

# ROUGE RIVER COLLABORATIVE ILLICIT DISCHARGE ELIMINATION PLAN 2024-2025 PROGRESS REPORT



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## A. Purpose

This report summarizes the activities undertaken to implement the Rouge River Collaborative Illicit Discharge Elimination Program (IDEP) plan (Plan) which was approved by the Michigan Department of Environment, Great Lakes and Energy (EGLE) in September 2017 and revised in January 2020. The Plan is part of the municipal separate storm sewer system (MS4) permits for several communities in the Rouge River watershed. The report includes activities implemented by or on behalf of members of the Alliance of Rouge Communities (ARC) from January 1, 2024 through December 31, 2025. The permittees participating in the Plan during the reporting period are listed below.

### Participating Permittees

Beverly Hills, Village of	Northville, City of
Bingham Farms, Village of	Northville Township
Birmingham, City of	Novi, City of
Bloomfield Hills, City of	Oak Park, City of
Bloomfield Township	Plymouth, City of
Canton Township	Plymouth Township
Dearborn Heights, City of	Redford Township
Farmington, City of	Southfield, City of
Farmington Hills, City of	Troy, City of
Franklin, Village of	Walled Lake, City of
Garden City, City of	Wayne, City of
Inkster, City of	Westland, City of
Lathrup Village, City of	West Bloomfield Township
Livonia, City of	
Melvindale, City of	Henry Ford College
Oakland County*	Wayne County Airport Authority
	Wayne County*

*\*Participating in the Plan but will provide a separate report of county activities per their approved progress report schedule.*

## B. Action Strategy Status

The status of each action strategy includes a description of each activity, progress made during the reporting period and status of each metric.

### IDEP #1: Mapping of Storm Sewer Systems

Description: The permittees have their storm sewer maps available which include the location of outfalls, enclosed and open storm drains, roads and waters of the state. In addition, the ARC has developed a GIS database of the storm sewer system maps. For Wayne and Oakland counties, this requirement will be dealt with under their individual stormwater management plans.

Goal:

- 100% of outfalls mapped in GIS
- 100% of storm sewers mapped in GIS

Status:

Metric	Status
Portion of watershed (area) where known outfalls are mapped in GIS	100% (based on permittee land area)
Portion of watershed with storm sewers in GIS	98% (based on permittee land area)

Description of Progress:

Most permittees provided the ARC with their outfall and storm sewer GIS data. Melvindale still needs to provide their storm sewer system in GIS format. Updates to these data sets are submitted to the ARC on an annual basis.

**IDEP #2: Outfall Prioritization and Dry Weather Screening**

Description: The ARC screened all priority outfalls in 2018 in each city or village. The ARC has determined outfalls with suspicious discharges and conducted follow-up investigations for those outfalls. Cities/Townships/Villages will perform dry weather screening of new outfalls within 6 months of construction, taking ownership or discovery. For Wayne and Oakland counties, this requirement will be dealt with under their individual stormwater management plans.

In anticipation of requirements under the new Collaborative IDEP Plan, the ARC began screening outfalls throughout the watershed in 2024. This was done in order to reach the goal of screening all outfalls during the new permit cycle. During the 2024-2025 reporting period, the ARC screened 1,061 outfalls.

Goal: Screen 100% of priority outfalls

Status:

Metric	Status
Number priority outfalls identified	471
Percent of priority outfalls screened	100%
Number of outfalls screened	1,061
Number of new outfalls identified	40
Percent of new outfalls screened	0%
Number of suspicious discharges identified (based on screening results)	40

Redford Township identified 1 additional outfall, Birmingham identified 20 and Novi identified 19 additional outfalls that are part of the MS4 permit. These outfalls have not yet been screened, but will be screened under the new permit cycle. See Appendix A for a summary of the status of outfall screenings.

**IDEP #3: Advanced Investigations**

Description: The goal of this activity is to 1) locate source(s) of suspected illicit discharge(s) in the initial priority areas and upstream of the priority outfalls, and 2) oversee the correction of any identified illicit discharges.

Goals:

- Follow the advanced investigation protocol for initial priority areas and priority outfalls.
- 100% of illicit connections/discharges resolved or a plan in place for elimination.

Status:

Metric	Status
Total number of illicit discharge investigations (outfalls)	47
Number of investigations closed	7 (15%)
Number of investigations remaining (in progress)	40 (85%)
Number of illicit discharges identified	2
Number corrected	1*
Number unresolved	0

\*1 illicit discharge was identified in late 2025 and is in the process of being corrected in the first quarter of 2026.

Description of Progress:

Below is a list of the 47 outfalls that required investigations during the reporting cycle. A summary by community is provided in Table 1.

- Beverly Hills: BV51
- Birmingham: STOF-25-0013 (BH32)
- Farmington: R, AK, P, AM
- Livonia: U2008221, L1619, 4402, 4551, 28-35, U2008170, U2008209, 2680, 37-47
- Northville: NV01, NV45
- Novi: NO20
- Plymouth: PY11, PY18, PY23, PY8, PY5, PY4
- Southfield: SF13
- Wayne: 14, 26, 36, 37, 41, 47, 51, 65
- Westland: SWCUL-00018, SWOF-00056, SWOF-00103, SWOF-00140, SWOF-00225, SWOF-00360, SWOF-00391, SWOF-00397, SWOF-00405, SWOF-00417, SWOF-00503, SWOF-00527

**Table 1 - Outfalls that Required Investigations**

Permittee	Investigations Originating from			Total No. of Outfalls	Lead Agency	
	Previous Priority Areas	Outfall Screening				Other Efforts
		Cat A	Cat B/C			
Beverly Hills		1			1	ARC
Birmingham			1		1	ARC
Farmington		1	3		4	ARC
Livonia		4	5		9	WCESD/ARC
Northville			2		2	ARC
Novi				1	1	ARC
Plymouth	1	3	2		6	WCESD
Southfield		1			1	ARC
Wayne		1	7		8	ARC

Permittee	Investigations Originating from				Total No. of Outfalls	Lead Agency
	Previous Priority Areas	Outfall Screening		Other Efforts		
		Cat A	Cat B/C			
Westland		2	12		14	ARC
<b>Total</b>	<b>1</b>	<b>13</b>	<b>32</b>	<b>1</b>	<b>47</b>	

In partnership with the local communities, the ARC, Wayne County Environmental Services Department (WCESD) and Oakland County Water Resource Commissioner’s Office (OCWRC) investigated drains that displayed suspicious discharges. Investigations were conducted on 47 outfalls, and investigations were closed out on 7 of the outfalls. The status of these investigations is provided in Table 2 and detailed investigation reports can be found in Appendix B.

**Table 2 - Status of Investigations by Outfall**

Permittee	Outfall ID	Status	Result
Beverly Hills	BV51	Closed	No sources found
Birmingham	BH32	Closed	Animal source suspected.
Farmington	AK	Open	Plan to resample
	AM	Open	Plan to resample
	P	Open	Plan to resample
	R	Open	Sewage sources suspected
Livonia	L1619	Closed	Animal sources suspected
	2680	Ongoing	Sewage sources suspected
	U2008221	Closed	Surfactant source addressed
	4402	Open	Plan to resample
	4551	Open	Plan to resample
	28-35	Open	Plan to resample
	37-47	Open	Plan to resample
	U2008170	Open	Sewage sources suspected
Northville	NV01	Open	Plan to resample
	NV45	Open	Plan to resample
Novi	NO20	Closed	Animal source suspected
Plymouth	PY11	Open	Plan to resample
	PY18	Open	Plan to resample
	PY23	Open	Plan to resample
	PY4	Open	City is investigating
	PY5	Open	City is investigating
	PY8	Open	City is investigating
Southfield	SF13	Open	Plan to resample
Wayne	14	Open	Plan to resample
	26	Open	Plan to resample
	36	Correction in process	Illicit connection identified
	37	Open	Plan to resample
	41	Open	Plan to resample
	47	Open	Investigation underway

Permittee	Outfall ID	Status	Result
	51	Closed	SSO identified and fixed
	65	Open	Investigation underway
Westland	SWCUL-00018	Open	Plan to resample
	SWOF-00056	Open	Plan to resample
	SWOF-00103	Open	Plan to resample
	SWOF-00140	Open	Plan to resample
	SWOF-00225	Open	Plan to resample
	SWOF-00360	Open	Plan to resample
	SWOF-00391	Open	Plan to resample
	SWOF-00397	Open	Plan to resample
	SWOF-00405	Open	Plan to resample
	SWOF-00417	Open	Plan to resample
	SWOF-00503	Open	Plan to resample
SWOF-00527	Open	Plan to resample	

A total of 1 illicit discharge containing sewage from a church and one sanitary sewage overflow were identified. The illicit connection is in the process of being corrected as shown in Table 3. The sanitary sewage overflow was estimated by the Wayne County Department of Public Services Rouge Valley Sewer Team to release 9,000 gallons of untreated sewage before the overflow was eliminated. These corrections will result in the elimination of 282,750 gallons of untreated wastewater and 3,129 lbs of pollutants on an annual basis (Tables 4 and 5).

**Table 3 – Number and Type of Illicit Discharges (IDs) Discovered and Resolved**

	A	B	C	A+B-C
County	No. of Known IDs at beginning of Reporting Period	No. IDs <u>Discovered</u> During Reporting Period	No. of IDs <u>Resolved</u> During Reporting Period	No. of <u>Unresolved</u> IDs at the end of Reporting Period
<b>Sanitary Sewage from Illicit Connections from Non-residences</b>				
Wayne	0	2	1	1
<b>Total</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>1</b>

**Table 4 - Volume of Sewage Eliminated from Surface Waters**

Illicit Discharge Source	Average weekly Church attendees	Gallons per person per week	Annual Wastewater Volume (gallons/year)
Data sources	[a]	[b]	
Church illicitly connected	100	7.5	<b>273,750</b>
Sanitary Sewage Overflow			<b>9,000</b>
<b>Total</b>			<b>282,750</b>

**Table 5 - Amount of Pollutants Eliminated from Surface Waters**

Parameter	Average Concentration (mg/L) <sup>i</sup>	iData Source	Pollutant Load (lbs/year)
			Totals
Total Solids	690	[d]	<b>1,628</b>
Total Suspended Solids	243	[d]	<b>573</b>
BOD	221	[d]	<b>522</b>
Ammonia	8.5	[d]	<b>20.1</b>
Total Phosphorus	9	[d]	<b>21.2</b>
Surfactant	13.5	[d]	<b>31.9</b>
Potassium	6	[e]	<b>14.2</b>
Total Organic Carbon	47	[f]	<b>111</b>
Fats, Oil & Grease	88	[d]	<b>208</b>
<b>Total Pollutant Load (lb/year)</b>			<b>3,129</b>

**Data Sources:**

- [a] Discussion with Pastor Seth McDonald
- [b] *Michigan Criteria for Subsurface Sewage Disposal*. Division of Environmental Health, Bureau of Environmental and Occupational Health, Michigan Department of Public Health. April 1994
- [c] *Environmental Health Ready Reference*. Michigan Environmental Health Association. March 2004.
- [d] *Onsite Wastewater Treatment Systems Manual*. U.S. EPA EPA/625/R-00/008. February 2002. Table 3-7 .
- [e] Pitt, Robert, et al. *Investigations of Inappropriate Pollutant Entries into Storm Sewer Systems, A Users Guide*. U.S EPA. EPA/600/R-92/238. January 1993.
- [f] *Onsite Wastewater Treatment Systems Manual*. U.S. EPA EPA/625/R-00/008. February 2002. Table 3-18 .

In addition to the efforts described above, Redford Township identified a SSO in their jurisdiction, and Farmington and Inkster conducted additional advanced investigations. These efforts are detailed in Appendix B.

**IDEP #4: Staff Training**

Description: The permittees will have at least one person who is competent at the IDEP Investigator Level. Permittees will have 50% of their field staff trained at the Alert Observer Level. In addition, permittees will remind staff of *E. coli* problems in Priority Areas and encourage reporting, annually.

## Goals:

- 1 person per permittee trained at Investigator Level
- 50% of field staff trained at the Alert Observer Level.

## Status:

Metric	Status
Portion of permittees with 1 or more staff trained at the Investigator level (of the 29 participating permittees)	90%
Number of field staff employed by the permittees (FTEs)	636
Portion of field staff trained at the Alert Observer level (or higher)	71%

## Description of Progress:

The ARC offered or partnered in four IDEP Investigator and four Alert Observer training sessions during the permit period. Two training sessions for Investigator and two training sessions for Alert Observer were held in the fall of 2024 and the fall of 2025. See Appendix C for recent staff training records.

There are 636 field staff employed by the permittees as shown in Appendix C. Of these, 453 staff (71%) are trained at the awareness level or greater. Most permittees have more than 1 person trained at the investigator level and more than 50% trained at the alert observer level, while others fall short of these targets. The permittees that need more staff training (Table 6) will be targeted by the ARC in 2026.

Note: Oakland County and Wayne County personnel are not included in these totals, as they will be reporting on their staff training separately.

**Table 6 - Permittees needing IDEP Training**

Community	Number of Staff Needing Investigator Level Training	Number of Staff Needing Alert Observer Level Training*
Bingham Farms	1	
Franklin	1	
Bloomfield Hills		1
Oak Park	1	1
West Bloomfield Twp		12
Westland		16
Wayne		6
Wayne County Airport Authority		12

\*To achieve the 50% training goal.

**IDEP #5: Pollution Complaint Response**

Description: Permittees will have a method for recording and tracking pollution complaints from staff and the public. Permittees will follow-up on the complaints. The ARC will maintain a list of community contacts who are responsible for complaint response.

Goal: 100% of complaints addressed

Status:

Metric	Status
Number of complaints received and referred or investigated	20
Number of issues resolved	20
Portion of issues resolved	100%

Description of Progress:

The permittees received 16 pollution complaints (not including those received by Oakland and Wayne Counties, which report pollution complaints on their own). Of those 20 complaints, all were investigated and resolved. Documentation of the complaints is provided in Appendix D.

**IDEP #6: Inspection of ARC Member-Owned Facilities**

Description: Dye-test permittee owned or operated facilities (within the watershed) to ensure they are properly draining to the sanitary sewer.

**Goals:**

- 100% of ARC Member existing facilities dye tested.
- 100% of issues addressed.

**Status:**

<b>Metric</b>	<b>Status</b>
Number of facilities owned by permittees	295
Number of facilities owned by permittees with major renovations during reporting period	5
Portion of facilities dye tested, including renovations <b>with existing records</b>	49%
Number of issues found	0

**Description of Progress:**

There are 295 municipal owned facilities in the watershed. The ARC had been informed that almost all of these facilities had been dye tested by Wayne County between 1987 and 2015. However, it was determined that records of these facilities being dye tested were no longer available. Therefore, the ARC has worked to identify which buildings have dye testing records and which will need to be dye tested. Some buildings have been dye tested in response to this issue, but more dye testing is necessary for many communities. In addition, some facilities have been identified that do not require dye testing due to acceptable as-built plans being made available for review. See Appendix E for a list of the number of facilities with dye testing records available for each ARC community.

Five of the 295 municipal owned facilities had major renovations completed during the reporting period. Dye testing has not yet been completed for these facilities.

**IDEP #7: IDEP Work Group**

Description: Permittees will meet twice a year to discuss IDEP-related topics including the annual advanced investigations work plan, progress of advanced investigations, lessons learned, any roadblocks encountered with implementing the plan, and recommendations for improving the plan.

Goals:

- Hold at least 2 work group meetings per year.
- 80% member participation.
- 2 meeting summaries per year.

Status:

Metric	Status
Number of meetings per year	2 in 2024 and 2 in 2025
Number of meeting summaries per year	2 in 2024 and 2 in 2025
Portion of members in attendance at meetings	81% over both years

Description of Progress:

Four Technical Committee meetings were held during the reporting period. In 2024, 26 of 29 permittees were represented at the first meeting and 22 of 29 permittees were represented at the second meeting. In 2025, 24 of 29 permittees were represented at the first meeting and 22 of 29 participants were represented at the second meeting (Appendix F).

**C. Other Efforts**

Each permittee included in this report has its own IDEP ordinance or policy and procedures in place. Copies of these ordinances and policies have been submitted to EGLE.

## **Appendix A**

### **Dry Weather Outfall Screening Supporting Documentation**

<b>Community</b>	<b>Number of outfalls screened</b>	<b>Category A</b>	<b>Category B</b>	<b>Category C</b>	<b>Category D</b>	<b>Human DNA found</b>
Bingham Farms	1	0	0	0	1	0
Birmingham	4	0	0	1	3	0
Canton	15	0	0	0	15	0
Dearborn Heights	10	0	0	0	10	0
Farmington	64	1	0	3	60	1
Farmington Hills	5	0	0	0	5	0
Franklin	6	0	0	0	6	0
Garden City	1	0	0	0	1	0
Henry Ford College	1	0	0	0	1	0
Inkster	10	0	0	0	10	0
Lathrup Village	4	0	0	0	4	0
Livonia	169	1	1	4	163	1
Northville	63	0	1	1	61	1
Novi	24	0	0	0	24	0
Plymouth	25	2	0	4	19	0
Southfield	5	1	0	0	4	0
Walled Lake	13	0	0	0	13	0
Wayne	95	1	2	5	87	3
Westland	546	2	2	6	536	0
<b>Total</b>	<b>1061</b>	<b>8</b>	<b>6</b>	<b>24</b>	<b>1023</b>	<b>6</b>

## **Appendix B**

### **Advanced Investigations Documentation**

Appendix B1. 2024 Wayne County IDEP Investigation Report

Appendix B2. 2025 Wayne County IDEP Investigation Report

Appendix B3. 2024 ARC IDEP Investigation Report

Appendix B4. 2025 ARC IDEP Investigation Report

Appendix B5. Redford Township Investigation Records

Appendix B6. Farmington Investigation Records

Appendix B7. Inkster Investigation Records

## **Appendix B1**

### **2024 Wayne County IDEP Investigation Report**

**Wayne County Illicit Discharge Elimination Program  
ARC IDEP Services 2024 Report**

**Executive Summary**

Wayne County Department of Public Services Environmental Services Division (ESD) performed source identification advanced investigations in the Cities of Plymouth, and Livonia (Table 1). Other tasks completed in 2024 included IDEP Training, water quality monitoring, and activity reporting.

Table 1: Findings and recommended actions for illicit discharge investigations

<b>Community</b>	<b>Outfall/ target area</b>	<b>Findings</b>	<b>Recommendations</b>
Plymouth	PY8	Elevated <i>E. coli</i> and HF183 marker	No additional manhole sampling for <i>E. coli</i> and HF183 marker are recommended in this area for 2025
Plymouth	PY5	Elevated <i>E. coli</i> and HF183 marker	Continued investigations in 2024 including dye testing residential properties located in storm sewer segments identified by televising/manhole sampling. Follow up sampling for <i>E. coli</i> and HF183 marker will be performed as needed
Plymouth	Mill/Park Street	The illicit connection at 150/152 S. Mill Street was confirmed corrected. Communications and compliance actions with the City and the property owners of the 3 remaining illicit connections continued.	Re-issue the notice of violation letter to the new property owner at 195 S. Mill Street and continue communications and compliance actions to correct remaining violations. Once corrections are made, perform follow-up <i>E. coli</i> monitoring
Livonia	2680	Elevated <i>E. coli</i> and HF183 marker at outfall and storm sewer laterals	Recommend continued investigation in 2025 including additional sampling for <i>E. coli</i> and HF183 marker, televising, and dye testing as needed
Lower Rouge	Lower Rouge Water Trail	Monitoring 7 sites on the Lower Rouge Water Trail during the recreational season	Follow up investigations in sections of the river upstream of sites with elevated <i>E. coli</i> concentrations

## **Task 1: Field Investigations**

ESD conducted IDEP investigations at various outfalls and upstream storm sewer manholes. Water samples were tested for *E. coli* and observations were recorded regarding water clarity, color, odor, and debris. In addition to ESD's typical IDEP investigation methods, select samples were analyzed for the Human Source (HF183) marker. The presence of the marker above 1,000 gene copies (GC)/100 mL is used as a threshold to indicate potential human source (s) of bacteria present when correlated with elevated *E. coli* levels.

### **City of Plymouth**

ESD coordinated with ARC staff and the City of Plymouth to continue investigations of outfalls PY8, PY5, and the Park Street municipal separate storm sewer systems (MS4). The PY8 and PY5 outfalls discharge to the North Branch Tonquish Creek. The Park Street MS4 captures the Mill Street drainage and discharges to the Rouge River Middle Branch.

#### *Outfall PY8*

ESD did not perform any manhole and storm sewer lateral investigations upstream of the outfall in 2024. Elevated HF183 marker was identified in a segment of storm sewer during manhole sampling during investigative work of previous years. This segment is the furthest upstream segment of the Blunk Street storm sewer (between Junction and Farmer Streets). The sanitary sewer was televised in sections that were accessible, and that footage was used to account for sanitary sewer taps. Dye testing the residences with no evidence of sanitary sewer taps identified by the televising occurred in 2023. The dye testing did not identify illicit connections. There are known sanitary sewer integrity issues in the area, and the City of Plymouth has plans for infrastructure improvements. No additional investigation is planned in this area for 2025.

#### *Outfall PY5*

ESD did not perform any manhole and storm sewer lateral investigations upstream of the outfall in 2024. Elevated HF183 marker was identified in segments of storm sewer during manhole sampling during investigative work of previous years. The City of Plymouth dye tested six out of seven residences in the investigation area on William Street. The residences dye tested did not have illicit connections. The one remaining residence on William Street is not allowing access to perform a dye test, and an illicit connection is suspected.

Completing dye testing of remaining residence and follow up sampling (*E. coli* and HF183), if needed, is planned for this investigation area in 2025.

#### *Park Street/Mill Street Investigation Area*

During previous years of investigation, there were four residences with illicit connections identified in the Mill/Park Street investigation area. In 2022, the duplex located at 150/152 S. Mill Street was confirmed corrected by the City of Plymouth. Three residences with illicit connections remain. Two of these discharge into Wayne County Mill Street MS4 (195 S. Mill and 485 S. Mill). The third, a residence on Amelia Street (175 Amelia), discharges into the City of Plymouth MS4. Amelia Street is tributary to the Mill Street storm sewer. Efforts are ongoing to resolve the remaining illicit connections. This effort includes reissuing the notice of violation to the new property owner at 195 S. Mill as well as continuing to work with the City and the property owners to ensure the proper sanitary sewer connections are made and the illicit connections eliminated. Once the illicit connections are corrected, the Mill Street storm sewer laterals and the Park Street storm sewer outfall will be resampled.

## **City of Livonia**

### *Outfall 2680*

ESD investigated Outfall 2680 and upstream laterals in 2021 and 2023. In 2024, the outfall was sampled and three storm sewer laterals. Elevated levels of *E. coli* and HF183 were detected at the outfall in 2023. HF183 marker levels above 1000 GC/100mL were detected in samples taken in storm sewer laterals upstream. There were several manholes with *E. coli* levels above 2000 CFU/100mL and HF183 above 3000 GC/100mL in 2024. Further investigation of the storm sewer drainage area is recommended for 2025, including televising of the storm sewer lateral. The investigation area is shown in Figure 1 and the dry weather screening data is in Appendix A, Table A1.

### *Outfall L-1619*

ESD supported ARC staff with dye testing a commercial car wash facility and performing storm sewer sampling and investigations in the Outfall L-1619 investigation area in 2024. The car wash was dye tested on August 8, 2024, and no illicit connections were found.

## **Lower Rouge**

Wayne County continued monitoring *E. coli* at seven sites along the Lower Rouge Water Trail route during the 2024 recreational season. Seventeen rounds of samples were collected in various weather conditions. Data analysis on the data identified one of the sites, LR-04 (Venoy Rd) as a site where the *E. coli* geomeans were above 1000 CFU/100mL, and 12 of the 17 samples collected at the site were above 1000 CFU/100mL. The section of the Lower Rouge upstream of LR-04 upstream to LR-3 (Elizabeth Street) is recommended for surveying and *E. coli*/HF183 marker sampling at outfalls with dry weather flow.

## **Task 2 IDEP Training**

Five IDEP training workshops were presented in 2024 in partnership with the Southeast Michigan Council of Governments (SEMCOG) Partners for Clean Water and the ARC. ESD provides support to ARC and SEMCOG in these training efforts. The Alert Observer training was offered as an in-person training and included a visit to a nearby outfall for an outfall screening demonstration. The IDEP Investigator training workshop was in-person only.

### *Alert Observer*

The IDEP Alert Observer training workshop is a one-hour session that includes a question and answer session at its conclusion. This training introduces illicit discharges, why it is important to identify and report, and reporting procedures. The in-person training workshop was held in Macomb County at the Robert A. Verkuilen Building on October 8, and at the Canton Township Department of Public Works in Wayne County October 9. The Alert Observer Training was also offered virtually. A total of 130 persons attended the sessions. Sixty-one (61) attendees were representatives of (or consultants representing) ARC member communities.

### *IDEP Investigator*

The IDEP Investigator training workshop is a three-hour session that includes a question and answer session at its conclusion, and a tabletop exercise. This training details the various techniques used to investigate, identify and eliminate illicit discharge sources. The Investigator training in-person training workshop was held in Macomb County at the Robert A. Verkuilen Building October 8, and at the Canton Township Department of Public Works in Wayne County October 9, and November 13. A total of 88 persons attended the sessions. Fifty-two (52) of the attendees were representatives of (or consultants representing) ARC member communities.

Appendix C contains the attendance lists for the Alert Observer and Advanced Investigator workshops. Attendees representing ARC communities are highlighted.

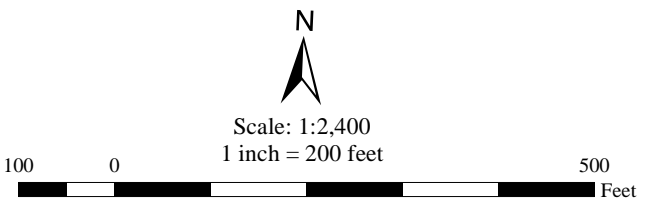
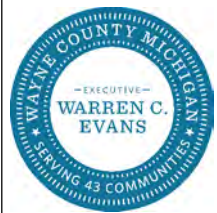
**Task 3 Reporting**

Written progress summaries of IDEP activities were provided. The 2023 IDEP Activities Summary was completed and the 2024 activities summary drafted.

**2024 ARC IDEP Field Investigations**  
**Figure 1: Outfall 2680 Investigation Area Map**



**CITY OF LIVONIA**  
**2021-2024 IDEP Investigation**  
**Outfall 2680**



- E. coli reporting units - CFU/100 ml
- 2021 E. coli only
- HF183 reporting units - GC/100 ml
- 2023 & 2024 HF183 and E. coli.
- top value E. coli - CFU/100 ml
- bottom value HF183 - GC/100 ml
- Category B outfall
- Sanitary Gravity Main
- Sanitary Manhole
- Stormwater Gravity Main
- Stormwater Manhole

**Appendix A**  
**2024 ARC IDEP Field Investigation Data**  
**City of Livonia**  
Table A1: Outfall 2680 Investigation Area

APPENDIX A  
OUTFALL 2680 INVESTIGATION  
CITY OF LIVONIA  
ARC IDEP 2024

Number	Date	Investigation Location	Site Location	<i>E. coli</i> (colony-forming units (CFU)/100mL)	HF183 Gene copies (GC)/100mL	Ammonia (PPM)	Surfactant (PPM)	Conductivity (mS/cm)	Temperature (degrees Celsius)	Observations	Sanitary Flow Evidence	Odor
1	10/31/2024	Outfall 2680	Outfall 2680	399	NA	NA	NA	NA	NA	Water clear at outfall, musty odor	No	Yes Musty
2	10/31/2024	Pickford/Beverly Park East Inlet	Outfall 2680	2046	200	NA	NA	NA	NA	Clear flow from north inlet, cloudy flow from east inlet, leaves in sump	No	No
3	10/31/2024	Pickford/Beverly Park West	Outfall 2680	<10	NA	NA	NA	NA	NA	Storm manhole? Sump full of clear water, leaves, south inlet dry. Flow at outlet. Sample collected at outlet	No	No
4	10/31/2024	Pickford/Beverly Park (North) West Inlet	Outfall 2680	1935	3244	NA	NA	NA	NA	Trickle flow, clear, flow from 36 inch pipe picked up while sampling	No	No
5	10/31/2024	Pickford/Beverly Park (North) East Inlet	Outfall 2680	<24,196	200	NA	NA	NA	NA	Clear flow from east inlet	No	No
6	10/31/2024	Pickford/Purlingbrook	Outfall 2680	1153	200	NA	NA	NA	NA	Leaves in sump; steady flow at outlet Manhole between Hillcrest and Purlingbrook not assessed-car parked over top	No	No
7	10/31/2024	Pickford/Hillcrest	Outfall 2680	7701	200	NA	NA	NA	NA	Leaves in sump, clear flow in storm	No	No
8	10/31/2024	Pickford/Flamingo	Outfall 2680	1631	7788	NA	NA	NA	NA	Clear water, leaves in sump. Musty odor, no flow from north inlet off Flamingo	No	Yes- Musty
9	10/31/2024	Pickford/Mlburn	Outfall 2680	3448	7467	NA	NA	NA	NA	Musty odor, clear trickle flow and midges present. Sampled west inlet	No	Yes-Musty

**Appendix B**

**Table B 2024 Lower Rouge Water Quality Monitoring Data**

# Wayne County Lower Rouge Water Trail Water Quality Monitoring Summary

October 2, 2024

*Escherichia coli* (*E. coli*) reported as Colony Forming Units (CFU)/100mL

State of Michigan recreational total body contact standard: 300 CFU/100mL

State of Michigan recreational partial body contact standard: 1000 CFU/100mL

Results exceeding recreational partial body contact standard in red font

Sample Site Location	Community	5/15/2024	5/22/2024	5/30/2024	6/4/2024	6/11/2024	6/18/2024	6/27/2024	7/2/2024	7/8/2024	7/17/2024	7/23/2024	7/31/2024	8/5/2024	9/3/2024	9/10/2024	9/19/2024	9/23/2024
LR-01 Morton Taylor Rd	Canton	120	230	770	530	510	1400	540	430	420	550	4400	64	300	290	340	370	540
LR-02 John Hix Rd	Wayne	400	320	840	1200	700	2000	750	470	780	860	4600	98	510	370	520	510	700
LR-03 Elizabeth St	Wayne	450	420	840	880	2100	2900	1000	810	660	1100	5500	200	610	550	610	790	3100
LR-04 Venoy Rd	Wayne	2400	3700	2400	1400	2400	6100	5200	1500	1700	930	7300	180	1400	700	540	540	3400
LR-05 Henry Ruff Rd	Westland	520	1500	1600	960	930	8200	5200	500	1400	1200	4400	160	1200	520	450	590	2400
LR-06 John Daly Rd	Inkster	420	700	2900	1100	910	2000	910	930	740	1100	1800	170	1000	350	570	510	4900
Beech Daly	Inkster	540	810	3900	960	1100	3300	1000	820	1000	810	1500	140	1300	510	700	590	3300
48 hour rainfall total prior to sampling (inches ")		T	0.19"	0.09"	0.00"	T	0.56"	0.79"	0.00"	0.00"	0.55"	0.04"	0.07"	0.00"	0.00"	0.00"	0.00"	0.26"
Last recorded measurable rainfall prior to sampling amount/date		0.30" 5/11/2024	0.04" 5/21/2024	0.09" 5/29/2024*	0.20" 6/2/2024**	0.38" 6/8/2024	0.56" 6/17/2024	0.22" 6/26/2024	1.02" 6/29/2024	0.10" 7/5/2024	0.54" 7/16/2024	0.02" 7/22/2024	0.05" 7/30/2024	0.31" 8/2/2024	0.22" 8/31/2024	0.06" 9/06/2024	0.06" 9/06/2024	0.06" 9/06/2024

## Notes:

T-Trace of Precipitation recorded

\*1.1" of precipitation recorded May 26-27, 2024

\*\*0.32" of precipitation recorded June 1-2, 2024

NA: Not Applicable

Precipitation data from NOAA-Record of Climatological Observations Detroit Metropolitan Airport (DTW)

Monitoring performed by Wayne County Department of Public Services Environmental Services Division

**Appendix C**  
**2024 Partners for Clean Water Regional IDEP Training Workshop**  
**Alert Observer Training**  
**Investigator Training**  
**Attendance Lists**

October 8, 2024, Alert Observer Attendee List Macomb County  
October 8, 2024, IDEP Investigator Training Attendee List Macomb County  
October 9, 2024, Alert Observer Attendee List Wayne County  
October 9, 2024, IDEP Investigator Training Attendee List Wayne County  
November 13, 2024, IDEP Investigator Training Attendee List Wayne County  
Alert Observer Virtual Attendee List

SEMCOG UNIVERSITY  
 ALERT OBSERVER TRAINING  
 ATTENDANCE LIST  
 OCTOBER 8, 2024  
 MACOMB COUNTY

Number	Name	Community
1	Adam Skotzke	Bloomfield Township
2	Adam Pulter	Bloomfield Township
3	Paul Palace	Bloomfield Township
4	Mark Sirls	City of Ann Arbor
5	Joseph Kelley	City of Ecorse
6	Brett Wilson	City of Lathrup Village
7	David Chung	City of Lathrup Village
8	Ryan Colpitts	City of Lathrup Village
9	Aaron Atkinson	City of Marine City
10	Josh Danneels	City of Marine City
11	Michael Lee	City of Orchard Lake Village
12	Shane Rudolph	City of Rochester Hills
13	Jason Kuehnel	City of St. Clair
14	Jonathon Retaskie	City of Troy
15	Mike Verstrate	City of Troy
16	William Yohe	City of Troy
17	Brandon Bilbrey	City of Utica
18	Brian Fearnley	City of Utica
19	Joseph Lang	City of Utica
20	Michael Francis	City of Utica
21	Michael Pacholke	City of Utica
22	Jerry Doan	Clay Township
23	Lance Surdey	Clay Township
24	Ian Harris	Macomb County
25	Irvin Wyche	Macomb County
26	Jenay Chartier	Macomb County
27	Jessica Hicks	Macomb County
28	John Griffor	Macomb County
29	Brad Clark	Macomb County Public Works
30	Gabrielle Fife	Macomb County Public Works
31	Garrett Beels	Macomb County Public Works
32	Mashefya Nessa	Macomb County Public Works
33	Nick Denault	Macomb County Public Works
34	Paul Fiset	Macomb County Public Works
35	Sophia Ceglarek	Macomb County Public Works
36	Tony LeMire	Macomb County Public Works
37	Gabrielle Girard	Oakland County Parks and Recreation
38	Jesse Ward	Oakland County Parks and Recreation
39	Katri Studtmann	Oakland County Parks and Recreation
40	Rebecca Pouch	Oakland County Parks and Recreation
41	Tyler McDermott	Oakland County Parks and Recreation
42	Zach Owczarzak	Oakland County Parks and Recreation
43	Josh Edwards	Oakland County Water Resources
44	Richard Pyles	Oakland County Water Resources
45	Seth Hefner	Oakland County Water Resources
46	Rudy Reyes	Village of Oxford

SEMCOG UNIVERSITY  
ALERT OBSERVER TRAINING  
ATTENDANCE LIST  
OCTOBER 8, 2024  
MACOMB COUNTY

Number	Name	Community
47	Laura Hartman	West Bloomfield Township
	ARC Member Community/Partner	

SEMCOG UNIVERSITY  
 IDEP INVESTIGATOR TRAINING  
 ATTENDANCE LIST  
 OCTOBER 8, 2024  
 INPERSON ONLY  
 MACOMB COUNTY

<b>Number</b>	<b>Name</b>	<b>Community</b>
1	Paul Palace	Bloomfield Township
2	Adam Pulter	Bloomfield Township
3	Adam Skotzke	Bloomfield Township
4	Laura Hartman	West Bloomfield Township
5	Joseph Kelley	City of Ecorse
6	Entrice Mitchell	City of Flint
7	Jacque Giles	City of Flint
8	Tracy Smith	City of Flint
9	David Chung	City of Lathrup Village
10	Aaron Atkinson	City of Marine City
11	Josh Danneels	City of Marine City
12	Michael Lee	City of Orchard Lake Village
13	Shane Rudolph	City of Rochester Hills
14	Jonathan Orzel	City of Sterling Heights
15	Jonathon Retaskie	City of Troy
16	William Yohe	City of Troy
17	Brandon Bilbrey	City of Utica
18	Brian Fearnley	City of Utica
19	Joseph Lang	City of Utica
20	Michael Francis	City of Utica
21	Michael Pacholke	City of Utica
22	Jerry Doan	Clay Township
23	Lance Surdey	Clay Township
24	Ian Harris	Macomb County
25	Jeremy Brown	Oakland County
26	Jeff Monette	Oakland County Parks and Recreation
27	Katri Studtmann	Oakland County Parks and Recreation
28	Rebecca Pouch	Oakland County Parks and Recreation
29	Ryan Danescu	Oakland County Parks and Recreation
30	Tyler McDermott	Oakland County Parks and Recreation
31	Zach Owczarzak	Oakland County Parks and Recreation
32	Rudy Reyes	Village of Oxford
	ARC Member Community/Partner	

SEMCOG UNIVERSITY  
 IDEP INVESTIGATOR TRAINING  
 ATTENDANCE LIST  
 OCTOBER 9, 2024  
 WAYNE COUNTY

Number	Name	Community
1	Cody Michael	Canton Township DPW
2	Conner Byrd	Canton Township DPW
3	Gunnar Peterson	Canton Township DPW
4	Makayla Schultz	Canton Township DPW
5	Miekyn Cotton	City of Ann Arbor
6	Jason Hater	City of Belleville
7	Mike Hoag	City of Belleville
8	Richard Rutherford	City of Belleville
9	John Danci	City of Dearborn Heights
10	Ethan Linn	City of Dexter
11	Jerrad Heinz	City of Dexter
12	Cameron Tomin	City of Farmington
13	James Englen	City of Farmington
14	Patrick Nelson	City of Farmington
15	Ed Hoffman	City of Livonia
16	Jason Ryan	City of Livonia
17	Lindsay Szwejkowski	City of Livonia
18	Cody Ayers	City of Plymouth
19	Evan Duffiney	City of Plymouth
20	Ken Campbell	City of Plymouth
21	Martin McGaha	City of Plymouth
22	Ryan Bradd	City of Trenton
23	Curtis Murry	City of Wayne
24	Dylan Thamm	City of Wayne
25	Justin Groulx	City of Wayne
26	Bonnie Wessler, AICP	City of Ypsilanti
27	Darren Massey	City of Ypsilanti
28	Kenneth Dancy	City of Ypsilanti
29	Robert Gillespie	City of Ypsilanti
30	Robert Nash	City of Ypsilanti
31	Ryan Dillon	City of Ypsilanti
32	Melanie Schlacht	Lyon Township
33	Ben Zwarka	Plymouth Township DPW
34	Eric Maclean	Plymouth Township DPW
35	Nathan Boff	Plymouth Township DPW
36	Nathaniel Martin	Plymouth Township DPW
37	Don Boynton	Van Buren Township
38	Kevin Dubnicki	Washtenaw County Road Commission
39	Nickolas Robison	Washtenaw County Road Commission
40	Destynee Jacks	Wayne County
41	Ken Whitmore	Wayne County
	ARC Member Community/Partner	

SEMCOG UNIVERSITY  
ALERT OBSERVER TRAINING  
ATTENDANCE LIST  
OCTOBER 9, 2024  
WAYNE COUNTY

Number	Name	Community
1	Cody Michael	Canton Township DPW
2	Conner Byrd	Canton Township DPW
3	Gunnar Peterson	Canton Township DPW
4	Makayla Schultz	Canton Township DPW
5	Melissa Menerey	City of Ann Arbor
6	Miekyn Cotton	City of Ann Arbor
7	Peter Stephens	City of Ann Arbor
8	Jason Hater	City of Belleville
9	Mike Hoag	City of Belleville
10	Richard Rutherford	City of Belleville
11	John Danci	City of Dearborn Heights
12	Ethan Linn	City of Dexter
13	Jerrad Heinz	City of Dexter
14	Cameron Tomya	City of Farmington
15	James Englen	City of Farmington
16	Patrick Nelson	City of Farmington
17	Ed Hoffman	City of Livonia
18	Jason Ryan	City of Livonia
19	Lindsay Szejkowski	City of Livonia
20	Martin McGaha	City of Plymouth
21	Ryan Bradd	City of Trenton
22	Bonnie Wessler, AICP	City of Ypsilanti
23	Darren Massey	City of Ypsilanti
24	Kenneth Dancy	City of Ypsilanti
25	Robert Gillespie	City of Ypsilanti
26	Robert Nash	City of Ypsilanti
27	Ryan Dillon	City of Ypsilanti
28	Melanie Schlacht	Lyon Township
29	Ben Zwarka	Plymouth Township DPW
30	Cody Ayers	Plymouth Township DPW
31	Eric Maclean	Plymouth Township DPW
32	Evan Duffiney	Plymouth Township DPW
33	Ken Campbell	Plymouth Township DPW
34	Nathan Boff	Plymouth Township DPW
35	Nathaniel Martin	Plymouth Township DPW
36	Mollie Brown	Saint Clair County Health Department
37	Don Boynton	Van Buren Township
38	Kevin Dubnicki	Washtenaw County Road Commission
39	Nickolas Robison	Washtenaw County Road Commission
40	Destyneee Jacks	Wayne County
41	Ken Whitmore	Wayne County
42	Jack Schneider	West Bloomfield Parks and Recreation
43	Michael Thelen	West Bloomfield Parks and Recreation
44	Garry McCallum	West Bloomfield Parks and Recreation
45	Justine Pawloski	West Bloomfield Parks and Recreation
46	Noah Holly	West Bloomfield Parks and Recreation

SEMCOG UNIVERSITY  
ALERT OBSERVER TRAINING  
ATTENDANCE LIST  
OCTOBER 9, 2024  
WAYNE COUNTY

<b>Number</b>	<b>Name</b>	<b>Community</b>
47	Ryan Johnston	West Bloomfield Parks and Recreation
48	Timothy Lang	West Bloomfield Parks and Recreation
49	Matt Schaerer	West Bloomfield Township
ARC Member Community/Partner		

SEMCOG UNIVERSITY  
 IDEP INVESTIGATOR TRAINING  
 ATTENDANCE LIST  
 NOVEMBER 13, 2024  
 WAYNE COUNTY

<b>Number</b>	<b>Name</b>	<b>Community</b>
1	Eric Ostrander	City of Allen Park
2	Mike Pierfederici	City of Allen Park
3	Don Stander	City of Garden City
4	Joseph Fuchs	City of Garden City
5	Mikel Wainwright	City of Garden City
6	Vincenzo Giuliano	City of Garden City
7	Kevin Hartman	City of Grosse Pointe Shores
8	Chad Gazie	City of Trenton
9	Eric Lomax	City of Trenton
10	Chris King	Redford Township
11	Cody Moore	Redford Township
12	Nick Hawthorne	Redford Township
13	Sean Senkbeil	Redford Township
14	Shaun Morton	Redford Township
15	Don Vogrin	Village of Bingham Farms
	ARC Community/Partner	

SEMCOG UNIVERSITY  
ALERT OBSERVER TRAINING  
ATTENDANCE LIST  
OCTOBER 2024  
VIRTUAL

Number	Name	Community	Training Date
1	Don Vogrin	Village of Bingham Farms	10/1/2024
2	Adam Brauer	City of Novi DPW	10/3/2024
3	Brett Faulkner	City of Novi DPW	10/1/2024
4	Casey Fox	City of Novi DPW	10/2/2024
5	Chris Stanley	City of Novi DPW	10/2/2024
6	Chuck Fritz	City of Novi DPW	10/2/2024
7	Dean Reid	City of Novi DPW	10/2/2024
8	Jeff Van Curler	City of Novi DPW	9/27/2024
9	Jim Matties	City of Novi DPW	10/2/2024
10	Jim Paulk	City of Novi DPW	10/2/2024
11	John Collins	City of Novi DPW	10/2/2024
12	John Talbot	City of Novi DPW	10/2/2024
13	Ken Register	City of Novi DPW	10/4/2024
14	Mike Tate	City of Novi DPW	10/2/2024
15	Phil Salvatori	City of Novi DPW	10/8/2024
16	Ryan Trainer	City of Novi DPW	10/1/2024
17	Scott Roselle	City of Novi DPW	10/1/2024
18	Shawn Trainer	City of Novi DPW	10/7/2024
19	Tom Constantine	City of Novi DPW	10/4/2024
20	Trent Martin	City of Novi DPW	10/4/2024
21	Tyler Smith	City of Novi DPW	10/3/2024
22	Jessica Johnston	City of Sterling Heights DPW	10/8/2024
23	Joe Vitale	City of Sterling Heights DPW	10/8/2024
24	Jon Orzel	City of Sterling Heights DPW	10/8/2024
25	Lee Grant	City of Sterling Heights DPW	10/8/2024
26	Mike McManemy	City of Sterling Heights DPW	10/8/2024
27	Paul Danforth	City of Sterling Heights DPW	10/8/2024
28	Curtis Murry	City of Wayne DPW	10/9/2024
29	Dylan Thamm	City of Wayne DPW	10/9/2024
30	Justin Groulx	City of Wayne DPW	10/9/2024
31	D. Skelton	Oakland County Parks and Recreation	10/2/2024
32	Jeff Monette	Oakland County Parks and Recreation	10/2/2024
33	Shayne Skolnik	Oakland County Parks and Recreation	10/8/2024
34	Matthew Mader	Oakland County Parks and Recreation	10/10/2024
	ARC Member Community/Partner		

**Appendix B2**

**2025 Wayne County IDEP Investigation Report**

**Wayne County Illicit Discharge Elimination Program  
ARC IDEP Services 2025 Report**

**Executive Summary**

Wayne County Department of Public Services Environmental Services Division (ESD) performed source identification advanced investigations in the cities of Plymouth, and Livonia (Table 1). ESD also collaborated with ARC staff with source identification efforts in the cities of Livonia and Wayne. Other tasks completed in 2025 include IDEP Training, water quality monitoring, and activity reporting.

Table 1: Findings and recommended actions for illicit discharge investigations

<b>Community</b>	<b>Outfall/ target area</b>	<b>Findings</b>	<b>Recommendations</b>
Plymouth	PY8	Elevated <i>E. coli</i> and HF183 marker	No additional investigation in this area recommended
Plymouth	PY5	Elevated <i>E. coli</i> and HF183 marker	Perform follow up sampling for <i>E. coli</i> and HF183 marker at outfall after illicit connections are identified/confirmed corrected
Plymouth	Mill/Park Street	Ongoing compliance efforts with the City of Plymouth and the property owners of the 3 remaining illicit connections	Recommend continued communication and compliance efforts to correct remaining illicit connections. Once corrections are made, perform follow-up sampling for <i>E. coli</i> and HF183 marker at outfall and Mill Street laterals
Livonia	2680	Elevated <i>E. coli</i> and HF183 marker at outfall and storm sewer laterals	Recommend continuing investigations, including sampling for <i>E. coli</i> and HF183 marker in storm sewer laterals, and dye testing as needed
Lower Rouge	Lower Rouge Water Trail	Monitoring 7 sites on the Lower Rouge Water Trail during the recreational season	Follow up investigations as needed in sections of the river upstream of sites with elevated <i>E. coli</i> concentrations

**Task 1: Field Investigations**

ESD conducted IDEP investigations at various outfalls and upstream storm sewer manholes. Water samples were tested for *E. coli* and observations were recorded regarding water clarity, color, odor, and

debris. In addition to ESD's typical IDEP investigation methods, select samples were analyzed for the Human Source (HF183) marker. The presence of the marker above 1,000 gene copies (GC)/100 mL is used as a threshold to indicate potential human source (s) of bacteria present when correlated with elevated *E. coli* levels.

### **City of Plymouth**

ESD coordinated with ARC staff and the City of Plymouth on investigations of outfalls PY8, PY5, and the Park Street municipal separate storm sewer systems (MS4). The PY8 and PY5 outfalls discharge to the North Branch Tonquish Creek. The Park Street MS4 captures the Mill Street drainage and discharges to the Rouge River Middle Branch.

#### *Outfall PY8*

ESD did not perform any manhole and storm sewer lateral investigations upstream of the outfall in 2025. Elevated HF183 marker was identified in a segment of storm sewer during manhole sampling during investigative work of previous years. This segment is the furthest upstream segment of the Blunk Street storm sewer (between Junction and Farmer Streets). There are known sanitary sewer integrity issues in the area, and the City of Plymouth has plans for infrastructure improvements. No additional investigation is planned in this area for 2026.

#### *Outfall PY5*

ESD did not perform any manhole and storm sewer lateral investigations upstream of the outfall in 2025. Elevated HF183 marker was identified in segments of storm sewer during manhole sampling during investigative work of previous years. The City of Plymouth dye tested six out of seven residences in the investigation area on William Street. The residences dye tested did not have illicit connections. The one remaining residence on William Street is not allowing access to perform a dye test, and an illicit connection is suspected.

Completing dye testing of the remaining residence, confirming correction of illicit connections, and follow up sampling for *E. coli* and HF183 marker at the outfall is planned for 2026.

#### *Park Street/Mill Street Investigation Area*

Efforts are ongoing to resolve illicit connections remaining at three residences. Two of the residences discharge into Wayne County Mill Street MS4 (195 S. Mill and 485 S. Mill). The third, a residence on Amelia Street (175 Amelia), discharges into the City of Plymouth MS4. Amelia Street is tributary to the Mill Street storm sewer.

Once the illicit connections are confirmed corrected, the Mill Street storm sewer laterals and the Park Street storm sewer outfall will be resampled for *E. coli* and HF183 marker.

### **City of Livonia**

#### *Outfall 2680*

The City of Livonia televised the storm sewer line on the north side of Pickford Street between Hillcrest and Bainbridge Streets during July 2025. Elevated *E. coli* and HF183 marker were detected during previous investigations. The televising crew found an unpermitted six-inch edge drain 90 feet west of Flamingo Street from a residential back yard. The pipe may be receiving stormwater drainage from the residence. Two unknown leads were identified between Bainbridge and Milburn Streets, but these leads appear to be stormwater drainage, possibly from beehive drains adjacent to the roadway. No signs of illicit discharge (s) were observed during the televising.

DPS-ESD and ARC staff performed additional source tracking on the Pickford Street storm sewer line on September 18, 2025. Elevated *E. coli* and HF 183 markers were detected in samples from the Sunset Street inlet. The City of Livonia performed televising on the Pickford Street line to Purlingbrook Street, and Sunset, Milburn, Flamingo, and Hillcrest Streets north to Clarita Steet in November 2025. No illicit discharges were identified.

Further source tracking efforts on the Sunset Street storm sewer line, and dye testing performed as needed are recommended for 2026.

The 2680 source tracking area is shown in Figure 1. The dry weather screening data is in Appendix A, Table A1.

