimony - Sb 1 2 3 4 5 6 7 8 9 10 Selenium - Se 1 2 3 4 5 6 7 8 9 10 Strontium - Sr 1 2 3 4 5 6 7 8 9 10 Titanium - Ti 1 2 3 4 5 6 7 8 9 10 Thallium - Tl 1 2 3 4 5 6 7 8 9 10 Vanadium - V 1 2 3 4 5 6 7 8 9 10 Zinc - Zn 1 2 3 4 5 6 7 8 9 10 Calcium - Ca 1 2 3 4 5 6 7 8 9 10 Potassium - K 1 2 3 4 5 6 7 8 9 10 Magnesium - Mg 1 2 3 4 5 6 7 8 9 10 Sodium - Na 1 2 3 4 5 6 7 8 9 10 Hardness - Ca, Mg 1 2 3 4 5 6 7 8 9 10	GB Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10 GB Amenable Cyanide - CN 1 2 3 4 5 6 7 8 9 10 GCN Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10 CA Chlorophyll 1 2 3 4 5 6 7 8 9 10 GN Ortho Phosphate - OP 1 2 3 4 5 6 7 8 9 10 GN Nitrite - NO ₂ 1 2 3 4 5 6 7 8 9 10 GN Nitrate - NO ₃ (Calc.) 1 2 3 4 5 6 7 8 9 10 GN Suspended Solids - SS 1 2 3 4 5 6 7 8 9 10 GN Dissolved Solids - TDS 1 2 3 4 5 6 7 8 9 10 MN Diss Solids - TDS (Calc.) 1 2 3 4 5 6 7 8 9 10 GN Turbidity 1 2 3 4 5 6 7 8 9 10 MN Total Alkalinity 1 2 3 4 5 6 7 8 9 10 MN Bicarb/Carb Alkalinity 1 2 3 4 5 6 7 8 9 10 (Includes Total Alkalinity) MN Chloride - Cl 1 2 3 4 5 6 7 8 9 10 MN Sulfate - SO ₄ 1 2 3 4 5 6 7 8 9 10 MN Chromium 6 - Cr+6 1 2 3 4 5 6 7 8 9 10 MN Conductivity 1 2 3 4 5 6 7 8 9 10 MN pH 1 2 3 4 5 6 7 8 9 10 GA Chem Oxyg Dem - COD 1 2 3 4 5 6 7 8 9 10 GA Diss Org Carbon - DOC (FF) 1 2 3 4 5 6 7 8 9 10 (Field - Filtered & Preserved) GN Diss Org Carbon - DOC (LF) 1 2 3 4 5 6 7 8 9 10 (Lab - Filtered & Preserved) GA Total Org Carbon - TOC 1 2 3 4 5 6 7 8 9 10 GA Ammonia - NH ₃ 1 2 3 4 5 6 7 8 9 10 GA Nitrate-Nitrite - NO ₃ +NO ₂ 1 2 3 4 5 6 7 8 9 10 GA Kjeldahl Nitrogen - KN 1 2 3 4 5 6 7 8 9 10 GA Total Phosphorus - TP 1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests Library search - Volatiles 1 2 3 4 5 6 7 8 9 10 Library search - SemiVols 1 2 3 4 5 6 7 8 9 10 Finger Print 1 2 3 4 5 6 7 8 9 10 DRO / DRD 1 2 3 4 5 6 7 8 9 10	MD - Metals Dissolved Lab Filtration 1 2 3 4 5 6 7 8 9 10	LHG - Low Level Mercury Mercury Low Level - Hg 1 2 3 4 5 6 7 8 9 10	

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Signature: David Wierzbicki	<i>Lobby</i>	
	Print Name & Org. Signature: <i>Lobby</i>	<i>Carol J...</i>	12-16-2020 0741
	Print Name		