### **Source Investigation Support**

ESD supported ARC staff with performing source investigations on Wayne outfalls #36, 47, and 65, and Livonia outfall U2008170. Summaries of the investigations are in the 2025 ARC Activity report, prepared by ARC staff.

### **Lower Rouge Water Trail Monitoring**

Wayne County continued monitoring *E. coli* at seven sites along the Lower Rouge Water Trail route during the 2025 recreational season. The monitoring was performed for eight weeks during August-October 2025. A total of 57 *E. coli* samples were collected on the Lower Rouge Water Trail, including one sample collected at an additional site on the Lower Rouge at Merriman Road.

The samples collected on the Lower Rouge Water Trail met 1000 CFU/100mL *E. coli* partial body contact standard for six out of eight monitoring events. One sample exceeded the 1000 CFU/100mL *E. coli* partial body contact standard during dry weather. This sample was collected at LR-05 (Henry Ruff Road) on September 15, 2025, and had an *E. coli* concentration of 1100 CFU/100mL.

Fifteen of the 57 samples (26.3%) were at or below the full body contact standard of 300 CFU/100mL *E. coli*.

Geomeans performed on the data by monitoring event demonstrate that the partial body contact standard was met for seven out of eight events, a wet weather event on September 24, 2025, being the exception. The geomean was below 300 CFU/100mL for three of the events, with the lowest geomean occurring on October 13, 2025.

DPS-ESD plans to continue the Lower Rouge Water Trail Water Quality monitoring during the 2026 recreational season.

Appendix C contains the 2025 Lower Rouge Water Trail monitoring data and event geomeans

### **Task 2 IDEP Training**

Four IDEP training workshops were presented in 2025 in partnership with the Southeast Michigan Council of Governments (SEMCOG) Partners for Clean Water and the ARC. ESD provides support to ARC and SEMCOG for these training efforts. The Alert Observer training was offered as an in-person training and included a visit to a nearby outfall for an outfall screening demonstration. The IDEP Investigator training workshop was also in-person.

### *Alert Observer*

The IDEP Alert Observer training workshop is a one-hour session that includes a question and answer session at its conclusion. This training introduces illicit discharges, why it is important to identify and report, and reporting procedures. The in-person training workshop was held in person at the Oakland County Water Resource Commission Office, in Oakland County on November 5, and at the Northville Township Essential Services Complex in Wayne County November 12. A total of 73 persons attended the sessions. Forty-two (42) attendees were representatives of (or consultants representing) ARC member communities.

### *IDEP Investigator*

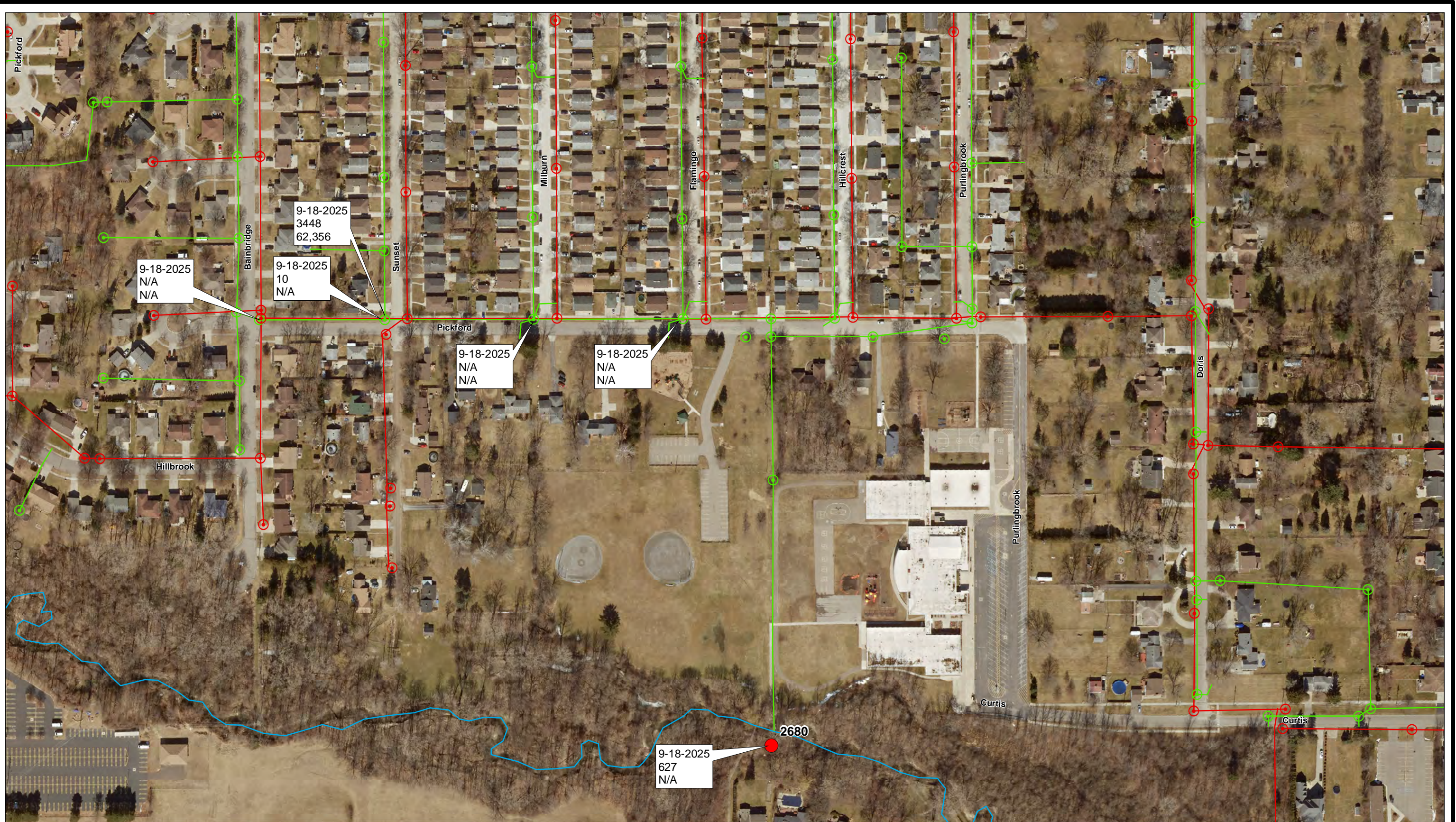
The IDEP Investigator training workshop is a three-hour session that includes a question and answer session at its conclusion, and a tabletop exercise. This training details the various techniques used to investigate, identify and eliminate illicit discharge sources. The Investigator training in-person training workshop was held in person at the Oakland County Water Resource Commission Office, in Oakland County on November 5, and at the Northville Township Essential Services Complex in Wayne County November 12. A total of 52 persons attended the sessions. Thirty-two (32) of the attendees were representatives of (or consultants representing) ARC member communities.

Appendix C contains the attendance lists for the Alert Observer and IDEP Investigator workshops. Attendees representing ARC communities are highlighted.

### **Task 3 Reporting**

Written progress summaries of IDEP activities were provided. The 2024 IDEP Activities Summary was completed and the 2024 activities summary drafted.

**2025 ARC IDEP Field Investigations**  
**Figure 2: Outfall 2680 Investigation Area Map**



9-18-2025  
3448  
62,356

9-18-2025  
N/A  
N/A

9-18-2025  
10  
N/A

9-18-2025  
N/A  
N/A

9-18-2025  
N/A  
N/A

9-18-2025  
627  
N/A

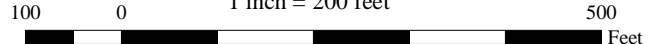
2680



**CITY OF LIVONIA**  
**2025 IDEP Investigation**  
**Outfall 2680**



Scale: 1:2,400  
1 inch = 200 feet



E. coli reporting units - CFU/100 ml  
2021 E. coli only  
HF183 reporting units - GC/100 ml  
2023 & 2024 HF183 and E. coli.  
top value E. coli - CFU/100 ml  
bottom value HF183 - GC/100 ml

- Category B outfall
- Sanitary Gravity Main
- Sanitary Manhole
- Stormwater Gravity Main
- Stormwater Manhole

**Appendix A**  
**2025 ARC IDEP Field Investigation Data**  
**City of Livonia**  
Table A1: Outfall 2680 Investigation Area

APPENDIX A  
 OUTFALL 2680 INVESTIGATION  
 CITY OF LIVONIA  
 ARC IDEP 2025

Number	Date	Investigation Location	Site Location	<i>E. coli</i> (colony-forming units (CFU)/100mL)	HF183 Gene copies (GC)/100mL	Ammonia (PPM)	Surfactant (PPM)	Conductivity (mS/cm)	Temperature (degrees Celsius)	Observations	Sanitary Flow Evidence	Odor
1	9/18/2025	Outfall 2680	Outfall 2680	627	NA	NA	NA	NA	NA	Water clear at outfall	No	No
2	9/18/2025	Pickford/Sunset north inlet	Outfall 2680	3448	62356	NA	NA	NA	NA	Trickle flow from north inlet; steady flow from west	No	No
3	9/18/2025	Pickford/Sunset west inlet	Outfall 2680	10	NA	NA	NA	NA	NA	Trickle flow from north inlet; steady flow from west	No	No
4	9/18/2025	Pickford/Flamingo	Outfall 2680	NA	NA	NA	NA	NA	NA	Clear flow from west inlet, north inlet dry	No	No
5	9/18/2025	Pickford/Milburn	Outfall 2680	NA	NA	NA	NA	NA	NA	Clear flow from west inlet, north inlet dry	No	No
6	9/18/2025	Pickford/Bainbridge	Outfall 2680	NA	NA	NA	NA	NA	NA	Trickle flow from catch basin, lots of sediment in bottom of sump and north inlet. Clear water	No	No

**Appendix B**

**Table B 2025 Lower Rouge Water Quality Monitoring Data and event geomeans**

## Wayne County Lower Rouge Water Trail Water Quality Monitoring Summary

*Escherichia coli* (*E. coli*) reported as Colony Forming Units (CFU)/100mL

State of Michigan recreational total body contact standard: 300 CFU/100mL

State of Michigan recreational partial body contact standard: 1000 CFU/100mL

Results exceeding recreational partial body contact standard in red font

Sample Site Location	Community	Date Sampled							
		8/4/2025	9/3/2025	9/8/2025	9/15/2025	9/24/2025	9/30/2025	10/6/2025	10/13/2025
LR-01 Morton Taylor Rd	Canton	180	200	200	200	4000	310	410	<1
LR-02 John Hix Rd	Wayne	380	310	410	850	8000	310	<1	200
LR-03 Elizabeth St	Wayne	400	410	410	410	9800	410	750	200
LR-04 Venoy Rd	Wayne	330	200	310	860	24000	630	740	630
Merriman Rd	Wayne	NA	NA	NA	NA	NA	980	NA	NA
LR-05 Henry Ruff Rd	Westland	360	740	300	1100	18000	630	200	<1
LR-06 John Daly Rd	Inkster	350	750	100	410	12000	200	740	100
Beech Daly	Inkster	550	410	410	520	9900	980	510	410
48 hour rainfall total prior to sampling (inches ")		T	0.00"	0.00"	T	0.43"	0.00"	0.00"	0.00"
Last recorded measurable rainfall prior to sampling amount/date		0.39" 7/31/2025*	0.10" 8/24/2025	0.41" 9/4/2025	0.41" 9/4/2025	0.89" 9/24/2025	0.89" 9/24/2025	0.89" 9/24/2025	0.01" 10/10/2025

### Notes:

T-Trace of Precipitation recorded

\*1.80" of precipitation recorded July 30, 2025, and 2.68" July 28, 2025

NA: Not Applicable

Precipitation data from NOAA-Record of Climatological Observations Detroit Metropolitan Airport (DTW)

### *E. coli* Geomeans per sampling event 2025

Sample Date	Geomean per Event (CFU/100mL)
8/4/2025	348.6
9/3/2025	381
9/8/2025	277.95
9/15/2025	543.77
9/24/2025	10703.48
9/30/2025	437.44
10/6/2025	208.58
10/13/2025	52.04

Monitoring performed during wet weather 9/24/2025

**Appendix C**  
**2025 Partners for Clean Water Regional IDEP Training Workshop**  
**Alert Observer Training**  
**Investigator Training**  
**Attendance Lists**

November 5, 2025, Alert Observer Attendee List Oakland County  
November 5, 2025, IDEP Investigator Training Attendee List Oakland County  
November 12, 2025, Alert Observer Training Attendee List Wayne County  
November 12, 2025, IDEP Investigator Training Attendee List Wayne County

SEMCOG UNIVERSITY  
 ALERT OBSERVER TRAINING  
 ATTENDANCE LIST  
 NOVEMBER 5, 2025  
 OAKLAND COUNTY

Number	Name	Community
1	Jamie Moore	Bingham Farms
2	Nick Brown	Bloomfield Charter Township
3	Jacob Mead	Bloomfield Charter Township
4	Andrew Lozon	City of Allen Park
5	Jacob Pobursky	City of Allen Park
6	Xavier Marshall	City of Allen Park
7	James Turner	City of The Village of Clarkston
8	Lydia Nicholas	Clinton River Watershed Council
9	Shannon Ervin	Clinton River Watershed Council
10	William Lieberman	Clinton Township Department of Public Works
11	Jason D. Mills	Clinton Township Department of Public Works
12	John Griffor	Macomb County
13	Brad Beels	Macomb County Public Works
14	Brad Clark	Macomb County Public Works
15	Garrett Beels	Macomb County Public Works
16	RJ Mauldin	Macomb County Public Works
17	Colin Gibbs	Oakland County
18	Sarah Stoolmiller	Oakland County
19	Aaron Bush	Oakland County Parks And Recreation
20	Dathon Skelton	Oakland County Parks And Recreation
21	Dave Patnaude	Oakland County Parks And Recreation
22	Robbie Jeglum	Oakland County Parks And Recreation
23	Lydia Rooney	Oakland County Road Commission
24	Nate Jessee	Oakland County Road Commission
25	Richard D. Walker, Jr.	
	ARC Member Community/Partner	

SEMCOG UNIVERSITY  
 IDEP INVESTIGATOR TRAINING  
 ATTENDANCE LIST  
 NOVEMBER 5, 2025  
 OAKLAND COUNTY

Number	Name	Community
1	Nick Brown	Bloomfield Charter Township
2	Jacob Mead	Bloomfield Charter Township
3	Doug Waldon	City of Keego Harbor
4	James Turner	City of The Village of Clarkston
5	William Lieberman	Clinton Township Department of Public Works
6	Jason D. Mills	Clinton Township Department of Public Works
7	William Lieberman	Clinton Township Department of Public Works
8	Stephanie List	DLZ
9	Colin Gibbs	Oakland County
10	Sarah Stoolmiller	Oakland County
11	Aaron Bush	Oakland County Parks And Recreation
12	Dave Patnaude	Oakland County Parks And Recreation
13	Joel Joslin	Oakland County Parks And Recreation
14	Luke Murchie	Oakland County Parks And Recreation
15	Robbie Jeglum	Oakland County Parks And Recreation
16	Viacheslav Atkins-Dovbenko	Oakland County Parks And Recreation
17	Lydia Rooney	Oakland County Road Commission
18	Nate Jessee	Oakland County Road Commission
	ARC Member Community/Partner	

SEMCOG UNIVERSITY  
ALERT OBSERVER TRAINING  
ATTENDANCE LIST  
NOVEMBER 12, 2025  
WAYNE COUNTY

Number	Name	Community
1	Clayton Markert	Bloomfield Charter Township
2	Shane Beslock	Bloomfield Charter Township
3	David Thickstun	Bloomfield Charter Township
4	Andrew Lozon	City of Allen Park
5	Jacob Pobursky	City of Allen Park
6	Xavier Marshall	City of Allen Park
7	Grayson Obey	City of Detroit
8	Juliana Witt	City of Detroit
9	Dustin Drake	City of Dexter
10	Scott Taphouse	City of Dexter
11	Josh Harris	City of Farmington Hills
12	Tyler Sonoga	City of Farmington Hills
13	Katie Gallagher	City of Farmington Hills DPW
14	Melanie Guyette	City of Farmington Hills DPW
15	Jason Lhamon	City of Hazel Park
16	Aaron Staup	City of Novi
17	Jeffrey Vancurler	City of Novi
18	Kate Purpura	City of Novi
19	Milad Layth Alesmail	City of Novi
20	Derek Frizzell	City of Wayne
21	James Basballe	City of Wayne
22	Jason Middleton	City of Wayne
23	Jason Proudlock	City of Wayne
24	Mikela Dean	Clinton River Watershed Council
25	Lisa Boyce	Farmington Public Schools
26	Josh Gornowicz	Huron Valley Schools
27	Shane Laszlo	Livingston County
28	Dan Raupp	No affiliation listed
29	Richard D. Walker, Jr.	No affiliation listed
30	Tim Musuta	No affiliation listed
31	Antonio Manzo	Northville Township
32	Brenden Villalobos	Northville Township
33	Dylan Webb	Northville Township
34	Elliot Michael Forde	Northville Township
35	Lamont Powell	Northville Township
36	Brian Tack	Northville Township
37	Brad Wethy	Oakland County Parks And Recreation
38	Erik Koppin	Oakland County Parks And Recreation
39	Daniel Hamann	Plymouth Township
40	Joseph Overaitis	Plymouth Township
41	James Scholten	Plymouth Township
42	Adam Kulinski	Village of Milford
43	Michael Karll	Village of Milford
44	David Streeter	Washtenaw County
45	Dominic Long	Washtenaw County

SEMCOG UNIVERSITY  
ALERT OBSERVER TRAINING  
ATTENDANCE LIST  
NOVEMBER 12, 2025  
WAYNE COUNTY

<b>Number</b>	<b>Name</b>	<b>Community</b>
46	Stas Bialecki	Washtenaw County
47	Olivia Lazic	Wayne County
48	Gregory Boney	Wayne County
	ARC Member Community/partner	

SEMCOG UNIVERSITY  
 IDEP INVESTIGATOR TRAINING  
 ATTENDANCE LIST  
 NOVEMBER 12, 2025  
 WAYNE COUNTY

Number	Name	Community
1	David Thickstun	Bloomfield Township
2	Shane Beslock	Bloomfield Township
3	Clayton Markert	Bloomfield Township
4	Andrew Lozon	City of Allen Park
5	Jacob Pobursky	City of Allen Park
6	Xavier Marshall	City of Allen Park
7	Grayson Obey	City of Detroit
8	Juliana Witt	City of Detroit
9	Dustin Drake	City of Dexter
10	Scott Taphouse	City of Dexter
11	Tyler Sonoga	City of Farmington Hills
12	Jason Lhamon	City of Hazel Park
13	Troy Hall	City of Livonia
14	Milad Layth Alesmail	City of Novi
15	Derek Frizzell	City of Wayne
16	James Basballe	City of Wayne
17	Jason Proudlock	City of Wayne
18	Jason Middleton	City of Wayne
19	Lisa Boyce	Farmington Public Schools
20	Shane Laszlo	Livingston County
21	Roderick Soos	Livingston County Drain Commission
22	Richard D. Walker, Jr.	No affiliation listed
23	Lamont Powell	Northville Township
24	Antonio Manzo	Northville Township
25	Elliot Michael Forde	Northville Township
26	Ryan Webb	Northville Township
27	Erik Koppin	Oakland County Parks And Recreation
28	Daniel Hamann	Plymouth Township
29	James Scholten	Plymouth Township
30	Joseph Overaitis	Plymouth Township
31	Adam Kulinski	Village of Milford
32	Michael Karll	Village of Milford
33	Olivia Lazic	Wayne County
34	Gregory Boney	Wayne County
	ARC Member Community/Partner	

## **Appendix B3**

### **2024 ARC IDEP Investigation Report**



John O'Meara, P.E  
Executive Director

- Auburn Hills
- Beverly Hills
- Bingham Farms
- Birmingham
- Bloomfield Hills
- Bloomfield Twp.
- Canton Twp.
- Commerce Twp.
- Dearborn Heights
- Farmington
- Farmington Hills
- Franklin
- Garden City
- Henry Ford College
- Inkster
- Lathrup Village
- Livonia
- Melvindale
- Northville
- Northville Twp.
- Novi
- Oak Park
- Oakland County
- Orchard Lake
- Plymouth
- Plymouth Twp.
- Redford Twp.
- Rochester Hills
- Romulus
- Schoolcraft College
- Southfield
- Troy
- University of Michigan-Dearborn
- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

- Cooperating Partners:
- Cranbrook Institute of Science
  - Friends of the Rouge
  - Great Lakes Water Authority
  - Rouge River Advisory Council
  - SEMCOG
  - Southeastern Oakland County Water Authority

**TO:** Tyler Sonoga, ARC Technical Committee Chair

**FROM:** Emily Levine, Technical Committee Coordinator

**DATE:** February 25, 2025

**SUBJECT:** 2024 IDEP Investigation Summary

In 2024, ARC staff continued to work on illicit discharge investigations, conducted in-stream sampling, and began the process of screening all outfalls owned by ARC communities. These projects were in accordance with the Rouge River Collaborative Illicit Discharge Elimination Plan and the 2024 ARC Technical Committee budget.

**TC1: Illicit Discharge Investigations**

Illicit discharge investigations were initiated and have been on-going since the outfall screening efforts conducted in 2018 and 2019, as well as sampling done in compliance with the collaborative TMDL plan in 2022. The results of the investigations are summarized in Table 1. More detail on each can be found in the investigation reports which were sent to the communities (Attachment A).

**Table 1. Status and Results of Illicit Discharge Investigations**

Permittee	Outfall ID	Status	Result
Beverly Hills	BV51	Closed	No illicit connection/human source identified
Livonia	L1619	Ongoing	Further investigation required
Novi	NO20	Closed	No illicit connection/human source identified
Birmingham	BH32	Ongoing	Further investigation required

In 2025, ARC staff will continue source investigations on the above outstanding issues as well as additional high priority outfalls identified during 2025 in accordance with the Collaborative IDEP Plan and as directed by the Technical Committee.

**TC2: Outfall Dry Weather Screening**

Outfall dry weather screening efforts have begun in compliance with the Collaborative IDEP requirements that are anticipated to be approved by EGLE. To support screening all ARC community outfalls, ARC staff have compiled updated outfall data provided by ARC communities and developed a screening protocol to be used to screen outfalls. This will allow for consistency and collaboration among ARC communities to achieve the goal of dry weather screening all outfalls with maximum efficiency. By using GIS to collect outfall screening data, we will be able to easily manage data and ensure that all outfalls are screened in a consistent manner. In 2024, the ARC began screening outfalls and 46 outfalls have been screened so far (Table 2). A summary table of the 2024 dry weather screening is provided in Attachment B.

**Table 2. Outfall screening status by community**

IDEP Plan Permittee	No. of Outfalls	No. of Outfalls Screened in 2024
Beverly Hills	54	
Bingham Farms	15	
Birmingham	32	4
Bloomfield Hills	64	
Bloomfield Twp.		
Canton Twp.	54	
Dearborn Heights	66	
Farmington	29	
Farmington Hills	135	
Franklin	7	
Garden City	1	1
Henry Ford College	2	
Inkster	10	10
Lathrup Village	8	
Livonia	753	15
Melvindale	2	
Northville	68	
Northville Twp.		
Novi	35	2
Oak Park	1	
Plymouth	29	15
Plymouth Twp.		
Redford Twp.	1	
Southfield	72	
Troy	113	
Walled Lake	15	
Wayne	98	
West Bloomfield Twp	13	
Westland	561	1
<b>Total</b>	<b>2238</b>	<b>46</b>

**TC3: Collaborative TMDL**

No activity budgeted in 2024. Revisions were made to the ARC Collaborative TMDL Plan in response to EGLE comments and negotiations with EGLE.

**TC4: In-Stream Investigational Sampling**

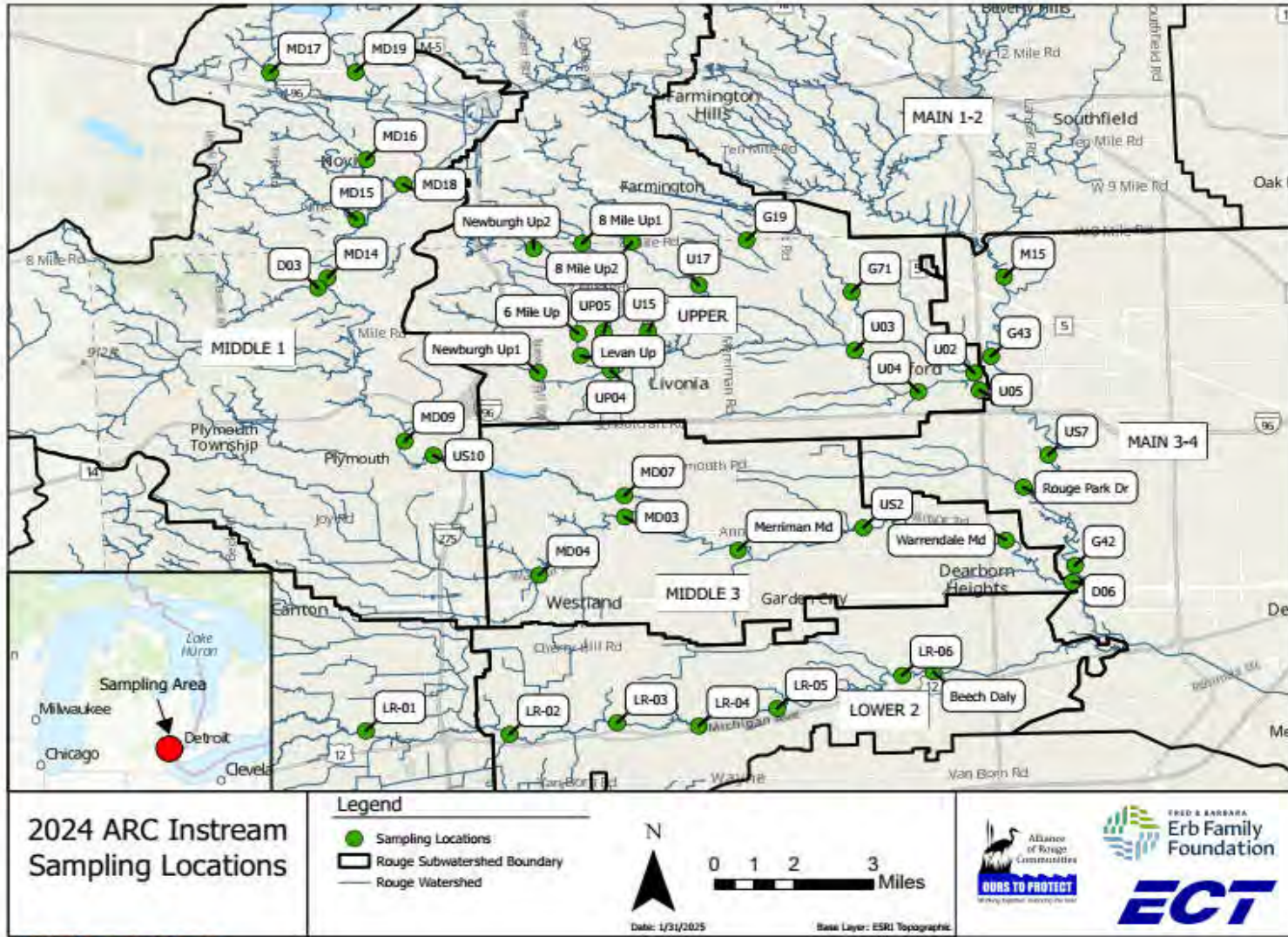
In the fall of 2023, the ARC received funding from the Erb Family Foundation to perform investigational *E.coli* sampling to identify where sanitary sewage is entering the Rouge River and provide training to municipal staff on how to comply with their stormwater permit. In 2024, ARC staff prepared a sampling plan, secured lab services, recorded rainfall data and collected instream grab

samples at 37 sites. Sampling was performed weekly for 20 consecutive weeks within the Middle, Upper, and Main branches of the Rouge River.

Concurrently, the WCDPS collected instream grab samples at 7 sites within the Lower Branch. This sampling was performed for 17 weeks. The sampling began in May and was completed in mid-September. A total of 859 individual *E.coli* samples were taken regardless of weather conditions. See Figure 1 for all sample locations.

Working collaboratively with WCDPS-ESD, geometric means were calculated from sampling data from each of the 44 sites and partitioned based on dry and wet-weather conditions. These findings indicated significant increases in *E. coli* levels during wet weather, as well as certain areas where the geometric mean for *E. coli* was over 1,000 MPN/100mL during dry weather. A detailed summary report is provided in Attachment C.

Figure 1. 2024 ARC Instream Sampling Location



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**Attachment A**  
**Community-specific Investigation Reports**

John O'Meara, P.E.  
Executive Director



Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

Cooperating Partners:  
Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority

**TO: Neil Johnson, Village of Beverly Hills Director of Public Services**

**FROM: Emily Levine, ARC Staff**

**DATE: February 25, 2025**

**SUBJECT: IDEP Investigation Results: Outfall BV51 (Sleepy Hollow Lane)**

---

ARC staff continued illicit discharge investigation on storm drain outfall BV51 in response to findings from the 2018 outfall screening and subsequent investigations. Our investigations did not reveal the source of *E. coli* entering the drain and no illicit connection has been identified.

The outfall drains a portion of Sleepy Hollow Lane, Fiddlers Cove Road, and Metamora Lane. The receiving water is an unnamed tributary of the Rouge River (Figure 1).

#### **Background**

Outfall BV51 was investigated due to the high *E. coli* concentrations found during the outfall survey conducted in 2018. At that time, the *E. coli* concentration was 3,076 MPN/100 ml which can be indicative of an illicit discharge containing sanitary sewage. ARC staff reinspected the outfall in 2019 and 2020 and found elevated *E. coli* and human *Bacteroides* concentrations (See Table 1). There were no physical signs (ex: odor, staining, debris, organic growth) of a sewage discharge to the storm drain in the outfall or any of the manholes. Likewise, there were no obvious signs of animal fecal impacts to the drain.

In 2021 and 2022, ARC staff coordinated with the Oakland County Water Resources Commissioner (OCWRC) to televise the drain. The drains from BV51-1 to the outfall, BV51-1 to BV51-2, and the drain from BV51-3 to BV51-2 were televised. BV51-2 is buried. A tap was identified in the storm drain between the outfall and BV51-1 that was believed to be a possible illicit connection, although no staining or evidence of sewage was observed (Figure 2).

In 2021, ARC staff coordinated with the Village of Beverly Hills to dye test 31349 Sleepy Hollow Lane. The dye testing revealed that all three bathrooms in the house were correctly connected to the sanitary drain and no dye was observed entering the storm drain. In 2023, ARC staff coordinated with the Village of Beverly Hills to dye test 31403 Sleepy Hollow Lane. No illicit connections were found. In addition, the manhole BV51-2 was dug up by the city staff and inspected by ARC staff, with no signs of illicit connections identified.

**Table 1. Sampling Results (*E. coli* in MPN/100 mL and Human *Bacteroides* in gene copies/100 ml)**

	<i>E. coli</i>	<i>E. coli</i>	<i>E. coli</i>	<i>E. coli</i>	<i>E. coli</i>	Human <i>Bacteroides</i>	<i>E. coli</i>	Human <i>Bacteroides</i>
	7/9/18	8/15/19	9/19/19	8/19/20	9/15/20	9/15/20	11/17/20	11/17/20
BV51-0	3,076	201	>24,196	573	>24,196	72,000	1,081	<354

**Results**

In 2024, ARC staff inspected BV51-1 on three occasions during dry weather conditions. During each inspection, there were no signs of an illicit discharge and dry weather flow was barely a trickle or sometimes non-existent. The trickle of water was not enough to sample.

**Conclusions and Recommendations**

Work to date indicates that no illicit connection has been identified upstream of BV51. This drainage area has been thoroughly investigated with no signs of illicit discharges identified. Although elevated *E. coli* was identified at the outfall, its source remains unknown. No further investigation is planned at this point, as no areas remain to investigate.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the Village’s MS4 permit and as a result of your ARC membership. If you have any questions, I can be reached at 313-963-6600 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

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Figure 1. Storm Drain and Sampling Locations



Figure 2. Tap to Storm Drain at 14.2 ft east of BV51-0





John O'Meara, PE  
Executive Director

Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

Cooperating Partners:

Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority

**TO: Doug Moore, City of Livonia**  
**FROM: Emily Levine, ARC Staff**  
**DATE: February 25, 2025**  
**SUBJECT: IDEP Investigation Results: Outfall L1619**

---

ARC staff continued the illicit discharge investigation on storm drain outfall L1619 in response to findings from the 2018 outfall screening and subsequent investigations conducted by Wayne County. Our investigations have not identified an illicit connection and further investigation is recommended.

**Background**

Outfall L1619 was investigated due to the high *E. coli* concentrations found during the outfall survey conducted in 2018. At that time, the *E. coli* concentration was 15,531 MPN/100 ml which is indicative of an illicit discharge containing sanitary sewage. Wayne County conducted follow-up investigations, which narrowed down the source to being upstream of a manhole located in the grass along the north side of Seven Mile Road, near a Chicken Shack restaurant (Figure 1). *E. coli* and Human *Bacteroides*/(DNA) levels at this manhole had been found to be elevated (Table 1).

Televising of the drain was done along 7 Mile Road in 2022. No signs of illicit connections were identified, and additional investigation was determined to be necessary. ECT worked with Wayne County to conduct additional sampling and dye testing in 2023. Elevated *E. coli* and human DNA were found in the manhole located in the grassy area southeast of the car wash (which is up-system of the Chicken Shack manhole, see Table 1). Dye testing showed all buildings in the vicinity, except for the car wash, to be correctly connected. The dye from the car wash inspection could not be found in either the storm or sanitary sewer lines.

**2024 Results**

In 2024 additional dye testing was performed at the car wash, as the previous dye testing results there had been inconclusive. These results found that the car wash was correctly connected. However, during this inspection, suspicious staining and animal feces were observed in the manhole southwest of the car wash. The City assisted with televising that manhole and it was concluded that once viewed more carefully, the staining appeared to be natural discoloration.

A more complete map of the storm drain in this area was made available, leading to additional sampling (Figure 1). These sample results showed elevated *E. coli* with low human DNA, indicating that the source of *E. coli* is likely from animals.

**Table 1. Sampling Results (*E. coli* in MPN/100 mL and Human *Bacteroides* in gene copies/100 ml)**

		L1619	29050 Dardanella	Seven Mile WC MS4 East	Chicken Shack Manhole	MH SE of car wash in grassy area	MH SW of car wash next to tree	MH near 7 Mile SE of car wash	MH in front of hydroponics store	MH in U Haul lot
<i>E. coli</i>	7/16/2018	15,531								
<i>E. coli</i>	12/9/2020	630	<100							
<i>E. coli</i>	12/16/2020			61	2,000					
<i>E. coli</i>	11/10/2021	3,076			1,616					
Human DNA	11/10/2021	95			1,541,053					
<i>E. coli</i>	7/18/2023				96	97	160	31		
<i>E. coli</i>	8/10/2023				6,867	9,208		31		
Human DNA	8/10/2023				736	816				
<i>E. coli</i>	9/19/2024					9,804	15,531		9,208	11,199
Human DNA	9/19/2024					below detection limit 200				below detection limit 200
<i>E. coli</i>	10/17/2024					11,199				5,172
Human DNA	10/17/2024					286				below detection limit 200

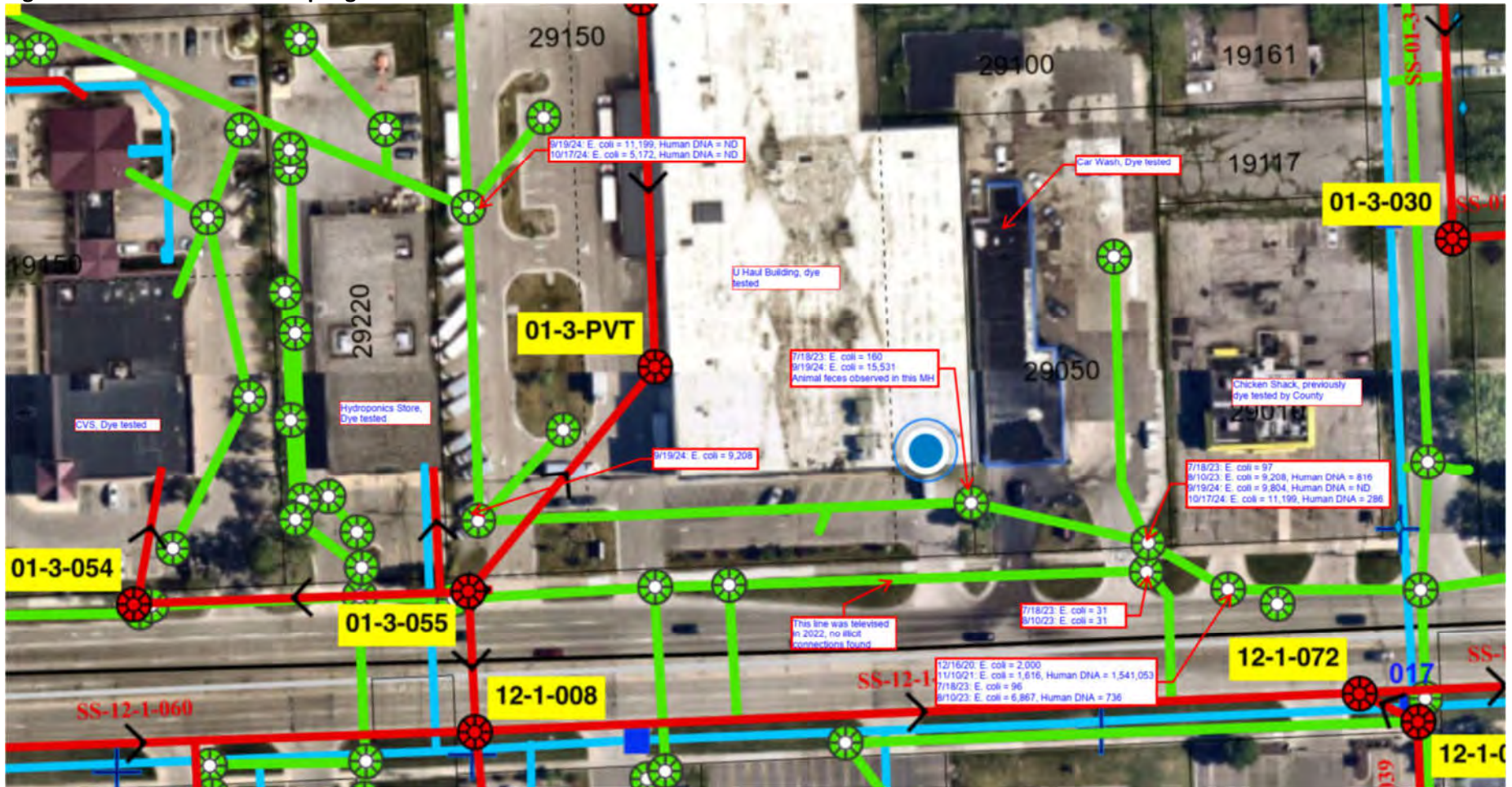
**Conclusions and Recommendations**

One additional set of samples is recommended in order to confirm that the *E. coli* source is likely from animals and this investigation can be closed.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City’s MS4 permit and as a result of your ARC membership. If you have any questions, you can reach me at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

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Figure 1. Storm Drain and Sampling Location





*John O'Meara, P.E.  
Executive Director*

Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

**TO: Rebecca Runkel**  
**FROM: Emily Levine, ARC Staff**  
**DATE: February 25, 2025**  
**SUBJECT: IDEP Investigation Results: Outfall NO20**

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ARC staff conducted an illicit discharge investigation on storm drain outfall NO20 in response to findings from the ARC's 2022 outfall screening conducted in accordance with the ARC's Collaborative TMDL Plan. Our investigations suggested that the adjacent school was the source of the elevated *E. coli*. The City of Novi followed up with the School District and the District's environmental consultant, Arch Environmental Group.

Arch Environmental Group was able to dye test the school and provided their report afterwards. They found that the school is correctly connected to the sanitary system and no illicit discharges were identified. They concluded that the source of *E. coli* was related to animal habitation, as well as stagnant pooling water where bacteria might develop before entering the storm system.

### **Background**

Outfall NO20 was investigated due to high *E. coli* concentration (11,119 MPN/100 ml) found during an outfall screening conducted in 2022. There was no observed color, odor, turbidity, or other unusual characteristics noted during the initial screening.

The outfall drains Willowbrook Drive and its adjoining roads. The receiving water is a tributary of the Middle Branch of the Rouge (See Figure 1). ARC staff reinspected outfall NO20 throughout 2023 and found varying *E. coli* results (Table 1). Due to the timing of the school year in correlation with these results, it was determined that the nearby school should be dye tested

### Cooperating Partners:

*Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority*

**Table 1. Sampling Results**

Structure		NO20	NO20-3	NO20-4 Oak	NO20-4 Willow
Location		Outfall on south side of the creek, west of Willowbrook Dr.	Manhole at the northeast corner of Willowbrook and Oak Tree Road	Manhole next to driveway of 40440 Oak Tree Road	Manhole in the sidewalk on east side of Willowbrook Dr, south of Oak Tree Road
9/1/2022	<i>E. coli</i>	11,199			
5/22/23	<i>E. coli</i>	882			
	<i>Human Bacteroides</i>	9,284			
7/20/23	<i>E. coli</i>	31	218	158	109
8/10/23	<i>E. coli</i>	98	41	20	
8/29/23	<i>E. coli</i>	10	31	10	30
9/11/23	<i>E. coli</i>	583	537	10	512
	<i>Human Bacteroides</i>	240	240		667

**Conclusions and Recommendations**

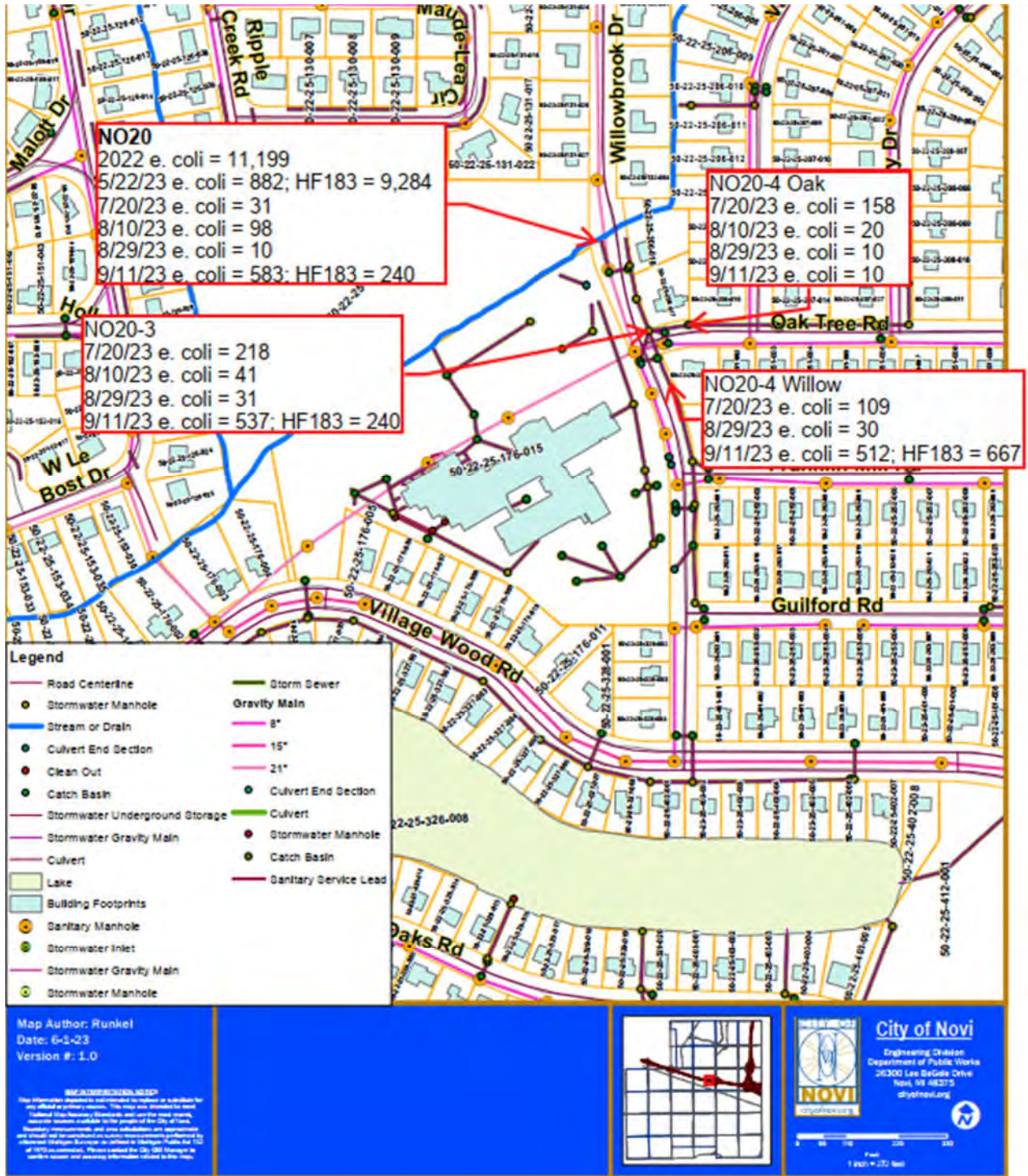
Dye testing completed by the School District’s consultant in 2024 indicate that no illicit connections were found at the school. This information, in addition to the many sample events with low *E. coli* and low *Human Bacteroides* levels allow for the conclusion that no illicit connections are present in this drainage area and this investigation can be closed.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City’s MS4 permit and as a result of your ARC membership. If you have any questions, I can be reached at 313-963-6600 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

Attachment: Figure 1. Storm Drain and Sampling Location

R:\Alliance of Rouge Communities\2025 Alliance of Rouge Communities\Tech Committee\Facilitation\1st mtg prep\NO20 IDEP Summary 2024 nm.docx

Figure 1. Storm Drain and Sampling Locations



John O'Meara, P.E.  
Executive Director



Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

**TO:** Cory Borton, City of Birmingham  
**FROM:** Emily Levine, Technical Committee Coordinator  
**DATE:** February 25, 2025  
**SUBJECT:** IDEP Investigation Results: Outfall BH32 (Willits Street)

---

ARC staff have reopened an illicit discharge investigation on storm sewer outfall BH32. This investigation was initially conducted in response to findings from the ARC's 2018 outfall screening. In 2019, the ARC determined that there was no illicit discharge at this site. However, during an audit in 2024, EGLE requested that this site be resampled for human DNA. Human DNA sample results have indicated that further investigation is warranted at this site.

### Background

The outfall drains a portion of Willits Street via a separate storm sewer which is located west of Old Woodward and north of Maple Rd. The receiving water is the Main Branch of the Rouge River.

Outfall BH32 was investigated due to the high *E. coli* concentrations found during the outfall survey conducted in 2018. At that time, the *E. coli* concentration was 12,997 MPN/100 ml which can be indicative of an illicit discharge containing sanitary sewage. The evidence from the 2019 investigation indicated that sanitary sewage discharge was not impacting the storm drain. Rather, the elevated *E. coli* was likely from animal sources. Therefore, no further investigations were conducted at that time.

### 2024 Results

ARC staff reinspected the outfall and the tributary storm sewer one-time 2024. *E. coli* results were 1,112 MPN/100mL and human DNA results were 2,128 GC/100mL. Bubbles were observed at the outfall, but no odor or other signs of illicit discharges were observed. The City of Birmingham collected additional samples at the manholes upstream of this outfall and a manhole with elevated *E. coli* was identified.

### Conclusions and Recommendations

Additional sampling with the possibility of dye testing and/or televising is recommended along Willits Street to further attempt to identify a source of human DNA to this outfall.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City's MS4 permit and as a result of your ARC membership. If you have any questions, I can be reached at 313-963-6600 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

### Cooperating Partners:

Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority

**Attachment B**  
**2024 Outfall Dry Weather Screening**  
**Summary Table**



**Attachment C**  
**2024 Investigative Sampling**  
**Summary Report**

## ARC Investigational Sampling 2024

### Background

In the fall of 2023, the Alliance of Rouge Communities (ARC) received funding from the Erb Family Foundation to perform investigational *E.coli* sampling to identify where sanitary sewage is entering the Rouge River and provide training to municipal staff on how to comply with their stormwater permit. The grant project goals include:

- Increase understanding of water quality in Wayne County's portion of the Rouge River.
- Identify storm drains that are discharging sanitary sewage from unknown sources.
- Identify the next steps needed to investigate the sources of illicit discharges.
- Increase municipal staff and leadership's understanding of the requirements of the municipal stormwater permit.
- Provide networking opportunities and collaborate with Southeast Michigan Council of Governments (SEMCOG) to bring the training to the rest of southeast Michigan.

The investigational sampling component of the Erb grant is consistent with the regional investigational sampling work plan developed by the GLWA Watershed Hub. The investigational sampling performed by ARC staff in 2024 was performed in the Middle, Upper, and Main branches of the Rouge River, within the Rouge Valley Sewage Disposal System (RVSDS) service area. This sampling compliments and builds upon the sampling that was performed by Wayne County Department of Public Services (WCDPS) - Environmental Services Division (WCDPS-ESD) in the Lower branch of the Rouge River in support of the Lower Rouge Water Trail effort and within the RVSDS service area. WCDPS-ESD initiated the Lower Rouge Water Trail water quality monitoring effort in 2019, which continued in the 2024 season. The data collected is included in the results and next steps.

### Results

The ARC prepared a sampling plan, secured lab services, recorded rainfall data and collected instream grab samples at 37 sites. Sampling was performed weekly for 20 consecutive weeks within the Middle, Upper, and Main branches of the Rouge River. The WCDPS collected instream grab samples at 7 sites within the Lower Branch. Sampling was performed for 17 weeks. The sampling began in May and was completed in mid-September. A total of 859 individual *E.coli* samples were taken regardless of weather conditions. Table 1 presents the individual site and sampling event results. Red cells indicate samples above 1,000 Most Probable Number (MPN)/100ml. The Lower Rouge sample results are reported in Colony Forming Units (CFU)/100mL *E. coli*, which is a different analytical method and the results are similar. For the results discussed, the results are discussed in MPN/100mL.

Obviously and not surprisingly the Rouge River has an *E. coli* challenge with all sites having at least one sample exceeding 1,000 MPN/100ml. Working collaboratively with WCDPS-ESD, geometric means were calculated from sampling data from each of the 44 sites and partitioned based on dry and wet-weather conditions. Dry-weather samples were defined as samples taken when there was  $\leq 0.05$  inches of rainfall over the previous 48 hours. Wet-weather samples were defined as samples taken when there was  $\geq 0.25$  inches of rainfall over 24 hours and preceded by a 48-hour dry period. Samples that did not meet these criteria were defined as "inter-weather" samples, where there was  $\geq 0.05$  inches of rainfall within 48 hours and  $\leq 0.25$  inches within 24 hours. Table 2 presents the geometric mean results partitioned by weather type. Red cells indicate geometric means above 1,000 MPN/100ml.

**Table 1**

		Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	GeoMean	Min.	Max.
Middle Rouge	MD17	228	120	132	199	52	63	213	181	171	4611	85	1017	96	631	41	84	820	73	10	158	N/A	160	10	4611	
	MD19	10462	211	110	1187	537	132	52	1664	530	8164	1918	24196	5172	4352	285	226	3448	86	75	30	N/A	671	30	24196	
	MD16	1145	146	538	474	677	583	703	1119	350	7701	345	4352	882	1785	158	644	7270	246	262	201	N/A	700	146	7701	
	MD18	3255	384	1439	771	1187	933	1333	3076	602	9208	880	8164	420	1725	573	565	15531	546	683	487	N/A	1291	384	15531	
	MD15	2064	259	1169	1354	906	479	1050	3076	504	14136	645	4106	785	2142	259	226	6131	464	279	529	N/A	996	226	14136	
	MD14	1274	228	292	985	591	410	241	1455	4106	8664	1076	11199	3873	4352	233	379	12997	556	1664	187	N/A	1123	187	12997	
	D03	1014	275	644	563	331	733	683	1421	404	17329	399	691	857	7701	171	609		295	624	228	N/A	706	171	17329	
	MD09	738	97	86	414	121	213	160	2247	275	5475	1565	691	683	6488	189	158	12997	173	134	122	N/A	461	86	12997	
	US10	1046	292	364	504	197	134	313	1968	213	6131	1145	631	1126	4884	109	990	5172	185	173	158	N/A	571	109	6131	
	MD04	146	241	448	4611	405	327	1376	3873	1467	1414	12997	4106	12033	19863	723	404	2755	933	231	1124	N/A	1322	146	19863	
	MD07	216	52	110	63	98	110	272	233	309	2851	496	504	243	644	243	1126	771	52	145	173	N/A	243	52	2851	
	MD03	336	187	185	4884	768	341	2247	6131	521	708	19863	5475	15531	24196	512	988	9208	860	175	1414	N/A	1494	175	24196	
	Merriman Rd	331	175	556	1785	373	369	1467	1664	355	987	8664	2282	9208	5172	399	441	5475	341	305	355	N/A	928	175	9208	
US2	275	86	3076	3448	132	262	1860	1872	457	187	11199	2143	14136	9208	275	441	12033	331	309	341	N/A	956	86	14136		
Warrendale Md	262	389	9804	3654	359	488	2382	3654	422	432	8164	4611	11199	4611	369	426	6131	243	199	292	N/A	1179	199	11199		
D06	228	389	12997	2909	345	417	1274	5794	512	369	15531	2359	17329	4106	331	305	3076	199	246	181	N/A	1082	181	17329		
Upper Rouge	Bell	Newburgh UP 2	5794	189	573	988	4106	546	2064	11199	1333	24196	3654	14136	4352	5172	1935	175	24196	1670	368	833	N/A	2164	175	24196
		8 Mile UP 1	1860	213	295	573	813	712	767	1169	537	12997	2014	5475	663	2481	1210	98	14136	301	727	305	N/A	965	98	14136
		6 Mile UP	1467	583	2282	933	1483	712	1396	1414	404	15531	697	1664	663	985	1467	473	3654	767	432	379	N/A	1091	379	15531
		UP05	842	327	909	520	1017	2489	1187	15531	520	24196	3255	4611	1785	9804	327	496	24196	960	504	1017	N/A	1696	327	24196
		UP15	1259	546	4106	1354	842	1723	2382	2489	1106	17329	1334	6867	1376	1624	1223	932	17329	1565	1904	2723	N/A	2069	546	17329
		Newburgh UP 1	816	374	6867	1597	2481	1187	3076	1782	1145	24196	1022	988	1354	2187	1354	7270	9804	471	1223	880	N/A	1849	374	24196
	Farabus	Levan UP	496	282	1664	292	8164	749	1396	586	529	24196	677	2014	906	754	749	327	2613	487	959	789	N/A	998	282	24196
		UP04	1850	546	1137	1723	2359	1450	2143	5475	1918	24196	1935	1396	1281	1989	1850	2723	8164	1198	4611	820	N/A	2156	546	24196
		8 Mile UP 2	3255	2987	860	1236	2014	1187	1439	2909	1497	15531	1956	10462	410	2382	1043	738	11199	697	565	471	N/A	1755	410	15531
		G19	677	1726	1664	2481	318	695	3873	9208	359	2187	17329	602	2247	12997	399	1046	11199	6867	15531	14136	N/A	2457	318	17329
		U17	288	1334	816	6488	581	1450	3609	15531	1467	7701	19863	1153	6131	9804	1039	1017	24196	624	683	1723	N/A	2357	288	24196
		U03	432	408	798	5172	959	749	5475	19863	1187	2613	24196	2382	9804	12033	906	1250	24196	990	933	1414	N/A	2408	408	24196
		U04	884	609	6488	8664	1291	987	5475	17329	1234	1259	24196	4611	8664	6867	81	1291	24196	1223	1553	9804	N/A	2901	81	24196
Upper	G71	565	389	880	4884	1274	884	3255	15531	691	1789	19863	1081	24196	12033	845	1314	24196	152	988	836	N/A	2029	152	24196	
	U02	384	10	3654	6488	1106	1071	5794	17329	1050	1414	12997	1421	12033	4884	813	697	24196	884	754	404	N/A	1740	10	24196	
	U05	631	455	3255	7270	908	860	3873	17329	1223	1333	24196	2489	11199	8664	1664	650	24196	882	657	1333	N/A	2465	455	24196	
Main Rouge	M15	275	2098	3654	6488	384	583	2187	24196	798	933	24196	1658	7270	12033	703	1162	19863	573	563	573	N/A	2019	275	24196	
	G43	250	450	7270	4611	410	594	2481	5172	759	638	15531	717	6131	15531	627	960	24196	512	557	801	N/A	1641	250	24196	
	US7	420	388	9804	3255	473	631	4106	12997	1050	743	24196	1658	15531	6131	717	882	24196	620	435	285	N/A	1876	285	24196	
	Rouge Park Dr	7701	1723	24196	24196	1421	3448	9208	24196	3255	1553	24196	24196	1187	24196	2014						N/A	6468	1187	24196	
	G42	379	233	5172	14136	428	676	3654	19863	717	364	24196	3873	6867	19863	684	393	985	487	368	386	N/A	1570	233	24196	
Lower Rouge	LR-01	N/A	120	230	770	530	510	1400	540	430	420	550	4400	64	300	N/A	N/A	N/A	290	340	370	540	435	64	4400	
	LR-02	N/A	400	320	840	1200	700	2000	750	470	780	860	4600	98	510	N/A	N/A	N/A	370	520	510	700	651	98	4600	
	LR-03	N/A	450	420	840	880	2100	2900	1000	810	660	1100	5500	200	610	N/A	N/A	N/A	550	610	790	3100	927	200	5500	
	LR-04	N/A	2400	3700	2400	1400	2400	6100	5200	1500	1700	930	7300	180	1400	N/A	N/A	N/A	700	540	540	3400	1682	180	7300	
	LR-05	N/A	520	1500	1600	960	930	8200	5200	500	1400	1200	4400	160	1200	N/A	N/A	N/A	520	450	590	2400	1153	160	8200	
	LR-06	N/A	420	700	2900	1100	910	2000	910	930	740	1100	1800	170	1000	N/A	N/A	N/A	350	570	510	4900	904	170	4900	
	Beech Daly	N/A	540	810	3900	960	1100	3300	1000	820	1000	810	1500	140	1300	N/A	N/A	N/A	510	700	590	3300	983	140	3900	

Criteria: > 1,000 MPN/100ml

N/A: No Sample

In heavily impacted, urbanized areas like the RVSDS area of the Rouge River the potential sources of *E.coli* are numerous, diverse and sample results can be highly variable, particularly between weather events. Gathering a larger dataset and calculating the geometric mean for each site, partitioned by weather type is intended to aid in prioritizing limited resources to identify and eliminate sources of human sewage. Top priority is to find and eliminate the sources impacting when the water resource will be used most by humans, specifically during dry weather.

Good news: all sites sampled and analyzed in the Middle Rouge had geomeans below the 1,000 MPN/100ml threshold in both dry and inter weather conditions (at least in 2024) and two of the 16 sites even had geomeans below the threshold during wet weather (see Table 2).

Within the Upper, six of 16 sites during dry and nine of 16 sites during inter-weather had geomeans below the threshold. All sites, not surprisingly, had geomeans above the threshold during wet weather.

Within the Main four of the five sites and three of the five sites had geomeans below the threshold and all sites were above the threshold.

The Lower had six of the seven sites below the threshold during dry weather and three of the seven during inter-weather below the threshold and surprisingly one of the seven below the threshold during wet weather.

**Table 2**

		Geometric Means				
		Dry Weather	Inter Weather	Wet Weather	All Weather	
Middle Rouge	MD17	62	134	450	160	
	MD19	162	281	4303	671	
	MD16	341	470	1758	700	
	MD18	667	746	3289	1291	
	MD15	415	707	2840	996	
	MD14	593	499	3192	1123	
	D03	379	567	1624	706	
	MD09	167	174	2074	461	
	US10	205	440	1812	571	
	MD04	787	312	3624	1322	
	MD07	182	139	428	243	
	MD03	767	430	4694	1494	
	Merriman Rd	538	278	2482	928	
	US2	393	195	4332	956	
	Warrendale Md	452	407	5097	1179	
D06	442	344	4414	1082		
Upper Rouge	Bell	Newburgh UP 2	921	993	7501	2164
		8 Mile UP 1	472	423	2983	965
		6 Mile UP	663	1053	1829	1091
		UP05	755	891	5260	1696
		U15	1401	1646	3425	2069
		Newburgh UP 1	1423	1808	2430	1849
		Levan UP	857	878	1238	998
		UP04	1870	1143	3416	2156
	Tarabusi	8 Mile UP 2	919	1110	4213	1755
		G19	2036	1344	3612	2457
		U17	1452	1165	5154	2357
		U03	1393	714	6465	2408
		U04	1515	887	8783	2901
	Upper	G71	1052	715	5989	2029
		U02	1067	83	6843	1740
U05		1380	544	7429	2465	
Main Rouge	M15	824	1561	6603	2019	
	G43	762	657	5388	1641	
	US7	816	585	7107	1876	
	Rouge Park Dr	3689	1723	13701	6468	
	G42	710	303	6385	1570	
Lower Rouge	LR-01	442	319	877	435	
	LR-02	700	425	1311	651	
	LR-03	911	738	1786	927	
	LR-04	1456	1951	2382	1682	
	LR-05	866	1368	3137	1153	
	LR-06	745	1090	1483	904	
	Beech Daly	848	1079	1635	983	

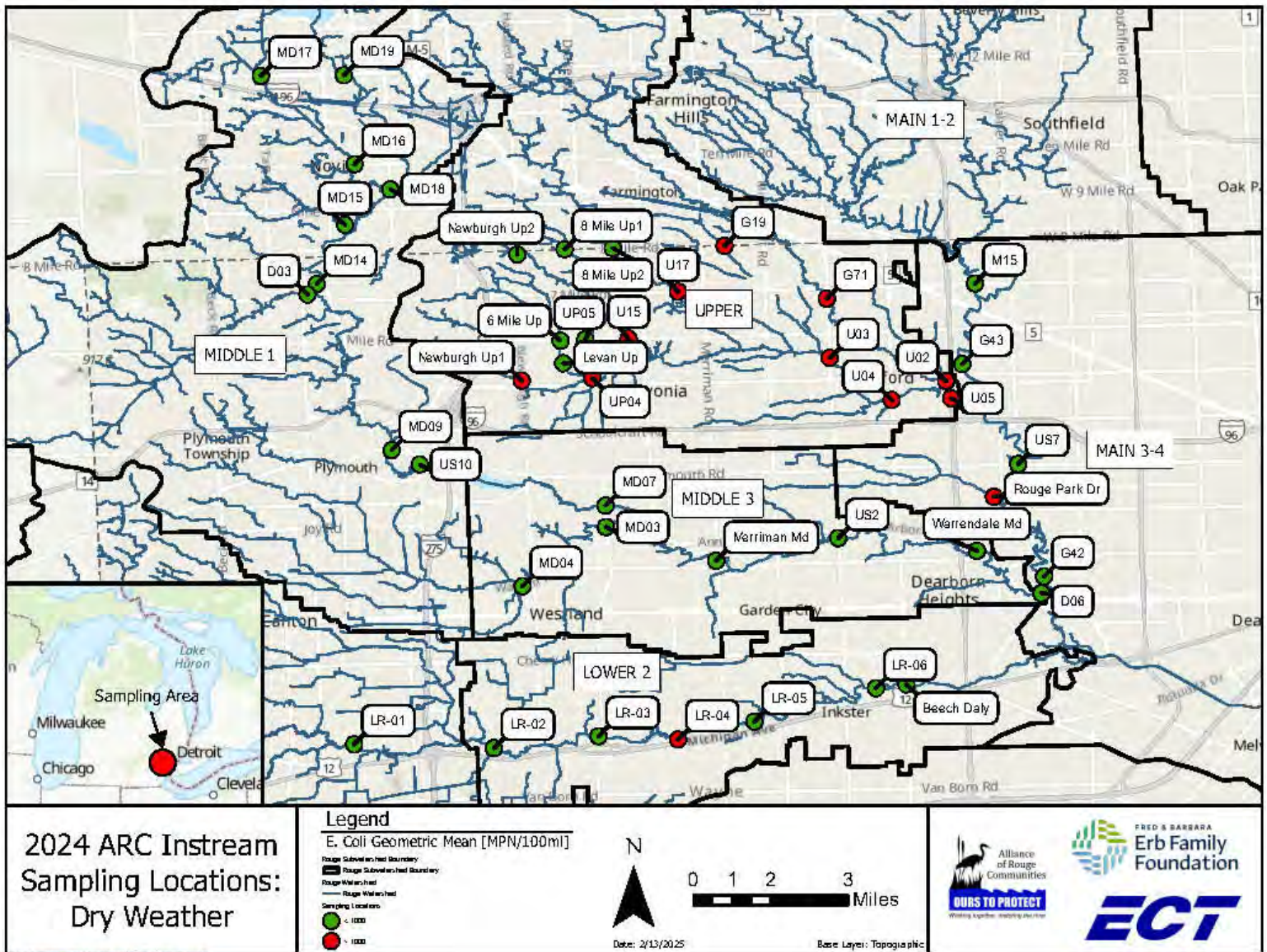
Criteria: > 1,000 MPN/100ml

Dry Weather conditions =  $\leq 0.05$ " of rainfall over the previous 48 hours  
 Wet Weather conditions =  $\geq 0.25$ " of rainfall over the previous 24 hours  
 Inter Weather conditions =  $\geq 0.05$ " within previous 48 hrs and  $\leq 0.25$ " within previous 24 hrs

## Next Steps

In addition to increasing the understanding of water quality in Wayne County's RVSDS area, this analysis will be used to guide stormwater outfall dry weather screening. Screening of outfalls with the capacity to analyze for the human biomarker (HF183) began in the fall of 2024 and will be a major effort through 2025. Given the wide spread nature of *E.coli* results, outfall screening will occur throughout the RVSDS area but will be focused in the areas upstream of the sites exceeding the threshold during dry weather (see Figure 1). During 2025, WDPS ESD plans to continue its water Lower Rouge water quality monitoring effort in support of the Lower Rouge Water Trail development. The data is also utilized to identify potential illicit discharge and investigative "hot spots" that may arise during the monitoring season.

**Figure 1: Sampling locations in the Middle, Upper, Main & Lower Rouge sites indication geomeans above 1,000 MPN/100ml**



**Appendix B4**

**2025 ARC IDEP Investigation Report**



John O'Meara, P.E  
Executive Director

- Auburn Hills
- Beverly Hills
- Bingham Farms
- Birmingham
- Bloomfield Hills
- Bloomfield Twp.
- Canton Twp.
- Commerce Twp.
- Dearborn Heights
- Farmington
- Farmington Hills
- Franklin
- Garden City
- Henry Ford College
- Inkster
- Lathrup Village
- Livonia
- Melvindale
- Northville
- Northville Twp.
- Novi
- Oak Park
- Oakland County
- Orchard Lake
- Plymouth
- Plymouth Twp.
- Redford Twp.
- Rochester Hills
- Romulus
- Schoolcraft College
- Southfield
- Troy
- University of Michigan-Dearborn
- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

- Cooperating Partners:
- Cranbrook Institute of Science
  - Friends of the Rouge
  - Great Lakes Water Authority
  - Rouge River Advisory Council
  - SEMCOG
  - Southeastern Oakland County Water Authority

**TO:** Tyler Sonoga, ARC Technical Committee Chair

**FROM:** Emily Levine, Technical Committee Coordinator

**DATE:** March 12, 2026

**SUBJECT:** 2025 IDEP Investigation Summary

In 2025, ARC staff continued to work on illicit discharge investigations, began the process of screening all outfalls owned by ARC communities, and followed up on findings from outfall screenings. These projects were in accordance with the Rouge River Collaborative Illicit Discharge Elimination Plan and the 2025 ARC Technical Committee budget.

**TC1: Illicit Discharge Investigations**

Illicit discharge investigations were initiated and have been on-going since the outfall screening efforts conducted in 2018 and 2019, as well as sampling done in compliance with the collaborative TMDL plan in 2022. In addition, outfalls identified during outfall screening in 2025 with *E. coli* above 1,000 MPN/100mL were flagged for additional investigations and some investigations were initiated for these sites. The results of the investigations are summarized in Table 1. More detail on each can be found in the investigation reports which were sent to the communities (Attachment A).

**Table 1. Status and Results of Illicit Discharge Investigations**

Permittee	Outfall ID	Status	Result
Birmingham	BH32	Closed	No human source found. Animal source suspected.
Farmington	AK	Open	Plan to resample
Farmington	AM	Open	Plan to resample
Farmington	P	Open	Plan to resample
Farmington	R	Open	Investigation underway
Livonia	U2008221	Closed	Surfactant source addressed
Livonia	L1619	Closed	No human source found. Animal source suspected.
Livonia	4402	Open	Plan to resample
Livonia	4551	Open	Plan to resample
Livonia	28-35	Open	Plan to resample
Livonia	37-47	Open	Plan to resample
Livonia	U2008170	Open	Investigation underway
Livonia	U2008209	Open	Plan to resample
Northville	NV01	Open	Plan to resample
Northville	NV45	Open	Plan to resample
Plymouth	PY11	Open	Plan to resample

Permittee	Outfall ID	Status	Result
Plymouth	PY18	Open	Plan to resample
Plymouth	PY23	Open	Plan to resample
Plymouth	PY4	Open	City is investigating
Plymouth	PY5	Open	City is investigating
Plymouth	PY8	Open	City is investigating
Southfield	SF13	Open	Plan to resample
Wayne	14	Open	Plan to resample
Wayne	26	Open	Plan to resample
Wayne	36	Correction in process	Illicit connection identified, will resample once correction has been completed.
Wayne	37	Open	Plan to resample
Wayne	41	Open	Plan to resample
Wayne	47	Open	Investigation underway
Wayne	51	Closed	SSO identified and fixed
Wayne	65	Open	Investigation underway
Westland	SWCUL-00018	Open	Plan to resample
Westland	SWOF-00056	Open	Plan to resample
Westland	SWOF-00103	Open	Plan to resample
Westland	SWOF-00140	Open	Plan to resample
Westland	SWOF-00225	Open	Plan to resample
Westland	SWOF-00360	Open	Plan to resample
Westland	SWOF-00391	Open	Plan to resample
Westland	SWOF-00397	Open	Plan to resample
Westland	SWOF-00405	Open	Plan to resample
Westland	SWOF-00417	Open	Plan to resample
Westland	SWOF-00503	Open	Plan to resample
Westland	SWOF-00527	Open	Plan to resample

In 2026, ARC staff will continue source investigations on the above outstanding issues as well as additional high priority outfalls identified during 2026 in accordance with the Collaborative IDEP Plan and as directed by the Technical Committee.

**TC2: Outfall Dry Weather Screening**

Outfall dry weather screening efforts have begun in compliance with the Collaborative IDEP. To support screening all ARC community outfalls, ARC staff have compiled updated outfall data provided by ARC communities and developed a screening protocol to be used to screen outfalls. This will allow for consistency and collaboration among ARC communities to achieve the goal of dry weather screening all outfalls with maximum efficiency. By using GIS to collect outfall screening data, we will be able to easily manage data and ensure that all outfalls are screened in a consistent manner. In 2024, the ARC began screening outfalls and 1,061 outfalls have been screened so far, with the majority being done in 2025 (Table 2). A summary table of the dry weather screening completed in 2024 and 2025 is provided in Attachment B.

**Table 2. Outfall screening status by community**

<b>IDEP Plan Permittee</b>	<b>No. of Outfalls</b>	<b>No. of Outfalls Screened in 2024-25</b>
Beverly Hills	54	
Bingham Farms	15	1
Birmingham	32	4
Bloomfield Hills	64	
Bloomfield Twp.		
Canton Twp.	54	15
Dearborn Heights	66	10
Farmington	29	64
Farmington Hills	135	5
Franklin	7	6
Garden City	1	1
Henry Ford College	2	1
Inkster	10	10
Lathrup Village	8	4
Livonia	753	169
Melvindale	2	
Northville	68	63
Northville Twp.		
Novi	35	24
Oak Park	1	
Plymouth	29	25
Plymouth Twp.		
Redford Twp.	1	
Southfield	72	5
Troy	113	
Walled Lake	15	13
Wayne	95	95
West Bloomfield Twp	13	
Westland	561	546
<b>Total</b>	<b>2,238</b>	<b>1,061</b>

**TC3: Collaborative TMDL**

Weather conditions were monitored and documented throughout the year to identify opportunities meeting the criteria for wet weather sampling. Wet weather sampling could only be done within the first hour of runoff coming from a rain event which was preceded by 48 hours of dry weather conditions. Due to the short laboratory hold time of 6 hours for *E. coli* and the limitations of operating laboratory hours, rain events that began between 4PM and 4AM, or during a weekend or holiday could not be sampled.

A total of 11 samples were collected from outfalls during 2 wet weather events in 2025. (Table 3) Elevated *E. coli* was identified at 7 of these sites. Human DNA was screened at 5 of them and only one of these sites was found to have elevated human DNA levels.

**Table 3. Wet Weather Screening Results 2025**

Community	Date	Site ID	E. coli	HF183
Livonia	8/6/2025	X-16	211	
Livonia	8/6/2025	X-13	98	
Livonia	8/6/2025	3745	181	
Livonia	8/6/2025	X-11	20	
Livonia	8/6/2025	X-12	>24,196	
Livonia	8/6/2025	28-35	17,329	
Farmington	10/7/2025	K	> 24,196	200
Farmington	10/7/2025	Z	> 24,196	213
Farmington	10/7/2025	AM	> 24,196	284
Farmington	10/7/2025	O	> 24,196	36,311
Livonia	10/7/2025	U2008209	> 24,196	200

**TC4: Erb Investigational Monitoring and Training**

In the fall of 2023, the ARC received funding from the Erb Family Foundation to perform investigational *E.coli* sampling to identify where sanitary sewage is entering the Rouge River and provide training to municipal staff on how to comply with their stormwater permit. Data collected in 2024 using this funding was used in 2025 to prioritize areas where outfalls should be screened. Outfalls upstream of instream sample locations from 2024 with *E. coli* geomeans above 1,000 MPN/100mL in dry weather conditions were prioritized for outfall screening. In addition, outfalls located in communities located in the Rouge Valley Sewer District were prioritized for screening in 2025.

In 2025 ARC Staff created training material and presented a training event that included classroom and site visit experience for ARC member field staff to learn how to screen outfalls. Four communities participated in the training, which took place on March 13, 2025. The goal of this training was for some of the larger ARC communities with capacity to assist in the ARC Staff's efforts to screen all outfalls in the watershed.

**Attachment A**  
**Community-specific Investigation Reports**



John O'Meara, P.E.  
Executive Director

Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

**TO:** Melissa Coatta, City Engineer - City of Birmingham  
Charles Markus, DPS Manager – City of Birmingham

**FROM:** Emily Levine, ARC Staff

**DATE:** September 9, 2025

**SUBJECT:** IDEP Investigation Results: Outfall BH32 (Willits Street)

ARC staff have reopened an illicit discharge investigation on storm sewer outfall BH32. This investigation was initially conducted in response to findings from the ARC's 2018 outfall screening. In 2019, the ARC determined that there was no illicit discharge at this site. However, during an audit in 2024, EGLE requested that this site be resampled for human DNA. Human DNA sample results have indicated that further investigation is warranted at this site.

#### Background

The outfall drains a portion of Willits Street via a separate storm sewer which is located west of Old Woodward and north of Maple Rd. The receiving water is the Main Branch of the Rouge River.

Outfall BH32 was investigated due to the high *E. coli* concentrations found during the outfall survey conducted in 2018. At that time, the *E. coli* concentration was 12,997 MPN/100 ml which can be indicative of an illicit discharge containing sanitary sewage. The evidence from the 2019 investigation indicated that sanitary sewage discharge was not impacting the storm drain. Rather, the elevated *E. coli* was likely from animal sources. Therefore, no further investigations were conducted at that time.

ARC staff reinspected the outfall and the tributary storm sewer in October 2024. *E. coli* results were 1,112 MPN/100mL and human DNA results were 2,128 GC/100mL. Bubbles were observed at the outfall, but no odor or other signs of illicit discharges were observed. The City of Birmingham collected additional samples at the manholes upstream of this outfall in December 2024 and a manhole with elevated *E. coli* was identified.

#### Results

On May 15, 2025, ARC staff resampled this outfall, as well as an upstream manhole located in front of 424 Willis. Although *E. coli* levels at the outfall were above 1,000 MPN/100mL, the human DNA levels were found to be low and *E. coli* levels at the upstream manhole were also found to be low. The City also performed sewer televising in the area in the spring of 2025 and was not able to identify any illicit connections into the storm sewer system.

#### Cooperating Partners:

Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority  
The Henry Ford

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46036 Michigan Ave., Suite 126, Canton, MI 48188 – Ph: 734-768-2180 – Email: [info@allianceofrougecommunities.com](mailto:info@allianceofrougecommunities.com)

**Table 1: ARC Staff Source Investigation Results**

Sampling Location	<i>E. coli</i>	<i>E. coli</i>	<i>E. coli</i>	<i>E. coli</i>	Human DNA	<i>E. coli</i>	Human DNA	<i>E. coli</i>	Human DNA
	6/26/18	8/6/19	12/12/19	12/19/19	12/19/19	10/17/24	10/17/24	5/15/25	5/15/25
BH32	12,997	119	1,046	52	2,360	1,112	2,128	2,613	364
424 Willis								<10	
BH32-3 - Catch basin on north side of Willits		98							
BH32-4 - Catch basin on north side of Willits		75							
BH32-6 - Pond outflow			<10						

**Table 2: Birmingham Staff Source Investigation Results**

Location	<i>E. coli</i>
	12/17/24
SL 1 (S11)	411
SL 2 (S12)	17
SL 6 (S9)	297
SL 7 (S10)	1299

**Table 3: Geomean Calculations**

	Outfall	Manholes	All Samples
<b>Geomean</b>	791	82	216

**Conclusions and Recommendations**

Although some elevated *E. coli* levels and Human DNA have been identified, geomean statistical analysis demonstrates that the *E. coli* levels are below 1,000 MPN/100ml at the outfall, within the manholes and throughout all samples taken. Sewer televising also did not identify any illicit connections or suspicious taps into the storm sewer system. Consequently, the overall results do not show consistent elevated levels that would indicate an illicit connection is present. The occasional elevated levels are suspected to be urban wildlife and not human sewage; therefore, it is recommended that this source investigation be closed.

This work was completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City’s MS4 permit and as a result of your ARC membership. If you have any questions, I can be reached at 313-963-6600 or [elvine@ectinc.com](mailto:elvine@ectinc.com).



John O'Meara, PE  
Executive Director

- Auburn Hills
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- Bloomfield Hills
- Bloomfield Twp.
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- Commerce Twp.
- Dearborn Heights
- Farmington
- Farmington Hills
- Franklin
- Garden City
- Henry Ford College
- Inkster
- Lathrup Village
- Livonia
- Melvindale
- Northville
- Northville Twp.
- Novi
- Oak Park
- Oakland County
- Orchard Lake
- Plymouth
- Plymouth Twp.
- Redford Twp.
- Rochester Hills
- Romulus
- Schoolcraft College
- Southfield
- Troy
- University of Michigan-Dearborn
- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

**TO:** Joshua Leach; City of Farmington

**FROM:** Emily Levine, ARC Staff

**DATE:** February 6, 2026

**SUBJECT:** Source Investigation Summary & Results - Outfall R

ARC staff has conducted source investigation work at outfall R in the City of Farmington. This was based on the results from an initial outfall screening which was performed in accordance with the Alliance of Rouge Communities Collaborative IDEP Plan. Initial screening found elevated *E. coli* and a source investigation was initiated by testing for human DNA levels (Table 1). Upon further investigation including upstream sampling of the system, it has been determined that additional investigation is necessary.

**Findings**

On May 15, 2025, and June 11, 2025 ARC staff revisited outfall R to resample and look for upstream manholes to investigate. Samples were collected upstream of the outfall to try to narrow down a pollutant source. See Table 1 for results and Figure 1 for a map showing the sample location. The results of this sampling indicated that the issue was most likely between the intersection of Loomis and Prospect, and 32290 Leelane. The City of Farmington televised this segment of the drain and did not find any suspicious taps or signs of pollution.

**Table 1**

Location	4/23/25 <i>E. coli</i> (MPN/100 mL)	4/23/25 Human DNA (GC/100 mL)	5/12/25 <i>E. coli</i>	5/15/25 Human DNA	6/11/25 <i>E. coli</i>	6/11/25 Human DNA
Outfall R	12,033	577,684			63	
R1			135	28,989		
R2			31		<10	
R3-E			52			
R3-W			171	223,216		
Loomis N			173	74,058	473	546,920
Loomis W					104	
Prospect and Leelane					63	1,800
Leelane W1					20	400
Leelane W3					10	<95
Leelane E1					No Flow	

Cooperating Partners:

- Cranbrook Institute of Science
- Friends of the Rouge
- Great Lakes Water Authority
- Rouge River Advisory Council
- SEMCOG
- Southeastern Oakland County Water Authority

It should be noted that both sets of follow-up sample results showed low *E. coli* levels (below 1,000 MPN/100mL). This was unexpected due to the high *E. coli* level and human DNA found in the initial outfall screening, as well as the unexpectedly high volume of flow in many of the manholes. Therefore, these samples were run for human DNA and found to have high levels of human DNA. This is thought to be caused by human DNA persisting in the water after the *E. coli* bacteria has died off.

### **Conclusions and Recommendations**

The results of this investigation indicate that additional assessment is necessary to determine the pollutant source. This may include reviewing televising footage, resampling, and televising additional sections of the drain.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City's MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

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Figure 1. Storm Drain and Sampling Locations





John O'Meara, PE  
Executive Director

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Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

**TO:** Doug Moore, City of Livonia  
**FROM:** Emily Levine, ARC Staff  
**DATE:** April 17, 2025  
**SUBJECT:** IDEP Investigation Results: Outfall L1619

---

ARC staff continued the illicit discharge investigation on storm drain outfall L1619 in response to findings from the 2018 outfall screening and subsequent investigations conducted by Wayne County. Our investigations have not identified an illicit connection and this investigation is closed.

### Background

Outfall L1619 was investigated due to the high *E. coli* concentrations found during the outfall survey conducted in 2018. At that time, the *E. coli* concentration was 15,531 MPN/100 ml which is indicative of an illicit discharge containing sanitary sewage. Wayne County conducted follow-up investigations, which narrowed down the source to being upstream of a manhole located in the grass along the north side of Seven Mile Road, near a Chicken Shack restaurant (Figure 1). *E. coli* and Human *Bacteroides* levels at this manhole have been found to be elevated (Table 1).

Televising was done on the drain along 7 Mile Road in 2022. No signs of illicit connections were identified, and additional investigation was determined to be necessary. ECT worked with Wayne County to conduct additional sampling and dye testing in 2023. Elevated *E. coli* and human DNA were found in the manhole located in the grassy area northwest of the Chicken Shack manhole (Table 1). Dye testing showed all buildings in the vicinity to be correctly connected, although dye from the car wash was not found in either the storm or sanitary drain.

### Results

In 2024 additional dye testing was done at the car wash, as the previous dye testing results there had been inconclusive. These results found that the car wash was correctly connected. However, during this inspection, suspicious staining and animal feces were observed in the manhole southwest of the car wash. The City assisted with televising that manhole and it was concluded that once viewed more carefully, the staining appeared to be natural discoloration.

A more complete map of the storm drain in this area was made available, leading to additional sampling (Figure 1). These sample results showed elevated *E. coli* with low human DNA, indicating that the source of *E. coli* is likely from animals.

### Cooperating Partners:

Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority

**Table 1. Sampling Results (*E. coli* in MPN/100 mL and Human *Bacteroides* in gene copies/100 ml)**

		L1619	29050 Dardanella	Seven Mile WC MS4 East	Chicken Shack	MH SE of car wash in grassy area	MH SW of car wash next to tree	MH near 7 Mile SE of car wash	MH in front of hydroponics store	MH in U Haul lot
<i>E. coli</i>	7/16/2018	15,531								
<i>E. coli</i>	12/9/2020	630	<100							
<i>E. coli</i>	12/16/2020			61	2,000					
<i>E. coli</i>	11/10/2021	3,076			1,616					
Human DNA	11/10/2021	95			1,541,053					
<i>E. coli</i>	7/18/2023				96	97	160	31		
<i>E. coli</i>	8/10/2023				6,867	9,208		31		
Human DNA	8/10/2023				736	816				
<i>E. coli</i>	9/19/2024					9,804	15,531		9,208	11,199
Human DNA	9/19/2024					below detection limit 200				below detection limit 200
<i>E. coli</i>	10/17/2024					11,199				5,172
Human DNA	10/17/2024					286				below detection limit 200
<i>E. coli</i>	4/9/25				52		41			

**Conclusions and Recommendations**

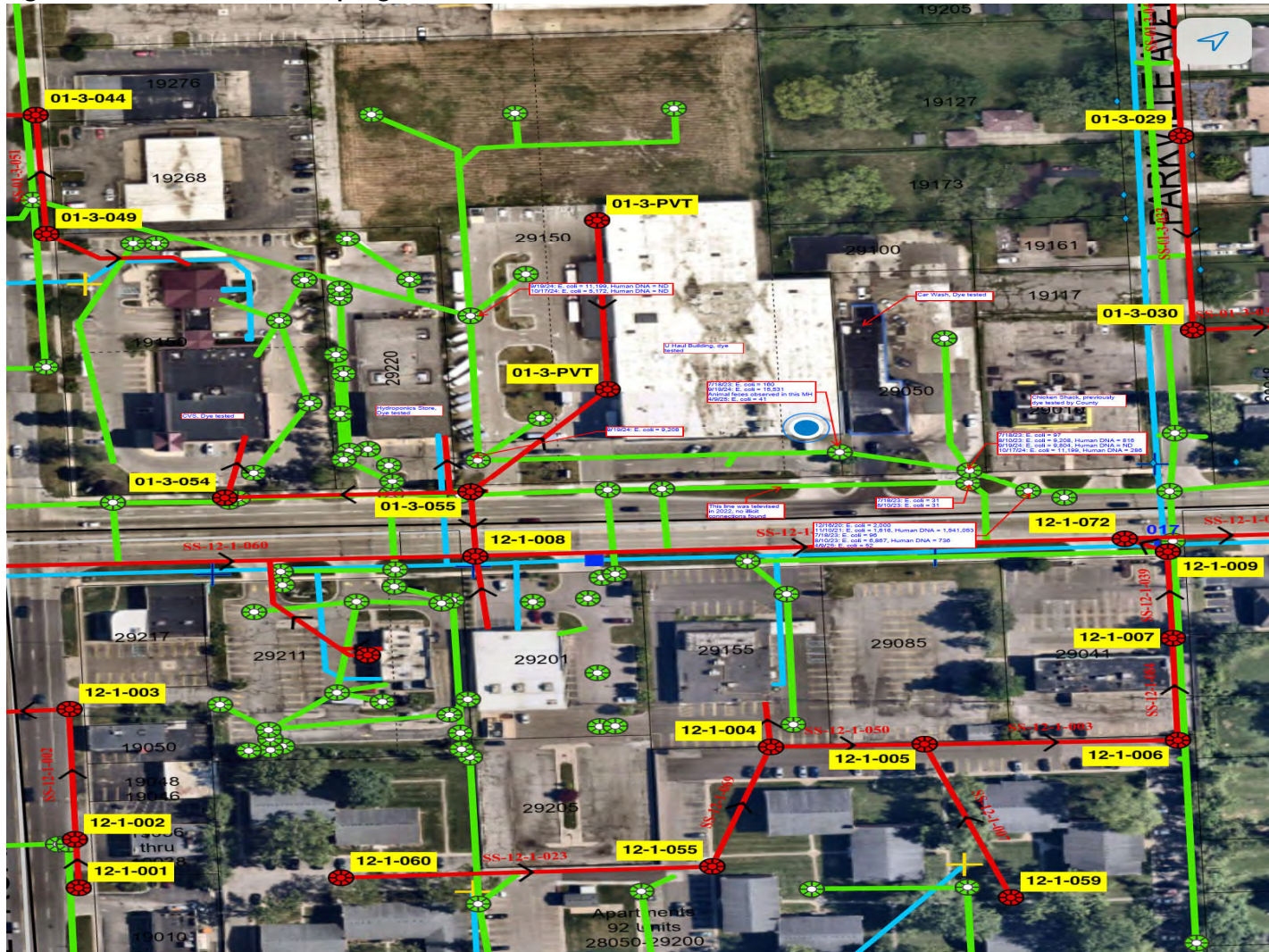
Based on these investigations, it has been determined that the elevated *E. coli* concentrations are from non-domestic animals, and it is believed that the November 10, 2021 elevated Human DNA was potentially sample contamination or a random temporary source (e.g. littered dirty diaper). Therefore, it is recommended that this investigation be closed.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City’s MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [ellevine@ectinc.com](mailto:ellevine@ectinc.com).

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Figure 1. Storm Drain and Sampling Location





John O'Meara, PE  
Executive Director

- Auburn Hills
- Beverly Hills
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- Bloomfield Twp.
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- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

**TO:** Doug Moore; City of Livonia

**FROM:** Emily Levine, ARC Staff

**DATE:** February 6, 2026

**SUBJECT:** Source Investigation Summary & Results - Outfall U2008170

ARC staff have conducted source investigation work at outfall U2008170 in the City of Livonia. This was based on the results from an initial outfall screening which was performed in accordance with the Alliance of Rouge Communities Collaborative IDEP Plan. Initial screening found elevated *E. coli* and a source investigation was initiated by testing for human DNA levels (Table 1). Upon further investigation including upstream sampling of the system, it has been determined that additional investigation is necessary.

**Findings**

On September 17, 2025, ARC staff revisited outfall U2008170 to resample and look for upstream manholes to investigate. Samples were collected at the first manhole upstream of the outfall (MH1) with inlets coming from the north and east sampled separately. See Table 1 for results and Figure 1 for a map showing the sample location. The result of this sampling indicates that further investigation of the pipe coming from the north is necessary and additional sampling and/or televising is planned.

**Table 1**

Location	6/12/25 <i>E. coli</i> (MPN/100 mL)	7/15/25 Human DNA (GC/100 mL)	9/17/25 <i>E. coli</i>	9/17/25 Human DNA
Outfall U2008170	8,164	23,958		
MH1 E			<1	
MH1 N			1,314	893

**Conclusions and Recommendations**

The result of this sampling indicates that further investigation of the pipe coming from the north is necessary and additional sampling and/or televising is planned.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City’s MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

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Cooperating Partners:

- Cranbrook Institute of Science
- Friends of the Rouge
- Great Lakes Water Authority
- Rouge River Advisory Council
- SEMCOG
- Southeastern Oakland County Water Authority

Figure 1. Storm Drain and Sampling Locations





John O'Meara, PE  
Executive Director

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- University of Michigan-Dearborn
- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

**TO:** Dave Schmidt; City of Wayne

**FROM:** Emily Levine, ARC Staff

**DATE:** November 25, 2025

**SUBJECT:** Source Investigation Summary & Results - Outfall 36

ARC staff has conducted source investigation work at outfall 36 in the City of Wayne. This was based on the results from an initial outfall screening which was performed in accordance with the Alliance of Rouge Communities Collaborative IDEP Plan. Initial screening found elevated E. coli and a source investigation was initiated by testing for human DNA levels (Table 1). Upon further investigation including facility dye testing, an illicit connection to the storm water system was identified and requires correction.

**Findings**

On September 17, 2025, ARC staff revisited outfall 36 to resample and look for upstream manholes to investigate. No upstream manholes were found in the parking lot or along Michigan Ave. Manhole 1 was found at Park Street and a sound test confirmed that this manhole connects to the outfall (Figure 1). Water in this manhole was flowing from south to north and there was a pipe coming from the east that had significant flow and suspicious looking staining. Samples were collected from this pipe, and from the outfall. The results showed elevated E. coli at both locations. Human DNA testing was run for the sample from Manhole 1 east pipe and the results were high, indicating the presence of sewage. Following that pipe to the east, the next upstream manhole (Manhole 2) contained a tap on the south side that was discharging sewage into the storm drain and a second tap on the north side that was dry.

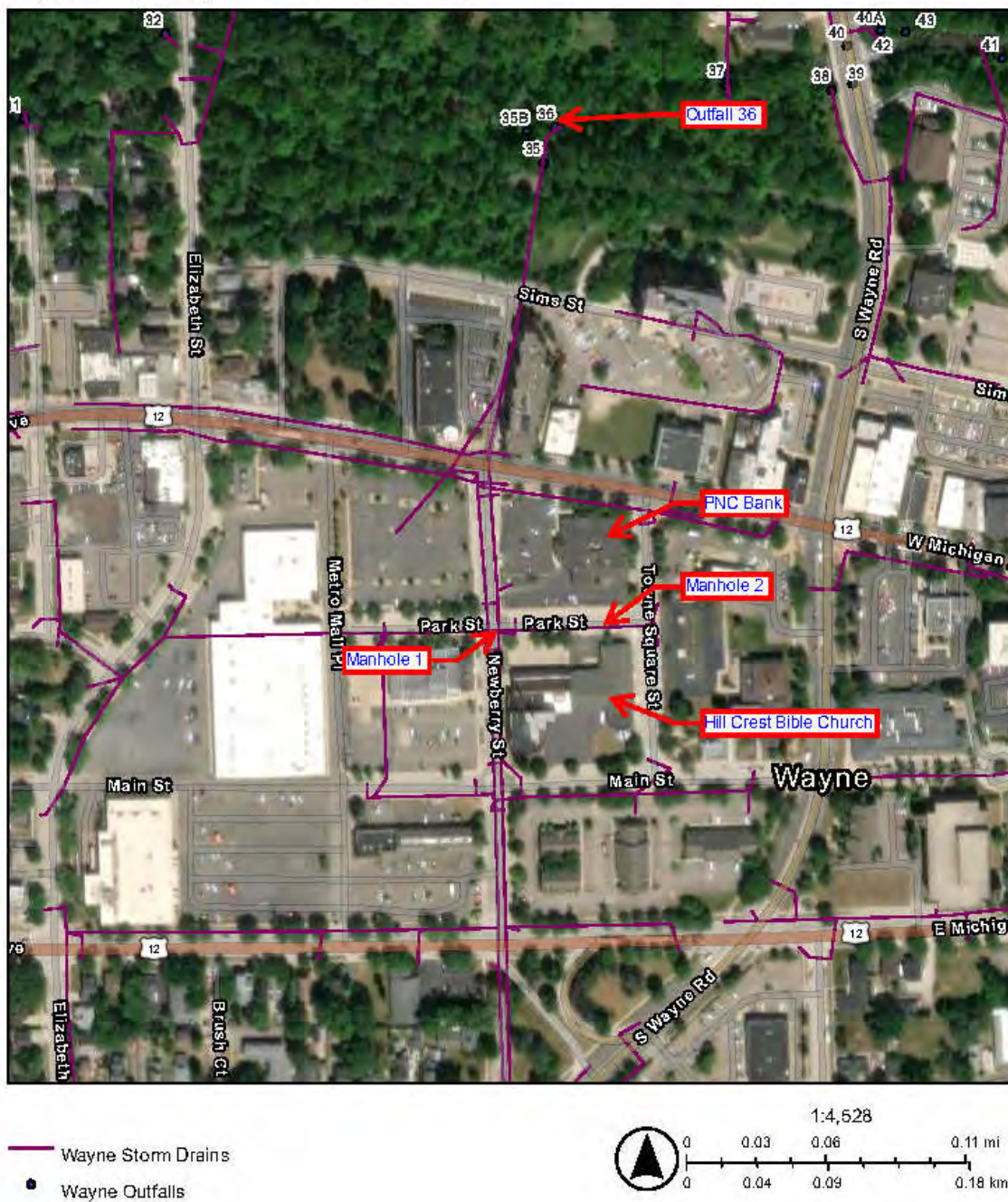
**Table 1**

Location	7/16/25 E. coli (MPN/100 mL)	7/16/25 Human DNA (GC/100 mL)	9/17/25 E. coli (MPN/100 mL)	9/17/25 Human DNA (GC/100 mL)
Outfall 36	2,282	7,556	>24,196	
Manhole 1 East Pipe			>24,196	10,578

Cooperating Partners:

- Cranbrook Institute of Science
- Friends of the Rouge
- Great Lakes Water Authority
- Rouge River Advisory Council
- SEMCOG
- Southeastern Oakland County Water Authority

Figure 1: Wayne Outfall 36 Map



Dye testing was conducted at the Hill Crest Bible Church, which is located directly south of Manhole 2. Green dye poured into the sink in the women’s bathroom on the east end of the building was seen in Manhole 2. Red dye poured into the sink in the bathroom in the west end of the building was seen in the sanitary sewer. The east end of the building was built as a more recent addition and therefore the plumbing was installed separately and incorrectly from the west/older sections of the building. Dye testing was also performed at the PNC Bank, which is located south of Manhole 2. Results indicate that the bank is correctly connected to the sanitary sewer.

### **Conclusions and Recommendations**

Based on the Alliance of Rouge Communities Collaborative IDEP Plan, this illicit connection should be corrected generally within 30 days of official notification to the property owner. If a correction is not made in 30 days, then a corrective action plan and schedule should be submitted. Until the correction can be made, the Church should be advised to use the bathroom on the west end of the building instead of the east end of the building whenever possible to prevent additional pollution from entering the storm drain. Once this correction has been made, follow-up sampling will need to be performed to confirm that the correction was successful and that no other illicit connections are contributing to outfall 36.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City's MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

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John O'Meara, PE  
Executive Director

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- Birmingham
- Bloomfield Hills
- Bloomfield Twp.
- Canton Twp.
- Commerce Twp.
- Dearborn Heights
- Farmington
- Farmington Hills
- Franklin
- Garden City
- Henry Ford College
- Inkster
- Lathrup Village
- Livonia
- Melvindale
- Northville
- Northville Twp.
- Novi
- Oak Park
- Oakland County
- Orchard Lake
- Plymouth
- Plymouth Twp.
- Redford Twp.
- Rochester Hills
- Romulus
- Schoolcraft College
- Southfield
- Troy
- University of Michigan-Dearborn
- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

**TO:** Dave Schmidt; City of Wayne

**FROM:** Emily Levine, ARC Staff

**DATE:** February 6, 2026

**SUBJECT:** Source Investigation Summary & Results - Outfall 47

ARC staff has conducted source investigation work at outfall 47 in the City of Wayne. This was based on the results from an initial outfall screening which was performed in accordance with the Alliance of Rouge Communities Collaborative IDEP Plan. Initial screening found elevated *E. coli* and a source investigation was initiated by testing for human DNA levels (Table 1). Upon further investigation including upstream sampling of the system, it has been determined that additional investigation is necessary.

**Findings**

On September 17, 2025, ARC staff revisited outfall 47 to resample and look for upstream manholes to investigate. Samples were collected at the outfall, Ash Street, and Elm Street. The manholes upstream of Elm Street were too dry to sample. Based on these results, it was determined that televising between Ash Street and the outfall was warranted. On October 23, 2025, the City of Wayne assisted with televising the drain between Ash Street and the outfall. No taps were observed in this section of the drain. See Table 1 for results and Figure 1 for the storm drain and sampling locations.

**Table 1**

Location	7/15/25 <i>E. coli</i> (MPN/100 mL)	7/15/25 Human DNA (GC/100 mL)	9/17/25 <i>E. coli</i>	9/17/25 Human DNA
Outfall 47	1,119	58,622	1,054	24,178
Ash Street			74	
Elm Street			201	

**Conclusions and Recommendations**

Due to the lack of illicit connections between Ash Street and the outfall, in addition to the lack of elevated *E. coli* found upstream of Ash Street, it appears that there is no illicit connection at this outfall location. An additional set of sample will be collected to confirm that this is the case.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City's MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

Cooperating Partners:

- Cranbrook Institute of Science
- Friends of the Rouge
- Great Lakes Water Authority
- Rouge River Advisory Council
- SEMCOG
- Southeastern Oakland County Water Authority

**Figure 1. Storm Drain and Sampling Locations**



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- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

**TO:** Dave Schmidt; City of Wayne  
**FROM:** Emily Levine, ARC Staff  
**DATE:** March 6, 2026  
**SUBJECT:** Source Investigation Summary & Results - Outfall 51

ARC staff identified a sanitary sewer overflow at outfall 51 in the City of Wayne. This was based on the results from an initial outfall screening which was performed in accordance with the Alliance of Rouge Communities Collaborative IDEP Plan. Initial screening on July 15, 2025, found strong evidence of a sanitary sewer overflow, including strong sanitary odor, sanitary debris, gray colored discharge, and elevated *E. coli* (Figure 1). This outfall is located near an interceptor on the Rouge Valley Sanitary Sewer System. The Wayne County Department of Public Services Rouge Valley Sewer Team was immediately notified. They were able to identify that a regulator opening was partially clogged with grease, and they removed the blockage that was causing the overflow. A follow-up visit to the outfall on October 23, 2025 found no flow, odor, or signs of illicit discharge, indicating that the problem was adequately addressed. It is recommended that this outfall should be screened annually to ensure that this SSO does not recur.