Bonnell Street

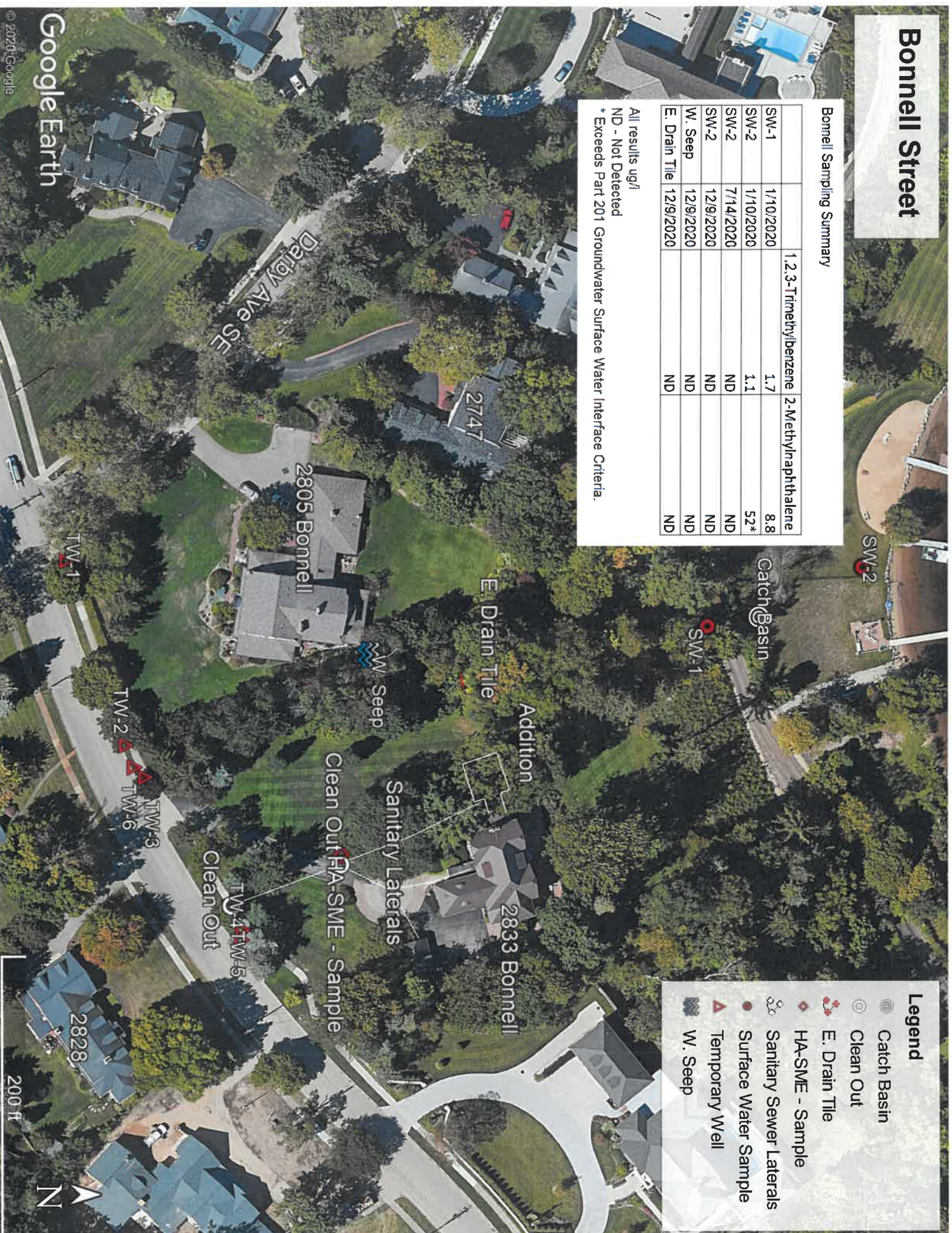
Bonnell Sampling Summary

SW-1	1/10/2020	1,2,3-Trimethylbenzene	1.7	2-Methylnaphthalene	8.8
SW-2	1/10/2020		1.1		52*
SW-2	7/14/2020		ND		ND
SW-2	12/9/2020		ND		ND
W. Seep	12/9/2020		ND		ND
E. Drain Tile	12/9/2020		ND		ND

All results ug/l
 ND - Not Detected
 * Exceeds Part 201 Groundwater Surface Water Interface Criteria.