**Figure 1: Outfall 51**



- Cooperating Partners:
- Cranbrook Institute of Science*
  - Friends of the Rouge*
  - Great Lakes Water Authority*
  - Rouge River Advisory Council*
  - SEMCOG*
  - Southeastern Oakland County Water Authority*

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City's MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [ellevine@ectinc.com](mailto:ellevine@ectinc.com)



John O'Meara, PE  
Executive Director

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- Henry Ford College
- Inkster
- Lathrup Village
- Livonia
- Melvindale
- Northville
- Northville Twp.
- Novi
- Oak Park
- Oakland County
- Orchard Lake
- Plymouth
- Plymouth Twp.
- Redford Twp.
- Rochester Hills
- Romulus
- Schoolcraft College
- Southfield
- Troy
- University of Michigan-Dearborn
- Van Buren Twp.
- Walled Lake
- Washtenaw County
- Wayne
- Wayne County
- Wayne County Airport Authority
- West Bloomfield Twp.
- Westland
- Wixom

**TO:** Dave Schmidt; City of Wayne

**FROM:** Emily Levine, ARC Staff

**DATE:** February 6, 2026

**SUBJECT:** Source Investigation Summary & Results - Outfall 65

ARC staff has conducted source investigation work at outfall 65 in the City of Wayne. This was based on the results from an initial outfall screening which was performed in accordance with the Alliance of Rouge Communities Collaborative IDEP Plan. Initial screening found elevated *E. coli* and a source investigation was initiated by testing for human DNA levels (Table 1). Upon further investigation including upstream sampling of the system, it has been determined that additional investigation is necessary.

**Findings**

On September 17, 2025, ARC staff revisited outfall 65 to resample and look for upstream manholes to investigate. The neighborhood upstream of the outfall had many ditches with beehive manholes connecting them. They were all dry. The field crew was unable to open the manhole at Todd Ave, but were able to collect samples from the manhole in the median of Michigan Ave. A sample from a drain coming from the east side and a sample from the main line coming from the south were sampled at Michigan Ave. On October 23, 2025, the field crew was able to sample the manhole at Todd Ave with assistance from the city. They also resampled the outfall and the main line at the manhole at Michigan Ave. No other manholes were identified that connect to the outfall. See Table 1 for results and Figure 1 for the storm drain and sampling locations.

**Table 1**

Location	6/24/25 <i>E. coli</i> (MPN/100 mL)	6/24/25 Human DNA (GC/100 mL)	9/17/25 <i>E. coli</i>	9/17/25 Human DNA	10/23/25 <i>E. coli</i>	10/23/25 Human DNA
Outfall 65	2,755	5,011			1,246	
Todd Ave					134	
Michigan Ave (E)			<1			
Michigan Ave (S)			1,236	200	1,607	200

Cooperating Partners:

- Cranbrook Institute of Science
- Friends of the Rouge
- Great Lakes Water Authority
- Rouge River Advisory Council
- SEMCOG
- Southeastern Oakland County Water Authority

### **Conclusions and Recommendations**

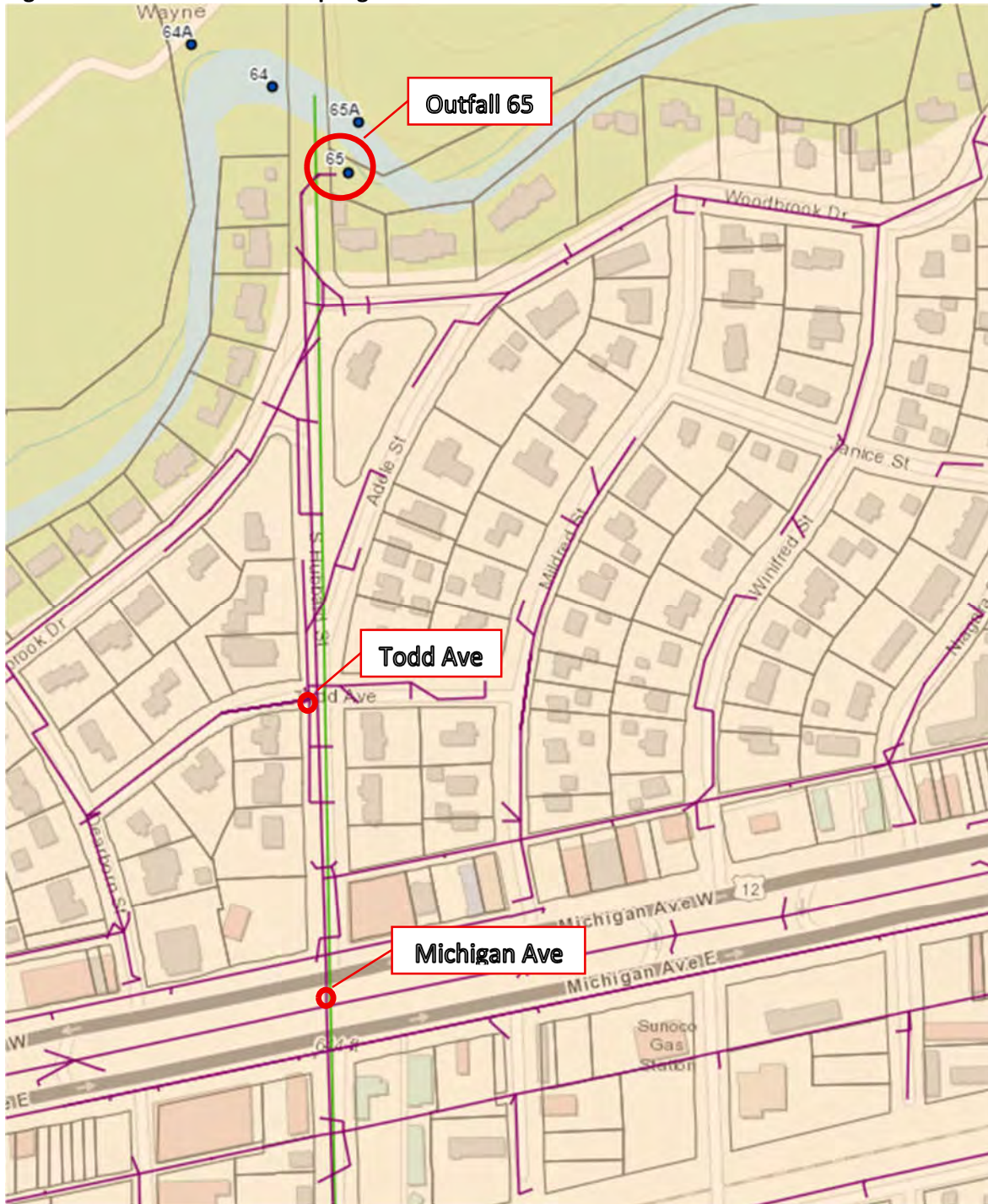
The above findings indicate that any *E. coli* coming from upstream of Michigan Ave appears to be from animals. The recommended next step is to televise between Todd Ave and the outfall to look for additional sources of flow to the outfall. Depending on the findings from televising, additional sampling, dye testing, or televising may be warranted.

This work is being completed as outlined in the Rouge River Collaborative IDEP Plan in compliance with the City's MS4 permit and as a result of your ARC membership.

If you have any questions, you can reach me at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

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Figure 1. Storm Drain and Sampling Locations



**Attachment B**  
**2024 Outfall Dry Weather Screening**  
**Summary Table**

### Outfall Summary Table - By Community

Municipality	Parameter	Outfalls Screened	E. Coli Cat. A	E. Coli Cat. B	E. Coli Cat. C	E. Coli Cat. D	HF183
Bingham Farms	Count	1	0	0	0	1	0
	Percent of Total Outfalls	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Birmingham	Count	4	0	0	1	3	1
	Percent of Total Outfalls	6.3%	0.0%	0.0%	25.0%	75.0%	25.0%
Canton	Count	15	0	0	0	15	0
	Percent of Total Outfalls	27.8%	0.0%	0.0%	0.0%	100.0%	0.0%
Dearborn Heights	Count	10	0	0	0	10	0
	Percent of Total Outfalls	100%	0%	0%	0%	100%	0%
Farmington	Count	65	1	0	3	61	1
	Percent of Total Outfalls	100.0%	1.5%	0.0%	4.6%	93.8%	1.5%
Farmington Hills	Count	5	0	0	0	5	0
	Percent of Total Outfalls	2.9%	0.0%	0.0%	0.0%	100.0%	0.0%
Franklin	Count	6	0	0	0	6	0
	Percent of Total Outfalls	85.7%	0.0%	0.0%	0.0%	100.0%	0.0%
Garden City	Count	1	0	0	0	1	0
	Percent of Total Outfalls	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Henry Ford College	Count	1	0	0	0	1	0
	Percent of Total Outfalls	33.3%	0.0%	0.0%	0.0%	100.0%	0.0%
Inkster	Count	10	0	0	0	10	0
	Percent of Total Outfalls	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Lathrup	Count	4	0	0	0	4	0
	Percent of Total Outfalls	50.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Livonia	Count	166	1	1	4	160	1
	Percent of Total Outfalls	25.4%	0.6%	0.6%	2.5%	96.3%	0.6%
Novi	Count	25	0	0	0	25	0
	Percent of Total Outfalls	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Northville	Count	62	0	1	1	60	1
	Percent of Total Outfalls	91.2%	0.0%	1.6%	1.6%	96.8%	1.6%
Plymouth	Count	25	2	0	4	19	0
	Percent of Total Outfalls	89.3%	8.0%	0.0%	16.0%	76.0%	0.0%
Southfield	Count	5	1	0	0	4	0
	Percent of Total Outfalls	6.6%	20.0%	0.0%	0.0%	80.0%	0.0%
Walled Lake	Count	13	0	0	0	13	0
	Percent of Total Outfalls	44.8%	0.0%	0.0%	0.0%	100.0%	0.0%
City of Wayne	Count	96	1	2	5	88	3
	Percent of Total Outfalls	100.0%	1.0%	2.1%	5.2%	91.7%	3.1%
Westland	Count	547	3	2	7	535	0
	Percent of Total Outfalls	90.6%	0.5%	0.4%	1.3%	97.8%	0.0%
Total	Count	1061	9	6	25	1021	7
	Percent of Total Outfalls	54.02%	0.85%	0.57%	2.36%	96.23%	0.66%

**Outfall E. Coli Results by Sub-Watershed**

<b>Sub-Watershed</b>		<b>Outfalls Screened</b>	<b>E. Coli Cat. A</b>	<b>E. Coli Cat. B</b>	<b>E. Coli Cat. C</b>	<b>E. Coli Cat. D</b>	<b>HF183</b>
<b>Upper</b>	Count	220	2	1	7	210	2
	Percent of Total Outfalls in Sub-Watershed	28.8%	0.9%	0.5%	3.2%	95.5%	0.9%
<b>Lower</b>	Count	255	1	3	5	246	3
	Percent of Total Outfalls in Sub-Watershed	79.2%	0.4%	1.2%	2.0%	96.5%	1.2%
<b>Middle</b>	Count	563	4	2	11	546	1
	Percent of Total Outfalls in Sub-Watershed	80.4%	0.7%	0.4%	2.0%	97.0%	0.2%
<b>Main</b>	Count	23	1	0	1	21	1
	Percent of Total Outfalls in Sub-Watershed	2.8%	4.3%	0.0%	4.3%	91.3%	4.3%
<b>Total</b>	Total Count	1061	8	6	24	1023	7
	Percent of Total Outfalls	45%	0.8%	0.6%	2.3%	96.4%	0.7%

### Main Rouge Sub-watershed - IDEP Outfall Data Table

Municipalities	Outfall ID	Date	Size (inches)	E. coli	HF183
Birmingham	STOF-25-0013	10/17/2024	24	1112	2613
Southfield	SF13	4/18/2025	24	24196	95
Farmington	AF	5/12/2025	24	75	
Birmingham	STOF-25-0023	10/17/2024	6	63	
Birmingham	STOF-25-0012	10/17/2024	24	61	
Dearborn Heights	OUT10SE001	6/17/2025	24	41	
Franklin	VF-2	3/25/2025		10	
Franklin	VF-4	3/25/2025	24	10	
Franklin	VF-5	3/25/2025	6	10	
Lathrup	LV-1	4/18/2025	18	10	
Lathrup	LV-5	4/18/2025	18	10	
Southfield	SF10	4/18/2025		10	
Bingham Farms	Bingham Rd #1	4/9/2025			
Birmingham	STOF-25-0024	10/17/2024	6		
Franklin	VF-3	3/25/2025	12		
Franklin	VF-6	3/25/2025	18		
Franklin	VF-7	3/25/2025			
Henry Ford College	HF1	6/17/2025	18		
Lathrup	LV-2	4/18/2025	18		
Lathrup	LV-4	4/18/2025	8		
Southfield	SF09	4/18/2025			
Southfield	SF11	4/18/2025	24		
Southfield	SF12	4/18/2025			

### Upper Rouge Sub-watershed - IDEP Outfall Data Table

Municipalities	Outfall ID	Date	Size (inches)	E. coli	HF183
Farmington	R	4/23/2025	36	12033	577684
Livonia	U2008170	6/12/2025	24	8164	23958
Farmington	P	4/29/2025	12	1529	412
Livonia	28-35	6/2/2025	36	1553	288
Livonia	M2008196	5/28/2025	36	189	202
Livonia	37-47	7/28/2025	12	2014	200
Livonia	994	5/28/2025	24	160	196
Livonia	4551	6/12/2025	36	12033	123
Livonia	U2008209	6/3/2025	12	1935	108
Farmington	AK	4/23/2025	12	4884	95
Farmington	AM	4/23/2025	12	1515	95
Livonia	4402	6/12/2025	48	1153	95
Farmington	X	4/29/2025	18	761	
Livonia	1070	6/2/2025	36	576	
Livonia	4701	6/12/2025	48	529	
Farmington	W	4/23/2025	12	520	
Livonia	13203	6/4/2024	36	337	
Livonia	U2008256	6/2/2025	24	228	
Farmington	Z	4/29/2025	12	211	
Livonia	5514	6/3/2025	36	201	
Livonia	U2008255	6/2/2025	18	193	
Livonia	13142	5/28/2025	24	189	
Livonia	48	6/2/2025	36	181	
Livonia	13105	6/2/2025	36	156	
Livonia	5047	7/23/2025	36	153	
Livonia	13205	6/4/2024	36	134	
Livonia	411	5/28/2025	48	97	
Livonia	M2008159	6/2/2025	24	84	
Farmington	AL	4/23/2025	12	75	
Livonia	U2008216	6/3/2025	36	74	
Livonia	U2008252	6/2/2025	18	63	
Farmington	AI	4/23/2025	12	41	
Livonia	U2008425	6/17/2025	12	41	
Livonia	U2008429	7/29/2025	36	41	
Farmington	L	4/30/2025	36	31	
Farmington	ZZ	4/30/2025	48	31	
Livonia	M2008201	5/28/2025	8	20	
Farmington	AA	4/25/2025	12	10	
Farmington	AH6	4/23/2025	24	10	
Farmington	AH7	4/23/2025	4	10	
Farmington	AH8	4/23/2025	18	10	
Farmington	AP	4/29/2025	24	10	
Farmington	AR	4/29/2025	12	10	
Farmington	AT	4/25/2025	12	10	
Farmington	AU	4/25/2025	18	10	
Farmington	AX	4/25/2025	12	10	
Farmington	BA	4/25/2025	18	10	

**Upper Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Farmington	BB	4/25/2025	62	10	
Farmington	F	5/12/2025	12	10	
Farmington	I	4/30/2025	18	10	
Farmington	M	4/30/2025	24	10	
Farmington	S	4/30/2025	24	10	
Farmington	U	4/23/2025	60	10	
Farmington	V	4/23/2025	24	10	
Farmington	X1	5/12/2025	24	10	
Farmington	Y	4/29/2025	18	10	
Livonia	536	5/28/2025	24	10	
Livonia	5626	6/3/2025	24	10	
Livonia	6038	6/3/2025	36	10	
Livonia	13104	6/2/2025	24	10	
Livonia	28-40	6/2/2025	24	10	
Livonia	28-41	6/2/2025	24	10	
Livonia	M2008155	6/2/2025	15	10	
Livonia	M2008160	6/2/2025	24	10	
Livonia	M2008190	5/28/2025	36	10	
Livonia	M2008202	5/28/2025	16	10	
Livonia	M2008207	5/28/2025	12	10	
Farmington	A	4/30/2025	12		
Farmington	AB	4/25/2025	12		
Farmington	AC	4/25/2025	12		
Farmington	AD	4/25/2025	18		
Farmington	AG	4/23/2025	24		
Farmington	AH	4/23/2025	24		
Farmington	AH1	4/23/2025			
Farmington	AH10	4/23/2025	18		
Farmington	AH3	4/23/2025	12		
Farmington	AH5	4/23/2025	24		
Farmington	AH9	4/23/2025			
Farmington	AN	4/29/2025	12		
Farmington	AO	4/29/2025	24		
Farmington	AP1	4/29/2025	18		
Farmington	AQ	4/25/2025	12		
Farmington	AS	4/29/2025			
Farmington	AV	4/25/2025	8		
Farmington	AW	4/25/2025	8		
Farmington	AY	4/25/2025			
Farmington	AZ	4/25/2025	24		
Farmington	B	4/30/2025	24		
Farmington	C	4/30/2025			
Farmington	D	5/12/2025	12		
Farmington	E	5/12/2025	48		
Farmington	H	4/30/2025	12		
Farmington	IA	4/30/2025	12		

**Upper Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Farmington	IB	4/30/2025	12		
Farmington	J	4/30/2025	36		
Farmington	K	4/29/2025	12		
Farmington	N	4/29/2025	18		
Farmington	O	4/29/2025			
Farmington	T	5/12/2025	12		
Farmington	Y1	4/29/2025	12		
Farmington Hills	459333	6/11/2025			
Farmington Hills	459334	6/11/2025			
Farmington Hills	459337	6/11/2025			
Farmington Hills	459345	6/11/2025			
Farmington Hills	459349	6/11/2025			
Livonia	4	5/28/2025			
Livonia	6	5/28/2025			
Livonia	230	5/28/2025	24		
Livonia	267	7/24/2025	60		
Livonia	1138	6/2/2025			
Livonia	1256	5/28/2025	36		
Livonia	1456	6/2/2025	48		
Livonia	1636	5/28/2025	24		
Livonia	1777	7/29/2025	24		
Livonia	1779	7/29/2025	36		
Livonia	2096	7/29/2025	6		
Livonia	2680	9/18/2025	36		
Livonia	2765	7/23/2025	24		
Livonia	3582	6/12/2025			
Livonia	3602	6/12/2025	24		
Livonia	3774	6/2/2025			
Livonia	3775	8/1/2025	36		
Livonia	4136	6/12/2025	12		
Livonia	4345	8/1/2025	24		
Livonia	4964	7/23/2025	24		
Livonia	4968	7/23/2025			
Livonia	5302	6/12/2025			
Livonia	5306	8/1/2025	12		
Livonia	5461	6/3/2025	12		
Livonia	5579	6/3/2025	15		
Livonia	5657	8/1/2025	36		
Livonia	5667	6/3/2025	18		
Livonia	5728	6/3/2025	12		
Livonia	5729	6/3/2025			
Livonia	5731	6/3/2025			
Livonia	5765	6/3/2025	24		
Livonia	5782	6/3/2025	12		
Livonia	5830	6/3/2025	24		
Livonia	6140	6/3/2025	24		

**Upper Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Livonia	7664	7/23/2025	12		
Livonia	13103	6/2/2025	48		
Livonia	13112	7/29/2025	12		
Livonia	13113	7/29/2025	24		
Livonia	13143	7/23/2025	36		
Livonia	13151	7/29/2025	36		
Livonia	13154	7/29/2025	12		
Livonia	13160	7/24/2025	18		
Livonia	13161	7/24/2025	24		
Livonia	13162	7/24/2025	36		
Livonia	13164	7/24/2025	36		
Livonia	13165	7/24/2025	4		
Livonia	13202	6/4/2024			
Livonia	13204	6/4/2024			
Livonia	11-17	6/3/2025			
Livonia	11-19	6/3/2025			
Livonia	23-8	6/12/2025			
Livonia	24-3	6/12/2025			
Livonia	24-8	6/12/2025			
Livonia	28-33	6/2/2025			
Livonia	28-36	6/2/2025			
Livonia	28-39	6/2/2025			
Livonia	30-19	7/29/2025	48		
Livonia	30-24	7/29/2025	36		
Livonia	37-25	7/28/2025	18		
Livonia	37-28	7/28/2025	12		
Livonia	37-42	7/28/2025	24		
Livonia	37-45	8/6/2025	12		
Livonia	38-8	7/28/2025	12		
Livonia	B-12	6/11/2025			
Livonia	F-24	7/24/2025	60		
Livonia	J-8	7/23/2025	14		
Livonia	M2008157	6/2/2025	24		
Livonia	M2008158	6/2/2025	9		
Livonia	M2008164	6/4/2024			
Livonia	M2008165	6/4/2024			
Livonia	M2008191	6/2/2025			
Livonia	M2008192	5/28/2025	6		
Livonia	M2008200	5/28/2025	12		
Livonia	M2008204	5/28/2025	12		
Livonia	M2008205	5/28/2025	6		
Livonia	M2008206	5/28/2025	12		
Livonia	U2008168	6/12/2025			
Livonia	U2008169	6/17/2025			
Livonia	U2008171	6/12/2025	24		
Livonia	U2008172	6/17/2025			

**Upper Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Livonia	U2008173	6/17/2025			
Livonia	U2008174	6/12/2025			
Livonia	U2008210	6/3/2025	12		
Livonia	U2008211	6/3/2025			
Livonia	U2008212	6/3/2025	12		
Livonia	U2008213	6/3/2025	12		
Livonia	U2008214	6/3/2025	6		
Livonia	U2008215	6/3/2025			
Livonia	U2008219	6/3/2025	18		
Livonia	U2008221	6/3/2025			
Livonia	U2008223	6/3/2025	36		
Livonia	U2008231	6/3/2025	12		
Livonia	U2008232	6/3/2025			
Livonia	U2008238	7/23/2025	36		
Livonia	U2008239	7/23/2025	36		
Livonia	U2008241	7/23/2025	34		
Livonia	U2008259	6/2/2025			
Livonia	U2008264	7/24/2025	6		
Livonia	U2008265	7/24/2025	12		
Livonia	U2008266	7/24/2025	12		
Livonia	U2008267	7/24/2025	12		
Livonia	U2008428	7/29/2025	24		
Livonia	U2008431	7/29/2025	18		
Livonia	U2008437	7/29/2025	12		
Livonia	X-11	8/6/2025	24		
Livonia	X-12	7/28/2025	24		
Livonia	X-13	8/6/2025	12		
Livonia	X-16	8/6/2025	12		
Livonia	X-17	8/22/2025	12		
Livonia	X-23	7/24/2025	24		
Livonia	X-24	7/24/2025			
Livonia	X-39	7/24/2025	6		
Livonia	X-41	7/24/2025	6		
Livonia	X-61	7/24/2025	36		
Livonia	Y-11	5/28/2025			

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Northville	NV45	5/20/2025	12	9804	2034
Westland	SWOF-00417	9/17/2025	60	24196	200
Westland	SWOF-00405	8/11/2025	36	15531	200
Westland	SWCUL-00018	9/17/2025	12	7270	200
Westland	SWOF-00103	8/27/2025	12	4352	200
Westland	SWOF-00391	10/14/2025	42	2909	200
Westland	SWOF-00527	9/2/2025	24	2755	200
Westland	SWOF-00225	8/27/2025	12	1515	200
Westland	SWOF-00140	9/2/2025	6	1120	200
Westland	SWOF-00397	8/11/2025	24	1012	200
Northville	NV01	5/19/2025	24	1515	103
Plymouth	PY4	3/14/2025	36	24196	
Plymouth	PY5	3/14/2025	24	14136	
Plymouth	PY11	11/8/2024	48	4884	
Plymouth	PY23	11/8/2024	24	2282	
Plymouth	PY18	11/8/2024	24	1314	
Plymouth	PY8	3/14/2025	24	1162	
Plymouth	PY17	3/14/2025	36	823	
Livonia	M2008135	1/7/2025	18	801	
Westland	SWOF-00413	9/10/2025	24	767	
Plymouth	PY27	11/8/2024	18	728	
Westland	SWOF-00041	8/27/2025	24	457	
Northville	NV07	6/16/2025	24	435	
Northville	NV50	6/16/2025	24	402	
Westland	SWOF-00047	9/17/2025	24	379	
Westland	SWOF-00028	9/17/2025	24	359	
Westland	SWOF-00536	8/7/2025	24	320	
Plymouth	PY6	3/14/2025	12	305	
Westland	SWOF-00177	10/14/2025		305	
Westland	SWOF-00595	9/10/2025	36	262	
Northville	NV02	5/19/2025	18	205	
Westland	SWOF-00049	8/7/2025	24	189	
Westland	SWOF-00272	8/27/2025	24	175	
Northville	NV33	6/16/2025	24	168	
Dearborn Heights	OUT05SE006	6/17/2025	18	148	
Northville	NV19	5/27/2025	48	141	
Westland	SWOF-00009	9/2/2025	36	137	
Westland	SWOF-00119	8/7/2025	24	127	
Northville	NV24	5/19/2025		121	
Westland	SWOF-00101	9/11/2025	24	75	
Novi	DOF-11388	5/12/2025	24	63	
Westland	SWOF-00003	9/17/2025	18	63	
Novi	DOF-11215	5/19/2025	24	52	
Westland	SWOF-00229	10/14/2025	12	52	
Westland	SWOF-00380	9/11/2025	24	52	
Northville	NV22	5/27/2025	36	51	
Westland	SWOF-00067	9/17/2025	24	51	

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Northville	NV57	5/20/2025		41	
Westland	SWOF-00001	9/11/2025	18	31	
Westland	SWOF-00237	10/14/2025	36	31	
Westland	SWOF-00553	8/11/2025	6	31	
Northville	NV48	5/20/2025	24	20	
Westland	SWOF-00211	8/7/2025	18	20	
Westland	SWOF-00395	9/17/2025	24	20	
Westland	SWOF-00500	8/7/2025	12	20	
Dearborn Heights	OUT05SE002	6/17/2025	36	10	
Livonia	M2008104	9/4/2024	24	10	
Livonia	M2008105	9/4/2024	12	10	
Livonia	M2008106	9/4/2024	12	10	
Northville	NV25	6/16/2025	24	10	
Northville	NV30	6/16/2025	36	10	
Northville	NV32	6/16/2025	24	10	
Northville	NV65	5/20/2025		10	
Novi	DOF-10975	5/12/2025	30	10	
Novi	DOF-11238	5/12/2025	36	10	
Plymouth	PY16	3/14/2025	36	10	
Plymouth	PY24	11/8/2024	12	10	
Plymouth	PY7	3/14/2025	8	10	
Westland	SWOF-00355	9/2/2025	24	10	
Westland	SWOF-00170	9/11/2025	12	1	
Westland	SWOF-00035	9/11/2025	24	0	
Westland	SWOF-00253	8/11/2025	24	0	
Westland	SWOF-00278	10/1/2025	6	0	
Westland	SWOF-00392	10/14/2025	36	0	
Westland	SWOF-00531	8/11/2025	6	0	
Westland	SWOF-00575	10/14/2025	8	0	
Dearborn Heights	OUT05SE001	6/17/2025	18		
Dearborn Heights	OUT05SE003	6/17/2025	18		
Dearborn Heights	OUT05SE004	6/17/2025	12		
Dearborn Heights	OUT05SW001	6/17/2025	24		
Dearborn Heights	OUT09SE001	6/17/2025	36		
Dearborn Heights	OUT10SW001	6/17/2025	24		
Garden City	11-2-101r	10/21/2024	72		
Livonia	11304	1/7/2025	24		
Livonia	13201	8/26/2025	12		
Livonia	200024	7/29/2025	24		
Livonia	14-33	9/4/2024	8		
Livonia	15-10	7/29/2025	18		
Livonia	M2008103	9/4/2024	12		
Livonia	M2008110	8/20/2024	6		
Livonia	M2008111	8/20/2024	6		
Livonia	M2008112	8/20/2024	6		
Livonia	M2008113	8/20/2024	6		
Livonia	M2008136	1/7/2025			

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Livonia	M2008137	1/7/2025	12		
Northville	NV00	5/19/2025			
Northville	NV03	5/19/2025	48		
Northville	NV04	6/16/2025	18		
Northville	NV05	5/19/2025			
Northville	NV06	6/16/2025			
Northville	NV08	5/19/2025	18		
Northville	NV09	6/16/2025			
Northville	NV10	5/19/2025	8		
Northville	NV11	5/19/2025	18		
Northville	NV12	5/19/2025	18		
Northville	NV13	5/19/2025	12		
Northville	NV14	5/27/2025			
Northville	NV15	5/27/2025			
Northville	NV16	5/27/2025			
Northville	NV17	5/27/2025			
Northville	NV18	5/27/2025			
Northville	NV20	6/16/2025	60		
Northville	NV21	6/16/2025	18		
Northville	NV23	5/27/2025	36		
Northville	NV26	6/16/2025			
Northville	NV27	6/16/2025			
Northville	NV28	6/16/2025			
Northville	NV29	6/16/2025	18		
Northville	NV31	6/16/2025	9		
Northville	NV34	6/16/2025			
Northville	NV35	6/16/2025			
Northville	NV36	6/16/2025	18		
Northville	NV37	5/27/2025	12		
Northville	NV38	5/27/2025	8		
Northville	NV39	5/27/2025	18		
Northville	NV40	5/27/2025	18		
Northville	NV41	5/27/2025	18		
Northville	NV42	5/27/2025			
Northville	NV43	5/27/2025	12		
Northville	NV44	5/27/2025	12		
Northville	NV46	5/20/2025	12		
Northville	NV47	5/20/2025			
Northville	NV49	6/16/2025	24		
Northville	NV53	5/20/2025	36		
Northville	NV54	5/20/2025	24		
Northville	NV55	5/20/2025	12		
Northville	NV56	5/20/2025	36		
Northville	NV58	5/20/2025	24		
Northville	NV59	5/20/2025	18		
Northville	NV60	5/20/2025	18		
Northville	NV62	5/20/2025	12		

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Northville	NV63	5/20/2025	24		
Northville	NV67	6/16/2025	6		
Novi	DOF-011606	5/12/2025	12		
Novi	DOF-011607	5/19/2025	8		
Novi	DOF-10043	5/12/2025	18		
Novi	DOF-10065	5/12/2025	18		
Novi	DOF-10395	5/12/2025	18		
Novi	DOF-10561	5/12/2025	12		
Novi	DOF-10601	5/12/2025	36		
Novi	DOF-10607	5/12/2025	36		
Novi	DOF-10865	5/12/2025	18		
Novi	DOF-10947	5/19/2025	12		
Novi	DOF-10972	5/19/2025			
Novi	DOF-10974	5/19/2025	12		
Novi	DOF-11045	5/12/2025	18		
Novi	DOF-11087	5/19/2025			
Novi	DOF-11135	5/19/2025	24		
Novi	DOF-11237	5/12/2025	12		
Novi	DOF-11240	5/12/2025	24		
Novi	DOF-11336	5/12/2025	48		
Novi	DOF-200058	5/19/2025			
Plymouth	PY1	3/14/2025	6		
Plymouth	PY10	11/8/2024	8		
Plymouth	PY12	11/8/2024	8		
Plymouth	PY13	11/8/2024	18		
Plymouth	PY14	11/8/2024	12		
Plymouth	PY15	11/8/2024	18		
Plymouth	PY19	11/8/2024	12		
Plymouth	PY2	3/14/2025	24		
Plymouth	PY20	11/8/2024	24		
Plymouth	PY21	11/8/2024	12		
Plymouth	PY22	11/8/2024	8		
Plymouth	PY25	11/8/2024	12		
Plymouth	PY3	3/14/2025	8		
Walled Lake		6/30/2025			
Walled Lake	W-17	6/30/2025	6		
Walled Lake	W-18	6/30/2025			
Walled Lake	W-19	6/30/2025	18		
Walled Lake	W-20	6/30/2025	8		
Walled Lake	W-21	6/30/2025			
Walled Lake	W-22	6/30/2025	12		
Walled Lake	W-24	6/30/2025			
Walled Lake	W-25	6/30/2025	8		
Walled Lake	W-26	6/30/2025			
Walled Lake	W-27	6/30/2025			
Walled Lake	W-28	6/30/2025			
Walled Lake	W-29	6/30/2025			

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWCUL-00001	8/11/2025	36		
Westland	SWCUL-00002	8/11/2025			
Westland	SWCUL-00003	8/11/2025			
Westland	SWCUL-00004	8/11/2025	24		
Westland	SWCUL-00005	10/27/2025			
Westland	SWCUL-00006	9/2/2025	48		
Westland	SWCUL-00007	9/11/2025			
Westland	SWCUL-00008	9/11/2025			
Westland	SWCUL-00009	8/22/2025	36		
Westland	SWCUL-00010	9/2/2025			
Westland	SWCUL-00011	8/27/2025			
Westland	SWCUL-00012	9/11/2025			
Westland	SWCUL-00013	8/11/2025			
Westland	SWCUL-00014	8/11/2025	12		
Westland	SWCUL-00015	8/27/2025			
Westland	SWCUL-00016	10/16/2025	12		
Westland	SWCUL-00017	9/17/2025	84		
Westland	SWCUL-00019	9/17/2025	18		
Westland	SWCUL-00020	9/17/2025	12		
Westland	SWCUL-00021	9/17/2025	84		
Westland	SWCUL-00022	9/17/2025	12		
Westland	SWCUL-00023	8/27/2025	18		
Westland	SWCUL-00024	10/1/2025			
Westland	SWCUL-00025	10/1/2025			
Westland	SWCUL-00026	8/27/2025			
Westland	SWCUL-00027	8/27/2025	36		
Westland	SWCUL-00028	8/27/2025	12		
Westland	SWCUL-00029	8/27/2025			
Westland	SWCUL-00042	8/7/2025	12		
Westland	SWCUL-00044	8/7/2025			
Westland	SWCUL-00046	9/17/2025			
Westland	SWCUL-00047	9/17/2025	60		
Westland	SWCUL-00048	9/17/2025			
Westland	SWCUL-00049	10/14/2025			
Westland	SWCUL-00050	10/14/2025	18		
Westland	SWCUL-00052	10/14/2025			
Westland	SWCUL-00053	10/16/2025	18		
Westland	SWOF-00002	8/26/2025	18		
Westland	SWOF-00004	9/10/2025			
Westland	SWOF-00005	8/11/2025			
Westland	SWOF-00006	8/11/2025	48		
Westland	SWOF-00007	9/17/2025	12		
Westland	SWOF-00008	8/22/2025			
Westland	SWOF-00010	8/26/2025	6		
Westland	SWOF-00011	8/26/2025	6		
Westland	SWOF-00012	8/26/2025	12		
Westland	SWOF-00023	10/16/2025	18		

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00024	8/11/2025	36		
Westland	SWOF-00025	8/11/2025	24		
Westland	SWOF-00026	8/11/2025			
Westland	SWOF-00027	8/11/2025			
Westland	SWOF-00029	9/10/2025	24		
Westland	SWOF-00030	9/10/2025			
Westland	SWOF-00031	9/10/2025	12		
Westland	SWOF-00032	9/10/2025			
Westland	SWOF-00033	9/11/2025	36		
Westland	SWOF-00034	9/11/2025	6		
Westland	SWOF-00036	8/22/2025	6		
Westland	SWOF-00037	8/22/2025	18		
Westland	SWOF-00038	8/22/2025	12		
Westland	SWOF-00039	8/22/2025	6		
Westland	SWOF-00040	8/27/2025	24		
Westland	SWOF-00042	8/27/2025			
Westland	SWOF-00043	8/27/2025	12		
Westland	SWOF-00044	8/22/2025	24		
Westland	SWOF-00045	9/11/2025	12		
Westland	SWOF-00046	9/17/2025			
Westland	SWOF-00048	8/7/2025			
Westland	SWOF-00050	10/14/2025			
Westland	SWOF-00051	10/14/2025	4		
Westland	SWOF-00052	10/14/2025	6		
Westland	SWOF-00053	10/14/2025			
Westland	SWOF-00054	10/14/2025			
Westland	SWOF-00055	10/14/2025	24		
Westland	SWOF-00056	8/26/2025	24		
Westland	SWOF-00057	10/16/2025	12		
Westland	SWOF-00058	9/2/2025	24		
Westland	SWOF-00059	9/2/2025	12		
Westland	SWOF-00060	9/2/2025			
Westland	SWOF-00061	9/2/2025			
Westland	SWOF-00062	9/2/2025			
Westland	SWOF-00063	9/2/2025	18		
Westland	SWOF-00064	9/2/2025			
Westland	SWOF-00065	8/26/2025	24		
Westland	SWOF-00066	8/26/2025	12		
Westland	SWOF-00092	9/11/2025	24		
Westland	SWOF-00093	9/11/2025	24		
Westland	SWOF-00094	9/11/2025			
Westland	SWOF-00095	9/11/2025			
Westland	SWOF-00096	8/22/2025	4		
Westland	SWOF-00097	8/22/2025	8		
Westland	SWOF-00098	8/22/2025			
Westland	SWOF-00099	8/22/2025			
Westland	SWOF-00100	8/22/2025			

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00102	8/22/2025			
Westland	SWOF-00104	8/11/2025	48		
Westland	SWOF-00105	8/22/2025	36		
Westland	SWOF-00106	8/22/2025			
Westland	SWOF-00107	8/22/2025	4		
Westland	SWOF-00108	8/22/2025			
Westland	SWOF-00109	8/22/2025	36		
Westland	SWOF-00110	8/22/2025	18		
Westland	SWOF-00111	8/22/2025	6		
Westland	SWOF-00112	8/22/2025	12		
Westland	SWOF-00113	8/22/2025	12		
Westland	SWOF-00118	8/7/2025	12		
Westland	SWOF-00120	8/7/2025	48		
Westland	SWOF-00135	9/2/2025	12		
Westland	SWOF-00136	9/2/2025			
Westland	SWOF-00137	8/26/2025	12		
Westland	SWOF-00138	9/2/2025	6		
Westland	SWOF-00139	9/2/2025			
Westland	SWOF-00141	9/2/2025	6		
Westland	SWOF-00142	8/26/2025	12		
Westland	SWOF-00143	8/20/2024			
Westland	SWOF-00144	8/26/2025	6		
Westland	SWOF-00145	8/26/2025	24		
Westland	SWOF-00146	9/2/2025	6		
Westland	SWOF-00147	9/2/2025	6		
Westland	SWOF-00148	8/22/2025	12		
Westland	SWOF-00149	8/22/2025			
Westland	SWOF-00150	8/22/2025	12		
Westland	SWOF-00151	8/22/2025			
Westland	SWOF-00152	8/22/2025	12		
Westland	SWOF-00153	8/22/2025	4		
Westland	SWOF-00154	8/22/2025	24		
Westland	SWOF-00155	8/22/2025	6		
Westland	SWOF-00156	8/22/2025	6		
Westland	SWOF-00157	9/17/2025			
Westland	SWOF-00160	9/10/2025	12		
Westland	SWOF-00161	9/10/2025			
Westland	SWOF-00162	9/10/2025			
Westland	SWOF-00163	9/10/2025			
Westland	SWOF-00164	9/10/2025	24		
Westland	SWOF-00165	8/22/2025			
Westland	SWOF-00166	8/22/2025	24		
Westland	SWOF-00167	8/11/2025			
Westland	SWOF-00168	10/16/2025	18		
Westland	SWOF-00169	9/11/2025			
Westland	SWOF-00171	8/11/2025			
Westland	SWOF-00172	9/2/2025			

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00173	8/11/2025	18		
Westland	SWOF-00176	10/14/2025	4		
Westland	SWOF-00178	9/11/2025	6		
Westland	SWOF-00208	8/7/2025	48		
Westland	SWOF-00209	8/7/2025			
Westland	SWOF-00210	8/7/2025			
Westland	SWOF-00212	8/7/2025			
Westland	SWOF-00213	8/7/2025			
Westland	SWOF-00215	8/7/2025	12		
Westland	SWOF-00216	8/7/2025	6		
Westland	SWOF-00217	8/7/2025	18		
Westland	SWOF-00218	9/11/2025	12		
Westland	SWOF-00219	9/17/2025	24		
Westland	SWOF-00220	9/10/2025			
Westland	SWOF-00221	8/27/2025	48		
Westland	SWOF-00222	8/27/2025			
Westland	SWOF-00223	10/27/2025			
Westland	SWOF-00224	8/27/2025	8		
Westland	SWOF-00226	10/14/2025	12		
Westland	SWOF-00227	10/14/2025	12		
Westland	SWOF-00228	8/27/2025	12		
Westland	SWOF-00230	10/14/2025	96		
Westland	SWOF-00231	10/1/2025			
Westland	SWOF-00232	10/1/2025	12		
Westland	SWOF-00233	10/1/2025	24		
Westland	SWOF-00238	10/14/2025			
Westland	SWOF-00239	10/16/2025	24		
Westland	SWOF-00240	10/16/2025	24		
Westland	SWOF-00241	10/16/2025	24		
Westland	SWOF-00242	10/16/2025	12		
Westland	SWOF-00243	10/16/2025	24		
Westland	SWOF-00244	9/10/2025			
Westland	SWOF-00245	10/16/2025	12		
Westland	SWOF-00246	10/16/2025			
Westland	SWOF-00247	10/14/2025	6		
Westland	SWOF-00248	10/14/2025	18		
Westland	SWOF-00249	9/10/2025	12		
Westland	SWOF-00250	8/27/2025	18		
Westland	SWOF-00252	8/11/2025			
Westland	SWOF-00254	8/26/2025	12		
Westland	SWOF-00255	8/26/2025	36		
Westland	SWOF-00256	8/26/2025	16		
Westland	SWOF-00257	8/26/2025	12		
Westland	SWOF-00258	8/26/2025	12		
Westland	SWOF-00259	8/26/2025	18		
Westland	SWOF-00260	8/22/2025	24		
Westland	SWOF-00261	8/22/2025	18		

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00262	8/22/2025	12		
Westland	SWOF-00263	9/17/2025	12		
Westland	SWOF-00264	9/17/2025	12		
Westland	SWOF-00265	8/26/2025	12		
Westland	SWOF-00266	9/17/2025	24		
Westland	SWOF-00267	9/17/2025	24		
Westland	SWOF-00268	8/27/2025	18		
Westland	SWOF-00269	8/27/2025			
Westland	SWOF-00270	8/27/2025	18		
Westland	SWOF-00271	10/1/2025	18		
Westland	SWOF-00273	8/27/2025			
Westland	SWOF-00274	10/1/2025	24		
Westland	SWOF-00275	10/1/2025	36		
Westland	SWOF-00276	10/1/2025	24		
Westland	SWOF-00277	10/1/2025	36		
Westland	SWOF-00286	10/1/2025	24		
Westland	SWOF-00287	10/1/2025	12		
Westland	SWOF-00290	10/1/2025			
Westland	SWOF-00291	10/27/2025			
Westland	SWOF-00292	8/27/2025	12		
Westland	SWOF-00293	8/27/2025			
Westland	SWOF-00294	8/27/2025			
Westland	SWOF-00295	10/27/2025	12		
Westland	SWOF-00296	10/14/2025	84		
Westland	SWOF-00297	10/14/2025			
Westland	SWOF-00298	8/27/2025	6		
Westland	SWOF-00299	8/27/2025	12		
Westland	SWOF-00300	8/27/2025	12		
Westland	SWOF-00301	8/27/2025	12		
Westland	SWOF-00302	8/27/2025	6		
Westland	SWOF-00303	8/27/2025	36		
Westland	SWOF-00304	8/27/2025	12		
Westland	SWOF-00305	8/27/2025			
Westland	SWOF-00306	8/27/2025			
Westland	SWOF-00307	10/14/2025	18		
Westland	SWOF-00308	8/27/2025			
Westland	SWOF-00309	10/14/2025			
Westland	SWOF-00310	8/27/2025	12		
Westland	SWOF-00311	8/27/2025	48		
Westland	SWOF-00312	8/27/2025			
Westland	SWOF-00313	8/27/2025			
Westland	SWOF-00314	8/27/2025	24		
Westland	SWOF-00315	8/27/2025	24		
Westland	SWOF-00316	10/1/2025			
Westland	SWOF-00317	10/1/2025	12		
Westland	SWOF-00318	10/1/2025			
Westland	SWOF-00319	10/1/2025	12		

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00320	10/1/2025	8		
Westland	SWOF-00321	10/1/2025	12		
Westland	SWOF-00322	8/27/2025	12		
Westland	SWOF-00324	8/27/2025	12		
Westland	SWOF-00325	8/27/2025			
Westland	SWOF-00326	10/1/2025	24		
Westland	SWOF-00327	10/1/2025	36		
Westland	SWOF-00328	10/1/2025			
Westland	SWOF-00329	10/1/2025	12		
Westland	SWOF-00330	10/1/2025			
Westland	SWOF-00331	10/1/2025	36		
Westland	SWOF-00332	10/1/2025			
Westland	SWOF-00333	10/1/2025	48		
Westland	SWOF-00336	8/27/2025			
Westland	SWOF-00337	8/27/2025			
Westland	SWOF-00338	10/1/2025			
Westland	SWOF-00339	10/1/2025	12		
Westland	SWOF-00340	10/1/2025	12		
Westland	SWOF-00341	10/1/2025	12		
Westland	SWOF-00342	10/1/2025	12		
Westland	SWOF-00343	8/27/2025	24		
Westland	SWOF-00344	9/2/2025	6		
Westland	SWOF-00345	8/22/2025			
Westland	SWOF-00346	8/26/2025			
Westland	SWOF-00347	9/2/2025	12		
Westland	SWOF-00348	9/2/2025			
Westland	SWOF-00349	9/10/2025	24		
Westland	SWOF-00350	9/10/2025	12		
Westland	SWOF-00351	9/10/2025	18		
Westland	SWOF-00353	8/11/2025			
Westland	SWOF-00354	9/2/2025	24		
Westland	SWOF-00356	8/11/2025			
Westland	SWOF-00358	9/10/2025	12		
Westland	SWOF-00359	9/10/2025	24		
Westland	SWOF-00360	8/26/2025	16		
Westland	SWOF-00361	8/11/2025	36		
Westland	SWOF-00365	9/10/2025			
Westland	SWOF-00366	9/2/2025	24		
Westland	SWOF-00367	8/26/2025			
Westland	SWOF-00368	8/26/2025	36		
Westland	SWOF-00369	9/2/2025	12		
Westland	SWOF-00370	9/11/2025	24		
Westland	SWOF-00371	9/17/2025	24		
Westland	SWOF-00372	8/11/2025	6		
Westland	SWOF-00373	9/17/2025			
Westland	SWOF-00374	9/17/2025	36		
Westland	SWOF-00375	9/17/2025			

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00377	8/22/2025	36		
Westland	SWOF-00378	8/22/2025			
Westland	SWOF-00379	9/11/2025	24		
Westland	SWOF-00381	9/11/2025	12		
Westland	SWOF-00382	9/11/2025	24		
Westland	SWOF-00383	10/16/2025	6		
Westland	SWOF-00384	10/16/2025			
Westland	SWOF-00385	10/16/2025	12		
Westland	SWOF-00386	10/16/2025	8		
Westland	SWOF-00387	10/16/2025	36		
Westland	SWOF-00388	8/11/2025	18		
Westland	SWOF-00389	8/11/2025	18		
Westland	SWOF-00390	9/17/2025	24		
Westland	SWOF-00393	8/22/2025			
Westland	SWOF-00394	9/17/2025	12		
Westland	SWOF-00396	8/11/2025	6		
Westland	SWOF-00398	8/11/2025	24		
Westland	SWOF-00399	9/10/2025	12		
Westland	SWOF-00400	9/11/2025	24		
Westland	SWOF-00401	9/17/2025	18		
Westland	SWOF-00402	8/11/2025	24		
Westland	SWOF-00403	8/11/2025	6		
Westland	SWOF-00404	8/11/2025	24		
Westland	SWOF-00406	8/11/2025	48		
Westland	SWOF-00407	8/11/2025	6		
Westland	SWOF-00408	8/11/2025	12		
Westland	SWOF-00409	8/11/2025	24		
Westland	SWOF-00410	8/11/2025			
Westland	SWOF-00411	8/11/2025	24		
Westland	SWOF-00412	8/11/2025	24		
Westland	SWOF-00414	9/17/2025	36		
Westland	SWOF-00415	9/17/2025	12		
Westland	SWOF-00416	9/17/2025	24		
Westland	SWOF-00424	8/26/2025	12		
Westland	SWOF-00425	10/16/2025	36		
Westland	SWOF-00426	10/16/2025	24		
Westland	SWOF-00429	8/27/2025	48		
Westland	SWOF-00430	8/27/2025	48		
Westland	SWOF-00431	8/27/2025	24		
Westland	SWOF-00432	8/27/2025			
Westland	SWOF-00433	8/27/2025	12		
Westland	SWOF-00434	8/27/2025	48		
Westland	SWOF-00478	10/16/2025	18		
Westland	SWOF-00498	8/7/2025	24		
Westland	SWOF-00499	8/7/2025			
Westland	SWOF-00501	8/7/2025	12		
Westland	SWOF-00502	8/7/2025	36		

**Middle Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00504	8/7/2025			
Westland	SWOF-00505	8/7/2025	18		
Westland	SWOF-00506	8/7/2025	12		
Westland	SWOF-00507	8/7/2025			
Westland	SWOF-00508	8/7/2025	8		
Westland	SWOF-00509	8/7/2025			
Westland	SWOF-00510	9/10/2025	24		
Westland	SWOF-00511	9/10/2025	24		
Westland	SWOF-00514	10/27/2025			
Westland	SWOF-00515	10/27/2025	18		
Westland	SWOF-00516	10/27/2025			
Westland	SWOF-00517	9/2/2025	6		
Westland	SWOF-00518	9/10/2025			
Westland	SWOF-00519	9/10/2025	6		
Westland	SWOF-00520	9/17/2025	12		
Westland	SWOF-00523	9/10/2025	12		
Westland	SWOF-00524	9/2/2025	24		
Westland	SWOF-00525	8/26/2025	12		
Westland	SWOF-00526	9/2/2025	24		
Westland	SWOF-00528	9/17/2025	6		
Westland	SWOF-00529	9/2/2025	24		
Westland	SWOF-00530	8/11/2025	18		
Westland	SWOF-00532	8/7/2025	12		
Westland	SWOF-00533	8/7/2025	6		
Westland	SWOF-00534	8/7/2025			
Westland	SWOF-00535	8/7/2025	12		
Westland	SWOF-00537	8/7/2025	18		
Westland	SWOF-00550	8/11/2025	36		
Westland	SWOF-00551	8/11/2025	36		
Westland	SWOF-00552	10/1/2025			
Westland	SWOF-00554	9/10/2025			
Westland	SWOF-00555	9/10/2025	12		
Westland	SWOF-00556	9/10/2025	12		
Westland	SWOF-00580	8/26/2025	12		
Westland	SWOF-00581	8/26/2025	12		
Westland	SWOF-00582	8/26/2025	12		
Westland	SWOF-00583	8/26/2025	12		
Westland	SWOF-00592	10/27/2025			
Westland	SWOF-00593	10/27/2025	8		
Westland	SWOF-00594	10/27/2025			
Westland	SWOF-00596	9/10/2025	36		
Westland	SWOF-00597	10/16/2025	24		
Westland	SWOF-00598	10/16/2025	18		
Westland	SWOF-00599	10/16/2025	24		
Westland	SWOF-00600	10/16/2025	12		
Westland	SWOF-00601	8/27/2025			

**Lower Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Wayne	47	7/15/2025	12	1119	58622
Wayne	36	7/16/2025	72	2282	7556
Wayne	65	6/24/2025	48	2755	5011
Westland	SWOF-00503	8/7/2025	48	8164	200
Wayne	26	7/16/2025	6	7270	200
Wayne	37	7/16/2025	12	1670	200
Wayne	14	7/22/2025	60	1086	200
Wayne	41	6/24/2025	12	5172	189
Wayne	51	7/15/2025	24	24196	
Wayne	29	7/16/2025	36	959	
Wayne	9	7/23/2025	48	933	
Wayne	69	6/23/2025	24	677	
Canton	4-9	6/23/2025	8	496	
Wayne	49	7/15/2025	12	450	
Canton	4-8	6/23/2025	6	359	
Wayne	18	7/22/2025	12	355	
Wayne	38	7/16/2025	24	301	
Wayne	50A	6/24/2025	72	226	
Wayne	22B	7/16/2025	24	132	
Wayne	60	6/24/2025	36	86	
Wayne	5	7/22/2025	36	63	
Wayne	15A	7/22/2025	36	52	
Wayne	31	7/16/2025	12	41	
Wayne	46	7/15/2025	12	31	
Westland	SWCUL-00041	7/23/2025	12	31	
Inkster	INK05	10/21/2024	12	10	
Westland	SWOF-00494	7/23/2025	24	10	
Wayne	44	6/24/2025	24	1	
Canton	4-1	6/23/2025	24		
Canton	4-6	6/23/2025			
Canton	4-7	6/23/2025			
Canton	4-10	6/23/2025			
Canton	4-11	6/23/2025	30		
Canton	4-12	6/23/2025	24		
Canton	4-13	6/23/2025	12		
Canton	4-14	6/23/2025	24		
Canton	4-15	6/23/2025	6		
Canton	4-16	6/23/2025	6		
Canton	4-17	6/23/2025			
Canton	4-18	6/23/2025	6		
Canton	4-19	6/23/2025			
Dearborn Heights	OUT20SW001	6/17/2025			
Inkster	INK01	10/21/2024	36		
Inkster	INK02	10/21/2024	36		
Inkster	INK03	10/21/2024	36		
Inkster	INK04	10/21/2024	48		
Inkster	INK06	10/21/2024	12		

**Lower Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Inkster	INK07	10/21/2024	72		
Inkster	INK08	10/21/2024	36		
Inkster	INK09	10/21/2024	72		
Inkster	INK10	10/21/2024	36		
Wayne	0	7/22/2025			
Wayne	1	6/23/2025			
Wayne	1	7/16/2025	18		
Wayne	2	6/23/2025			
Wayne	2	6/24/2025	6		
Wayne	3	6/23/2025			
Wayne	3	7/15/2025			
Wayne	4	7/22/2025			
Wayne	4	7/15/2025			
Wayne	6	7/22/2025	12		
Wayne	10	7/23/2025	18		
Wayne	11	7/23/2025			
Wayne	12	7/22/2025	12		
Wayne	13	7/22/2025	12		
Wayne	16	7/22/2025			
Wayne	17	7/22/2025			
Wayne	19	7/22/2025			
Wayne	20	7/22/2025			
Wayne	21	7/22/2025	24		
Wayne	22	7/22/2025	18		
Wayne	24	7/16/2025	6		
Wayne	25	7/16/2025			
Wayne	28	7/16/2025			
Wayne	30	7/16/2025	12		
Wayne	32	7/16/2025			
Wayne	33	7/16/2025	18		
Wayne	35	7/16/2025	18		
Wayne	40	6/24/2025	6		
Wayne	42	6/24/2025	18		
Wayne	43	6/24/2025	18		
Wayne	45	6/24/2025	12		
Wayne	48	7/15/2025	24		
Wayne	52	7/15/2025			
Wayne	54	7/15/2025			
Wayne	55	7/15/2025			
Wayne	56	7/15/2025			
Wayne	57	7/15/2025			
Wayne	58	7/15/2025	24		
Wayne	59	6/24/2025			
Wayne	61	6/23/2025	36		
Wayne	62	6/23/2025	36		
Wayne	63	7/15/2025	12		
Wayne	64	6/24/2025	12		

**Lower Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Wayne	66	6/24/2025	24		
Wayne	67	6/24/2025			
Wayne	68	6/23/2025			
Wayne	70	6/23/2025	6		
Wayne	71	6/23/2025	12		
Wayne	11B	7/23/2025	48		
Wayne	11D	7/23/2025			
Wayne	13A	7/22/2025	12		
Wayne	14B	7/22/2025	72		
Wayne	14C	7/22/2025	60		
Wayne	22A	7/16/2025			
Wayne	25B	7/16/2025			
Wayne	34A	7/16/2025	6		
Wayne	34B	7/16/2025	6		
Wayne	35B	7/16/2025	24		
Wayne	40A	6/24/2025	18		
Wayne	49A	7/15/2025	12		
Wayne	51B	7/15/2025	18		
Wayne	51C	7/15/2025			
Wayne	55B	7/15/2025			
Wayne	55C	7/15/2025			
Wayne	58B	7/15/2025			
Wayne	5B	7/22/2025	18		
Wayne	62B	7/15/2025			
Wayne	62C	7/15/2025			
Wayne	63A	6/23/2025			
Wayne	64A	6/24/2025	12		
Wayne	65A	6/24/2025			
Wayne	65B	6/24/2025	6		
Wayne	6B	7/23/2025			
Wayne	6C	7/22/2025	24		
Westland	SWCUL-00032	10/27/2025	12		
Westland	SWCUL-00033	10/29/2025	24		
Westland	SWCUL-00034	10/29/2025			
Westland	SWCUL-00037	10/16/2025			
Westland	SWCUL-00038	10/16/2025	12		
Westland	SWCUL-00039	10/27/2025	12		
Westland	SWCUL-00040	8/8/2025	18		
Westland	SWOF-00016	10/29/2025			
Westland	SWOF-00017	10/27/2025	36		
Westland	SWOF-00018	10/27/2025			
Westland	SWOF-00019	10/27/2025			
Westland	SWOF-00020	10/27/2025	12		
Westland	SWOF-00021	10/16/2025			
Westland	SWOF-00022	10/27/2025			
Westland	SWOF-00072	10/29/2025			
Westland	SWOF-00073	10/27/2025	24		

**Lower Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00077	10/27/2025	12		
Westland	SWOF-00078	10/29/2025	6		
Westland	SWOF-00079	10/29/2025	12		
Westland	SWOF-00080	10/16/2025			
Westland	SWOF-00081	10/16/2025			
Westland	SWOF-00082	10/16/2025	8		
Westland	SWOF-00087	10/29/2025	18		
Westland	SWOF-00088	10/29/2025	18		
Westland	SWOF-00090	10/29/2025	24		
Westland	SWOF-00091	10/27/2025			
Westland	SWOF-00114	10/27/2025	12		
Westland	SWOF-00115	10/27/2025	12		
Westland	SWOF-00116	10/27/2025	36		
Westland	SWOF-00117	10/27/2025			
Westland	SWOF-00121	10/27/2025	12		
Westland	SWOF-00122	10/27/2025	12		
Westland	SWOF-00123	10/27/2025	24		
Westland	SWOF-00126	10/27/2025	18		
Westland	SWOF-00127	6/23/2025	12		
Westland	SWOF-00128	6/24/2025			
Westland	SWOF-00130	10/27/2025	36		
Westland	SWOF-00131	10/27/2025	6		
Westland	SWOF-00132	10/27/2025	12		
Westland	SWOF-00133	10/27/2025	12		
Westland	SWOF-00158	10/27/2025	12		
Westland	SWOF-00185	10/27/2025			
Westland	SWOF-00186	10/27/2025	12		
Westland	SWOF-00187	10/29/2025	48		
Westland	SWOF-00189	10/27/2025	24		
Westland	SWOF-00198	10/29/2025			
Westland	SWOF-00251	8/8/2025	18		
Westland	SWOF-00442	10/29/2025			
Westland	SWOF-00443	10/29/2025			
Westland	SWOF-00444	10/29/2025			
Westland	SWOF-00446	10/29/2025			
Westland	SWOF-00447	10/29/2025	36		
Westland	SWOF-00448	10/27/2025	18		
Westland	SWOF-00449	10/27/2025	18		
Westland	SWOF-00452	10/29/2025	6		
Westland	SWOF-00454	10/16/2025	72		
Westland	SWOF-00455	10/29/2025	12		
Westland	SWOF-00456	10/16/2025			
Westland	SWOF-00457	10/16/2025			
Westland	SWOF-00458	10/27/2025	24		
Westland	SWOF-00459	10/27/2025	24		
Westland	SWOF-00460	10/27/2025	12		
Westland	SWOF-00466	6/23/2025	12		

**Lower Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00471	8/8/2025	6		
Westland	SWOF-00472	8/8/2025	6		
Westland	SWOF-00473	8/8/2025	8		
Westland	SWOF-00474	8/8/2025	24		
Westland	SWOF-00475	8/8/2025	4		
Westland	SWOF-00476	8/8/2025	48		
Westland	SWOF-00477	8/8/2025	8		
Westland	SWOF-00479	8/8/2025			
Westland	SWOF-00480	7/23/2025	12		
Westland	SWOF-00481	7/23/2025	12		
Westland	SWOF-00482	7/23/2025	12		
Westland	SWOF-00483	10/16/2025			
Westland	SWOF-00484	10/27/2025	21		
Westland	SWOF-00486	10/16/2025	8		
Westland	SWOF-00487	10/16/2025			
Westland	SWOF-00488	10/16/2025	12		
Westland	SWOF-00490	7/23/2025			
Westland	SWOF-00491	10/16/2025	12		
Westland	SWOF-00492	7/23/2025	36		
Westland	SWOF-00493	7/23/2025	12		
Westland	SWOF-00495	10/27/2025	6		
Westland	SWOF-00496	7/23/2025			
Westland	SWOF-00497	7/23/2025			
Westland	SWOF-00512	8/7/2025	36		
Westland	SWOF-00513	8/8/2025	18		
Westland	SWOF-00538	10/16/2025			
Westland	SWOF-00539	8/8/2025	12		
Westland	SWOF-00540	7/23/2025	12		
Westland	SWOF-00543	10/16/2025	18		
Westland	SWOF-00557	10/29/2025			
Westland	SWOF-00558	10/29/2025	12		
Westland	SWOF-00559	10/29/2025	8		
Westland	SWOF-00560	10/29/2025	12		
Westland	SWOF-00561	8/7/2025			
Westland	SWOF-00562	8/7/2025	48		
Westland	SWOF-00563	8/7/2025	36		
Westland	SWOF-00564	8/7/2025	48		
Westland	SWOF-00565	8/7/2025	36		
Westland	SWOF-00566	8/7/2025	24		
Westland	SWOF-00567	8/7/2025			
Westland	SWOF-00568	8/7/2025	24		
Westland	SWOF-00569	8/7/2025	24		
Westland	SWOF-00570	8/7/2025	24		
Westland	SWOF-00571	8/7/2025	12		
Westland	SWOF-00572	8/7/2025	36		
Westland	SWOF-00573	8/8/2025	18		
Westland	SWOF-00574	8/8/2025	24		

**Lower Rouge Sub-watershed - IDEP Outfall Data Table**

<b>Municipalities</b>	<b>Outfall ID</b>	<b>Date</b>	<b>Size (inches)</b>	<b>E. coli</b>	<b>HF183</b>
Westland	SWOF-00576	8/8/2025	18		
Westland	SWOF-00577	8/8/2025	18		
Westland	SWOF-00578	8/7/2025	12		
Westland	SWOF-00579	8/7/2025	12		
Westland	SWOF-00584	10/16/2025			
Westland	SWOF-00585	10/16/2025			
Westland	SWOF-00586	10/16/2025			
Westland	SWOF-00587	8/8/2025	18		
Westland	SWOF-00588	8/8/2025	36		
Westland	SWOF-00589	8/8/2025	6		
Westland	SWOF-00590	8/8/2025			
Westland	SWOF-00591	8/8/2025	48		
Westland	SWOF-00602	10/29/2025			
Westland	SWOF-00603	10/29/2025			
Westland	SWOF-00604	10/16/2025	18		
Westland	SWOF-00605	10/16/2025	36		
Westland	SWOF-00606	10/16/2025			
Westland	SWOF-00607	10/16/2025			
Westland	SWOF-00608	10/27/2025	12		
Westland	SWOF-00609	10/16/2025			

**Appendix B5**

**Redford Township Investigation Records**

# Report of Discharge (CSO/SSO/RTB)

version 1.15

(Submission #: HQ1-8WST-GNQ69, version 1)

EGLE REPORT (CM)  
SSO: 2-5-24  
24542 Ross Drive

## Details

---

**Submission ID** HQ1-8WST-GNQ69

**Status** Draft

## Form Input

---

### Report Details

**Is this the initial or final discharge report?**

Final

**Site/Facility Name:**

Redford Township CM

**Permit Number (if applicable):**

3112a-0727

**Sewer System or Treatment Facility Owner**

**Organization Name**

Charter Township of Redford

**Phone Type**

**Number**

**Extension**

Business

313-387-2615

**Email**

trowland@redfordtwp.com

**Fax**

NONE PROVIDED

**Address**

12200 BEECH DALY RD

REDFORD, MI 48239

[NO COUNTRY SPECIFIED]

**Facility Address**

15145 Beech Daly Road

Redford, MI 48239

**Sewer System or Treatment Facility Owner Location**

42.395057028297046,-83.28171548063352

15145 Beech Daly Road, Redford, MI

SSO Discharge from `NEW\_FEATR\_ID\_TXT` `OUTFL\_ID\_TXT`

Discharge Type:

SSO Discharge

SSO Discharge

The reported discharge is from a private or municipal separate sewer collection system (not a wastewater treatment plant) during wet or dry weather, or a dry weather discharge from a municipal combined sewer collection system.

Is the outfall or discharge area located at a private residential address?

YES

Please describe the discharge location. Private Residential Addresses entered here will not show to the public. In the huge backyard of a residential building. Down a steep incline which opens up to floodplain next to Tarabusi Creek. 24542 Ross Drive in Redford Township. The discharge came out of a Redford sewer manhole on the Northeast area of the fenced in property. This manhole opens up to a 12" sewer main. There are two manholes in this area. The one closest to the residence was the discharge point.

Outfall or Discharge Area Description

Sewer manhole in a floodplain that is part of a home owners property.

Outfall or Discharge Area Location

42.39482,-83.28185239999999

Has the discharge ended?

YES

Volume Discharged	Unit	Was the volume estimated?
150000	Gallons	Yes

Quality of Discharge

Diluted Raw Sewage

Please describe the discharge, including the reason for Discharge

Combined sewage discharge. Roots formed a flap in a joint on a sewer main. Eventually, the roots stopped the flow and backed up the manhole and discharged upon the floodplain.

Was the land or surface water impacted by the discharge?

Both land and water impacted

Name of Surface Water(s) Impacted:

Tarabusi Creek

Name/description of the land impacted:

Backyard floodplains of two residences. 24542 Ross Drive and 24534 Ross Drive.

Discharge Event Start

Date	Time
02/05/2024	09:00 am

Discharge Event End

02/05/2024

01:00 pm

**Name of the wastewater treatment facility that normally receives sewage.**

The Water Resource Recovery Facility

**Was the reported discharge caused by a party other than the sewer system owner and out of the control or knowledge of the actions which resulted in the discharge?**

NO

**Is the sewer system owner in compliance with applicable discharge permits, laws, rules, and orders?**

YES

**Initial Notification**

Organization	Date	Time
Local Health Department	02/08/2024	02:00 pm
Daily Local Newspaper	02/08/2024	02:00 pm

**Was EGLE notified prior to this report being received?**

EGLE was notified prior to this report being submitted

**Prior EGLE notification that discharge has started**

EGLE Notification Method	Person(s) notified	EGLE Notification Date	EGLE Notification Time	Comments
Email - CSO/RTB only	Steven Eick, Laura Verona	02/08/2024	02:00 pm	NONE PROVIDED

**Notification that discharge has concluded.**

Organization	Date	Time
Local Health Department	02/08/2024	02:00 pm
Daily Local Newspaper	02/08/2024	02:00 pm

**Precipitation Type(s) (Select none if there was no precipitation)**

None

**Actions taken to minimize the impact from the discharge(s):**

Punched a hole through sewer main blockage to resume proper flow. Put a camera in to determine cause of blockage and to determine additional cleaning steps. Put sandbags across a homeowners self made ditch to the creek to prevent further creek contamination. Reaching out to a Wayne County contractor who does cleanups for the County to see what they recommend for proper a proper cleanup. Set up extensive length of Vactor tubing and were successful in removing over 97% of the wastewater ponding.

**Actions taken, or that will be taken, to prevent this discharge event from reoccurring:**

Plan on week of 02/13/24 to 02/16/24 to re run 12" sewer line with a Warthog (spinning whip) to remove the bulk of the remaining root flap. Re-camera. Assess. Will put this small area on a bi-annual camera/cleaning schedule to prevent further incidents.

**Was this discharge disinfected to meet fecal coliform limitations?**

NO

**Results of E. coli testing**

Samples Not Taken as Required

**Additional Details**

**Report Submitter****Prefix**

*Mr.*

**First Name**

Thomas

**Last Name**

*Rowland*

**Title**

*Water Superintendent*

**Organization Name**

*Charter Township of Redford*

**Phone Type**

Business

**Number**

313-387-2615

**Extension****Email**

trowland@redfordtwp.com

**Fax**

NONE PROVIDED

**Address**

12200 Beech Daly

Redford, MI 48239

[NO COUNTRY SPECIFIED]

**Do you have any additional comments or uploads you would like to provide?**

YES

**Additional Information**

have reached out to Michelle Varran at the Wayne County Health Department about water testing. I am submitting this report with "samples not taken as required" so I can get this report to EGLE. If Wayne County wants samples taken, I will inform you of that and the results. Since the discharge was completed in short order, I did not do an "initial" report but went straight to this "final" report.

**Upload additional information, as needed.**

NONE PROVIDED

**Comment**

NONE PROVIDED

# Submission Complete

---

## Report of Discharge (CSO/SSO/RTB)

Submission [HQ1-8WST-GNQ69](#) Revision 1 Form Version 1.15

## **Appendix B6**

### **Farmington Investigation Records**

# WATER & SEWER WORK ORDERS

## MAINTENANCE, SEWER LINES



### Customer Information

SWARTZ, KENNETH  
33600 SHIAWASSEE  
FARMINGTON, MI 48335  
(248) 251-8962

Work Order #: 03700  
Date Filed: 11/01/2024  
Scheduled Date:  
Scheduled By: JLEACH

### Work Description:

VERIFY HOUSE IS CONNECTED TO SANITARY SEWER AND NOT THE STORM.

### Work Results:

RAN DYE FROM DOWNSTAIRS TOILET, DYE WENT TO SANITARY SEWER ON SHIAWASSEE @ HILLCREST. MIKE, JACK, GREG, GUIBORD, JOSH 11/1/24

### Labor

Performed By	NAME	Hours	Description
00351	JACK WEST	1.75	
00319	CHRISTOPHER GUIBORD	1.75	
00325	GREGORY YOUNG	1.75	
00408	MICHAEL PESAVENTO	3.00	

### Inventory

Inventory Code	Description	Quantity	Units

### Equipment

Equipment Code	Description
20	VACTOR TRUCK 2020 FREIGHTLINER FL114SD
20.2	VACUUM PUMP - FEDERAL SIGNAL 2100I
13	VAN FREIGHTLINER 2022 GVWR 25500
72	Enclosed Van Trailer 1987 Tote Wagon TW 101 3,000#
72.1	RAPID VIEW IBAC SEWER CAMERA INSPECTION EQUIP.
15	RAM PROMASTER 2025

### Results / Comments:

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Completed By: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_



**DPW WORK ORDERS**

**DRAINAGE / CATCH BASIN**

**Customer Information**

FARMINGTON, MI 48335
----------------------

**Work Order #:** 03957  
**Date Filed:** 10/07/2025  
**Scheduled Date:**  
**Scheduled By:** JEnglen

**Work Description:**

CAMERA STORM LINE FROM PROSPECT TOWARD POWER RD AND LOOK FOR ILLICIT CONNECTION.

**Work Results:**

RAN CAMERA IN STORM LINE ON LEELANE FROM PROSPECT HEADING WEST PASSED ADDRESS 32116. ALMOST MADE IT TO POWER ROAD, THERE IS CONCRETE DEBRIS WE CAN NOT GET AROUND. WE DID NOT SEE ANY ILLICIT CONNECTIONS OR PAPER DEBRIS.

CHRISTOPHER GUIBORD CAMERON TOMYN

#13 ,#72, 72.1  
10/31/25

**Labor**

Performed By	NAME	Hours	Description
00329	CAMERON TOMYN	1.75	
00319	CHRISTOPHER GUIBORD	1.75	

**Inventory**

Inventory Code	Description	Quantity	Units

**Equipment**

Equipment Code	Description
13	VAN FREIGHTLINER 2022 GVWR 25500
72	Enclosed Van Trailer 1987 Tote Wagon TW 101 3,000#
72.1	RAPID VIEW IBAC SEWER CAMERA INSPECTION EQUIP.

**Results / Comments:**

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Completed By: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



# DPW WORK ORDERS

## DRAINAGE / CATCH BASIN

### Customer Information

FARMINGTON, MI 48335
----------------------

**Work Order #:** 03958  
**Date Filed:** 10/07/2025  
**Scheduled Date:**  
**Scheduled By:** JEnglen

### Work Description:

CAMERA STORM LINE ON SHIAWASSEE FROM WARNER HEADING WEST TO GRAND RIVER

### Work Results:

WE CAMERA STORM LINE FROM WARNER ST ALL THE WAY TO GRAND RIVER ON SHIAWASSEE RD FOUND ALOT OF TAPS BUT NONE WITH RUNNING WATER ALSO FOUND NO PAPER DEBRIS.

CHRIS GUIBORD 8 HRS  
 CHRIS JACOB 8 HRS  
 GREG YOUNG 8 HRS

### Labor

Performed By	NAME	Hours	Description
00324	CHRISTOPHER JACOB	8.00	
00681	MARCUS SCHWEISTHAL	0.50	
00319	CHRISTOPHER GUIBORD	8.00	
00325	GREGORY YOUNG	8.00	

### Inventory

Inventory Code	Description	Quantity	Units

### Equipment

Equipment Code	Description
13	VAN FREIGHTLINER 2022 GVWR 25500
06	DUMP TRUCK 2025 FREIGHTLINER 108SD 39,000#
72	Enclosed Van Trailer 1987 Tote Wagon TW 101 3,000#
72.1	RAPID VIEW IBAC SEWER CAMERA INSPECTION EQUIP.
31	ARROW BOARD 2013 ST4825
14	PICKUP 2022 GMC 3500 4 X 4
11	PICKUP 2014 FORD F-250 4X4

### Results / Comments:

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Completed By: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Appendix B7**

**Inkster Investigation Records**



May 14, 2025

Mr. David Weber  
Valicor Environmental Service, LLC  
27140 Princeton Avenue  
Inkster, Michigan 48141

Re: Illicit Discharge Violation Notice

Dear Mr. Weber,

The City of Inkster (City) is in the process of making improvements to the existing combined sewer system which includes separating the combined sewer system serving the Valicor facility at the above address. The new storm sewer system will direct stormwater runoff from the site and the surrounding area to the Lower Branch of the Rouge River. The sanitary system will continue to direct collected flows to the Great Lakes Water Authority (GLWA) Wastewater Treatment Facility.

Valicor Environmental Services, LLC is in violation of the City of Inkster Illicit Discharge Ordinance, section §56.07. Illicit discharges at your site have been observed by City Staff. These discharges consist of waste from trucks to the storm catch basin on your site. A strong odor of gasoline has been observed at the storm sewer manhole in front of the address listed above. Laboratory analysis of water samples from this manhole shows a high concentration of Diesel Range Organics and Gasoline Range Organics. See lab results attached.

This Illicit Discharge Violation is deemed a Public Nuisance per City of Inkster ordinance §56.21. The discharge of pollutants such as Diesel and Gasoline Range Organics is a threat to public health, safety, and welfare. Only stormwater runoff is allowed to discharge to the catch basins located at this site and pollution prevention and good housekeeping methods shall be enforced to eliminate pollutants from entering the storm water sewer system. This includes cleaning up spills, keeping the parking area free of trash and debris, and enforcing pollution control and prevention plans.

Illicit discharges shall cease immediately, and monthly site inspections shall be conducted starting June 23, 2025. The inspections will confirm that waste is stored properly, any outside storage tanks have containment systems, spill kits are readily available, the site is generally free of debris and trash that could wash into the storm catch basin, and other pollution prevention and good housekeeping measures are in place. By June 23, 2025, a City of Inkster representative will contact you to schedule an inspection. If the City staff is unable to coordinate an inspection date,

Mr. David Weber, Valicor Environmental Service, LLC

May 14, 2025

Page 2 | 2

a warrant from the court shall be requested for access to the site per §56.08 at the sole cost to the violator.

Monitoring of the storm water flows in the storm sewers near this site will continue weekly and include the analysis of water samples by a qualified laboratory. The violator shall be responsible for the costs of collecting the samples and all laboratory fees. Failure to pay these expenses will result in criminal prosecution per §56.22 of the city ordinance to recover these costs.

You have the right to appeal this violation per City of Inkster ordinance §56.16. The notice of appeal must be received by the City of Inkster Department of Public Services within 30 days after the date of this notice.

Please contact me at 313-563-9774 if you have any questions.

Sincerely,

La-Toria Triplett, City of Inkster Deputy Director of Public Services

Byron Nolen, City of Inkster Mayor

City Council

Jerome Bivins, City of Inkster Director of Public Services

Todd Perkins, City of Inkster Attorney

Darin Carrington, City of Inkster Treasurer

Stephen Kuplicki, GLWA

Meghan McReynolds, EGLE



RTI Laboratories  
31628 Glendale St.  
Livonia, MI 48150  
TEL: (734) 422-8000  
Website: [www.rtilab.com](http://www.rtilab.com)

Friday, March 14, 2025

Zane Marougy  
Alfred Benesch & Company  
1155 Brewery Park Blvd  
Suite 240  
Detroit, MI 48207  
TEL: (313) 963-0612  
FAX:

RE: Storm Water Analysis  
Work Order #: 2502255  
Dear Zane Marougy:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "John Stevens".

John Stevens  
Project Manager



# CHAIN OF CUSTODY

PAGE: 1	OF: 1
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## RTI LABORATORIES

**Environmental Sciences Division**31628 Glendale Street  
Livonia MI, 48150**Materials Testing Division**33080 Industrial Road  
Livonia, MI 48150PHONE: (734) 422-8000  
FAX: (734) 422-5342  
www.rtilab.comRTI WORK ORDER NO: **2502255**

Please Include Email Address of Report Recipient !!!

SUBMITTING COMPANY: <b>Benesch</b>		REPORT TO (Name): <b>Carrie Smalley / Zane Marougy</b>	BILL TO:
PROJECT NAME:	PROJECT #:	QUOTE #: <b>30124</b>	COMPANY:
SAMPLING LOCATION (STATE or COUNTRY): <b>Inkster, MI</b>		ADDRESS:	ADDRESS:
SPECIAL INSTRUCTIONS / COMMENTS:		CITY, STATE, ZIP:	CITY, STATE, ZIP:
		PHONE: <b>313 963 0612</b>	P.O NUMBER:
		EMAIL (OR FAX IF NO EMAIL AVAILABLE): <b>Csmalley@benesch.com Zmarougy@benesch.com</b>	

SAMPLER'S PRINTED NAME: <b>Marcellus Travers</b>		SAMPLER'S SIGNATURE: <i>M. Travers</i>		TESTS REQUESTED										COMMENTS Methanol Preserved Weights HOT Sample Notation Additional Sample Description Air Volume, etc											
ITEM NUMBER	SAMPLE I.D.	DATE SAMPLED	TIME SAMPLED (24-hour format)	MATRIX CODE (see codes below)	NBR OF BOTTLES	NBR OF CONTAINERS AND PRESERVATIVES							METALS		PCB	DRO/ORO	VOC	GRO	pH Acceptable? Y/N n/a (Lab only)						
						NONE	HCL	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Methanol	OTHER													
1	VST-1	2-24-25	1:30pm	W	1			✓																	
2	VST-2	2-24-25	1:30pm	W	1			✓																	
3	VST-3	2-24-25	1:30pm	W	1																				
4	VST-4	2-24-25	1:30pm	W	2			✓																	
5	VST-5	2-24-25	1:30pm	W	2			✓																	
6	VST-6	2-24-25	1:30pm	W	2																				
7	/																								
8	/																								
9	/																								
10	/																								

Relinquished By: <i>M. Travers</i>	Date: 2-24-25	Time: 15:19	Received By: <i>[Signature]</i>	Date: 2-24-25	Time: 15:19	REPORT TRANSMITTAL DESIRED:			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	<input type="checkbox"/> HARDCOPY (extra cost)	<input type="checkbox"/> FAX	<input checked="" type="checkbox"/> EMAIL	<input type="checkbox"/> ONLINE
ALL REPORTING IS VIA THE RTI "FLASHPOINT" ONLINE SYSTEM UNLESS OTHERWISE SPECIFIED						FOR LAB USE ONLY			
Temp of samples: <b>10.3</b> °C						On Wet Ice? <b>Ice packs</b>			
Comments: <b>COM Smith</b>						<b>M.T.</b>			
TURNAROUND DESIRED: Standard <input checked="" type="checkbox"/>		RUSH: Next BD <input type="checkbox"/>		2nd BD <input type="checkbox"/>		3rd BD <input type="checkbox"/>			
Note: RUSH requests will incur surcharges!									

Distribution: White - Lab, Pink - Field

See reverse side for Laboratory Terms and Conditions of Service

MATRIX CODES: A = AIR, SD = SOLID, DW = DRINKING WATER, SL = SLUDGE, GW = GROUNDWATER, SV = SOLVENT WASTE, L = LIQUID, W = WATER, O = OIL, WP = WIPE, WW = WASTE WATER, SW = SURFACE WATER, S = SOIL



# CHAIN OF CUSTODY

PAGE: 1	OF: 1
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## RTI LABORATORIES

### Environmental Sciences Division

31628 Glendale Street  
Livonia MI, 48150

### Materials Testing Division

33080 Industrial Road  
Livonia, MI 48150

PHONE: (734) 422-8000  
FAX: (734) 422-5342  
www.rtilab.com

RTI WORK ORDER NO: **250 2276**

Please include Email Address of Report Recipient !!!

SUBMITTING COMPANY: <b>Benesch</b>		REPORT TO (Name): <b>Carrie Smalley / Zane Marougy</b>	BILL TO:
PROJECT NAME:	PROJECT #:	QUOTE #: <b>30124</b>	COMPANY:
SAMPLING LOCATION (STATE or COUNTRY): <b>Inkster, MI</b>		ADDRESS:	ADDRESS:
SPECIAL INSTRUCTIONS / COMMENTS:		CITY, STATE, ZIP:	CITY, STATE, ZIP:
PHONE: <b>313 963 0612</b>		EMAIL (OR FAX IF NO EMAIL AVAILABLE): <b>Csmalley@benesch.com Zmarougy@benesch.com</b>	P.O. NUMBER:

SAMPLER'S PRINTED NAME: <b>Marcellus Travers</b>		SAMPLER'S SIGNATURE: <i>M. Travers</i>		TESTS REQUESTED										pH Acceptable? Y/N (Lab only)	COMMENTS Methanol Preserved Weights HOT Sample Notation Additional Sample Description, Air Volume, etc.			
ITEM NUMBER	SAMPLE I.D.	DATE SAMPLED	TIME SAMPLED (24-hour format)	MATRIX CODE (see codes below)	NBR OF BOTTLES	NBR OF CONTAINERS AND PRESERVATIVES						METALS	PCB			DRO/ORO	VOC	GRO
						NONE	HCL	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Methanol	OTHER						
1	VST-1a	2-25-25	12:00	W	1			✓					✓					
2	VST-2a	2-25-25	12:00	W	1								✓					
3	VST-3a	2-25-25	12:00	W	1									✓				
4	VST-4a	2-25-25	12:00	W	2		✓								✓			
5	VST-5a	2-25-25	12:00	W	2		✓									✓		
6	VST-6a	2-25-25	12:00	W	2										✓			
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

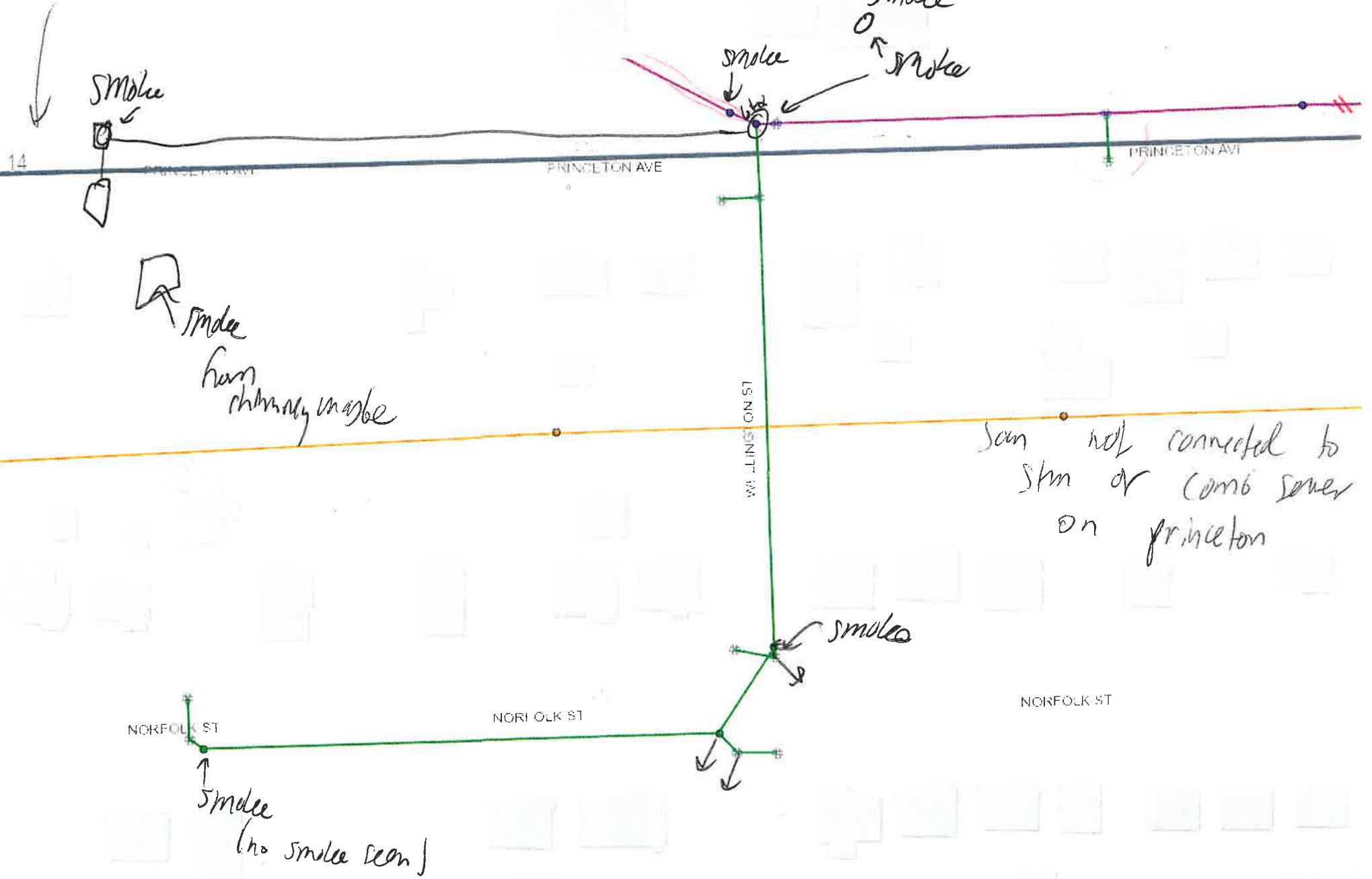
Relinquished By: <i>M. Travers</i>	Date: <b>2-25-25</b>	Time: <b>1:09 PM</b>	Received By: <i>[Signature]</i>	Date: <b>2-25-25</b>	Time: <b>1:30 PM</b>	REPORT TRANSMITTAL DESIRED:			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	<input type="checkbox"/> HARDCOPY (extra cost)	<input type="checkbox"/> FAX	<input checked="" type="checkbox"/> EMAIL	<input type="checkbox"/> ONLINE
ALL REPORTING IS VIA THE RTI "FLASHPOINT" ONLINE SYSTEM UNLESS OTHERWISE SPECIFIED						FOR LAB USE ONLY			
Temp of samples: <b>10.1-10.8</b> °C						On Wet Ice? <b>blue ice</b>			
TURNAROUND DESIRED: Standard <input checked="" type="checkbox"/> RUSH: Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Comments:			
Note: RUSH requests will incur surcharges!									

Distribution: White - Lab; Pink - Field

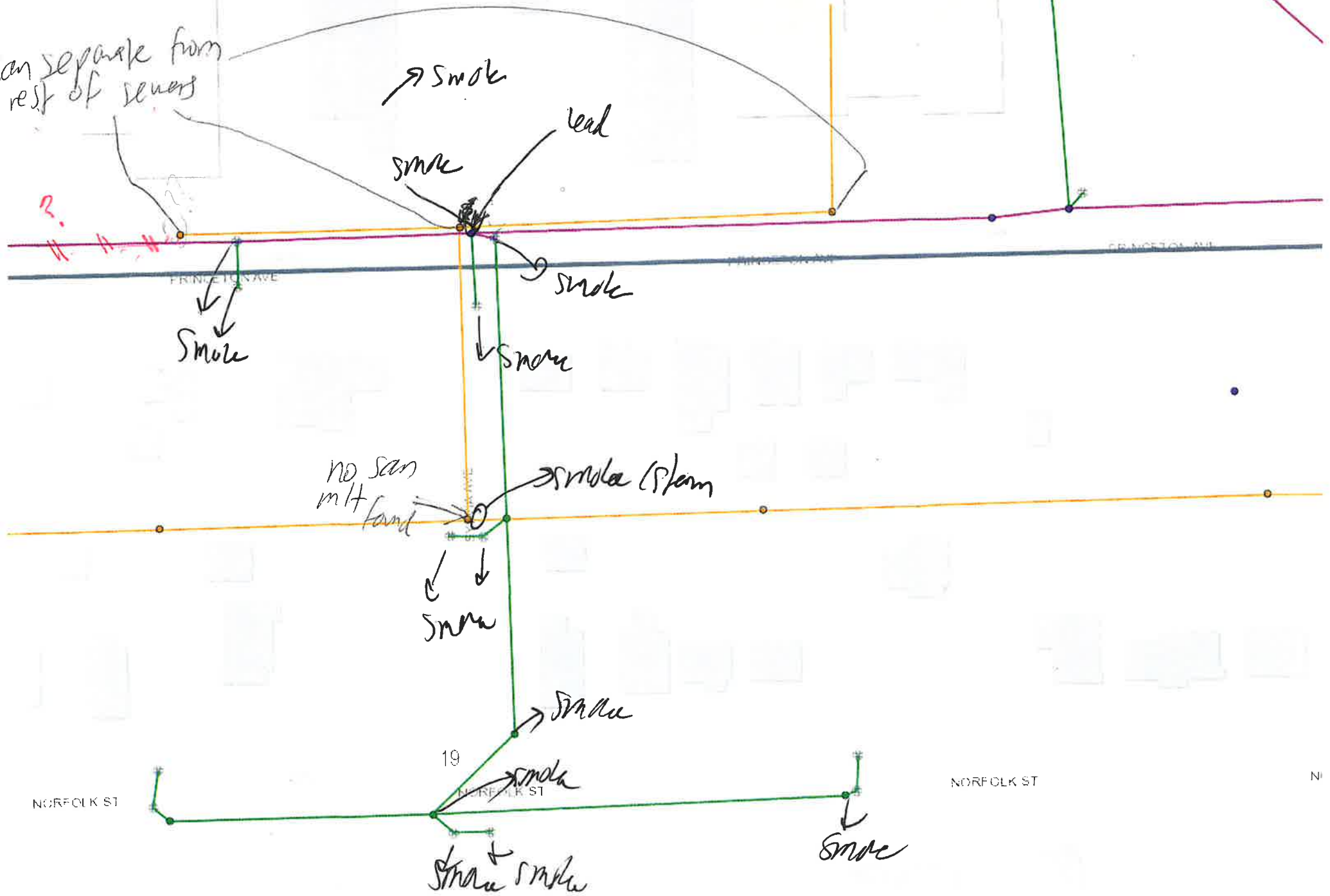
See reverse side for Laboratory Terms and Conditions of Service

MATRIX CODES: A = AIR, DW = DRINKING WATER, GW = GROUNDWATER, L = LIQUID, O = OIL, WW = WASTE WATER, S = SOIL  
 SD = SOLID, SL = SLUDGE, SV = SOLVENT WASTE, W = WATER, WP = WIPE, SW = SURFACE WATER

street narrows



an separate from rest of sensors



Smoke

lead

smoke

smoke

smoke

Smoke

no scan  
mlt  
found

smoke (steam)

smoke

smoke

smoke

smoke  
smoke

Smoke

NORFOLK ST

NORFOLK ST

NORFOLK ST

N

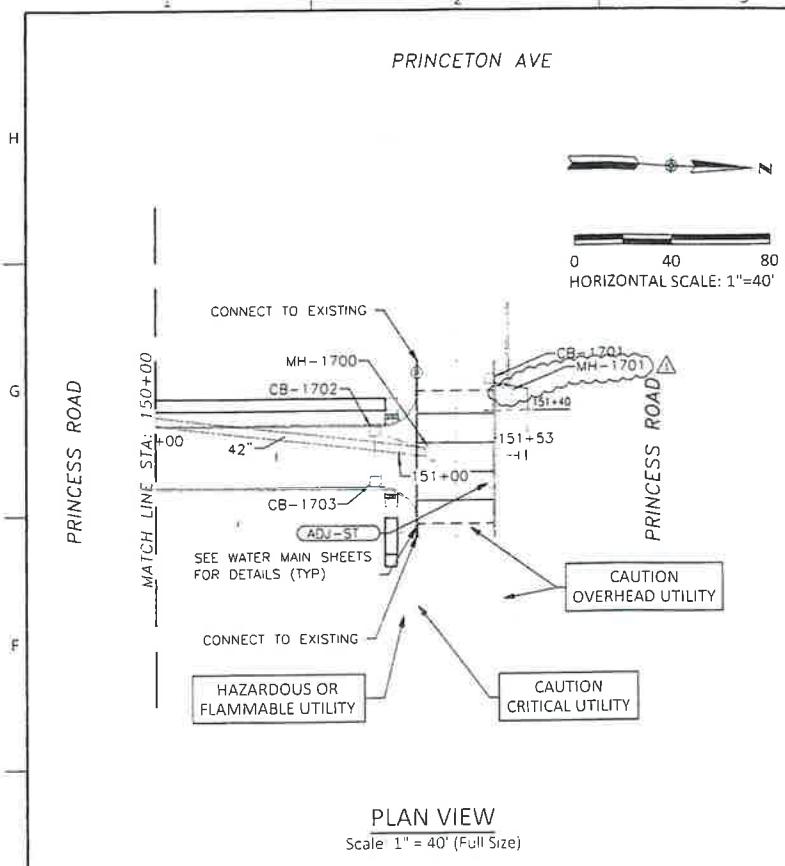
19

15 ST

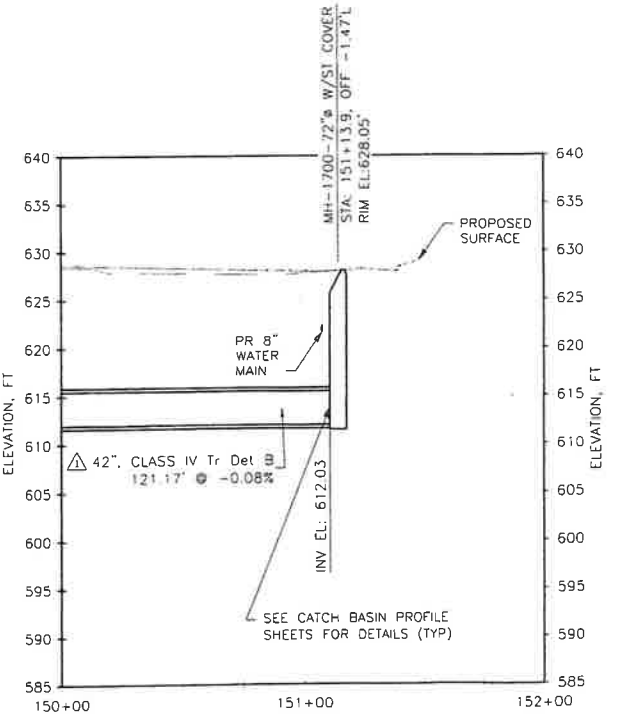
FRINGETON AVE

FRINGETON AVE

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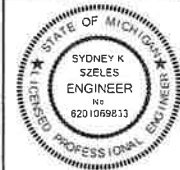
**PLAN VIEW**  
Scale 1" = 40' (Full Size)



**SEWER PROFILE**  
Horizontal Scale: 1" = 40'  
Vertical Scale: 1" = 10'

SEWER QUANTITIES - THIS SHEET		
PAY ITEM	QTY	UNIT
SEWER CL IV 12 INCH TR DET B	89	FT
SEWER CL IV 42 INCH TR DET B	115	FT
DR STRUCTURE COVER, ADJ. CASE 1	1	EA
DR STRUCTURE 48 INCH DIA	3	EA
DR STRUCTURE 72 INCH DIA	1	EA
DR STRUCTURE COVER, TYPE ST	2	EA
DR STRUCTURE COVER, TYPE CB	3	EA

NO	REVISIONS	DATE
1	BULLETIN 1	10/22/24



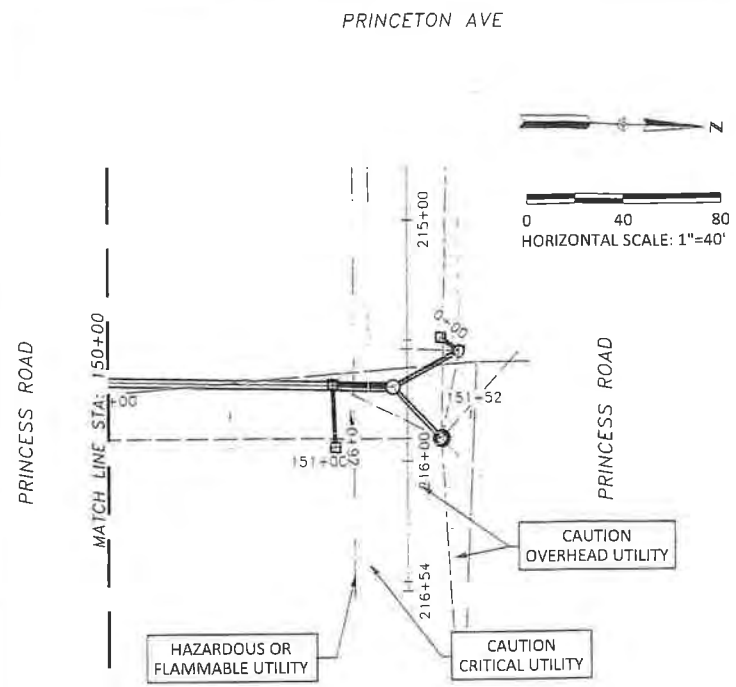
PLAN AND PROFILE  
PRINCESS ROAD  
STA: 150+00 TO STA: 151+52

CITY OF INKSTER  
E. OUTFALLS CSO ELIMINATION  
PHASE 2

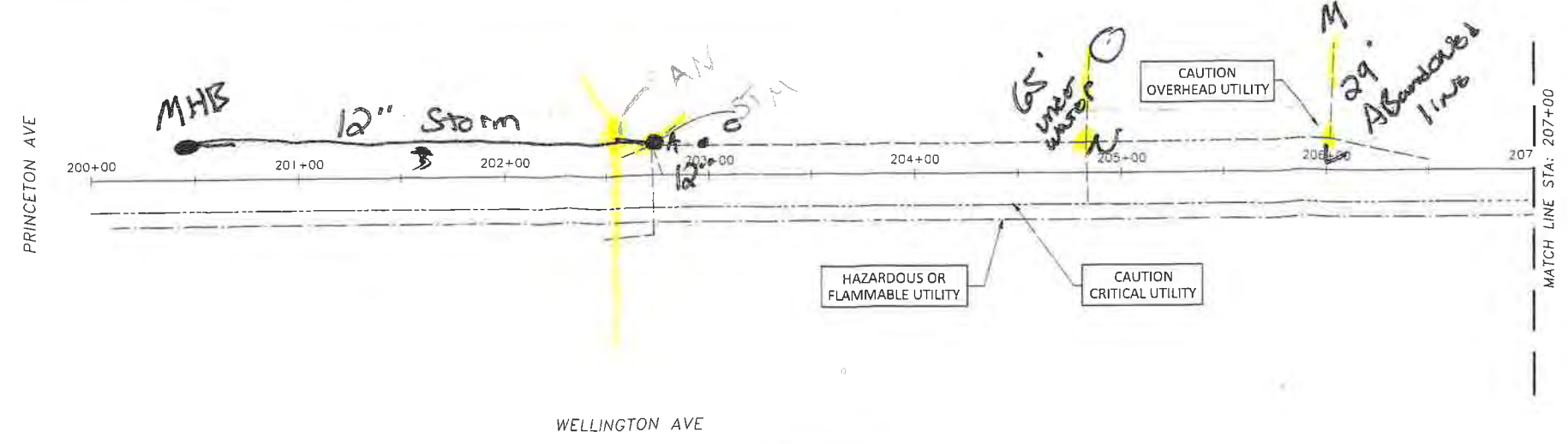


JOB NUMBER: 23-01-INK  
DATE: 09/23/24  
NAME: E02  
SHEET NO: C13

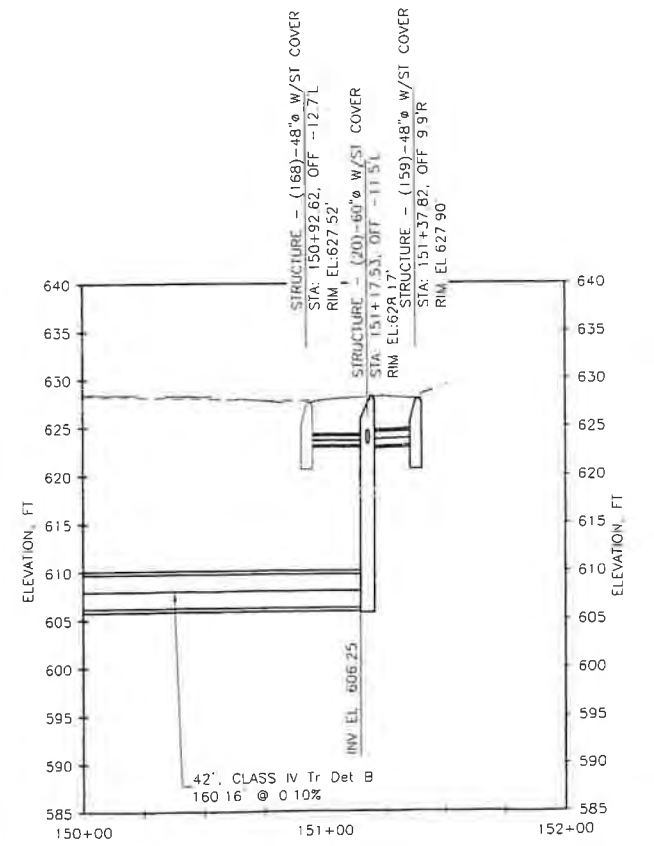
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**PLAN VIEW**  
Scale: 1" = 40' (Full Size)