Legend

- Catch Basin
- Clean Out
- E. Drain Tile
- HA-SME - Sample
- Sanitary Sewer Laterals
- Surface Water Sample
- Temporary Well
- W. Seep



FW: Citizen concern: dumping

Doug LaFave <dlafave@eastgr.org>

Mon 1/6/2020 2:53 PM

To: David Johnson <djohnson@eastgr.org>

1 attachments (10 KB)

Doug La Fave3.vcf

Dave:

Can you investigate further. Fill out one of our reported storm water forms too per our discharge permit with GVMC/EGLE. Call the district 10 EGLE office if you see/smell something as well.

Thanks,
Doug



From: Kris Pachla

Sent: Monday, January 6, 2020 2:50 PM

To: Doug LaFave

Subject: Re: Citizen concern: dumping

Hi Doug -

Will do. Let's try this? If it doesn't work I can throw it into a shared folder. Charlie did note a strong smell.

-kris



Kris Pachla
Commissioner Ward 1
East Grand Rapids

kpachla@eastgr.org
616.425.9159

On Jan 6, 2020, at 2:20 PM, Doug LaFave <dlaface@eastgr.org> wrote:

Kris:

Can you resend the photos too, I am not able to open them?

Thanks,
Doug

<image002.jpg>

From: Doug LaFave
Sent: Monday, January 6, 2020 2:17 PM
To: Kris Pachla
Subject: RE: Citizen concern: dumping

Kris:

Yes, please have Charlie contact me and send photos. There is a natural drainage from the higher elevation there between both properties that collect in a leach basin and then discharge towards the lake via a truss pipe culvert.

If what he saw looks as described as below, it is algae.

Respectfully,
Doug

Last known concern reported adjacent to the middle school:

Good morning Doug,

Yes, from what I can see in the picture, it appears to be a little bit of a blue green algae bloom washed up along the shoreline. Blue green algae is common on Reeds Lake in the fall after the lake has turned over and nutrients from the cool deep water are mix with surface waters. It should dissipate naturally on its own.

Thank you,
Jaimee Desjardins (Conroy), Environmental Scientist
West MI Regional Manager
PLM Lake & Land Management Corp.

12:56

LTE

AA

gis.kentcountymi.gov



Kent County

Parcel Viewer

Help







<image003.png>

<image002.jpg>

From: Kris Pachla
Sent: Monday, January 6, 2020 1:55 PM
To: Doug LaFave
Subject: Re: Citizen concern: dumping

Thanks Doug - I think that the best view is the GIS vision showing that it's between the properties of 2805 and 2833 Bonnell. I didn't get out there to see but I suspect that the fence photos is where it would be most likely to be observed.

I'm happy to pass along Charlie's contact information if that would be useful as well!

-kris

Kris Pachla
Commissioner Ward 1
East Grand Rapids

kpachla@eastgr.org
616.425.9159

On Jan 4, 2020, at 7:04 PM, Doug LaFave <dlaface@eastgr.org> wrote:

Hi Kris, thanks for reaching out. We can go take a look, does he have a more specific location, anything else that he can share? If we do find something we would contact our district EGLE (formerly deq) office.

Thanks,
Doug

On Jan 4, 2020, at 2:12 PM, Kris Pachla <kpachla@eastgr.org> wrote:

Hi Doug,

Happy New Yeae!

I received a message from a Ward 1 Resident who is concerned about some potential dumping of chemicals or other waste into Reed's Lake. The resident's name is Charlie Quigg, and said he'd be happy to talk more with you about it. He has seen it along the dirt, seasonal part of Reed's Lake BLVD in lakeside of the houses on Bonnell.

I'll head over there this weekend to scope it out too, but is there a process for going to check it out?

Thanks in advance!

-kris

He sent along the following notes and photos:

"Very strong chemical smell for the past few weeks in the same spot"

The gully where he is observing this is in between 2805 and 2833 Bonnell.