**PLAN VIEW**  
Scale: 1" = 40' (Full Size)



**SEWER PROFILE**  
Horizontal Scale: 1" = 40'  
Vertical Scale: 1" = 10'

**SEWER PROFILE**  
Horizontal Scale: 1" = 40'  
Vertical Scale: 1" = 10'

NEW WORK QUANTITIES - THIS SHEET		
PAY ITEM	QTY	UNIT
CURB AND GUTTER INLET FILTER		EA
AGGREGATE BASE 4 INCH		SYD
AGGREGATE BASE 8 INCH		SYD
GEOTEXTILE SEPARATOR MOD		SYD
UNDERDRAIN PIPE OPEN-GRADED 6 INCH		FT
CONC PAVT WITH INTEGRAL CURB NONREINF 8 INCH MODIFIED		SYD
JOINT EXPANSION E2		FT
JOINT TIED TRG		FT
DRIVEWAY NONREINF CONC 8 INCH		SYD
DETECTABLE WARNING SURFACE		FT
CURB RAMP OPENING CONC		FT
SIDEWALK RAMP CONC 5 INCH		SFT
SIDEWALK CONC 4 INCH		SFT
SIDEWALK CONC 8 INCH		SFT
SLOPE RESTORATION TYPE A		SYD

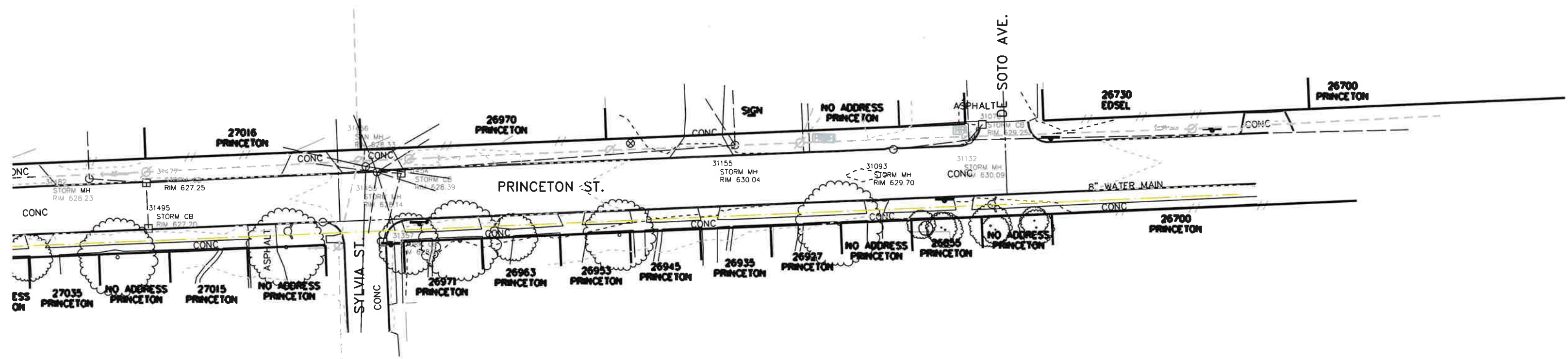
SEWER QUANTITIES - THIS SHEET		
PAY ITEM	QTY	UNIT
SEWER CL IV 12 INCH TR DET B		FT
SEWER CL IV 42 INCH TR DET B		FT
SEWER CL IV 48 INCH TR DET B		FT
SEWER CL IV 54 INCH TR DET B		FT
SEWER BULKHEAD 12 INCH		EA
DR STRUCTURE COVER ADJ CASE 1		EA
DR STRUCTURE COVER ADJ CASE 2		EA
DR STRUCTURE 48 INCH DIA		EA
DR STRUCTURE 60 INCH DIA		EA
DR STRUCTURE 72 INCH DIA		EA
MH RISER		FT
MH PRECAST TEE CL IV 60 INCH		EA
DR STRUCTURE COVER TYPE ST		EA
DR STRUCTURE COVER TYPE CB		EA
STEEL SHEET PILING TEMP		SFT

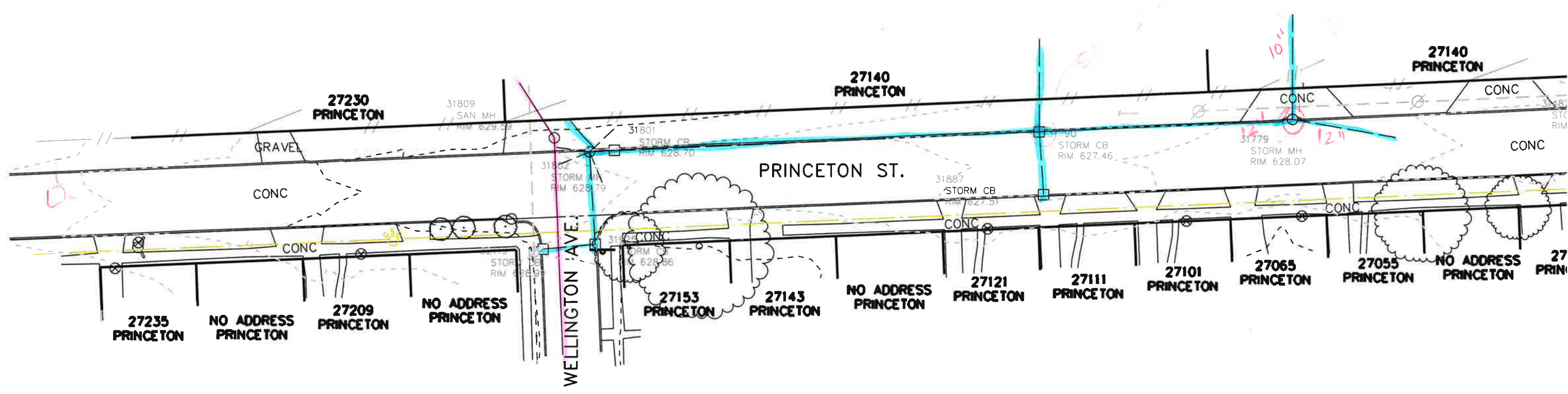
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NOT FOR CONSTRUCTION  
06/29/2023

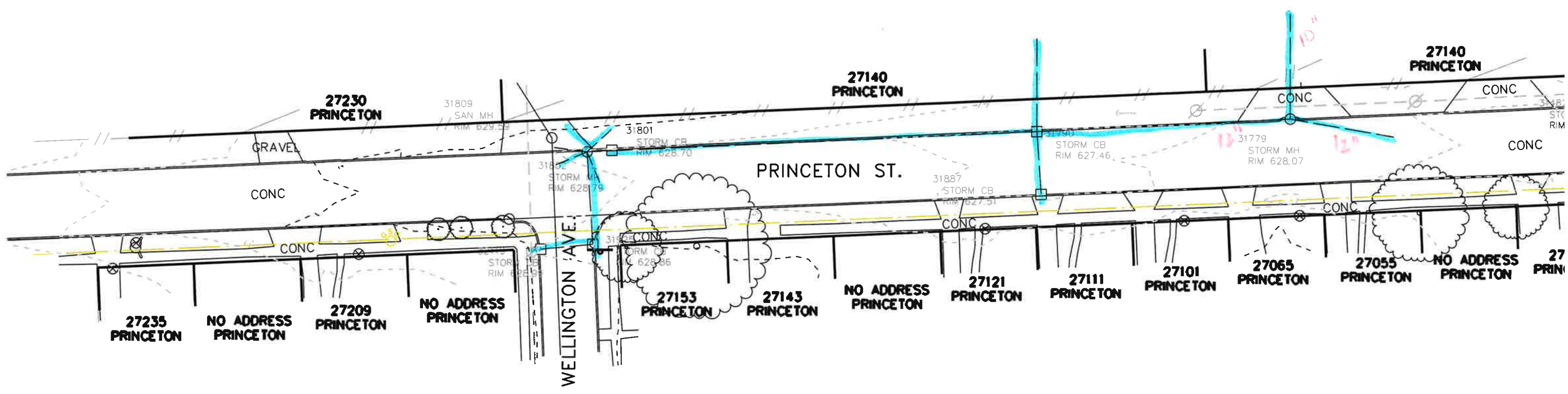
PLAN AND PROFILE  
 PRINCESS ROAD  
 CITY OF INKSTER  
 E. OUTFALLS CSO ELIMINATION  
 JOB NUMBER: 23-01\_INK  
 DATE: 06/29/23  
 NAME: EOP2

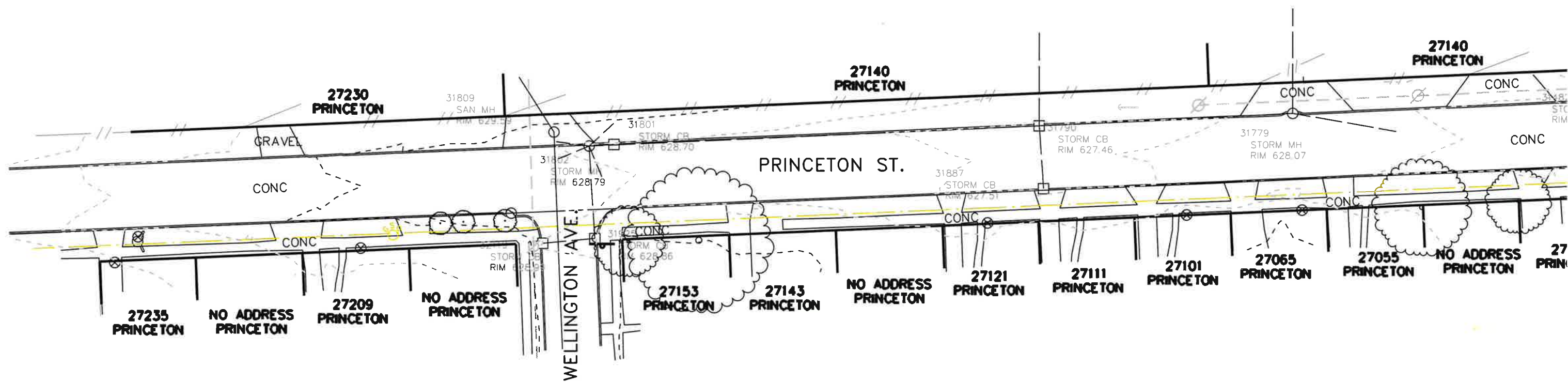












**Appendix C**  
**IDEP Training Records**

Appendix C1. Number of Field Staff by Permittee

Appendix C2. Sign-in Sheets for ARC-Sponsor Training

Appendix C3. Individual Community Training Records

## **Appendix C1**

### **Number of Field Staff by Permittee**

<b>Community</b>	<b>Number of field staff</b>	<b>Number of staff trained at the investigator level</b>	<b>Number of staff trained at observer level</b>
Beverly Hills	9	4	7
Bingham Farms	1	0	1
Birmingham	33	2	32
Bloomfield Hills	2	2	0
Bloomfield Township	33	17	20
Canton Township	21	10	21
Dearborn Heights	25	1	25
Farmington	12	12	12
Farmington Hills	45	1	25
Garden City	22	6	22
Henry Ford College	0	1	0
Inkster	20	2	20
Lathrup Village	0	4	0
Livonia	67	3	63
Melvindale	7	2	7
Northville	8	2	8
Northville Township	12	11	12
Novi	34	2	25
Oak Park	2	0	0
Plymouth	15	4	15
Plymouth Township	10	7	7
Redford Township	22	5	20
Southfield	49	4	46
Troy	68	2	51
Village of Franklin	0	0	0
Walled Lake	4	2	2
Wayne	16	3	2
Wayne County Airport Authc	24	5	0
West Bloomfield Township	35	1	6
Westland	40	4	4
<b>Total</b>	<b>636</b>	<b>119</b>	<b>453</b>

## **Appendix C2**

### **Sign-in Sheets for ARC-Sponsor Training**

## Alert Obsever

<b>Name</b>	<b>Organization</b>
Viacheslav Atkins-Dovbenko	Oakland County Parks And Recreation
Brad Beels	Macomb County Public Works
Garrett Beels	Macomb County - Public Works
Nick Brown	Charter Township Of Bloomfield
Aaron Bush	Oakland County Parks And Recreation
Brad Clark	Macomb County - Public Works
Krystin Cummings	Avondale School District
Joe DeLauder	
Shannon Ervin	Clinton River Watershed Council
Colin Gibbs	Oakland County
John Griffor	Macomb County
David Henard	Livingston County Drain Commision
Robbie Jeglum	Oakland County Parks And Recreation
Nate Jessee	Road Commission For Oakland County
Joel Joslin	Oakland County Parks And Recreation
William Lieberman	
Stephanie List	DLZ
Andrew Lozon	City of Allen Park
Xavier Marshall	City of Allen Park
RJ Mauldin	Macomb County Public Works
Jacob Mead	Charter Township Of Bloomfield
Jason Meister	Oakland County Parks And Recreation
Jamie Moore	Bingham Farms
Luke Murchie	Oakland County Parks And Recreation
Lydia Nicholas	Clinton River Watershed Council
Dave Patnaude	Oakland County Parks And Recreation
Jacob Pobursky	City of Allen Park
Lydia Rooney	Road Commission For Oakland County
Dathon Skelton	Oakland County Parks And Recreation
Sarah Stoolmiller	Oakland County
James Turner	City of The Village of Clarkston
Lisa Vanella	Oakland County Parks And Recreation
Doug Waldon	City of Keego Harbor
Richard D. Walker, Jr.	
Jason D. Mills	Clinton Twp DPW

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krystin.cummings@avondaleschools.org  
delauderj@oakgov.com  
ervins@crwc.org  
gibbsc@oakgov.com  
john.griffor@macombgov.org  
Dhenard@livgov.com  
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pardyk@oakgov.com  
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**Name**

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Stephen Baldante  
Nick Brown  
Aaron Bush  
Krystin Cummings  
Joe DeLauder  
Dustin Drake  
Colin Gibbs  
David Henard  
Robbie Jeglum  
Nate Jessee  
Joel Joslin  
William Lieberman  
Stephanie List  
Jacob Mead  
Jason Meister  
Luke Murchie  
Dave Patnaude  
Lydia Rooney  
Sarah Stoolmiller  
James Turner  
Lisa Vanella  
Doug Waldon  
Jason D. Mills  
William Lieberman

## Investigator

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	delauderj@oakgov.com
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	w.lieberman@clintontownship-mi.gov
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Oakland County Parks And Recreation	murchiel@oakgov.com
Oakland County Parks And Recreation	patnauded@oakgov.com
Road Commission For Oakland County	lrooney@rcoc.org
Oakland County	stoolmillers@oakgov.com
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City of Keego Harbor	waldon@keegoharbor.org
Clinton Twp DPW	j.mills@clintontownship-mi.gov
Clinton Twp DPW	w.lieberman@clintontownship-mi.gov

## Alert Obsever

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Stas Bialecki	Washtenaw County	Bialeckis@washtenaw.org
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Mikela Dean	Clinton River Watershed Council	mikela@crwc.org
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Gregory Boney	Wayne County Environmental Services
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Donald Boynton, Jr.	Charter Township Of Van Buren
Alex Brock	City of Trenton
Aaron Caldwell	City of Trenton
Mikela Dean	Clinton River Watershed Council
Carl Diccico	City of Trenton
Matthew Fiems	Wayne County
Elliot Michael Forde	Northville Township
Derek Frizzell	
Daniel Hamann	Charter Township Of Plymouth
Joshua Harris	City of Farmington Hills DPW
Michael Karll	Village of Milford
Joseph Kelley	City of Ecorse
Erik Koppin	Oakland County Parks And Recreation
Adam Kulinski	Village of Milford
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Andrew Lozon	City of Allen Park
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Xavier Marshall	City of Allen Park
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Steven R. Melow	Charter Township Of Plymouth
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Joseph Overaitis	Charter Township Of Plymouth
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Lamont Powell	Northville Charter Township
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Jeff Schmith	City of Trenton
James Scholten	Charter Township Of Plymouth
Roderick Soos	Livingston County Drain Commission
David Streeter	Washtenaw County
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Scott Taphouse	City of Dexter
David Thickstun	Charter Township Of Bloomfield
Richard D. Walker, Jr.	

Ryan Webb	
Brad Wethy	Oakland County Parks And Recreation
Juliana Witt	City of Detroit
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Dustin Drake	City of Dexter
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Troy Hall	City of Livonia

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[thall@livonia.gov](mailto:thall@livonia.gov)

## **Appendix C3**

### **Individual Community Training Records**



# BIRMINGHAM

A WALKABLE CITY

## Department of Public Services IDEP Alert Observer 1-10-24 9AM

PRINT NAME	SIGNATURE	DIVISION (CIRCLE )
Timothy Davis		PARKS <u>SSW</u> ARENA GOLF
Ron Dix		PARKS SSW ARENA GOLF
Brad McNab		<u>PARKS</u> SSW ARENA GOLF
Ali Al-Abbas		PARKS SSW <u>ENG</u> ARENA GOLF
MICHAEL Kowalczyk		PARKS <u>SSW</u> ARENA GOLF
Adam Bouse		PARKS <u>SSW</u> ARENA GOLF
Bryan Grulke		PARKS <u>SSW</u> ARENA GOLF
MICHAEL HUOT		PARKS <u>SSW</u> ARENA GOLF
Allister P		PARKS SSW ARENA GOLF
J. Rushing		PARKS <u>SSW</u> ARENA GOLF



# BIRMINGHAM

A WALKABLE CITY

Department of Public Services

IDEP Alert Observer 1-10-24 9AM

PRINT NAME	SIGNATURE	DIVISION (CIRCLE )	
Devin DeRoock	<i>Devin DeRoock</i>	<u>PARKS</u>	SSW
		ARENA	GOLF
Colin Quackenbush	<i>Colin Quackenbush</i>	<u>PARKS</u>	SSW
		ARENA	GOLF
Brandon Wynn	<i>Brandon Wynn</i>	<u>PARKS</u>	SSW
		ARENA	GOLF
Ross Leibel	<i>Ross Leibel</i>	<u>PARKS</u>	SSW
		ARENA	GOLF
Chris Morton	<i>Chris Morton</i>	PARKS	SSW
		ARENA	GOLF
<del>Christ</del>		PARKS	SSW
		ARENA	GOLF
		PARKS	SSW
		ARENA	GOLF
		PARKS	SSW
		ARENA	GOLF
		PARKS	SSW
		ARENA	GOLF



# BIRMINGHAM

A WALKABLE CITY

## Department of Public Services IDEP Alert Observer 1-10-24 11AM

PRINT NAME	SIGNATURE	DIVISION (CIRCLE )
Greg Foley		<input checked="" type="radio"/> PARKS <input type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Jeff Odett		<input checked="" type="radio"/> PARKS <input type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Derek Aldrich		<input checked="" type="radio"/> PARKS <input type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Josh Parks		<input checked="" type="radio"/> PARKS <input type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Ryan James		<input type="radio"/> PARKS <input checked="" type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
BRYAN HARDY		<input type="radio"/> PARKS <input type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Scott Bunders		<input type="radio"/> PARKS <input checked="" type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Dominique Lane Se		<input type="radio"/> PARKS <input checked="" type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Justin Burris		<input type="radio"/> PARKS <input checked="" type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF
Nathan Baranski		<input checked="" type="radio"/> PARKS <input type="radio"/> SSW <input type="radio"/> ARENA <input type="radio"/> GOLF



# BIRMINGHAM

A WALKABLE CITY

## Department of Public Services IDEP Alert Observer 1-10-24 11AM

PRINT NAME	SIGNATURE	DIVISION (CIRCLE )
Ryan Ballard		PARKS <u>SSW</u> ARENA GOLF
Brenden Meredith		PARKS <u>SSW</u> ARENA GOLF
Todd Burz		<u>PARKS</u> SSW ARENA GOLF
Brent Jackson		<u>PARKS</u> SSW ARENA GOLF
Scott Zielinski		<u>PARKS</u> SSW <u>ARENA</u> GOLF
Melissa Coate		PARKS SSW ARENA GOLF
Charles Thomas Markus		PARKS <u>SSW</u> ARENA GOLF
		PARKS SSW ARENA GOLF
		PARKS SSW ARENA GOLF
		PARKS SSW ARENA GOLF

Date March 19, 2025

Topic EGLÉ Storm Water Employee Training (www.youtube.com/watch?v=IGqvsztguRA)

Name	Phone	Email
Mike Greene	248-557-2600 ext 225	mgreene@lathrupvillage.org
Austin Colson	(313) 720-1250	Acolson@lathrupvillage.org
Steve Colliau	248-557-2600 ext. 247	Scolliau@lathrupvillage.org
Martha Bobean	248-557-2600 ext. 277	mbobean@lathrupvillage.org

### SIGN IN SHEET

Pollution Prevention and Good Housekeeping available on SEMCOG's website

NAME	DATE
• Tyrone Bohannon	9/4/25
• Harry Jones III	9/4/25
• Maleek Haccis	9/4/25
• Demorris Little	9/4/25
• James Hayes	9-4-25
• Kidell Morris	9-4-25
• <del>Richard Dyer</del>	9-19-2025
• Dajuan Hooker	9-19-25
• P. W. Taylor	9-19-25
• Daryl Davis Jr	09-19-25
• Jerome Bivins	09-19-25
• Don Joyce	9-24-25
• Curtis Bell	9-24-25
• Cortona Ballara	9-24-25
• LaToria Triplett	09-19-25
• Don Hooker	10-14-25
• D. D. Dyer	10-14-25
• Mason Russ	10-14-25
• Eric Russ	10-27-25
• Mevonté Wilson	10-27-2025

**From:** [Moore, Doug](#)  
**To:** [Gabriel, Trisha](#)  
**Subject:** FW: IDEP 2024 Attendees - Livonia MS4 Reporting  
**Date:** Tuesday, December 31, 2024 3:55:18 PM

---

In case you did not receive this. I did, twice!

**Douglas L. Moore, MSA**  
Assistant Director of Public Works  
City of Livonia | Department of Public Works  
(734) 466-2617  
dmoore@livonia.gov

---

**From:** Pasienza, Bailee <pasienza@semcog.org>  
**Sent:** Tuesday, December 31, 2024 11:15 AM  
**To:** Moore, Doug <dmoore@livonia.gov>; Moore, Doug <dmoore@livonia.gov>  
**Subject:** IDEP 2024 Attendees - Livonia MS4 Reporting

Good morning,

I hope this email finds you well and that you are staying warm this holiday season!

To assist with your community's MS4 Permit Requirements, SEMCOG has compiled the list of attendees from your community who participated in the 2024 Illicit Discharge Elimination Program (IDEP) and Pollution Prevention & Good Housekeeping (PPGH) trainings this fall. The attendee list is included below for your reference.

- o Ed Hoffman (IDEP Module 1&2 & PPGH Webinar)
- o Jason Ryan (IDEP Module 1&2)
- o Lindsay Szejkowski (IDEP Module 1&2)
- o Trisha Gabriel (PPGH Webinar)
- o Arnold Pollis (PPGH Webinar)
- o Arica Flores (PPGH Webinar)
- o Gary Garrison (PPGH Webinar)
- o Tim Makulski (PPGH Webinar)
- o Buzz Kirby (PPGH Webinar)
- o Samuel Sudduth (PPGH Webinar)
- o Jack Hirst (PPGH Webinar)
- o Brian Toman (PPGH Webinar)
- o Justin Okurowski (PPGH Webinar)
- o Gene Grishin (PPGH Webinar)
- o Annette Cesario (PPGH Webinar)
- o Joel Mechaiko (PPGH Webinar)
- o Paul LaLonde (PPGH Webinar)

- o Tom McDonald (PPGH Webinar)
- o Ryan Sabo (PPGH Webinar)
- o Robert VanOrden (PPGH Webinar)
- o Thomas Stadler (PPGH Webinar)
- o Kyle Holod (PPGH Webinar)
- o Chris Smith (PPGH Webinar)
- o Michael Jodway (PPGH Webinar)
- o Chris Kasprzyński (PPGH Webinar)
- o Robert Bame (PPGH Webinar)
- o Tim Fairgrieve (PPGH Webinar)
- o Nate Golding (PPGH Webinar)
- o Tom Liacakes (PPGH Webinar)
- o Zachary Flachsmann (PPGH Webinar)
- o Mark Vesel (PPGH Webinar)
- o Todd Zilincik (PPGH Webinar)
- o Alexis Drake (PPGH Webinar)

We truly appreciate your participation in these trainings! If you haven't had a chance yet, we'd love your feedback to help us improve future sessions. Please take a moment to complete the survey below:

IDEP 2024 Survey: <https://www.surveymonkey.com/r/WKQ6BGK>

Please feel free to reach out if you have any questions.

*Best,*

**Bailee Pasienza (she/her)**

Planner I, Environment and Infrastructure, SEMCOG

[pasienza@semcog.org](mailto:pasienza@semcog.org) / (313)-348-5589

*Subscribe to [SEMCOG's Environmental Exchange!](#)*

SEMCOG  
1001 Woodward Avenue, Suite 1400  
Detroit, MI 48226  
Main: 313-961-4266  
Visit: [www.semcog.org](http://www.semcog.org)

[Slow down, and be a champion for Safe Streets in Southeast Michigan](#)



DUE BY APRIL 19TH

HIGHWAY  
DEPARTMENT

CITY OF SOUTHFIELD P2GH BMP'S TRAINING [44 MINUTES]

BOTH TRAINING COURSES DONE @ E.O.C. 3/27/25

City of Southfield IDEP Training Sign-In Sheet [51 MINUTES]

Name	Department	Email	Date
KEVIN TURNQUIST	DPW HIGHWAY	Kturnquist@cityofsouthfield.com	3/27/25
Jeff Brown	Highway not a car	JBrown7187@gmail.com	3/27/25
Joe Tondreau	Highway	JoeTondreau2@gmail.com	3/27/25
Joan Trice	Hwy	strice@cityofsouthfield.com	3/27/25
Brian Chabal	Highway	oitsbc@yahoo.com	3-27-25
Rick Casey - Haha	Highway	rcasey@cityofsouthfield.com	3-27-25
JUSTIN BECK	Highway DEPT.	JBECK@CITYOFSOUTHFIELD.COM	3/27/25
SHANE WYATT	Hwy	SWYATT@CITYOFSOUTHFIELD.COM	3/27/25
David Aniol	Hwy	daniol@icloud.com	3-27-25
Chris Diaz	Hwy	CDiaz@cityofsouthfield.com	3-27-25
JACK CAUANAUGH	HWY	Jcauanaugh@cityofsouthfield.com	3-27-25
CHRIS WOOD	HWY	CWOOD@cityofsouthfield.com	3-27-25
KEVIN SNOWDON	HWY	Adrox7x@gmail.com	3-27-25
Adam Droelle	HWY	Adrox7x@gmail.com	3-27-25
Cody Endeen	HWY	endeen@gmail.com	3-27-26
<del>Walter Wilson</del>	<del>HWY</del>	<del>Wwilson@cityofsouthfield.com</del>	<del>3-27-25</del>
SCOTT MARTIN	HWY	SMARTIN@CityofSouthfield.com	3-27-25
Derek Linville	HWY	DLinville@CityofSouthfield.com	3-27-25
Keith Bartell	Hwy	Keithbartell@gmail.com	3-27-25
BRIAN MURRAY	Hwy	briansmurray16@icloud.com	3-27-25
Sosh Potrykus	Hwy	spotrykus@gmail.com	3-27-25
Robert Wilkowski	Hwy	rwilkowski@cityofsouthfield.com	3-27-25
Vince Wilson	Hwy	VinceWilson99@yahoo.com	3-27-25







Date: 12/11/25

12.18.25

Trainer: Clinton River Watershed Council

Training Topic: IDEP Alert Observer Training (Illicit Discharge)

I have been oriented in this training.

I had the opportunity to ask questions about this new, or refresher, training topic.

Employee Name	Department	Employee Signature
Adler, Jason	Streets	—
Bovensiep, Kurt	Streets	<i>[Signature]</i>
Collins, Matthew	Streets	<i>[Signature]</i>
Crane, Tracey	Streets	<i>[Signature]</i>
Day, Arthur	Streets	<i>[Signature]</i>
Djurasaj, Thomas	Streets	<i>[Signature]</i>
Farnum, Troy	Streets	<i>[Signature]</i>
Gearhart, John	Streets	<i>[Signature]</i>
Herzek, Nick	Streets	<i>[Signature]</i>
Insana, Clifford	Streets	<i>[Signature]</i>
Krug, Benjamin	Streets	VAC
Lott, Jacob	Streets	<i>[Signature]</i>
Maes, Russell	Streets	<i>[Signature]</i>
McCallum, Mark	Streets	<i>[Signature]</i>
McSwain, Roberto	Streets	<i>[Signature]</i>
Mejia-Hilario, Christian	Streets	<i>[Signature]</i>
Owczarzak, Luke	Streets	<i>[Signature]</i>
Redcap, David	Streets	<i>[Signature]</i>
Retaskie, Jonathon	Streets	<i>[Signature]</i>
St. Onge, Kevin	Streets	VAC
Verstraete, Mike	Streets	<i>[Signature]</i>
Wiles, Richard	Streets	<i>[Signature]</i>
Yohe, William	Streets	<i>[Signature]</i>

Date: 12/11/25

12.18.25

Trainer: Clinton River Watershed Council



Training Topic: IDEP Alert Observer Training (Illicit Discharge)

I have been oriented in this training.

I had the opportunity to ask questions about this new, or refresher, training topic.

Employee Name	Department	Employee Signature
Bailey, Johnathan	Water	<i>[Signature]</i>
Baker, Brandon	Water	<i>[Signature]</i>
Berend, Garrett	Water	<i>Garrett Berend 307</i>
<b>Bradish, Michael</b>	<b>Water</b>	
Castleman, Richard	Water	<i>[Signature]</i>
Cushingberry, Cody	Water	<i>[Signature]</i>
Depauw, Vincent	Water	<i>[Signature]</i>
<b>Fettes, Gregory</b>	<b>Water</b>	
Filer, Mitchell	Water	<i>[Signature]</i>
Frangedakis, Brandon	Water	<i>[Signature] 326</i>
Hutchins, Bradley	Water	<i>[Signature]</i>
Kilburn, Justin	Water	<i>[Signature] 346</i>
<b>Kohnert, Jon</b>	<b>Water</b>	
Lawrence, Johnny	Water	<i>[Signature]</i>
Leo, Shane	Water	<i>[Signature]</i>
<b>Logan, Brandon</b>	<b>Water</b>	
Maten, Nicolaus	Water	<i>[Signature]</i>
Maten, Ryan	Water	<i>[Signature]</i>
Molitor, Kevin	Water	<i>[Signature]</i>
Nastasy, Michael	Water	<i>[Signature]</i>
Pelletier, Joel	Water	<i>[Signature]</i>
Ray, Michael	Water	<i>[Signature]</i>
Schmidt, Jason	Water	<i>[Signature]</i>
<b>Smith, Austin</b>	<b>Water</b>	
Tuckfield, Michael	Water	<i>[Signature]</i>
Wendell, Stephen	Water	<i>[Signature] 303</i>
Willetts, Andy	Water	<i>[Signature] 30a</i>







# Alert Observer Training

Wednesday, October 27, 2021

PW Training Room

10:30a-11:30a

Name- please print	Signature
Kevin Clark	Kevin Clark
Scott Kahanec	[Signature]
MIKE BRITTON	[Signature]
Josh Worth	[Signature]
Jay Herdon	[Signature]
Jon Smith	[Signature]
Daniel Bayush	[Signature]
James West	James B. West
Isaac Conner	[Signature]
Rob Moyers	Rob Moyers
Christian Manley	Christian Manley
Brent Sprague	[Signature]
Chris Hanner	[Signature]
Anthony Evangelista	[Signature]
CURT FOSTER	[Signature]
Jeffrey Albert Michael (JAM)	[Signature]
Clint Hallman	[Signature]
Jacob Saunders	[Signature]
David Lance Arnold	[Signature]
BRAD BRAD	[Signature]
Roy Hamilton	[Signature]
Cary Kyle	[Signature]





**BLOOMFIELD TOWNSHIP IDEP TRAINING**

<b>FIELD STAFF</b>					
<b>FIRST NAME</b>	<b>LAST NAME</b>	<b>DEPT</b>	<b>In-House Awareness Training</b>	<b>Alert Observer Training</b>	<b>Investigator Training</b>
Kevin	Bartell	Building Maint.			
Robert	Dragoo	Building Maint.	6/28/2022		-
Gerald	Keller	Building Maint.	6/25/2019		-
Dean	Begley	Grounds Maint.	7/24/2018		2014
Hillary	Drotoz	Grounds Maint.	6/28/2022		2014
Sean	Boyce	Road			
James	Davis	Road	6/28/2022		2013
Tyler	Fenton	Road			
Tyler	Kennedy	Road			
Mason	Kinonen	Road			
Jeff	Krauskopf	Road	6/28/2022		-
Garrett	Kring	Road			
Marco	Nervo	Road	6/28/2022		2014
Nicholas	Pawelczyk	Road			
Bryant	Thickstun	Road			
Shane	Wells	Road			
Glenn	Wood II	Road	6/28/2022		2013
Shane	Beslock	Water	6/25/2019		2025
Nicholas	Brown	Water			2025
Josh	Eubanks	Water	6/28/2022		2014
Rick	Jenkinson	Water	6/25/2019		-
David	Keller	Water	6/28/2022		-
Craig	Lewis	Water	6/25/2019		-
Clayton	Markert	Water			2025
Patrick	McNamara	Water	6/28/2022		2014
Jacob	Mead	Water			2025
Steve	Sierota	Water	6/25/2019		-
David	Thickstun	Water			2025

<b>TRAINED OFFICE STAFF</b>					
<b>FIRST NAME</b>	<b>LAST NAME</b>	<b>DEPT</b>	<b>In-House Awareness Training</b>	<b>Alert Observer Training</b>	<b>Investigator Training</b>
Cory	Borton	EESD	6/28/2022		2020
Mark	Hendricks	EESD	7/24/2018		2017
Alex	Kozlowski	EESD		2019	2019
Adam	Pulter	EESD		2024	2024
Adam	Skotzke	EESD		2024	2024

Last Updated 1/26/26

## **IDEP ALERT OBSERVER TRAINING MODULE 1 – Webinar**

### ATTENDEES

Redford Township DPS – **November 7, 2024** – Wednesday – 9:30am to  
10:05am 12200 Beech Daly Road Redford, MI 48239

### Water and Sewer

- 1) Shaun Morton
- 2) Sean Senkbeil
- 3) Devin Smith
- 4) Justin Stephison
- 5) Kyle Watts
- 6) Steven Hamilton
- 7) Charles Randall
- 8) Ryan Randall
- 9) Zachary Fields
- 10) Adam Carver
- 11) Josh Gardella
- 12) Michael Haynes Jr.

### Central Maintenance

- 1) Grant Davis
- 2) Jim Jerore
- 3) Kathy Swiney
- 4) Salvatore Giuliano

### Parks

- 1) Chris King
- 2) Matt Szanti

### Glenhurst

- 1) Nick Hawthorne
- 2) Cody Moore
- 3) Mark Winiecke

## **IDEP INVESTIGATOR MODULE 2 (MOD 1 IS A PREREQUISITE)**

**IN PERSON**

## ATTENDEES

Canton Township Department of Public Works – November 13, 2024 – 1:00pm to 4:00pm  
4847 South Sheldon Road, Canton, MI 48188

- 1) Sean Senkbeil – Water and Sewer
- 2) Shaun Morton – Water and Sewer
- 3) Nick Hawthorne – Glenhurst
- 4) Cody Moore – Glenhurst
- 5) Chris King – Parks

## **Appendix D**

### **Pollution Complaint Documentation**

Appendix D1. Canton Township Pollution Complaint Documentation

Appendix D2. Bloomfield Township Pollution Complaint Documentation

Appendix D3. Plymouth Township Pollution Complaint Documentation

Appendix D4. Farmington Hills Pollution Complaint Documentation

Appendix D5. Livonia Pollution Complaint Documentation

Appendix D6. Novi Pollution Complaint Documentation

**Appendix D1**

**Canton Township Pollution Complaint Documentation**



## John Selmi

---

**From:** Sexton, Kathleen (EGLE) <SextonK3@michigan.gov>  
**Sent:** Tuesday, June 11, 2024 2:11 PM  
**To:** John Selmi  
**Subject:** FW: PEAS 30396 Canton 20 gallon diesel spill flushed down storm drain  
**Attachments:** PEAS - 30396 - Landscaping company flushing spilled diesel down storm drain - Wayne.pdf

**Importance:** High

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

Hi John – forwarding you the attached PEAS report so I can get it to you now. I will be following up with a debrief of my phone call with the fire department.

Thanks,  
Kathleen

*Kathleen*

**Kathleen Sexton**

Environmental Quality Analyst  
Municipal Storm Water Program  
Warren District Office | 27700 Donald Court Warren, MI 48092  
Water Resources Division  
Michigan Department of Environment, Great Lakes, and Energy  
(586) 206-2699 | [SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)



.....  
Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)

## John Selmi

---

**From:** John Selmi  
**Sent:** Monday, June 17, 2024 10:38 AM  
**To:** John Selmi  
**Subject:** RE 30396 Canton 20 gallon diesel spill flushed down storm drain

---

**From:** John Selmi <john.selmi@cantonmi.gov>  
**Sent:** Wednesday, June 12, 2024 7:59 AM  
**To:** Roy Hamilton <roy.hamilton@cantonmi.gov>; Brad Byrd <brad.byrd@cantonmi.gov>  
**Cc:** Lisa Hugan <lisa.hugan@cantonmi.gov>; Alexa Clark <alexa.clark@cantonmi.gov>; Emma Kramer <emma.kramer@cantonmi.gov>  
**Subject:** FW: PEAS 30396 Canton 20 gallon diesel spill flushed down storm drain

Please see email below from EGLE regarding yesterdays event .  
If you should have further questions please reach out. I will also put this in the MS-4 folder  
Thanks.

---

**From:** Sexton, Kathleen (EGLE) <SextonK3@michigan.gov>  
**Sent:** Tuesday, June 11, 2024 2:47 PM  
**To:** John Selmi <john.selmi@cantonmi.gov>  
**Subject:** RE: PEAS 30396 Canton 20 gallon diesel spill flushed down storm drain

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

Here you go:

EGLE received a PEAS complaint from the Canton Township fire department who reported Scorpion Lawn and Landscaping for flushing approximately 20 gallons of spilled diesel fuel down a storm drain near 2470 Bramble Ct. The release of fuel migrated through the storm sewer system to a retention pond south of the original site near Newton and Northwoods Dr. The fire department boomed off the original spill and followed the drain down to the retention pond and boomed that off as well. As of that time the spill was contained. EGLE spoke to the Fire Department at 12:49 pm. FD said they are on the Wayne County HAZMAT team; they notified Wayne County, and the county assisted in proving info as to where the material would have migrated from the original spill. FD said they contacted their usual cleanup contractors, but they were unavailable. There were able to retain a local tow truck service to report to the scene and continue cleanup efforts. If the landscaping company refuses to pay for cleanup FD will recoup costs through the Township's code enforcement division. FD has been in contact with Township admin. PD was returning to take an incident report and insurance claim. FD will send a message and photos to EGLE when cleanup is completed.

*Kathleen*

**Kathleen Sexton**

## John Selmi

---

**From:** Scott Kahanec  
**Sent:** Wednesday, August 7, 2024 2:09 PM  
**To:** John Selmi; Brad Byrd  
**Subject:** FW: Oil spill pics

Today the Fire Department received a call of a possible oil spill at 42633 Joy Rd. It was confirmed that a used oil container had sprung a leak and was dripping onto the ground and into the storm system. DPW was asked to confirm all affected areas and verify that it was contained to the storm system. It was confirmed to only be in the storm system on property and isolated to the last catch basin before it entered the pond. Sanitary system looked clear as well as the neighbors to the south and to the east. Fortunately, the outlet pipe was full of mud and the oil could not reach the pond. The leaking oil container appears to have had a patch put on it to try and stop the leak as well as an absorbent sock around said container. It appears that the business owner was aware of the problem. Western Wayne Hazmat was informed and on site beginning their investigation and clean-up. Please see attached photos.

Thank you,



**Scott Kahanec**  
Water Supervisor  
4847 S. Sheldon Rd  
Canton, MI 48188  
734/397-1011  
[www.cantonmi.gov](http://www.cantonmi.gov)

---

**From:** Frank Palumbo <frank.palumbo@cantonmi.gov>  
**Sent:** Wednesday, August 7, 2024 9:22 AM  
**To:** Scott Kahanec <scott.kahanec@cantonmi.gov>; David Holloway Jr <david.holloway@cantonmi.gov>  
**Subject:** Oil spill pics

- [WIN\\_20240807\\_09\\_04\\_52\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_04\\_56\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_05\\_07\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_05\\_25\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_05\\_40\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_06\\_19\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_06\\_26\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_07\\_10\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_07\\_15\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_07\\_16\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_07\\_47\\_Pro.jpg](#)
- [WIN\\_20240807\\_09\\_07\\_56\\_Pro.jpg](#)

**Appendix D2**

**Bloomfield Township Pollution Complaint Documentation**

# BLOOMFIELD TOWNSHIP

## Storm Water Discharge Response & Investigation Report

Date of Incidence: August 23, 2024 Time: 3:22PM

Reported By: Paige Foster (Resident) Telephone: \_\_\_\_\_

Location of Complaint: 42931 Woodward Avenue Sidwell: 19-10-101-031

Homeowner Information: \_\_\_\_\_

Description of Complaint: Leaking Dumpster

### EES Department Investigation Notes

	Date
An email was received from a resident regarding a dumpster / trash compactor that is leaking behind the shopping plaza in the southwest corner of Woodward Avenue and Square Lake Road.	8/23/24
Township staff visited the site and took photos of the situation.	8/26/24

### Actions Taken

	Date
The email and photos were forwarded to the Ordinance Department for enforcement. Apparently, this was already known to the Ordinance Department and they were working with the property owner to get a new trash compactor onsite.	8/26/24
Ordinance Department indicated that the trash compactor has been replaced.	

Agencies Contacted	Name	Phone/Email	Date
OCHD			
MDEQ			

### Administrative Use Only

	Date
Report Prepared By: <u>Angel Hysinger / Cory Borton</u>	





**Appendix D3**

**Plymouth Township Pollution Complaint Documentation**

Charter Township of Plymouth

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: \_\_\_\_\_

Phone #: \_\_\_\_\_

Date: 05/28/24 Time: 4:02 pm

Location of Problem: Ann Arbor Rd and General Dr - intersection Offending Party (if known) \_\_\_\_\_

Nature of Problem (i.e. paper waste, odor, color, etc.): \_\_\_\_\_

Battery leaking on the roadway

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: \_\_\_\_\_

Initial Contact made to:

- 911
- City Dept. \_\_\_\_\_
- Wayne County (888) 223-2363
- Oakland County (248) 858-0931
- PEAS Hotline (State) 1-800-292-4706
- Other Dispatch

Additional Comments:

Fire dept responded to a report of a battery in the roadway leaking.

Investigation Summary

- Initial Investigation
- Follow-up Investigation

Date of Investigation: 05/28/24

Investigating Agency: Fire Department

Location of Discharge: \_\_\_\_\_

Crew Members:

Inman and Suiter

Investigation Location:

Intersection of Ann Arbor Rd and General Dr.

Observations (odor, color, volume, etc.):

Battery leaking onto the roadway

Actions Taken (dye testing, notification letter, etc.):

Hazard was removed and absorb-all was applied to the spilled contents

Were photos taken:  Yes  No

Agency Referred to: \_\_\_\_\_

Agency Contact: \_\_\_\_\_

Method of Communication:

- E-mail\*
- Letter/memo\*
- Phone

\*Attached copies

Content of Communication:

Date Corrected or Resolved: 05/28/24

Incident Supplement No: 240001553-001 (000) 	Report Type: Incident Report	Report By Personnel: Suiter, Dennis (298)	001
---	---------------------------------	--	-----

<b>PLYMOUTH TOWNSHIP FIRE DEPARTMENT</b> 9911 N. Haggerty Road Plymouth, MI 48170 Phone: 734-354-3220	
--	---

**Incident Details**

Alarm Date & Time <b>05/28/2024 15:50:55</b>	Arrival Date & Time <b>05/28/2024 15:55:35</b>	Controlled Date & Time	Last Unit Cleared Date & Time <b>05/28/2024 16:02:26</b>
Response Time <b>00:04:40</b>	Priority Response? <b>No</b>		
Incident Type <b>422 - Chemical spill or leak</b>	Fire Dept. Station <b>ST1</b>	Shift <b>A-SHIFT A</b>	
Aid Given or Received <b>N - None</b>			
Action Taken 1 <b>86 - Investigate</b>	Action Taken 2 <b>45 - Remove hazard</b>	Action Taken 3	
Apparatus - Suppression Count <b>2</b>	Apparatus - EMS Count	Apparatus - Other Count	
EMS Provided? <b>No</b>	Civilian Casualty? (Count) <b>No</b>	Personnel Casualty? (Count) <b>No</b>	
Property Use <b>963 - Street or road in commercial area</b>	Mixed Use -		
Property Loss <b>\$0.00</b>	Property Value <b>\$0.00</b>	Contents Loss <b>\$0.00</b>	Contents Value <b>\$0.00</b>

**Location**

Location Type <b>Intersection</b>	Address <b>E ANN ARBOR RD &amp; GENERAL DR</b>	City, State Zip Code <b>Plymouth Twp, MI 48170</b>
District <b>Station #1</b>	Section No	Census Tract <b>562900</b>
CAD Mapindex	Directions <b>E ANN ARBOR RD</b>	Latitude <b>42.3590247</b>
		Longitude <b>-83.4569862</b>

**Situation**

Initial Dispatch Code <b>9 - Special incident type</b>	Final Dispatch Code <b>422 - Chemical spill or leak</b>	Incident Delay
Incident Reported By	Response Type	Critical Incident? <b>No</b>
		Team Mobilized? <b>No</b>

**Resources:**

**Unit: BATT1 - BATTALION CHIEF 1**

Unit Code <b>BATT1</b>	Response Time <b>00:01:57</b>	Dispatch Date <b>05/28/2024 15:53:38</b>	Enroute Scene Date <b>05/28/2024 15:53:40</b>	Arrival Date <b>05/28/2024 15:55:35</b>	Clear Date <b>05/28/2024 16:01:58</b>
Unit Priority Response? <b>Yes</b>	Number of People <b>0</b>	Apparatus Use <b>1 - Suppression</b>	Apparatus Type <b>60 - Support apparatus, other</b>		

**Unit: ENG1 - ENGINE**

Unit Code <b>ENG1</b>	Response Time <b>00:03:57</b>	Dispatch Date <b>05/28/2024 15:51:38</b>	Enroute Scene Date <b>05/28/2024 15:53:22</b>	Arrival Date <b>05/28/2024 15:55:35</b>	Clear Date <b>05/28/2024 16:02:26</b>
Unit Priority Response? <b>Yes</b>	Number of People <b>2</b>	Apparatus Use <b>1 - Suppression</b>	Apparatus Type <b>11 - Engine</b>		



Charter Township of Plymouth

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: \_\_\_\_\_

Phone #: \_\_\_\_\_

Date: 05/29/24 Time: 2:55 pm

Location of Problem: Sheldon Rd and Brookside Dr Offending Party (if known) GFL Waste Hauler

Nature of Problem (i.e. paper waste, odor, color, etc.): \_\_\_\_\_

GFL trash truck had what appeared to be a coolant and transmission fluid leak. The spill was approximately 300 ft long and had spilled down a sewer drain.

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: \_\_\_\_\_

Initial Contact made to:

- 911
- City Dept. \_\_\_\_\_
- Wayne County (888) 223-2363
- Oakland County (248) 858-0931
- PEAS Hotline (State) 1-800-292-4706
- Other Dispatch

Additional Comments:

Fire department dispatched to fluid spill from trash truck on Sheldon Rd.

Investigation Summary

- Initial Investigation
- Follow-up Investigation

Date of Investigation: 05/29/24

Investigating Agency: Fire Department

Location of Discharge: Sheldon Rd and Brookside Dr.

Crew Members:

Bonadeo, Mallari, Tiderington, Zmuda

Investigation Location:

Sheldon Rd. and Tonquish Creek south of Hartsough Dr.

Observations (odor, color, volume, etc.):

Spilled fluid entered a drain and entered the Tonquish Creek.

Actions Taken (dye testing, notification letter, etc.):

Absorbent placed around drain and in roadway.

Hazmat booms were dispersed into the creek where sheen was visible. Eight total booms were placed.

J&T Crova responded to event with absorbent and sweeper.

J&T Crova handled the recovery and disposal of the booms in the creek.

Were photos taken:  Yes  No

Agency Referred to: NRC and MDEQ

Agency Contact: \_\_\_\_\_

Method of Communication:

- E-mail\*
  - Letter/memo\*
  - Phone
- \*Attached copies

Content of Communication:

NRC report number 1400297

MDEQ notified - report taken by Autumn Henney

Date Corrected or Resolved: 05/29/24

Incident Supplement No: 240001567-001 (000) 	Report Type: Incident Report	Report By Personnel: Mallari, Jeffrey (408)	001
---	---------------------------------	--	-----

<b>PLYMOUTH TOWNSHIP FIRE DEPARTMENT</b> 9911 N. Haggerty Road Plymouth, MI 48170 Phone: 734-354-3220	
--	---

**Incident Details**

Alarm Date & Time <b>05/29/2024 14:54:28</b>	Arrival Date & Time <b>05/29/2024 15:10:20</b>	Controlled Date & Time	Last Unit Cleared Date & Time <b>05/29/2024 18:29:16</b>
Response Time <b>00:15:52</b>	Priority Response? <b>Yes</b>		
Incident Type <b>422 - Chemical spill or leak</b>	Fire Dept. Station <b>ST1</b>	Shift <b>C-SHIFT C</b>	
Aid Given or Received <b>N - None</b>			
Action Taken 1 <b>43 - Hazardous materials spill control and confinement</b>	Action Taken 2	Action Taken 3	
Apparatus - Suppression Count <b>2</b>	Apparatus - EMS Count	Apparatus - Other Count	
Personnel - Suppression Count	Personnel - EMS Count	Personnel - Other Count <b>1</b>	
EMS Provided? <b>No</b>	Civilian Casualty? (Count) <b>No</b>	Personnel Casualty? (Count) <b>No</b>	
Property Use <b>963 - Street or road in commercial area</b>	Mixed Use <b>-</b>		
Property Loss <b>\$0.00</b>	Property Value <b>\$0.00</b>	Contents Loss <b>\$0.00</b>	Contents Value <b>\$0.00</b>

**Location**


Location Type <b>Intersection</b>	Address <b>S SHELDON RD &amp; BROOKSIDE DR</b>	City, State Zip Code <b>Plymouth, MI 48170</b>
District <b>Station #3</b>	Section No	Census Tract <b>562700</b>
CAD Mapindex	Directions <b>S SHELDON RD</b>	Latitude <b>42.3626488</b>
		Longitude <b>-83.4794483</b>

**Situation**

Initial Dispatch Code <b>422 - Chemical spill or leak</b>	Final Dispatch Code <b>422 - Chemical spill or leak</b>	Incident Delay
Incident Reported By	Response Type	Critical Incident? <b>No</b>
		Team Mobilized? <b>No</b>

**Resources:**

<b>Unit: CAR1 - FIRE CHIEF</b>					
Unit Code <b>CAR1</b>	Response Time <b>00:00:02</b>	Dispatch Date <b>05/29/2024 16:43:50</b>	Enroute Scene Date	Arrival Date <b>05/29/2024 16:43:52</b>	Clear Date <b>05/29/2024 18:29:15</b>
Unit Priority Response? <b>No</b>	Number of People <b>0</b>	Apparatus Use <b>0 - Other assignment</b>	Apparatus Type <b>92 - Chief officer car</b>		

Incident Supplement No: 240001567-001 (000) 	Report Type: Incident Report	Report By Personnel: Mallari, Jeffrey (408)	<b>001</b>
--	---------------------------------	--	------------

<b>Unit: ENG1 - ENGINE</b>					
----------------------------	--	--	--	--	--

Unit Code	Response Time	Dispatch Date	Enroute Scene Date	Arrival Date	Clear Date
ENG1	00:15:16	05/29/2024 14:55:04	05/29/2024 14:55:06	05/29/2024 15:10:20	05/29/2024 18:29:16

Unit Priority Response?	Number of People	Apparatus Use	Apparatus Type
Yes	4	1 - Suppression	11 - Engine

Personnel 1	Position 1
282 - Bonadeo, Mark A	FF - Firefighter

Personnel 2	Position 2
408 - Mallari, Jeffrey	BC - Battalion Chief

Personnel 3	Position 3
421 - Tederington, Austin	

Personnel 4	Position 4
342 - Zmuda, Matthew J	FF - Firefighter

<b>Unit: RES1 - RESCUE 1</b>					
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Unit Code	Response Time	Dispatch Date	Enroute Scene Date	Arrival Date	Clear Date
RES1	00:19:30	05/29/2024 15:55:15	05/29/2024 15:55:19	05/29/2024 16:14:45	05/29/2024 17:44:31

Unit Priority Response?	Number of People	Apparatus Use	Apparatus Type
No	1	1 - Suppression	76 - ALS unit

Personnel 1	Position 1
286 - Guinn, Adam L	FF - Firefighter

<b>Narrative:</b>			
-------------------	--	--	--

Narrative Type	Narrative Description	Written By	Approved By
INCIDENT	Engine 1	64MALLARIJ	

Dispatched for a fluid spill.

Arrived to find a GFL trash truck that dumped the entire contents of what appeared to be coolant and transmission fluid from its motor onto Sheldon Road. The driver of the truck advised he was slowing down while approaching a stop light, when he heard a loud noise and saw fluid spilling all over the road. The driver called his supervisor to notify them of the incident.

Engine 1 crew began applying absorbent to the spill that was approximately 300 ft long. Fluid had spilled down a sewer drain. Absorbent was placed around the drain in an attempt to stop fluid from going into the sewer. Rescue 1 was notified to respond to the scene with extra bags of absorbent, as Engine 1 crew had utilized what was on Engine 1.

Plymouth City DPW advised that the spill entered into a creek just south of Hartsough drive. Engine 1 crew confirmed this was true, as a rainbow sheen was on top of the creek water.

Dispatch was informed to call the Red Center, so Engine 1 crew could speak to a HAZMAT team leader about the incident. Team Leader A. Burton called and initiated an action plan. FD was advised to continue with the cleanup, and to disperse HAZMAT booms into the creek where sheen was visible on the water. A. Burton later responded on scene. Eight total booms were placed in various areas of the creek.

The GFL truck was towed from the scene.

J&T Crova responded with a pallet worth of absorbent. All bags of absorbent were placed onto Sheldon Road in the area of the spill. J&T Crova had a sweeper respond to the scene to clean up all absorbent that was utilized. Engine 1 crew was advised by Adam (J&T Crova Crew Leader) that he would handle the recovery and disposal of the booms in the creek.

The National Response Center (NRC) was notified of the incident. A report was generated by Nathan from the NRC. The report number is 1400297.

The Michigan Department of Environmental Quality (MDEQ) was also notified of the incident. Report was given to Autumn Henney.

All units cleared.

Charter Township of Plymouth

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: David Sepell

Phone #: 313-452-1040

Date: 06/09/2025 Time: 12:00 p.m.

Location of Problem: 45555 Port St. Offending Party (if known) Brugola USA

Nature of Problem (i.e. paper waste, odor, color, etc.):

Unknown substance draining into the storm drain from dumpster located in loading/parking area.

Is this an Emergency? [X] No

[ ] Yes (then call 911)

Nature of Emergency:

Initial Contact made to:

- [ ] 911
[X] City Dept.
[ ] Wayne County (888) 223-2363
[ ] Oakland County (248) 858-0931
[ ] PEAS Hotline (State) 1-800-292-4706
[ ] Other

Additional Comments:

DPW notified by email.

Investigation Summary

- [X] Initial Investigation
[X] Follow-up Investigation

Date of Investigation: 06/09/2025

Investigating Agency: DPW

Location of Discharge: 45555 Port St

Crew Members:

Steve Melow

Investigation Location:

45555 Port St.

Observations (odor, color, volume, etc.):

Looks like an oil leaking out of a roll off filled with bolts. 2nd dumpster looks like rust running into the storm drain

Actions Taken (dye testing, notification letter, etc.):

Notification to building occupant by Ordinance Officer.

DPW followed up with an inspection of property on

06/12/25 - area was cleaned up and issue resolved

Pictures included.

Were photos taken: [X] Yes [ ] No

Agency Referred to: Wayne County

Agency Contact: Jennifer Depaulis

Method of Communication:

- [X] E-mail\* [ ] Letter/memo\* [X] Phone

\*Attached copies

Content of Communication:

Notified agency of our findings.

Date Corrected or Resolved: 06/12/25

Visel, Sarah

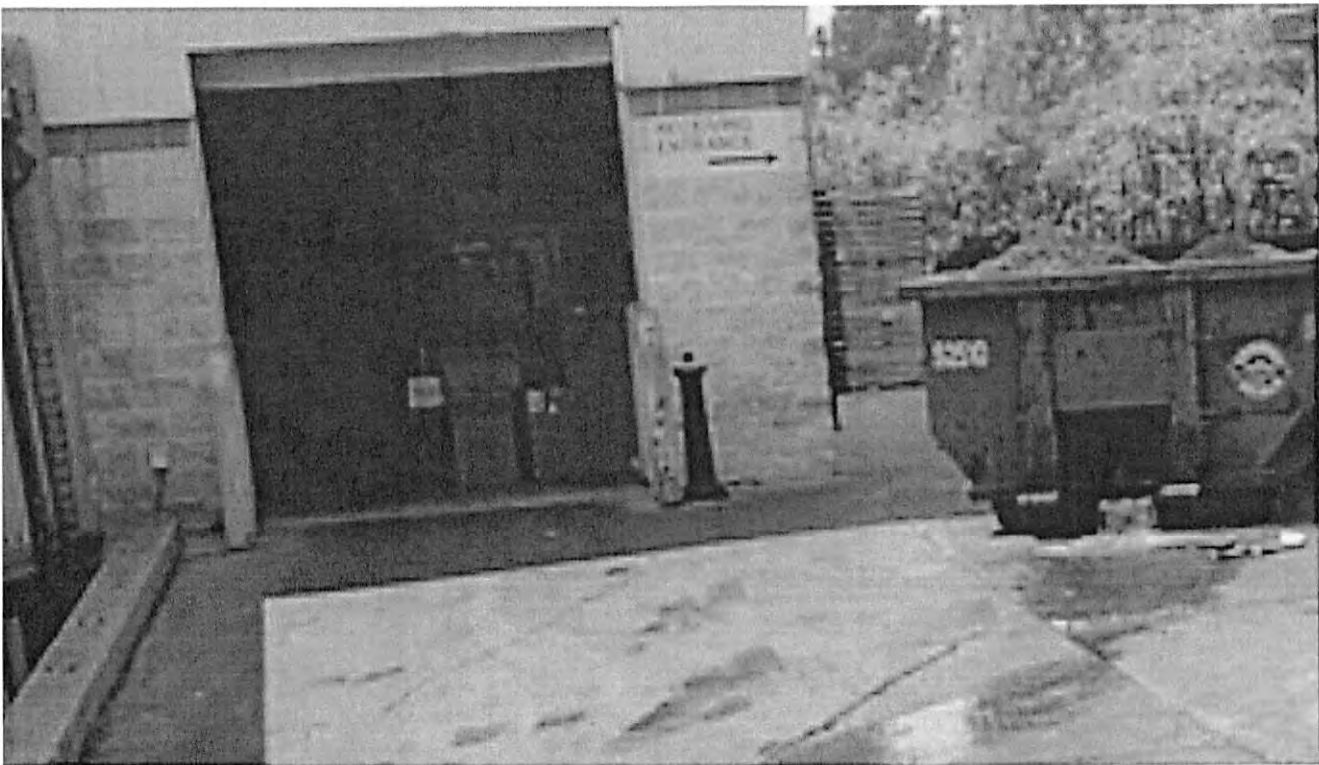
---

**From:** Dort, Amanda  
**Sent:** Monday, June 9, 2025 2:01 PM  
**To:** Melow, Steve; Fellrath, Patrick; Hamann, Dan; Visel, Sarah  
**Cc:** Volpe, Anne; Atkins, Daniel  
**Subject:** RE: RE:



## Request Submitted

Your request **#19204717** has been submitted



### OIL/FUEL SPILL

45555 Port St Plymouth, Michigan, 48170

● Open (📷) 6/9/25 1:58:20 PM

---

DPW went out and checked this out. They have attached pictures of what they have found. The first set of pictures they have attached look like some sort of oil coming out of a roll off filled with bolts on the

# OIL/FUEL SPILL

45555 Port St Plymouth, Michigan, 48170



Open



6/9/25 1:58:20 PM

---

DPW went out and checked this out. They have attached pictures of what they have found. The first set of pictures they have attached look like some sort of oil coming out of a roll off filled with bolts on the west side of the property. It looks like it goes in to the box with the plastic bag and then once it over flows it goes on to that absorbent mat. Its now just saturated and allowing it to run into storm drain.

The 2nd set of pictures is a waste management roll off and it appears to be leaking something. It almost looks like rust but it is also running into a storm drain. This is in the front on the east side of the loading docks.



Public



Wayne County, MI Neighbor



# 19204717



Wayne County

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I have submitted another request to Wayne County on their website.

Thank you,

**Amanda Dort**

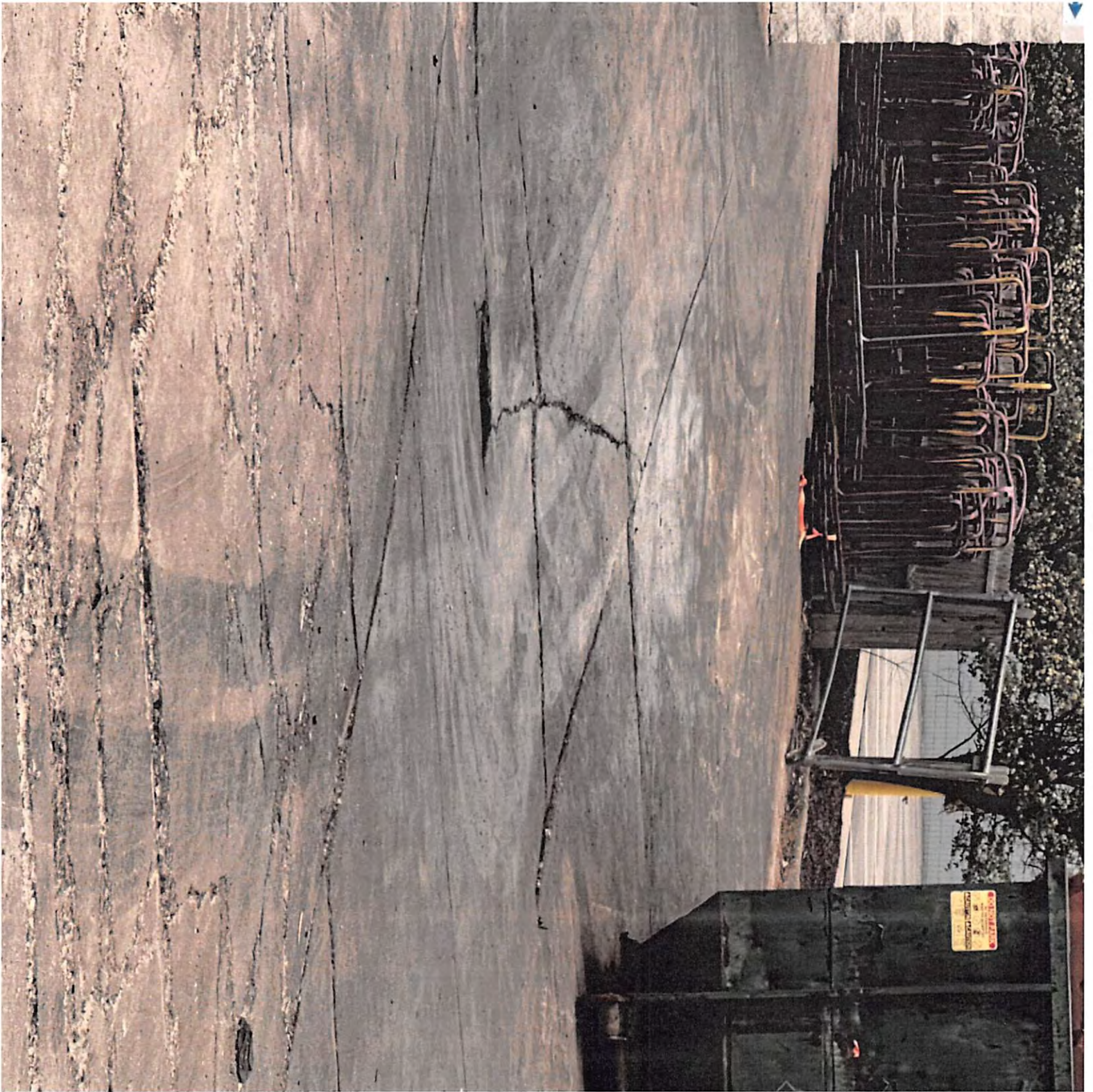
Plymouth Township Department of Public Works

9955 North Haggerty Road

Plymouth Township, MI 48170

734-414-1443

adort@plymouthtp.org



After

6/12/2005



Before  
6/9/2025

**From:** [Sexton, Kathleen \(EGLE\)](#)  
**To:** [Susan Thompson](#); [Patrick Cullen](#)  
**Cc:** [Fellrath, Patrick](#); [Steffler, Melinda \(EGLE\)](#)  
**Subject:** RE: Pollution Complaint - Illegal Dumping at 315 W Ann Arbor Rd  
**Date:** Thursday, April 18, 2024 3:12:18 PM

---

## EXTERNAL EMAIL

Thank you, Sue! This is great. I will upload this documentation to the site in MiEnviro and close out the complaint.

Take care,  
Kathleen

*Kathleen*

### **Kathleen Sexton**

Environmental Quality Analyst  
Municipal Storm Water Program  
Warren District Office | 27700 Donald Court Warren, MI 48092  
Water Resources Division  
Michigan Department of Environment, Great Lakes, and Energy  
(586) 206-2699 | [SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)



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Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)

---

**From:** Susan Thompson <Sthompso@waynecounty.com>  
**Sent:** Thursday, April 18, 2024 3:00 PM  
**To:** Sexton, Kathleen (EGLE) <SextonK3@michigan.gov>; Patrick Cullen <pcullen@waynecounty.com>  
**Cc:** pfellrath@plymouthtpw.org; Steffler, Melinda (EGLE) <STEFFLERM@michigan.gov>  
**Subject:** RE: Pollution Complaint - Illegal Dumping at 315 W Ann Arbor Rd

**CAUTION: This is an External email. Please send suspicious emails to [abuse@michigan.gov](mailto:abuse@michigan.gov)**

Hi Kathleen:

Attached is the documentation from the facility dye test that Wayne County performed at Victory Honda in 2003.

The inspection was performed as part of Wayne County's illicit connection elimination program efforts, which began in 1987, and continued with funding from the National Wet Weather

Demonstration Project and several CMI Grants. Water quality monitoring data, complaint histories, and other factors, were used to select areas for investigation in the Rouge River watershed. Once the areas were selected, Wayne County dye tested the commercial and residential facilities located in the priority areas.

If you have any questions or need further information, please do not hesitate to contact me.

Sue  
Susan Thompson MS  
Wayne County Department of Public Services  
Environmental Services Division  
3600 Commerce Court  
Wayne, MI 48184  
Phone: 734-326-5515  
Cell: 313-999-6266  
E-mail: [sthompso@waynecounty.com](mailto:sthompso@waynecounty.com)

---

**From:** Sexton, Kathleen (EGLE) <[SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)>  
**Sent:** Tuesday, April 16, 2024 7:53 AM  
**To:** Susan Thompson <[Stompso@waynecounty.com](mailto:Stompso@waynecounty.com)>; Patrick Cullen <[PCULLEN@waynecounty.com](mailto:PCULLEN@waynecounty.com)>  
**Cc:** [pfellrath@plymouthtwp.org](mailto:pfellrath@plymouthtwp.org); Steffler, Melinda (EGLE) <[STEFFLERM@michigan.gov](mailto:STEFFLERM@michigan.gov)>  
**Subject:** RE: Pollution Complaint - Illegal Dumping at 315 W Ann Arbor Rd

Hello Sue,

Thanks to both the County and Township for promptly following up on this complaint.

That is great to hear there was no evidence of an illicit discharge at the two outfalls or in the storm catch basins at the facility.

Can the county provide documentation of the dye testing of the facility which occurred on May 8, 2003? Do you know the motivation for conducting the dye testing at that time...was there a complaint?

Thank you,  
Kathleen

*Kathleen*

**Kathleen Sexton**  
Environmental Quality Analyst  
Municipal Storm Water Program  
Warren District Office | 27700 Donald Court Warren, MI 48092  
Water Resources Division  
Michigan Department of Environment, Great Lakes, and Energy

(586) 206-2699 | [SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)



Pollution Emergencies: 800-292-4706

EGLE Environmental Assistance Center: 800-662-9278

EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)

---

**From:** Susan Thompson <[Sthompso@waynecounty.com](mailto:Sthompso@waynecounty.com)>

**Sent:** Monday, April 15, 2024 4:39 PM

**To:** Sexton, Kathleen (EGLE) <[SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)>; Patrick Cullen <[pcullen@waynecounty.com](mailto:pcullen@waynecounty.com)>

**Cc:** [pfellrath@plymouthtp.org](mailto:pfellrath@plymouthtp.org)

**Subject:** RE: Pollution Complaint - Illegal Dumping at 315 W Ann Arbor Rd

**CAUTION: This is an External email. Please send suspicious emails to [abuse@michigan.gov](mailto:abuse@michigan.gov)**

Good afternoon Kathleen:

Wanted to make you aware that both Plymouth Township and Wayne County investigated the pollution complaint regarding Victory Honda 315 W. Ann Arbor Rd Plymouth Township, forwarded to Wayne County's attention on April 10, 2024.

Plymouth Township investigated on Wednesday April 10 and did not observe evidence of an illicit discharge from the facility at its outfall.

Wayne County investigated Thursday April 11 and today, Monday April 15, and did not observe evidence of illicit discharge in the facility parking lot catch basins, or outfall, or the outfall under Ann Arbor Road at the Tonquish Creek crossing. The outfall from Victory Honda's property is located on the left (east) bank of Tonquish Creek, downstream of the Ann Arbor Road crossing.

Wayne County dye tested the facility on May 8, 2003. There were no illicit connections found.

Based on the lack of visual evidence of illicit discharges at the time of the investigation (s), and the previous dye test results, no further investigation of the complaint is needed at this time.

If you have any questions or need further information about the investigation, please feel free to contact me.

Sue

Susan Thompson MS

Wayne County Department of Public Services

Environmental Services Division

3600 Commerce Court  
Wayne, MI 48184  
Phone: 734-326-5515  
Cell: 313-999-6266  
E-mail: [sthompso@waynecounty.com](mailto:sthompso@waynecounty.com)

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**From:** Sexton, Kathleen (EGLE) <[SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)>  
**Sent:** Wednesday, April 10, 2024 8:20 AM  
**To:** Patrick Cullen <[PCULLEN@waynecounty.com](mailto:PCULLEN@waynecounty.com)>  
**Cc:** Susan Thompson <[Sthompso@waynecounty.com](mailto:Sthompso@waynecounty.com)>; [pfellrath@plymouthtp.org](mailto:pfellrath@plymouthtp.org)  
**Subject:** Pollution Complaint - Illegal Dumping at 315 W Ann Arbor Rd

Hello Patrick Cullen,

I am sending this email as a follow up to our conversation this morning about the pollution complaint EGLE-WRD received regarding Victory Honda of Plymouth at 315 W Ann Arbor Rd.

EGLE received this information regarding the facility operations: Floor drains dumping directly into the storm drain. No oil trap or reservoir in building. Been like this for over 20 years. Management and technicians are aware, nobody cares. Shop regularly dumps engine oil, transmission fluid, brake fluid, coolant and brake cleaner solvents into drains. You can dump something down the shop drain and immediately watch it fall directly into the storm drain. Technicians make jokes about killing the sea turtles.

Can the county please investigate and let me know what you find out?

Also, I'm copying Patrick Fellrath with Plymouth Township to keep him in the loop since this facility is located within the township.

Thanks!  
Kathleen

*Kathleen*

**Kathleen Sexton**

Environmental Quality Analyst  
Municipal Storm Water Program  
Warren District Office | 27700 Donald Court Warren, MI 48092  
Water Resources Division  
Michigan Department of Environment, Great Lakes, and Energy  
(586) 206-2699 | [SextonK3@michigan.gov](mailto:SextonK3@michigan.gov)



## **Appendix D4**

### **Farmington Hills Pollution Complaint Documentation**



**Request Number:** 539942      **Associated WO Number:**

**Complaint**

**Code:** FHC\_ILLICIT\_DISCHARG

**Description:** Illicit discharge of water

**Region Code:** Grand River Ave

**Problem Address:** 39410 GRAND RIVER AVE

Details:	JAMJ, LLC (auto/muffler business. Amanda, Zoning Inspector was out a 38410 Grand River. Was caught pouring a clay like substance in the parking lot.
----------	--

**Date / Time Reported:** 5/1/2024 11:38:20 AM

**Intitiated By:** SMRTKA, BARB S.

**Caller Information**

Call	Name	Home Address	Home Phone	Work Phone	Cell Phone
545282	AMANDA (ZONING INSPECTOR)	UNKNOWN 39410 GRAND RIVER AVE FARMINGTON HILLS	48336		

Call	Questions	Answers

**Resolution**

**Closed Out By:** \_\_\_\_\_ **Date/Time Resolved:** \_\_\_\_\_

**Held Over for Day Shift Referred To Municipality Date / Time Reported:** \_\_\_\_\_

**Reported to Municipality:** \_\_\_\_\_ **Name of Contact:** \_\_\_\_\_

**Comments:**

**By Sonoga, Tyler : 8/5/2024 9:50:52 AM**

**Spoke with Amanda and went out that day to check for discharges but saw none when I got there either on parking lot or in catch basin.  
Will have to monitor in the future as they possibly cleaned up in between Amanda and my visits.**



**Request Number:** 535471      **Associated WO Number:**

**Complaint**

**Code:** FHC\_ILLICIT\_DISCHARG

**Description:** Illicit discharge of water

**Region Code:**

**Problem Address:**      28855 Orchard Lake

<b>Details:</b>	Sham Ice Cream has been cited for illegal dumping of dirty mop/grease water into the parking lot resulting in the runoff into a storm drain in the parking lot. Cited 3/2023 & 2/24. Joseph Bognar can be reached Tuesday thru Friday.
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**Date / Time Reported:** 3/1/2024 12:00:30 PM

**Intitiated By:** Berry, Tracy

**Caller Information**

Call	Name	Home Address	Home Phone	Work Phone	Cell Phone
540786	JOSEPH BOGNAR	28855 ORCHARD LAKE FARMINGTON HILLS	48834 248-520-9973		

Call	Questions	Answers

**Resolution**

**Closed Out By:** \_\_\_\_\_ **Date/Time Resolved:** \_\_\_\_\_

**Held Over for Day Shift Referred To Municipality Date / Time Reported:** \_\_\_\_\_

**Reported to Municipality:** \_\_\_\_\_ **Name of Contact:** \_\_\_\_\_

**Comments:**

**By Sonoga, Tyler : 8/5/2024 9:47:13 AM**

Went out after Joseph spoke with the owners and inspected the parking lot. At the time I did not see any additional dumping after he spoke with them, but will check back in the future.

**Leslie Rai**

---

**From:** Matthew Malone  
**Sent:** Monday, May 27, 2024 7:30 AM  
**To:** Judy Fletcher; Amanda Grenanco; Darryl Derocher; Leslie Rai; Dennis Randt; John Nolan  
**Subject:** FW: New CPR Blight Problem reported: Illegal Dumping

---

**From:** mmalone@fhgov.com <mmalone@fhgov.com>  
**Sent:** Monday, May 27, 2024 7:30:13 AM (UTC-05:00) Eastern Time (US & Canada)  
**To:** Matthew Malone <MMalone@fhgov.com>  
**Subject:** New CPR Blight Problem reported: Illegal Dumping

## A new problem report in the Blight category has been submitted

**Problem type:** Illegal Dumping  
**Submitted:** Fri May 24 21:34:31 2024  
**Reported by:**  
**Contact info (if included):**  
**Location (address or parcel ID):** 2310154002

**Details (if included):** There was construction work being performed in the area of 28715 Kendallwood that resulted in concrete runoff into the sewer drain away from that property. Not sure if done intentionally, but "illegal dumping" is the best fit reporting category. The concrete is over the road and accumulating near/on the storm drain. Concerned about effects of concrete in drain/blockages/appearance. Please review.

Visit the [CPR Manager](#) to view this reported problem

There is no! permits on file for any construction work. How to proceed? CAMS?

Tyler  
Pierce



**Request Number:** 542467      **Associated WO Number:**

**Complaint**

**Code:** FHC\_ILLICIT\_DISCHARG

**Description:** Illicit discharge of water

**Region Code:**

**Problem Address:**      28715 KENDALLWOOD DR

<b>Details:</b>	<b>This was a CPR Manager anonymous complaint dated Friday May 24, 2025. Per complaint - There was construction work being permed in the area of 28715 Kendallwood that resulted in concrete runoff into the sewer drain away from that property. Not sure if done intentionally, but "illegal dumping" is the best fit reporting category. The concrete is over the road and drain/blockages/appearance.</b>
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**Date / Time Reported:** 5/29/2024 11:13:03 AM

**Intitiated By:** SMRTKA, BARB S.

**Caller Information**

Call	Name	Home Address	Home Phone	Work Phone	Cell Phone
547829	AMANDA GRENANCO (ZONING OFFICER)	28715 KENDALLWOOD DR FARMINGTON HILLS	48334		

Call	Questions	Answers

**Resolution**

**Closed Out By:** \_\_\_\_\_ **Date/Time Resolved:** \_\_\_\_\_

**Held Over for Day Shift**    **Referred To Municipality**    **Date / Time Reported:** \_\_\_\_\_

**Reported to Municipality:** \_\_\_\_\_ **Name of Contact:** \_\_\_\_\_

**Comments:**

**By SMRTKA, BARB S.: 5/29/2024 11:16:40 AM**

**Per Amanda - There is no permits on file for any construction work.**

**By Sonoga, Tyler : 11/12/2024 10:47:16 AM**

**During inspection, no concrete was found in the manhole or on the street.**



**Request Number:** 542582      **Associated WO Number:**

**Complaint**

**Code:** FHC\_ILLICIT\_DISCHARG

**Description:** Illicit discharge of water

**Region Code:**

**Problem Address:**      28715 Kendallwood Dr.

<b>Details:</b> Tyler Sonoga recieved a call about concrete washout in road and possibly leaching into catch basin.
---

**Date / Time Reported:** 5/30/2024 9:40:37 AM

**Intitiated By:** PATTERSON, CHRISTOPHER J.

**Caller Information**

Call	Name	Home Address	Home Phone	Work Phone	Cell Phone
547944		UNKNOWN			

Call	Questions	Answers

**Resolution**

**Closed Out By:** \_\_\_\_\_ **Date/Time Resolved:** \_\_\_\_\_

**Held Over for Day Shift Referred To Municipality Date / Time Reported:** \_\_\_\_\_

**Reported to Municipality:** \_\_\_\_\_ **Name of Contact:** \_\_\_\_\_

**Comments:**

**By** PATTERSON, CHRISTOPHER J.: 5/30/2024 9:44:40 AM

Pierce swept the area, removing the concrete washout in the gutter. I checked two downstream stormwater catch basins and neither seemed to be affected or any evidence of concrete in the sump.

## Tyler Sonoga

---

**From:** Hahn, Nikita (EGLE) <HahnN1@michigan.gov>  
**Sent:** Friday, August 2, 2024 8:11 AM  
**To:** Tyler Sonoga  
**Cc:** Lott, Steven (EGLE); Primeau, Robert (EGLE)  
**Subject:** RE: 25755 Kilreigh Court - Farmington Hills

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Tyler,

Since this project involves earth change within 500 feet of a lake or stream, a Soil Erosion and Sedimentation Control (SESC) permit would be required, which is issued by Farmington Hills MEA. This SESC permit is required in addition to anything that Robert would require from the Resources side.

If you have any questions, feel free to reach out.

Thank you,  
Nikita

**Nikita Hahn**

Environmental Quality Analyst  
Industrial & Storm Water Unit | Water Resources Division | Warren District Office  
Michigan Department of Environment, Great Lakes, and Energy  
586-206-2964 | [HahnN1@michigan.gov](mailto:HahnN1@michigan.gov)

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**From:** Primeau, Robert (EGLE) <PRIMEAUR@michigan.gov>  
**Sent:** Thursday, August 1, 2024 4:35 PM  
**To:** Tyler Sonoga <TSonoga@fhgov.com>; Hahn, Nikita (EGLE) <HahnN1@michigan.gov>  
**Cc:** Lott, Steven (EGLE) <LottS3@michigan.gov>  
**Subject:** RE: 25755 Kilreigh Court - Farmington Hills  
**Importance:** High

Tyler, thank you for bringing this to our attention. Digging a new in-line pond to a stream needs a permit but is broadly unpermissible due to the impacts. If they are intending to release fish into it, they would likely be treated on DNR-regulated matters.

Either Steven Lott (compliance and enforcement) or myself can discuss this with the landowner either tomorrow or next week, if you have their contact information. We may need to require restoration of the shoreline.

We would advise that they stop because it is only going to increase the chances that they damage the stream enough that we will need to order restoration.

Because the municipality of Farmington Hills has assumed soil erosion and sedimentation control permitting, do you have the power to issue a stop work order, similar to what the County does in the communities they have SESC authority? I have included Nikita Hahn, who handles SESC and NOC issues on our end, to the conversation if she can be of help in this.

Robert Primeau  
(586) 256-7274 / [primeaur@michigan.gov](mailto:primeaur@michigan.gov)

---

**From:** Tyler Sonoga <[TSonoga@fhgov.com](mailto:TSonoga@fhgov.com)>  
**Sent:** Thursday, August 1, 2024 3:06 PM  
**To:** Primeau, Robert (EGLE) <[PRIMEAUR@michigan.gov](mailto:PRIMEAUR@michigan.gov)>  
**Subject:** 25755 Kilreigh Court - Farmington Hills

**CAUTION: This is an External email. Please send suspicious emails to [abuse@michigan.gov](mailto:abuse@michigan.gov)**

Hello Robert,

I got a call from a resident in Farmington Hills in the past week regarding a complaint on their neighbor digging next to an open stream in their back yards. I went out and met the resident Suzanne Zimmerly to discuss. It seems as though, their neighbors at 25755 Kilreigh are digging what they consider to be a "fish pond" off the edge of the stream and connecting it to the stream. It is all on the neighbors private property, but obviously not a permitted project and just being done with hand digging and shovels.

I wonder what exactly I should do to make this activity stop. Should EGLE be involved in reaching out to this resident or I can write a letter and attempt to contact the resident before any official violations are handed out. I wanted to reach out to you because I've not quite experienced someone attempting to do this in Farmington Hills yet, but I do know EGLE was involved with a resident installing a dam on a creek a few years ago.

Thank you,

Tyler Sonoga

Civil/Environmental Engineer

Public Services

O: (248) 871-2533

Email: [tsonoga@fhgov.com](mailto:tsonoga@fhgov.com)



City of Farmington Hills | [www.FHgov.com](http://www.FHgov.com)

Office Address | Farmington Hills, MI Zip





DEPARTMENT OF PUBLIC SERVICES  
JACOB RUSHLOW, P.E., DIRECTOR

August 19, 2024

25755 Kilreigh Court  
Farmington Hills, MI 48336

Subject: Notice of Environmental Violations

Dear Resident/Homeowner:

The City of Farmington Hills has been alerted of activities being done in your backyard which would be violating state and city environmental regulations. Any excavation, digging, or earth change along a natural water course or stream requires a permit. Excavating out a pond alongside an existing stream would also require a permit but is broadly not allowed due to negative impacts on the streambank and the likeliness of the activity promoting erosion. Also, any excavation that has the potential to discharge sediment into a water of the state requires a Soil Erosion permit from the City of Farmington Hills. The City of Farmington Hills advises all work stops and efforts are made to restore the area along the stream to its pre-existing state, prior to whenever excavation or digging started.

Should you have any questions or comments or wish to discuss please contact this office at (248) 871-2533.

Sincerely,

A handwritten signature in black ink that reads 'Tyler Sonoga'.

Tyler Sonoga  
Civil/Environmental Engineer  
Department of Public Service

cc: Jacob Rushlow, Director, Department of Public Services



**Request Number:** 598843      **Associated WO Number:**

**Complaint**

**Code:** FHC\_ILLICIT\_DISCHARG

**Description:** Illicit discharge of water

**Region Code:**

**Problem Address:** 31835 Alameda

Details:	Mark Dorchen called on 6/10/2025, a resident on Alameda, saying he observed Roto Rooter employees dumping in the river. They were working at 31835 Alameda.
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**Date / Time Reported:** 2/19/2026 9:28:44 AM

**Intitiated By:** Sonoga, Tyler

**Caller Information**

Call	Name	Home Address	Home Phone	Work Phone	Cell Phone
604539		UNKNOWN			

Call	Questions	Answers

**Resolution**

**Closed Out By:** \_\_\_\_\_ **Date/Time Resolved:** \_\_\_\_\_

**Held Over for Day Shift Referred To Municipality Date / Time Reported:** \_\_\_\_\_

**Reported to Municipality:** \_\_\_\_\_ **Name of Contact:** \_\_\_\_\_

**Comments:**

**By Sonoga, Tyler :** 2/19/2026 9:28:44 AM

Tyler spoke to Mark on the phone and went out, observed the river, nothing was present at the time, and talked with the Roto Rooter

employees who denied what occurred. Later in the day Tyler called Roto Rooter local office. The manager apologized and told me that he had a discussion with all staff that nothing like this can happen again.

## Tyler Sonoga

---

**From:** Tyler Sonoga  
**Sent:** Tuesday, June 10, 2025 2:25 PM  
**To:** Jacob Rushlow  
**Subject:** RE: Discharge

I went out and talked with the roto roter guys who were still there. They claimed it was ground water from the basement that was all mixed with mud and not anything to do with their sewer.

---

**From:** Mark Dorchon <markd@fieldinspection.com>  
**Sent:** Tuesday, June 10, 2025 1:50 PM  
**To:** Tyler Sonoga <TSonoga@fhgov.com>  
**Subject:** Discharge

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## Tyler Sonoga

---

**From:** McReynolds, Megan (EGLE) <McReynoldsM1@michigan.gov>  
**Sent:** Monday, November 10, 2025 7:22 AM  
**To:** Tyler Sonoga  
**Subject:** FW: PEAS Complaint Fish Window Cleaning 37460 Hills Tech Drive Farmington Hills  
**Attachments:** IMG\_1987.jpg

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good morning Tyler,

I wanted to follow up with you regarding the pollution complaint we received a few weeks ago in the City. The Fish Window Cleaning business had been dumping their excess wash water directly into the storm drain, which is not permissible under Michigan law. The correspondence below details the follow up from staff of our Materials Management Division, who had requested that the business send confirmation of approval from GLWA allowing them to dump their excess wash water down the sanitary drain. The confirmation letter from GLWA is attached. I have also followed up with the complainant to let them know the issue has been resolved.

Please let me know if you have any questions.

Thank you,

**Megan McReynolds**  
Environmental Quality Analyst  
Municipal Stormwater Program  
Water Resources Division - Warren District Office  
Michigan Department of Environment, Great Lakes, and Energy  
586-206-2699 | [mcreynoldsm1@michigan.gov](mailto:mcreynoldsm1@michigan.gov)



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Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)

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**From:** jlang@fishwindowcleaning.com <jlang@fishwindowcleaning.com>  
**Sent:** Friday, November 7, 2025 12:03 PM  
**To:** McReynolds, Megan (EGLE) <McReynoldsM1@michigan.gov>; Rogers, Reeve (EGLE) <RogersR12@michigan.gov>  
**Cc:** Angellotti, Regina (EGLE) <AngellottiR1@michigan.gov>; Bridget Lang <blang@fishwindowcleaning.com>  
**Subject:** Re: PEAS Complaint Fish Window Cleaning 37460 Hills Tech Drive Farmington Hills

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**CAUTION: This is an External email. Please send suspicious emails to [abuse@michigan.gov](mailto:abuse@michigan.gov)**

My apologies. Please see attached. If any issues or problems please reach back out to me. Thanks.

Joe Lang  
Fish Window Cleaning  
248-354-3340

---

**From:** McReynolds, Megan (EGLE) <[McReynoldsM1@michigan.gov](mailto:McReynoldsM1@michigan.gov)>  
**Sent:** Friday, November 7, 2025 7:04 AM  
**To:** [jlang@fishwindowcleaning.com](mailto:jlang@fishwindowcleaning.com) <[jlang@fishwindowcleaning.com](mailto:jlang@fishwindowcleaning.com)>; Rogers, Reeve (EGLE) <[RogersR12@michigan.gov](mailto:RogersR12@michigan.gov)>  
**Cc:** Angellotti, Regina (EGLE) <[AngellottiR1@michigan.gov](mailto:AngellottiR1@michigan.gov)>; Bridget Lang <[blang@fishwindowcleaning.com](mailto:blang@fishwindowcleaning.com)>  
**Subject:** RE: PEAS Complaint Fish Window Cleaning 37460 Hills Tech Drive Farmington Hills

Good morning Joe,

I did not see the letter from GLWA attached with the email. Could you please re-send a copy?

Thank you and have a great weekend!

**Megan McReynolds**  
Environmental Quality Analyst  
Municipal Stormwater Program  
Water Resources Division - Warren District Office  
Michigan Department of Environment, Great Lakes, and Energy  
586-206-2699 | [mcreynoldsm1@michigan.gov](mailto:mcreynoldsm1@michigan.gov)



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Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)

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**From:** [jlang@fishwindowcleaning.com](mailto:jlang@fishwindowcleaning.com) <[jlang@fishwindowcleaning.com](mailto:jlang@fishwindowcleaning.com)>  
**Sent:** Thursday, November 6, 2025 12:07 PM  
**To:** Rogers, Reeve (EGLE) <[RogersR12@michigan.gov](mailto:RogersR12@michigan.gov)>  
**Cc:** McReynolds, Megan (EGLE) <[McReynoldsM1@michigan.gov](mailto:McReynoldsM1@michigan.gov)>; Angellotti, Regina (EGLE) <[AngellottiR1@michigan.gov](mailto:AngellottiR1@michigan.gov)>; Bridget Lang <[blang@fishwindowcleaning.com](mailto:blang@fishwindowcleaning.com)>  
**Subject:** Re: PEAS Complaint Fish Window Cleaning 37460 Hills Tech Drive Farmington Hills

**CAUTION: This is an External email. Please send suspicious emails to [abuse@michigan.gov](mailto:abuse@michigan.gov)**

Hello Reeve,

Per your request, please find attached letter from GLWA regarding liquid waste disposal at our business.

Joe Lang  
Fish Window Cleaning  
248-354-3340

---

**From:** Rogers, Reeve (EGLE) <[RogersR12@michigan.gov](mailto:RogersR12@michigan.gov)>  
**Sent:** Tuesday, October 28, 2025 5:07 PM  
**To:** [jlang@fishwindowcleaning.com](mailto:jlang@fishwindowcleaning.com) <[jlang@fishwindowcleaning.com](mailto:jlang@fishwindowcleaning.com)>  
**Cc:** McReynolds, Megan (EGLE) <[McReynoldsM1@michigan.gov](mailto:McReynoldsM1@michigan.gov)>; Angellotti, Regina (EGLE) <[AngellottiR1@michigan.gov](mailto:AngellottiR1@michigan.gov)>  
**Subject:** PEAS Complaint Fish Window Cleaning 37460 Hills Tech Drive Farmington Hills

Hi Bridget,

Thank you for taking the time to show me around your facility this morning. As promised, this email serves as an informal follow-up to the inspection this morning.

I've CC'd a Water Resources Division employee, Megan McReynolds, who may have some further questions for you and is better able to answer any wastewater questions.

Today's inspection was due to a complaint made to the PEAS hotline, alleging dumping of liquids down a storm drain.

**The complaint was substantiated but not observed.** According to Bridget Lang, owner, buckets of used soapy water are occasionally dumped down the drain when the truck returns. I let her know that is not permissible under Michigan law. She said that they will start dumping the soapy water down the sink/sanitary line instead. I let her know that she will need permission from their local Publicly Owned Treatment Works (POTW) to be able to do that. Additionally, a washing machine is operated onsite, I let her know she may need to include that water discharge in any permitting discussion with the POTW.

**Please respond to this email with any permit/approval you receive from your POTW.**

Non-hazardous liquid wastes generated by business and industry are called Liquid Industrial By-Product (LIB) in Michigan and regulated under Part 121. I've attached some guidance documentation on LIB and a similar waste stream (mobile power washing).

Please feel free to reach out if you have any questions.

Cheers

Reeve Rogers  
Environmental Quality Analyst  
Materials Management Division  
Department of Environment, Great Lakes, and Energy  
586.980.3426 | [RogersR12@Michigan.gov](mailto:RogersR12@Michigan.gov)





**Request Number: 598860      Associated WO Number:**

**Complaint**

**Code: FHC\_ILLICIT\_DISCHARG**

**Description: Illicit discharge of water**

**Region Code:**

**Problem Address:      22225 Green Hill Road**

Details:	Email received from Megan McReynolds on 4/30/2025 regarding a call EGLE received about a pool cleaning company discharging commercial cleaning soap into detention pond.
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**Date / Time Reported: 2/19/2026 9:38:06 AM**

**Intitiated By: Sonoga, Tyler**

**Caller Information**

Call	Name	Home Address	Home Phone	Work Phone	Cell Phone
604556		UNKNOWN			

Call	Questions	Answers

**Resolution**

**Closed Out By:** \_\_\_\_\_ **Date/Time Resolved:** \_\_\_\_\_

**Held Over for Day Shift   Referred To Municipality   Date / Time Reported:** \_\_\_\_\_

**Reported to Municipality:** \_\_\_\_\_ **Name of Contact:** \_\_\_\_\_

**Comments:**

**By Sonoga, Tyler : 2/19/2026 9:38:06 AM**

**Tyler went out to apartments after receiving email and observed some sediment in parking lot and soap suds in detention pond. Letters were written and sent to owners and company involved detailing violation.**



DEPARTMENT OF PUBLIC SERVICES  
JACOB RUSHLOW, P.E., DIRECTOR

May 27, 2025

Green Hill Apartments  
22225 Green Hill  
Farmington Hills, MI 48335

RE: EGLE Stormwater Complaint  
22225 Green Hill Rd., Farmington Hills, MI 48335

Dear Property Owner,

On April 30th, 2025, staff from Michigan's Department of Environment, Great Lakes, and Energy (EGLE) were contacted by an individual stating that a Clearwater Pools was power washing the apartment swimming pool using soapy detergent. The resulting water from the contractor's power washing and detergent work was then pumped into the apartment's parking lot. The catch basins in this parking lot drain directly to the site's detention pond, located to the east across the road from the swimming pool, and then ultimately into the Rouge River. This is a violation of the city's illicit discharge ordinance and in turn a violation of the city's state stormwater permit. Pictures were shared from the complainant with EGLE and the city and it does clearly show the pump discharge outletting to the parking lot and the soapy detergent mixture.

EGLE requested the City of Farmington Hills send an employee to the site to investigate this complaint. Due to a rain event which occurred after the swimming pool was cleaned out, the parking lot was clean but there were traces of the detergent in the detention pond. It was also noted that the water elevation in the retention pond was at a high level, the pond has considerable sediment buildup, and the inlets are partially submerged.

This letter is to inform the apartments that any future pool cleanings must dispose of the wastewater appropriately. Any chemical additives or water containing contaminants must be drained through the sanitary sewer. Also, the apartment complex must make corrective actions with respect to the detention ponds on-site that should include a long-term maintenance plan and dredging of on-site detention ponds.

Along with ensuring the pool discharge water is no longer pumped into the storm sewer system, the City is requesting a plan and schedule for the pond maintenance work.

If you have any questions or concerns, please contact this office at 248-871-2533.



DEPARTMENT OF PUBLIC SERVICES  
JACOB RUSHLOW, P.E., DIRECTOR

May 27, 2025

Clearwater Pools  
7100 Jackson Road  
Ann Arbor, MI 48103

RE: EGLE Stormwater Complaint  
22225 Green Hill Rd., Farmington Hills, MI 48335 – Green Hill Apartments

Dear Business Owner,

On April 30th, 2025, staff from Michigan's Department of Environment, Great Lakes, and Energy (EGLE) were contacted by an individual stating that Clearwater Pools was power washing the apartment swimming pool using soapy detergent. The resulting water from the contractor's power washing and detergent work was then pumped into the apartment's parking lot. The catch basins in this parking lot drain directly to the site's detention pond, located to the east across the road from the swimming pool, and then ultimately into the Rouge River. This is a violation of the city's illicit discharge ordinance and in turn a violation of the city's state stormwater permit. Pictures were shared from the complainant with EGLE and the city and it does clearly show the pump discharge outletting to the parking lot and the soapy detergent mixture.

EGLE requested the City of Farmington Hills send an employee to the site to investigate this complaint. Due to a rain event, which occurred after the swimming pool was cleaned out, the parking lot was clean but there were traces of the detergent in the detention pond.

This letter is to inform your company that any future pool cleanings must dispose of the wastewater appropriately if the pool is not from single, two, or three family residences. Any chemical additives or water containing contaminants cannot be discharged to the storm sewer. For any potential future work in Farmington Hills, please be aware of the proper way to dispose of wastewater while cleaning out swimming pools.

If you have any questions or concerns, please contact this office at 248-871-2533.

Sincerely,

A handwritten signature in blue ink that reads 'Tyler Sonoga'.

Tyler Sonoga  
Environmental Engineer  
City of Farmington Hills  
Department of Public Services

## Tyler Sonoga

---

**From:** McReynolds, Megan (EGLE) <McReynoldsM1@michigan.gov>  
**Sent:** Wednesday, April 30, 2025 1:49 PM  
**To:** Tyler Sonoga  
**Cc:** Cotrone, Jack (EGLE)  
**Subject:** Illicit Discharge at Green Hill Apartments - Farmington Hills  
**Attachments:** IMG\_5489.jpg; IMG\_5490.jpg; IMG\_5491.jpg; IMG\_5488.jpg

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Good afternoon Tyler,

I tried giving you a call, but my phone seemed to cut out when leaving a message, and I figured I would send you an email as well. On 4/29 we received a complaint from a resident of Green Hill Apartments at 22225 Green Hill Rd. The apartment complex had a contractor (Clearwater Pools out of Ann Arbor) emptying and power washing their pool to get it ready for the summer. The contractor discharged both pool water and power wash water with soapy detergent from a pump to the [storm sewer catch basin in front of the apartment offices](#). The complainant provided the attached photos of the soapy discharge and pump operation.

We wanted to inform you of this discharge, as we believe it may ultimately be impacting the City's storm sewer system. Let me know if you have any questions and please keep me in the loop as the City conducts any follow-up with this complaint.

Thank you,

**Megan McReynolds**

Environmental Quality Analyst  
Municipal Stormwater Program  
Water Resources Division - Warren District Office  
Michigan Department of Environment, Great Lakes, and Energy  
586-206-2699 | [mcreynoldsm1@michigan.gov](mailto:mcreynoldsm1@michigan.gov)



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Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)

## Tyler Sonoga

---

**From:** Prakash Vizzeswarapu <prakashvizz@gmail.com>  
**Sent:** Monday, October 13, 2025 1:33 PM  
**To:** Tyler Sonoga  
**Cc:** Yaseen Azzam; Ethan Amolsch; Sunita Viz; Primeau, Robert (EGLE); lotts3@michigan.gov; Hartz, Andrew (EGLE)  
**Subject:** Re: 33475 Leisure Lane

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Yes , I already applied for the permit on Friday 10/10/2025 and today I got the quote from the engineering dept for permit fee, inspection fee and bond fee. I asked the contractor company Northwood Land services to take care of the required fee to move forward with the project.