[\[cid:84B84702-60D4-42E4-8A47-D66EEEE4ABA\]](#)

The gully is marked in red.

This is the side facing Reed's Lake:

[\[cid:C76598E0-55ED-43C5-8888-71B77B4F2AF6\]](#)

[\[cid:2496079D-E97F-45CC-BAFF-1030B313B010\]](#)

And water in the stream in the Gully appears to have an oily film:

[\[cid:AA199E8D-1F01-4F3C-9D41-7024B80B42C7\]](#)

<image.jpg>

<image.jpg>

<image.jpg>

<image.jpg>

<image.jpg><image.jpg><image.jpg><image.jpg>

Reported Chemical **smell** by Reeds Lake



David Johnson

Tue 1/7/2020 4:04 PM

To: Doug LaFave

Doug,

I contacted EGLE and they are having Jay Poll investigate the report of a strong chemical **smell** by Reeds Lake drainage ditch in the morning.

Thank you,

Dave Johnson

[Reply](#)

[Forward](#)

SPILL



David Johnson

Mon 1/6/2020 4:33 PM

To: Doug LaFave

Doug,

I visited the site today and did not see anything or smell anything strong.

However, I did possibly **smell** a slight hint of something.

I will plan on taking another look Tuesday.

Thank you,
Dave

[Reply](#) | [Forward](#)

MS4 Community Annual PEP Checklist

This document outlines your community's required activities for the 2021 Reporting Period. Check the box for each action as you complete it and provide supporting documentation where indicated. The 2021 PEP Focus Areas are: Personal watershed stewardship, Personal actions that can affect the watershed, Waste disposal assistance

Community Name: Click or tap here to enter text.

Priority Activities:

1. Ensure Community website links to the LGROW website (www.LGROW.org)

Location of LGROW link on Community Website

2. Publish at least 1 article on PEP topics in Community newsletter or news outlet

Name of newsletter/news outlet: Newsletter/news outlet Name

Distribution/Reach of newsletter/news outlet: Distribution/Reach

PEP Topic(s) addressed: General Watershed Awareness Stormwater Discharge Location/Impacts\

Illicit Discharge Reporting Septic System Management Personal Actions

Waste Management Assistance

*Attach a copy of newsletter or link to online article: Link to online article

3. Community presence or Stormwater Display at 1 event or location

Event Date: Click or tap to enter a date.

Event Location: Enter Event Location

*Attach a photo of event/display; List additional/multiple events at the end of this form

4. Distribute pollution prevention information to at least 2 targeted businesses/groups listed in PEP

Names of Businesses	Title(s) of Material(s) Distributed
Business 1	Material Name
Business 2	Material Name
Business 3	Material Name

5. Share household hazardous waste reduction information with residents via Community's social media, newsletter, or website (You may attach a separate social media report for #'s 2 & 5 if you have additional posts to report)

Date shared: Click or tap to enter a date.

Location shared: Choose an item.

Social Media Post Reach: #

Social Media Post Engagement: #

*Attach a screenshot of a representative social media post, copy of newsletter, or link to community website: Link to community website.

6. Distribute giveaway items for selected PEP categories

Item	# Distributed	Item	# Distributed
LGROW Chapstick	# 100	Pet Waste Bag Dispenser	#
LGROW Shopping Bag	# 100	Troutie Coloring Book	#
Trout Stress Ball	# 100	WMEAC Coloring Book	#
LGROW Pen	#	Paint by Number	#
Only Rain Snap Bracelet	#	Watershed Brochure	#
Reusable Straw	#	EPA Stormwater Solution Brochure	#
HHW Magnet	# 100	Other	#

Environmental
- Flood Plan map
www.LGROW.org

www.eastgr.org Home > Government > Departments > Public Works >

(see Attached newsletters, etc.)

www.eastgr.org

Other Activities

7. Cohost a LID/Green Infrastructure workshop for Community members with LGROW

Workshop Date: Click or tap to enter a date.

Workshop Location: Click or tap here to enter text.

of Attendees: Click or tap here to enter text.

***Attach a copy of workshop sign-in sheets or photos**

8. Host, participate in, or support a stream cleanup effort

Cleanup Date: Click or tap to enter a date.

Cleanup Location: Click or tap here to enter text.

of Volunteers:

***Attach a copy of volunteer sign-in sheets or photos**

9. Mark storm drains or host/support storm drain marking events

Storm Drain Marking Event Date: Click or tap to enter a date.

of Participants in Event:

of Storm Drains Marked:

of Pre-Marked or Stamped Drains already existing in Community:

10. Join or Promote Adopt a Drain Program

Date(s) of program promotion: Click or tap here to enter text.

Method of program promotion: Click or tap here to enter text.

Social Media Metrics (Post Reach, Post Engagement): Click or tap here to enter text.

***LGROW will create a report of the number of drains adopted in your Community**

(See Attached)

11. Provide presentation on PEP topics to a school in your Community

Date of presentation: Click or tap to enter a date.

Location of presentation: Click or tap here to enter text.

of Students Reached:

12. Implement EPA SepticSmart Social Media Guide during SepticSmart Week

Provide Social Media Metrics (Post Reach, Post Engagement): Click or tap here to enter text.

Other Public Engagement Activities Completed

Use this space to provide additional detail on Public Engagement Activities described above or to describe other Public Engagement Activities completed in your Community during the reporting period.

Click or tap here to enter text.

From City website www.eastgr.org

Home > Government > Departments > Public Works > Environmental

Flood Plain Map

Flood Plain maps are available from the Federal Emergency Management Association's website, or can be viewed in the Public Works Department office 8 am to 5 pm Monday through Friday.

Lower Grand River Organization of Watersheds (LGROW)

The City of East Grand Rapids is a partner with LGROW. Educational and best practice information is available at www.lgrow.org

Information about LGROW's regional lakes and stream data repository can be found [here](#).

Additional Resources:

[LGROW Landscaping Brochure](#)

[How to Report Water Pollution](#)

More Information

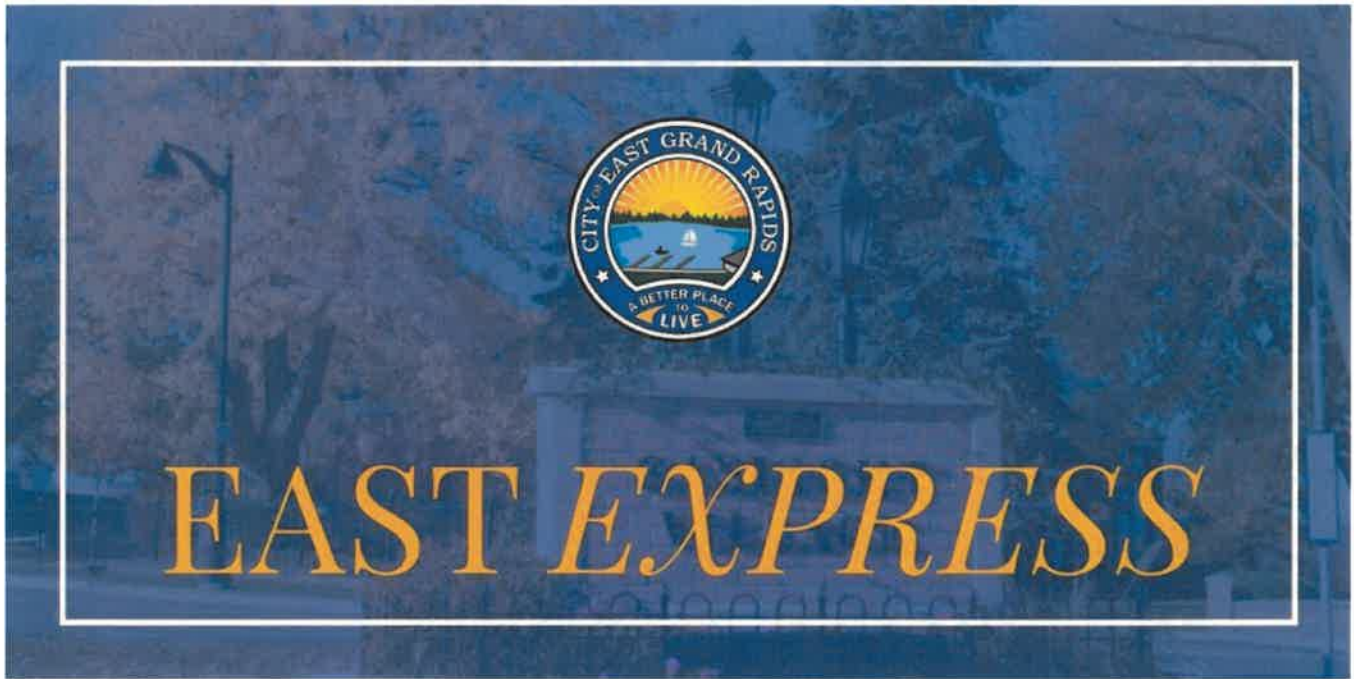
Detailed information concerning these programs is available by contacting the Public Works Department.

Recycling and Hazardous Waste Disposal

For information on recycling and hazardous waste disposal in Kent County, please visit: www.recyclekent.org

1+5²,

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East Express | Dec. 16, 2021

Every year, Public Works collects natural Christmas trees, wreaths and other plant-based decorations that have been left at the curb after the holidays. The crews will pick up these decorations following regular yard waste collection routes from Monday, Jan. 3 through Friday, Jan. 14. The City is not able to collect trees, wreaths or other holiday decorations that have wire, ornaments, lights, etc. on them as the trees and wreaths are chipped/recycled. Learn more on our [Refuse Collection webpage](#).

2021 HOLIDAY RECYCLING GUIDE

HOLIDAY ITEMS ON THE NAUGHTY LIST
they don't belong in your curbside recycling bin

2021 HOLIDAY RECYCLE GUIDE

[Reimagine Trash](#) has several helpful tips on how to [recycle holiday items](#) like lights, wrapping paper, toy packaging and more.

1052 USE LESS SALT

Did you know a little salt goes a long way? Apply it sparingly and remove slush once the snow melts to prevent refreezing. Salt in our stormwater system can be harmful to aquatic life. Learn more at lgrow.org.

Stay up-to-date with all things East Grand Rapids by following us on [Facebook](#) and [Twitter](#).

#10

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East Express | Nov. 4, 2021



WINTER MAINTENANCE OPERATIONS

As winter approaches, you can review the City's plowing regulations, plowing routes and how to avoid the "second shovel" on our [Street/Sidewalk Winter Plowing webpage](#).

PRIVATE SNOWPLOW CONTRACTORS

Please visit eastgr.org/snowplow to learn about EGR's snowplow contractor rules and regulations.

ADOPT A DRAIN

EGR and other local jurisdictions work together to keep our watershed healthy for all and prevent localized street flooding through the Grand Valley Metro Council and Lower Grand River Organization of Watersheds' Adopt a Drain Program. Residents are encouraged to monitor and clear storm drains near their homes to ensure they're clear from leaves, snow and other debris. Learn more and officially adopt a drain at adoptadrain-igrow.org.

1

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East Express | Dec. 2, 2021



STORE SAFELY

Practice good house
keeping by storing salt or
other de-icers under a roof
or other cover to minimize
polluted runoff.

• VISIT WWW.LGROW.ORG FOR MORE INFO •

1

COMMUNITY PARTNERS

THANK YOU FROM THE EGRCF

Thank you to all who gave to the East Grand Rapids Community Foundation this Giving Tuesday. As a reminder, you can make an impact year-round by selecting the EGRCF as your charity at smile.amazon.com and at no cost to you, Amazon will make a donation based on your purchases.

GO GASLIGHT THIS HOLIDAY SEASON

Support our community and business district this season by purchasing gifts locally. From clothing, sweet treats, jewelry, services and more, Gaslight Village has something for all the loved ones on your list.