Once paid, how long will it take to issue the permit ? When he can resume working on the project .

Thanks,

Prakash

On Mon, Oct 13, 2025 at 1:26 PM Tyler Sonoga <[TSonoga@fhgov.com](mailto:TSonoga@fhgov.com)> wrote:

Hello,

The city is okay with following the EGLE prescribed plan here. You will need to obtain a city soil erosion permit through the engineering department.

Tyler Sonoga

Civil/Environmental Engineer

Public Services

O: (248) 871-2533

Email: [tsonoga@fhgov.com](mailto:tsonoga@fhgov.com)



Office Address | Farmington Hills, MI Zip



---

**From:** Prakash Vizzeswarapu <[prakashvizz@gmail.com](mailto:prakashvizz@gmail.com)>  
**Sent:** Monday, October 13, 2025 11:20 AM  
**To:** Tyler Sonoga <[TSonoga@fhgov.com](mailto:TSonoga@fhgov.com)>; Yaseen Azzam <[Yazzam@fhgov.com](mailto:Yazzam@fhgov.com)>; Ethan Amolsch <[EAmolsch@fhgov.com](mailto:EAmolsch@fhgov.com)>; Sunita Viz <[sunitaviz@yahoo.com](mailto:sunitaviz@yahoo.com)>  
**Subject:** Re: 33475 Leisure Lane

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

**Subject:** Request for City Coordination – Minnow Pond Drain Streambank Restoration (33475 Leisure Ln)

Dear City of Farmington Hills Engineering Division, (Attention : Tylor Sonogo , Y Azzam )

I am writing to confirm local coordination for a streambank stabilization project located at **33475 Leisure Lane, Farmington Hills, MI 48331**, along the **Minnow Pond Drain**.

The Michigan Department of Environment, Great Lakes, and Energy (**EGLE**) has provided written direction allowing me to complete limited restoration work on approximately **160 linear feet** of streambank, under the *Minor Project – Riprap* category.  
EGLE has authorized me to proceed **if the City of Farmington Hills is in agreement** with this plan.

The required work includes:

- Adjusting riprap to meet the Minor Project specifications (boulders  $\leq$  12 inches at the lower 1/3 of the bank, with smaller interstitial stones).
- Limiting all activity to the previously disturbed areas.
- Planting approximately **32 native shrubs** (e.g., dogwood, willow, ninebark) along and above the riprap to stabilize the bank.

Please confirm that the City is in agreement with this restoration work and whether any **local permits, notifications, or site inspections** are required before I begin. I want to ensure full compliance with both City and State requirements.

Thank you very much for your guidance and cooperation.

Sincerely,  
**Prakash Vizzeswarapu**

33475 Leisure Ln  
Farmington Hills, MI 48331

248 520 8667 -Cell  
[prakashvizz@gmail.com](mailto:prakashvizz@gmail.com)

On Thu, Oct 9, 2025 at 3:31 PM Tyler Sonoga <[TSonoga@fhgov.com](mailto:TSonoga@fhgov.com)> wrote:

Hello,

I along with saying you probably need an EGLE permit say in this email you need a soil erosion permit from the City of Farmington Hills. You need to make contact with EGLE again and get the soil erosion permit before proceeding with the project.

Tyler Sonoga

Civil/Environmental Engineer

Public Services

O: (248) 871-2533

Email: [tsonoga@fhgov.com](mailto:tsonoga@fhgov.com)



City of Farmington Hills | [www.FHgov.com](http://www.FHgov.com)

Office Address | Farmington Hills, MI Zip



---

**From:** Tyler Sonoga

**Sent:** Tuesday, April 22, 2025 2:27 PM

To: [prakashvizz@gmail.com](mailto:prakashvizz@gmail.com)

Subject: 33475 Leisure Lane

Hello,

Any work on a stream, floodplain, or wetland will be regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The local contact for EGLE who runs the Land/Water Interface permits is Robert Primeau [PrimeauR@Michigan.gov](mailto:PrimeauR@Michigan.gov) 586-256-7274. I would reach out to Robert to discuss your plans and ask if you need to apply for a permit. I suspect you may need to submit for a Joint Permit, <https://www.michigan.gov/egle/about/organization/water-resources/joint-permit-application> but I would speak with Robert first.

After speaking with EGLE and getting approval, you will have to apply for a soil erosion permit with the City of Farmington Hills Engineering department. This will be to ensure your construction is not going to push any sediment into the river. <https://www.fhgov.com/media/n3ioyrg/soil-erosion-application-residential.pdf>

If you have any further questions, feel free to reach out.

Thank you,

Tyler Sonoga

Civil/Environmental Engineer

Public Services

O: (248) 871-2533

Email: [tsonoga@fhgov.com](mailto:tsonoga@fhgov.com)



City of Farmington Hills | [www.FHgov.com](http://www.FHgov.com)

Office Address | Farmington Hills, MI Zip



**From:** [Tyler Sonoga](#)  
**To:** [Jacob Rushlow](#)  
**Subject:** FW: EGLE Permit for site: 63-33475 Leisure Lane-Farmington Hills  
**Date:** Friday, December 5, 2025 11:39:00 AM  
**Attachments:** [image001.png](#)  
[Placard \(WORD\).pdf](#)  
[Resources Individual or Minor Permit \(WORD\).pdf](#)  
[Permitted Plans for site 63-33475 Leisure Lane-Farmington Hills.pdf](#)  
[EGLE Notice of Completion Card \(002\).pdf](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

---

Hey Jacob,

EGLE sent over this notice of completion and after the fact approved permit for the work on Leisure Lane. The resident is all done constructing, so I think we can release money for the soil erosion bond.

Tyler Sonoga  
Civil/Environmental Engineer  
Public Services  
O: (248) 871-2533  
Email: [tsonoga@fhgov.com](mailto:tsonoga@fhgov.com)



**City of Farmington Hills** | [www.FHgov.com](http://www.FHgov.com)

Office Address | Farmington Hills, MI Zip



---

**From:** Moss, Jarita (EGLE) <MossJ7@michigan.gov>  
**Sent:** Thursday, December 4, 2025 10:40 AM  
**To:** [prakashvizz@gmail.com](mailto:prakashvizz@gmail.com)  
**Cc:** Carly Lindahl <CLindahl@fhgov.com>; Tyler Sonoga <TSonoga@fhgov.com>;  
[nickhalonen1@gmail.com](mailto:nickhalonen1@gmail.com); Primeau, Robert (EGLE) <PRIMEAUR@michigan.gov>; Jones, Danielle  
(EGLE) <JonesD64@michigan.gov>  
**Subject:** EGLE Permit for site: 63-33475 Leisure Lane-Farmington Hills

**CAUTION:** This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear Prakash Vizzeswarapu:

Please find attached a copy of your placard, the signed permit with approved plans

and a Notice of Completion card.

An electronic and/or hard copy of the signed permit with approved plans will also be sent to the cc's, respectively. If you have any questions or concerns, please contact Robert Primeau at [PrimeauR@Michigan.gov](mailto:PrimeauR@Michigan.gov).

Thank you,

Jarita Moss  
Secretary, Industrial Wastewater & Storm Water Unit  
Warren District Office  
Water Resources Division  
Michigan Department of Environment, Great Lakes, and Energy  
586-256-1619 | [MossJ7@michigan.gov](mailto:MossJ7@michigan.gov)



---

Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)



GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
WATER RESOURCES DIVISION



PHILLIP D. ROOS  
DIRECTOR

October 30, 2025

VIA EMAIL

VIOLATION NOTICE  
VN-018265

Prakash Vizzeswarapu  
33475 Leisure Lane  
Farmington Hills, MI 48331

Dear Prakash Vizzeswarapu:

**SUBJECT:** Violation Notice – Order to Restore  
Site Name: 63-33475 Leisure Lane-Farmington Hills  
Property Location: 33475 Leisure Lane, Farmington Hills, Oakland County,  
Michigan, Property ID 26-16-427-009

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division (WRD), conducted an inspection on October 9, 2025, at the above-referenced parcel of property. The purpose of the inspection was to evaluate compliance with Part 31, Water Resources Protection, and Part 301, Inland Lakes and Streams, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the administrative rules for Part 31 and Part 301. At the time of the inspection, WRD staff observed the placement of boulder rocks along approximately 150 linear feet of the Minnow Pond Drain (cumulatively) in two locations on your property. This activity is regulated under the authority of Part 31 and Part 301. This Violation Notice (VN) has been issued to you because you have been identified as the property owner responsible for the property and the unauthorized activities.

Section 324.3108 of Part 31 prohibits alternations to the regulated floodplain, streambed, or channel of a stream without first obtaining a permit from EGLE. Section 324.30162 of Part 301 prohibits impacts to a stream without first obtaining a permit from EGLE. A review of WRD files indicates that no permits have been issued for this activity at this location. Therefore, it appears that this activity was conducted in violation of Part 31 and Part 301.

In consideration of the requirements of Part 31 and Part 301, the WRD has determined that a permit would not have been approved for this project. Therefore, within 30 days of the date of this VN, you must bring the property into compliance with the requirements of Part 31 and Part 301 by restoring the stream to its original condition immediately before the violation. To comply with this restoration requirement, you must complete the following actions:

1. Remove all unauthorized rock exceeding 12 inches in diameter along the lower third of bank as shown on the enclosed site restoration plan. Rock riprap with a

diameter of 12 inches or less may be placed along the lower third of the bank. Approximately 32 Shrub plantings of a minimum 1-gallon size shall be incorporated into the affected areas of stream reach to minimize the resource impact and to reinforce the bank. This shall include Michigan-native shrubs planted 5 foot on-center through the geotextile fabric laid under the rock. These plantings shall be placed above the waterline to vegetate the upper 2/3rds of the bank. Acceptable shrub species include dogwoods, willows, ninebark, winterberry, viburnum, nannyberry, and buttonbush.

2. Take photographs of the completed restoration and send them to EGLE WRD.
3. Contact EGLE WRD immediately upon completion of the above restoration requirements in order that an inspection may be conducted by the WRD.
4. If EGLE determines that the site post-construction is in compliance with Part 31 or Part 301, you shall apply for an After-the-Fact permit for the remaining riprap that was placed along the stream.

Please be advised that completing the requirements listed above will end an ongoing violation of state law, but it does not eliminate the potential civil or criminal liability associated with the violation. EGLE retains the right to advance any civil or criminal claims related to unauthorized regulated activities, and approval of the restoration is not a waiver of any such claims.

The WRD anticipates your cooperation in resolving this matter. If you have any questions, you may contact me at (586) 256-7274; [primeaur@michigan.gov](mailto:primeaur@michigan.gov); or EGLE, WRD, P.O. Box 30458, Lansing, Michigan 48909-7958.

Sincerely,



Robert Primeau, EGLE-WRD  
Warren District Office  
Water Resources Division

Enclosure

cc: Steven Lott, EGLE  
Pat Durack, EGLE  
Andy Hartz, EGLE  
Tyler Sonoga, City of Farmington Hills DPS  
Nick Halonen, Northwood Land Services



Restore these two portions of Minnow Pond Drain in accordance with the attached restoration order

27.97 ft  
186.7°  
50.14 ft

103.17 ft

## Tyler Sonoga

---

**From:** Tyler Sonoga  
**Sent:** Monday, October 27, 2025 9:03 AM  
**To:** Jacob Rushlow; Ethan Amolsch  
**Cc:** Keith Ladzinski; Tammy Gushard  
**Subject:** FW: Rollcrest

This is the response from EGLE regarding the Rollcrest resident. He's not speaking to them just like he's ignoring us. I sent an email to Judy in planning to see if she's issued any tickets to him yet.

-Tyler

---

**From:** Lott, Steven (EGLE) <LottS3@michigan.gov>  
**Sent:** Friday, October 24, 2025 9:54 AM  
**To:** Tyler Sonoga <TSonoga@fhgov.com>  
**Cc:** Primeau, Robert (EGLE) <PRIMEAUR@michigan.gov>; Hartz, Andrew (EGLE) <HARTZA@michigan.gov>  
**Subject:** RE: Rollcrest

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good Morning Tyler,

Thank you for the update and providing photos. Did the inspector see the notices that I left on the property. There were 2.

I spoke with Jerry Midget and informed him to stop doing activities last week. I did not get a hold of Robert Beyers who appears to be the property owner for the culvert.

Our violation notice should be going out soon.

Steven Lott  
District Compliance Coordinator  
EGLE - Water Resources Division  
(248)-320-3511 [Lotts3@michigan.gov](mailto:Lotts3@michigan.gov)

---

Pollution Emergencies: 800-292-4706  
EGLE Environmental Assistance Center: 800-662-9278  
EGLE Website: [www.Michigan.gov/EGLE](http://www.Michigan.gov/EGLE)  
Submit Complaints: [Water Resource Complaint Form](#)

---

**From:** Tyler Sonoga <TSonoga@fhgov.com>  
**Sent:** Friday, October 24, 2025 9:28 AM  
**To:** Primeau, Robert (EGLE) <PRIMEAUR@michigan.gov>; Lott, Steven (EGLE) <LottS3@michigan.gov>  
**Subject:** FW: Rollcrest

**CAUTION: This is an External email. Please send suspicious emails to [abuse@michigan.gov](mailto:abuse@michigan.gov)**

Hello,

This resident at 28026 Rollcrest in Farmington Hills has been continuing work in his backyard including adding a culvert. He's been told multiple times by city staff he needs EGLE permits and soil erosion permits, but now has gone further and added a restriction culvert. He's been ignoring attempts to contact and has not come into city hall to discuss like requested. We've begun issuing tickets/citations to the resident.

Tyler Sonoga  
Civil/Environmental Engineer  
Public Services  
O: (248) 871-2533  
Email: [tsonoga@fhgov.com](mailto:tsonoga@fhgov.com)



City of Farmington Hills | [www.FHgov.com](http://www.FHgov.com)

Office Address | Farmington Hills, MI Zip



---

**From:** Keith Ladzinski <[KLadzinski@fhgov.com](mailto:KLadzinski@fhgov.com)>  
**Sent:** Thursday, October 23, 2025 12:41 PM  
**To:** Tyler Sonoga <[TSonoga@fhgov.com](mailto:TSonoga@fhgov.com)>; Ethan Amolsch <[EAmolsch@fhgov.com](mailto:EAmolsch@fhgov.com)>  
**Subject:** Rollcrest

I made a visit today. The homeowner has done more work, including installing a culvert.

Get [Outlook for Android](#)



GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
WATER RESOURCES DIVISION



PHILLIP D. ROOS  
DIRECTOR

December 17, 2025

VIOLATION NOTICE  
VN. NO. VN-018476

VIA EMAIL

Steven Tom  
28010 Rollcrest  
Farmington Hills, MI 48334

Dear Steven Tom:

SUBJECT: Violation Notice – Order to Restore  
Site Name: 63- 28010 Rollcrest - Farmington Hills  
Property Location: 28010 Rollcrest, Farmington Hills, Oakland,

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division (WRD), conducted an inspection on October 3, 2025, at the above-referenced parcel of property. The purpose of the inspection was to evaluate compliance with Part 301, Inland lakes and Streams and Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the administrative rules for Part 301 and Part 303.

On October 27, 2025, VN 018231 was issued to, requesting an explanation for the activities observed at the property. You did not receive a copy of the letter and called us after we left a message with the representative of the LLC that owns the property.

At the time of the inspection, WRD staff observed that 134 feet of stream had been dredged and the spoils appeared to be placed within the wetland adjacent to the property. This activity is regulated under the authority of Part 301 and Part 303. This Violation Notice (VN) has been issued to you because you have been identified as the owner of the company responsible for the property and the unauthorized activities.

Section 324.30102 of Part 301 prohibits the below activities without first obtaining a permit from the EGLE:

- (a) The dredge or fill of bottomland.
- (b) The construction, enlargement, extension, removal or placement of a structure on bottomland.
- (c) Creation, enlargement, or diminishing of an inland lake or stream.
- (d) Structurally interfering with the natural flow of an inland lake or stream.

(e) Constructing, dredging, commencing, extending, or enlarging an artificial canal, channel, ditch, lagoon, pond, lake, or similar waterway where the purpose is ultimate connection with an existing inland lake or stream or where any part of the artificial waterway is located within 500 feet of the ordinary high-water mark of an existing inland lake or stream.

A review of WRD files indicates that no Part 301 permits have been issued for these activities associated with the parcel numbers listed above. Therefore, it appears that these activities were conducted in violation of Part 301, Inland Lakes and Streams, of the NREPA.

Section 324.30304 of Part 303 prohibits the activities below without first obtaining a permit from EGLE:

- (a) Depositing fill material.
- (b) Removing soils.
- (c) Draining of surface water.
- (d) Maintaining a development or use within state-regulated wetlands.

A review of WRD files indicates that no Part 303 permits have been issued for these activities associated with the Parcel listed above. Therefore, it appears that these activities were conducted in violation of Part 303, Wetlands Protection, of the NREPA.

In consideration of the requirements of Part 301 and Part 303, the WRD has determined that a permit would not have been approved for this project. Therefore, within 30 days of the date of this VN, you must bring the property into compliance with the requirements of Part 301 and Part 303 by restoring the impacted stream to its original condition immediately before the violation. To comply with this restoration requirement, you must complete the following actions:

1. Take photographs of the impacted wetland prior to beginning any work.
2. All work done to the stream must be done during the dry season to avoid further disrupting the natural resources.
3. Install appropriate soil erosion measures and install a pump around system as necessary.
4. Restore the banks of the stream to its previous condition prior to the unauthorized stream modifications.
  - a. Use the dredge spoils adjacent to the stream to reform the banks of the stream. Use an unimpacted portion of the banks as a reference.
  - b. Replant the banks of the stream to prevent erosion.
5. Stabilize any raw earth adjacent to the stream.
6. Take photographs of the restored stream and send the photos to me via email.
7. Contact me immediately upon completion of the above restoration requirements in order that an inspection may be conducted by the WRD.

Steven Tom  
VN-018476  
Page 3  
December 17, 2025

The WRD anticipates your cooperation in resolving this matter. If you have any questions, you may contact me at (248) 320-3511; [lotts3@michigan.gov](mailto:lotts3@michigan.gov); or EGLE, WRD, P.O. Box 30458, Lansing, Michigan 48909-7958.

Sincerely,

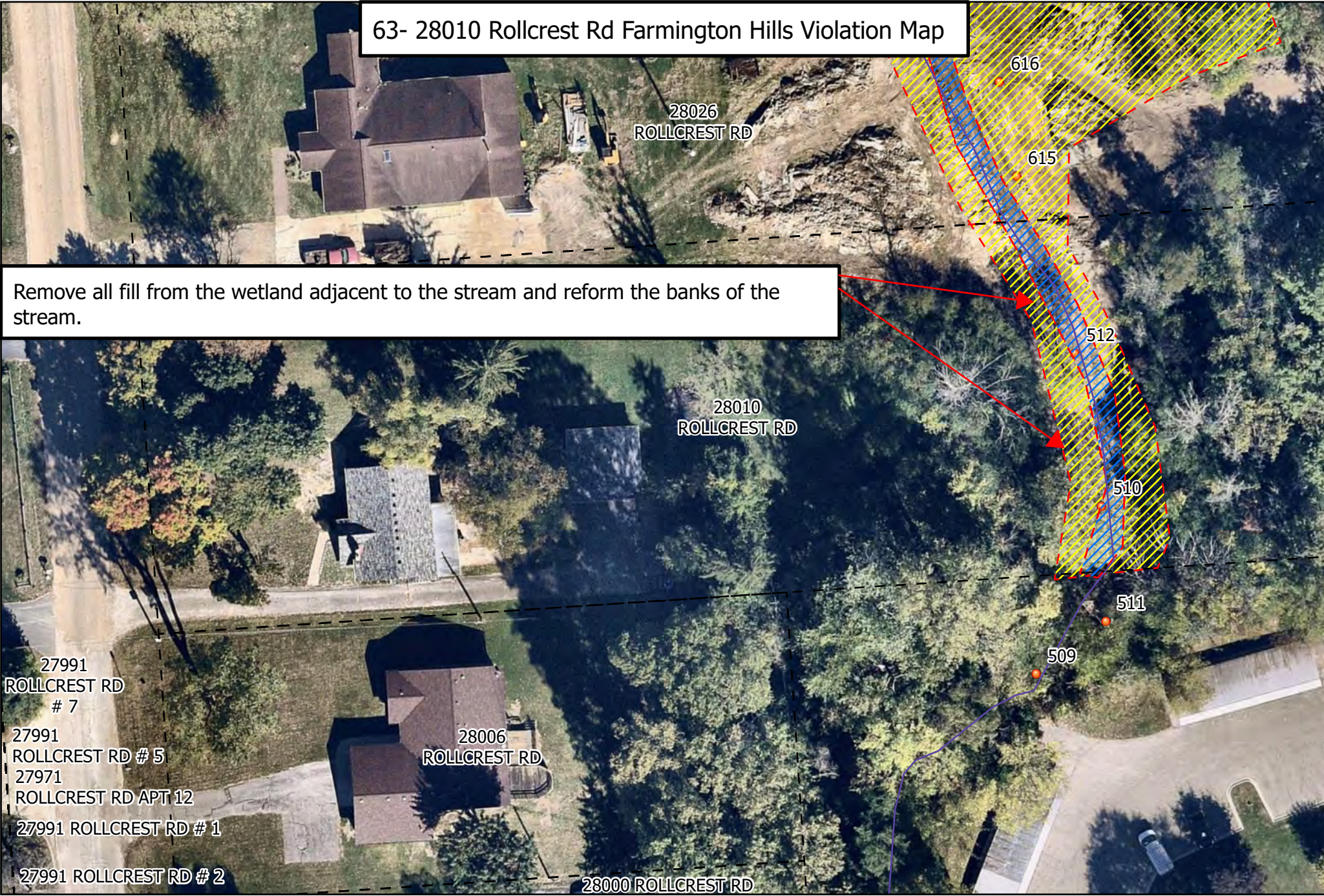
A handwritten signature in cursive script that reads "Steven Lott".

Steven Lott, EQA  
Warren District Office  
Water Resources Division

Attachment: Map

cc: Farmington Hills Clerk  
Oakland County SESC Officer  
Robert Primeau, EGLE  
Andrew Hartz, EGLE

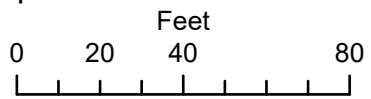
# 63- 28010 Rollcrest Rd Farmington Hills Violation Map



Remove all fill from the wetland adjacent to the stream and reform the banks of the stream.

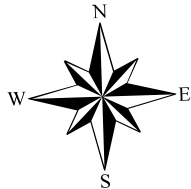
 Unauthorized Wetland Impact

 Lot Lines



Created 12/4/2025 by Steven Lott 2483203511  
Lotts3@michigan.gov Image date 2025

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GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
WATER RESOURCES DIVISION



PHILLIP D. ROOS  
DIRECTOR

December 17, 2025

VIOLATION NOTICE  
VN. NO. VN-018494

VIA EMAIL

Jerry Midgett, Revocable Living Trust  
28830 W 8 Mile, Suite 103  
Farmington Hills, MI 48336

Dear Jerry Midgett, revocable living trust:

SUBJECT: Violation Notice – Order to Restore  
Site Name: 63- 28054 Rollcrest - Farmington Hills  
Property Location: 28054 Rollcrest, Farmington Hills, Oakland,

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division (WRD), conducted an inspection on October 03, 2025, at the above-referenced parcel of property. The purpose of the inspection was to evaluate compliance with Part 303, Wetland Protection, and Part 301, Inland Lakes and Streams, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the administrative rules for Part 301 and Part 303. At the time of the inspection, WRD staff observed the following unauthorized activities:

1. Approximately 270 feet of stream was dredged and cleared of vegetation.
2. Approximately 0.08 acres of emergent wetland was cleared of vegetation and graded with the eventual goal of converting the area to lawn.

This activity is regulated under the authority of Part 301 and Part 303. This Violation Notice (VN) has been issued to you because you have been identified as the property owner responsible for the property and the unauthorized activities.

Section 324.30102 of Part 301 prohibits the below activities without first obtaining a permit from the EGLE:

- (a) The dredge or fill of bottomland.
- (b) The construction, enlargement, extension, removal or placement of a structure on bottomland.
- (c) Creation, enlargement, or diminishing of an inland lake or stream.
- (d) Structurally interfering with the natural flow of an inland lake or stream.

(e) Constructing, dredging, commencing, extending, or enlarging an artificial canal, channel, ditch, lagoon, pond, lake, or similar waterway where the purpose is ultimate connection with an existing inland lake or stream or where any part of the artificial waterway is located within 500 feet of the ordinary high-water mark of an existing inland lake or stream.

A review of WRD files indicates that no Part 301 permits have been issued for these activities associated with the parcel numbers listed above. Therefore, it appears that these activities were conducted in violation of Part 301, Inland Lakes and Streams, of the NREPA.

Section 324.30304 of Part 303 prohibits the activities below without first obtaining a permit from EGLE:

- (a) Depositing fill material.
- (b) Removing soils.
- (c) Draining of surface water.
- (d) Maintaining a development or use within state-regulated wetlands.

A review of WRD files indicates that no Part 303 permits have been issued for these activities associated with the Parcel listed above. Therefore, it appears that these activities were conducted in violation of Part 303, Wetlands Protection, of the NREPA.

In consideration of the requirements of Part 301 and Part 303, the WRD has determined that a permit would not have been approved for this project. Therefore, within 30 days of the date of this VN, you must bring the property into compliance with the requirements of Part 301 and Part 303 by restoring the emergent wetland to its original condition immediately before the violation. To comply with this restoration requirement, you must complete the following actions:

1. Remove all unauthorized fill material placed within the wetland adjacent to the stream as shown on the enclosed site restoration plan.
  - a. Dispose of the material in an upland location on the property or offsite.
  - b. The wetland work should be completed while the wetland is dry.
  - c. The earth work can be completed during the winter with snow on the ground.
2. Restore the impacted wetland to the original grade with exposed original soils.
3. Only a native Michigan wetland seed mix may be planted in the restored wetland
  - a. The budget seed mix offered by Native Connections would be appropriate for the wetland.
  - b. Due to the time of year planting may be completed in the spring.
4. Take photos of the completed restoration and send to Steven Lott
5. Contact me immediately upon completion of the above restoration requirements in order that an inspection may be conducted by the WRD.

Jerry Midgett, Revocable Living Trust

VN-018494

Page 3

December 17, 2025

The WRD anticipates your cooperation in resolving this matter. If you have any questions, you may contact me at (248) 320-3511; lotts3@michigan.gov; or EGLE, WRD, P.O. Box 30458, Lansing, Michigan 48909-7958.

Sincerely,

A handwritten signature in cursive script that reads "Steven Lott".

Steven Lott, EQA  
Warren District Office  
Water Resources Division

Attachment: Map

cc: Farmington Hills Clerk  
Oakland County SESC Officer  
Robert Primeau, EGLE  
Andrew Hartz, EGLE

# 63- 28054 Rollcrest Rd Farmington Hills Violation Map

28082  
ROLLCREST RD

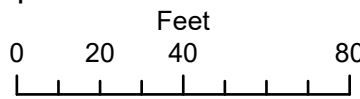
Do not maintain the wetland adjacent to the stream as lawn.  
Allow this area to regrow as wetland.

28054  
ROLLCREST RD

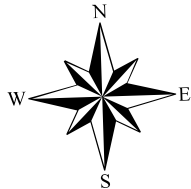
28026  
ROLLCREST RD

 Unauthorized Wetland Impact

 Lot Lines



Created 12/5/2025 by Steven Lott 2483203511  
Lotts3@michigan.gov Image date 2025



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## **Appendix D5**

### **Livonia Pollution Complaint Documentation**

City of Livonia

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: Ed Hoffman

Phone #: 734 466 2627

Date: 9/16/24 Time: 830 am

Location of Problem: 27777 Schoolcraft Rd Livonia MI 48150 Offending Party (if known) Owners of Burton Manor

Nature of Problem (i.e. paper waste, odor, color, etc.): Pushing debris and garbage into embankment and tires are submerged in creek

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: \_\_\_\_\_

Initial Contact made to:

- 911
- City Dept. \_\_\_\_\_
- Wayne County (888) 223-2363
- Oakland County (248) 858-0931
- PEAS Hotline (State) 1-800-292-4706
- Other \_\_\_\_\_

Additional Comments:

Reported to Supervisor  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Investigation Summary

- Initial Investigation
- Follow-up Investigation

Date of Investigation: 9/16/24

Investigating Agency: \_\_\_\_\_

Location of Discharge: \_\_\_\_\_  
\_\_\_\_\_

Crew Members: Lindsay ~~St~~wejkowski & Marlee Litte

Investigation Location: 27777 Schoolcraft rd  
Most South fence line of property

Observations (odor, color, volume, etc.): Trash, debris and tires  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Actions Taken (dye testing, notification letter, etc.):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Were photos taken:  Yes  No

Agency Referred to: \_\_\_\_\_

Agency Contact: \_\_\_\_\_

Method of Communication:

- E-mail\*  Letter/memo\*  Phone

\*Attached copies

Content of Communication:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date Corrected or Resolved: \_\_\_\_\_







**From:** [Taormina, Mark](#)  
**To:** [Zilincik, Todd](#); [Hanna, Jerome](#); [Stroble, Robert](#)  
**Cc:** [Gabriel, Trisha](#); [Hoffman, Edwin](#); [Moore, Doug](#); [Lear, David](#); [Youkhanna, Louai](#); [Anderson, Jeff](#)  
**Subject:** RE: Burton Manor Renovations - Illegal Dumping  
**Date:** Monday, September 16, 2024 2:15:47 PM

---

Thanks, Todd, Trisha, and others. The violations and lack of maintenance at this site have been ongoing. Penske Automotive has entered a long-term lease with the owners with plans to make major site improvements. These violations and many other issues will be discussed on Thursday.

Mark

**Mark Taormina**

Planning and Economic Development Director  
City of Livonia | Planning Department  
(734) 466-2292  
[mtaormina@livonia.gov](mailto:mtaormina@livonia.gov)

---

**From:** Zilincik, Todd <[tzilincik@livonia.gov](mailto:tzilincik@livonia.gov)>  
**Sent:** Monday, September 16, 2024 12:02 PM  
**To:** Hanna, Jerome <[JHanna@livonia.gov](mailto:JHanna@livonia.gov)>; Stroble, Robert <[rstroble@livonia.gov](mailto:rstroble@livonia.gov)>; Taormina, Mark <[mtaormina@livonia.gov](mailto:mtaormina@livonia.gov)>  
**Cc:** Gabriel, Trisha <[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)>; Hoffman, Edwin <[ehoffman@livonia.gov](mailto:ehoffman@livonia.gov)>; Moore, Doug <[dmoore@livonia.gov](mailto:dmoore@livonia.gov)>; Lear, David <[DLear@livonia.gov](mailto:DLear@livonia.gov)>; Youkhanna, Louai <[LYoukhanna@livonia.gov](mailto:LYoukhanna@livonia.gov)>  
**Subject:** FW: Burton Manor Renovations - Illegal Dumping  
**Importance:** High

Gentlemen,

We may want to consider having this addressed prior to meeting on the proposed improvements to the building.

Thanks for your assistance in an effort to get this addressed by existing property owner.

Todd

**Todd Zilincik, P.E.**

City Engineer  
City of Livonia | Engineering  
(734) 466-2561  
[tzilincik@livonia.gov](mailto:tzilincik@livonia.gov)

---

**From:** Gabriel, Trisha <[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)>

**Sent:** Monday, September 16, 2024 11:54 AM

**To:** Lear, David <[DLear@livonia.gov](mailto:DLear@livonia.gov)>; Zilincik, Todd <[tzilincik@livonia.gov](mailto:tzilincik@livonia.gov)>

**Cc:** Moore, Doug <[dmoore@livonia.gov](mailto:dmoore@livonia.gov)>; Hoffman, Edwin <[ehoffman@livonia.gov](mailto:ehoffman@livonia.gov)>

**Subject:** Burton Manor Renovations - Illegal Dumping

Hi there,

We were out inspecting drains today and noticed that all the sediment and debris from the parking lot at Burton Manor is being push up on the drain banks at the south end of the property line. They're also stock piling logs and dirt on the southeast corner of the parking lot. Lindsay spoke to the gentleman that is doing the renovations and he indicated that they were going to be pushing snow along the drain as well.

Now, I know you both are well aware of all the violations this will cause with our MS4. Just thought I'd pass this along the information since you have a meeting scheduled for this area on Thursday. Another option is enclosing the drain but that's out of my hands.

I've attached a map so you get somewhat of an idea along with the photos.

Let me know if you have any questions.

Thank you for your help with getting this addressed!

Trisha

**Trisha Gabriel**

Superintendent of Public Works

City of Livonia | Department of Public Works

(734) 466-2705

[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)

Community Name

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: Michelle – employee of MMRMA at 14001 Merriman Rd.

Phone #: (734) 513-0300

Date:08/20/24 Time: 9:35 a.m.

Location of Problem: 14001 Merriman Road Business Complex Drive Approach

Offending Party (if known): Sunoco Pipeline

Nature of Problem (i.e. paper waste, odor, color, etc.): Oil smell and oil observed on sidewalk, curb line, drive approach, and near Merriman Road catch basin south of the drive approach.

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: Oil seeping up through ground in the location of an underground petroleum pipeline

Investigation Summary

Initial Investigation

Follow-up Investigation

Date of Investigation: 08/20/24

Investigating Agency: Livonia DPW & LFD HazMat

Location of Discharge: 14001 Merriman drive approach & sidewalk

Crew Members: Trisha Gabriel, Ed Hoffman, John Wojnar, LFD HazMat

Investigation Location:

14001 Merriman drive approach & sidewalk, and curb line

Observations (odor, color, volume, etc.):

Oil seeping through the sidewalk cracks, drive approach, puddling in curb line and near Merriman Road catch basin.

Actions Taken (dye testing, notification letter, etc.): Oil dry was placed along the drive approach, sidewalk, curb line, and road. Several bags were placed around the catch basin to prevent any additional residual oil from entering the storm. It remains there until Sunoco crews can get onsite to assess where the leak is and how to repair.

Were photos taken:  Yes  No

Agency Referred to: Sunoco Pipeline

Agency Contact: Jason Adams

Method of Communication:

E-mail\*  Letter/memo\*  Phone

\*Attached copies

Content of Communication: I called the emergency line and got in contact with Jason Adams. He was going to get the crews out there and call in Miss Dig so they could assess the damage.

Initial Contact made to:

911

City Dept. Livonia DPW

Wayne County (888) 223-2363

Oakland County (248) 858-0931

PEAS Hotline (State) 1-800-292-4706

Other \_\_\_\_\_

Additional Comments:

DPW called LFD HazMat Team to investigate further. Sunoco Pipeline was also called, and a representative arrived at approximately 10:10 a.m.

Date Corrected or Resolved: \_\_\_\_\_



City of Livonia

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: ANONYMOUS

Phone #: \_\_\_\_\_

Date: 10-28-24 Time: 11:28

Location of Problem: 36409 Rayburn Offending Party (if known) \_\_\_\_\_

Nature of Problem (i.e. paper waste, odor, color, etc.): H/O said someone dump ZEP degreaser down a C/B. I pulled the cover and saw water. There was NO sheen or anything else out of the ordinary.

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: \_\_\_\_\_

Investigation Summary

Initial Investigation

Follow-up Investigation

Date of Investigation: 10-28-24

Investigating Agency: DPW

Location of Discharge: 36408 Rayburn

Crew Members: Ed + Holly

Investigation Location: 36408 Rayburn

Observations (odor, color, volume, etc.): checked C/B saw nothing

Actions Taken (dye testing, notification letter, etc.):

NONE AT THIS TIME

Were photos taken:  Yes  No

Agency Referred to: \_\_\_\_\_

Agency Contact: \_\_\_\_\_

Method of Communication:

E-mail\*  Letter/memo\*  Phone

\*Attached copies

Content of Communication:

Initial Contact made to:

911

City Dept. DPW

Wayne County (888) 223-2363

Oakland County (248) 858-0931

PEAS Hotline (State) 1-800-292-4706

Other \_\_\_\_\_

Additional Comments:

Talked to H/O at 36409 Rayburn He stated He didn't see anything and didn't empty anything in C/B

Date Corrected or Resolved: 10-28-24

Ed Hoffman

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: Anonymous

Phone #: \_\_\_\_\_

Date: 6/16/25 Time: 11:25 am

Location of Problem: 30388 Westfield Offending Party (if known) Priority Waste

Nature of Problem (i.e. paper waste, odor, color, etc.): report for hydraulic fluid spilled in the street by a catch basin

Is this an Emergency?  No  
 Yes (then call 911)  
Nature of Emergency: \_\_\_\_\_

Initial Contact made to:  
 911  
 City Dept. Public Works  
 Wayne County (888) 223-2363  
 Oakland County (248) 858-0931  
 PEAS Hotline (State) 1-800-292-4706  
 Other \_\_\_\_\_

Additional Comments:  
not hydraulic fluid. identified as anti-freeze or coolant. in field staff confirmed no catch basin was affected by leak

**Investigation Summary**  
 Initial Investigation  
 Follow-up Investigation  
Date of Investigation: 6/16/25  
Investigating Agency: Livonia  
Location of Discharge: 30388 Westfield  
Crew Members: Ed Hoffman  
Investigation Location: 30388 Westfield  
Observations (odor, color, volume, etc.):  
Downed Priority waste garbage truck. Anti-freeze in gutter line for about 40'. Not near a catch basin.

Actions Taken (dye testing, notification letter, etc.):  
oil dry was placed down by city staff in the gutter line to absorb the anti-freeze  
Were photos taken:  Yes  No

Agency Referred to: \_\_\_\_\_  
Agency Contact: Priority Waste  
Method of Communication:  
 E-mail\*  Letter/memo\*  Phone  
\*Attached copies  
Content of Communication:  
will remove truck & sweep up oil dry & dispose

Date Corrected or Resolved: 6/16/25



**From:** [Gabriel, Trisha](#)  
**To:** [Gabriel, Trisha](#)  
**Subject:** FW: Westfield and Henry Ruff Hydraulic Leak  
**Date:** Tuesday, June 17, 2025 7:14:32 AM  
**Attachments:**

---

**Trisha Gabriel**  
Superintendent of Public Works  
City of Livonia | Department of Public Works  
(734) 466-2705  
[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)

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**From:** Sam Caramagno Jr. <[scaramagnojr@prioritywaste.com](mailto:scaramagnojr@prioritywaste.com)>  
**Sent:** Monday, June 16, 2025 6:43 PM  
**To:** Gabriel, Trisha <[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)>  
**Cc:** Moore, Doug <[dmoore@livonia.gov](mailto:dmoore@livonia.gov)>; Hoffman, Edwin <[ehoffman@livonia.gov](mailto:ehoffman@livonia.gov)>  
**Subject:** RE: Westfield and Henry Ruff Hydraulic Leak

After further investigation, this was determined to be a very minor coolant leak. We got absorbent laid down quickly. No storm drain in sight.

Sam

**Sam Caramagno Jr.**  
Territory Manager, Priority Waste

t: [586-228-1200](tel:586-228-1200) | m: [734-718-4712](tel:734-718-4712)

e: [scaramagnojr@prioritywaste.com](mailto:scaramagnojr@prioritywaste.com) | w: <https://ddec1-0-en-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=www.prioritywaste.com&umid=1feabe22-a3e6-469b-aeec-b037d938d15d&rct=1750113796&auth=e066e83c683657651776b78618a036804afcba73-f566a8bb8241c711a969fb666e751251d473818c>

a: 39000 Van Born Rd, Wayne, MI, 48184



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---

**From:** Gabriel, Trisha <[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)>  
**Sent:** Monday, June 16, 2025 11:29 AM  
**To:** Sam Caramagno Jr. <[scaramagnojr@prioritywaste.com](mailto:scaramagnojr@prioritywaste.com)>  
**Cc:** Moore, Doug <[dmoore@livonia.gov](mailto:dmoore@livonia.gov)>; Hoffman, Edwin <[ehoffman@livonia.gov](mailto:ehoffman@livonia.gov)>  
**Subject:** Westfield and Henry Ruff Hydraulic Leak

[EXTERNAL SENDER]

Hi Sam,

Since the hydraulic leak hit the catch basin, I'm going to have to record the incident. Can you please keep us updated on the clean up? I'll have to report that in our investigation reporting process to EGLE.

Thank you!

Trisha



**Trisha Gabriel**  
Superintendent of Public Works  
City of Livonia | Department of Public Works  
(734) 466-2705  
[tgabriel@livonia.gov](mailto:tgabriel@livonia.gov)  
[www.livonia.gov](http://www.livonia.gov)



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City of Livonia

Pollution Complaint Tracking Form

Illicit Discharge Elimination Program

Complaint made by: Friends of the Rouge & Susan Thompson

Phone #: \_\_\_\_\_

Date: 6/25/25 Time: 8am

Wayne County

Location of Problem: 20005 Angling Offending Party (if known) \_\_\_\_\_

Nature of Problem (i.e. paper waste, odor, color, etc.): Potential Sewage odor

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: \_\_\_\_\_

Investigation Summary

Initial Investigation

Follow-up Investigation

Date of Investigation: 6-30-25

Investigating Agency: Livonia DPW

Location of Discharge: \_\_\_\_\_

Crew Members:

Ed Hoffman, Lindsay Szejka

Investigation Location: (Rear of the property)

20005 Angling St.

Livonia, MI 48152

Observations (odor, color, volume, etc.):

No Sewage odor detected

Black pipe - Sub pump

White PVC pipe - Radon Detection

Actions Taken (dye testing, notification letter, etc.):

No Action taken at this time.

Once again no Sewage or unnatural odor detected

Were photos taken:  Yes  No

Agency Referred to: \_\_\_\_\_

Agency Contact: \_\_\_\_\_

Method of Communication:

E-mail\*  Letter/memo\*  Phone

\*Attached copies

Content of Communication:

Initial Contact made to:

911

City Dept. DPW

Wayne County (888) 223-2363

Oakland County (248) 858-0931

PEAS Hotline (State) 1-800-292-4706

Other \_\_\_\_\_

Additional Comments:

Talked to the homeowner we were informed that the two pipes were for the sub pump and the Radon detection.

Two larger Dags live on property

Date Corrected or Resolved: \_\_\_\_\_

**\* Follow - up \***  
**Pollution Complaint Tracking Form**

City of Livonia

**Illicit Discharge Elimination Program**

Complaint made by: \_\_\_\_\_

Phone #: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Location of Problem: 20005 Angling Offending Party (if known) \_\_\_\_\_

Nature of Problem (i.e. paper waste, odor, color, etc.): Potential Sewage odor

Is this an Emergency?  No

Yes (then call 911)

Nature of Emergency: \_\_\_\_\_

**Investigation Summary**

Initial Investigation

Follow-up Investigation

Date of Investigation: 7-11-25

Investigating Agency: Livonia DPW

Location of Discharge:  
20005 Angling

Crew Members:

Ed Hoffman, Lindsay Szwajkowski

Investigation Location:

20005 Angling St.  
Livonia, MI 48152

Observations (odor, color, volume, etc.):

- No Sewage odor Detective
- Black pipe - Sub pump
- White PVC pipe - Radon Detection
- Two Dogs on Property
- Groundhog Den under Wooden Stairs

Actions Taken (dye testing, notification letter, etc.):

No Action Taken at this Time

once again NO Sewage order Detected

Were photos taken:  Yes  No

Agency Referred to: \_\_\_\_\_

Agency Contact: \_\_\_\_\_

Method of Communication:

E-mail\*  Letter/memo\*  Phone

\*Attached copies

Content of Communication:

Initial Contact made to:

911

City Dept. DPW

Wayne County (888) 223-2363

Oakland County (248) 858-0931

PEAS Hotline (State) 1-800-292-4706

Other \_\_\_\_\_

Additional Comments:

Visit property of complaint and also properties to the North and South of this location

No Sewage odor Detective

Strong odor under the wooden stairs in the rear of property. Due to a groundhog's Den.

Date Corrected or Resolved: 7/11/25







Ed Hoffman  
Sent from my iPhone  
734-776-2095  
[45acped@live.com](mailto:45acped@live.com)

## **Appendix D6**

### **Novi Pollution Complaint Documentation**

**From:** [neams@cityofnovi.org](mailto:neams@cityofnovi.org)  
**Subject:** Service Request: 53223  
**Date:** Wednesday, July 24, 2024 11:29:05 AM

**Service Request Type:** Illicit Discharge Investigation

**Service Request ID:** 53223

Address	45360 Roundview Dr
Location	
Initiated By	MAYNARD, ANGELA
Date & Time Initiated	7/22/2024 2:42:43 PM
<b>Priority</b>	Medium High
<b>Status</b>	Complete
Submit To	WIKTOROWSKI, MATT
Date Submit To	7/22/2024 2:42:43 PM
Dispatch To	STANLEY, CHRIS C
Date Dispatch To	7/24/2024 7:26:28 AM
<b>Scheduled Completion Date</b>	
Closed By	
Date & Time Closed	
Details	
Comments	<p>By MAYNARD, ANGELA : 7/22/2024 2:42:43 PM Near the homes in Dunbarton Pines between 44828 and 44790 Roundview Looks like grey icky water coming out of the drains in millers Creek Ray Schovers 248-921-9996</p> <p>By WIKTOROWSKI, MATT : 7/24/2024 7:27:02 AM Chris - Please add pictures and note your findings.</p> <p>By STANLEY, CHRIS C: 7/24/2024 10:52:54 AM I checked behind the house and didn't find anything. I then drove through the construction site near the resident and didn't see anything out of the ordinary. I then drove to the dam that Miller Creek passes through and only found clean water. Picture included.</p>
Is Investigation Complete	N
Date & Time Investigation Completed	

**Work Orders**

Work Order	Description	Status	Location	Address
------------	-------------	--------	----------	---------

Id					
----	--	--	--	--	--

## **Appendix E**

### **Municipal Facility Dye Testing Documentation**

Appendix E1. Number of Municipal Facilities with Dye Testing Records by Permittee

Appendix E2. Documentation of Dye Testing Results Livonia

Appendix E3. Documentation of Dye Testing Results Birmingham

Appendix E4. Documentation of Dye Testing Results Redford Township

## **Appendix E1**

### **Number of Municipal Facilities with Dye Testing Records by Permittee**

Dye test status spreadsheet

<b>Community</b>	<b>total number of facilities</b>	<b>number of facilities dye tested</b>	<b>Number needing dye testing</b>
Beverly Hills	3	3	0
Bingham Farms	0	0	0
Birmingham	17	3	15
Bloomfield Hills	3	1	2
Bloomfield Township	6	6	0
Canton Township	21	18	3
Dearborn Heights	12	0	12
Farmington	15	12	3
Farmington Hills	13	13	0
Franklin Village	2	0	2
Garden City	6	6	0
HFC	5	5	0
Inkster	5	0	5
Lathrup Village	8	0	8
Livonia	20	10	0
Melvindale	5	3	2
Northville	6	0	6
Northville Twp	6	5	1
Novi	13	0	13
Oak Park	0	0	0
Plymouth	7	3	4
Plymouth Township	10	5	5
Redford Township	8	8	0
Southfield	12	12	0
Troy	36	0	36
Walled Lake	6	0	6
Wayne	7	2	5
West Bloomfield Township	18	18	0
Westland	25	9	16
<b>Total</b>	<b>295</b>	<b>142</b>	<b>143</b>

## **Appendix E2**

### **Documentation of Dye Testing Results Livonia**

**To:** Trisha Gabriel, Superintendent of Public Works, City of Livonia  
**From:** Emily Levine, Environmental Consulting & Technology, Inc. (ECT)  
**Date:** November 10, 2025  
**Re:** Livonia Facility Dye Testing

---

In support of the City of Livonia compliance with their Municipal Separate Storm Sewer System (MS4) permit, Environmental Consulting & Technology, Inc. (ECT) completed the dye testing of the sanitary plumbing systems of Fire Station 6 and Devonaire Ice Arena. The dye testing revealed that both the buildings are properly connected to the sanitary sewer system.

Best practice is for permittee-owned facilities lacking as-built records to be dye tested to confirm sanitary fixtures are properly connected to the sanitary sewer and not the storm sewer. Records of previous dye testing or as-built drawings were not available for these facilities. Therefore, dye testing was performed. Due to the potential for dye to reach waters of the state, Rule 97 approval was obtained prior to field work.

On October 21, 2025, ECT dye tested sanitary plumbing fixtures in each area of each building. The plumbing fixtures that were selected for dye testing were strategically selected to represent each building's plumbing system based on observed building plumbing system layout. A City employee assisted by watching the sanitary sewers at the sanitary manholes while dye was poured in the plumbing fixtures and flushed with running water. See Attachment A for maps of each facility with sanitary manholes identified.

The following fixtures at Fire Station 6 were dye tested:

1. Floor drain in the bathroom in the garage to the north side of the building
2. Kitchen sink in the living area
3. Bathroom sink in the basement
4. Hand wash station in the shop area

The following fixtures in Devonaire Ice Arena were dye tested:

1. Concessions room sink
2. Women's bathroom near the front
3. Floor drain in the Zamboni room
4. Sink in Locker Room 4 near the east end of the building

In all cases the dye reached sanitary manholes as documented in the field notes (Attachment B). No follow-up investigations are necessary.

If you have any questions, I can be reached at 248-763-1407 or [elevine@ectinc.com](mailto:elevine@ectinc.com).

Attachment A Facilities Maps





## Attachment B Field Notes

Date	Facility	Start Time	Dye Color	Start Location	Time Viewed	Location Viewed
10/21/25	Devonaire Ice Arena	9:26	Red	Concessions Room Sink	9:33	Manhole 1
10/21/25	Devonaire Ice Arena	9:35	Green	Women Bathroom Sink	9:41	Manhole 1
10/21/25	Devonaire Ice Arena	9:44	Red	Zamboni Room Floor Drain	9:47	Manhole 1
10/21/25	Devonaire Ice Arena	9:51	Green	Locker Room 4 Sink	10:20	Manhole 1
10/21/25	Fire Station 6	10:46	Green	Bathroom Floor Drain	10:47	Manhole 1
10/21/25	Fire Station 6	10:52	Red	Kitchen Sink	11:06	Manhole 1
10/21/25	Fire Station 6	11:10	Green	Basement Bathroom Sink	11:15	Manhole 1
10/21/25	Fire Station 6	11:25	Red	Hand Wash Station in shop area	11:28	Manhole 1

## **Appendix E3**

### **Documentation of Dye Testing Results Birmingham**



### Facility Dye Testing Report

City Facility: Birmingham-Bloomfield Art Center Date: September 13, 2024

Address: 1516 S. Cranbrook Road, Birmingham MI 48009 Sidwell: 19-34-426-011

Reported By: Cory Borton, Engineering

#### Individuals Participating

Cory Borton	Engineering Department
Edward Ricketts	Community Development

#### Dye Testing Activities

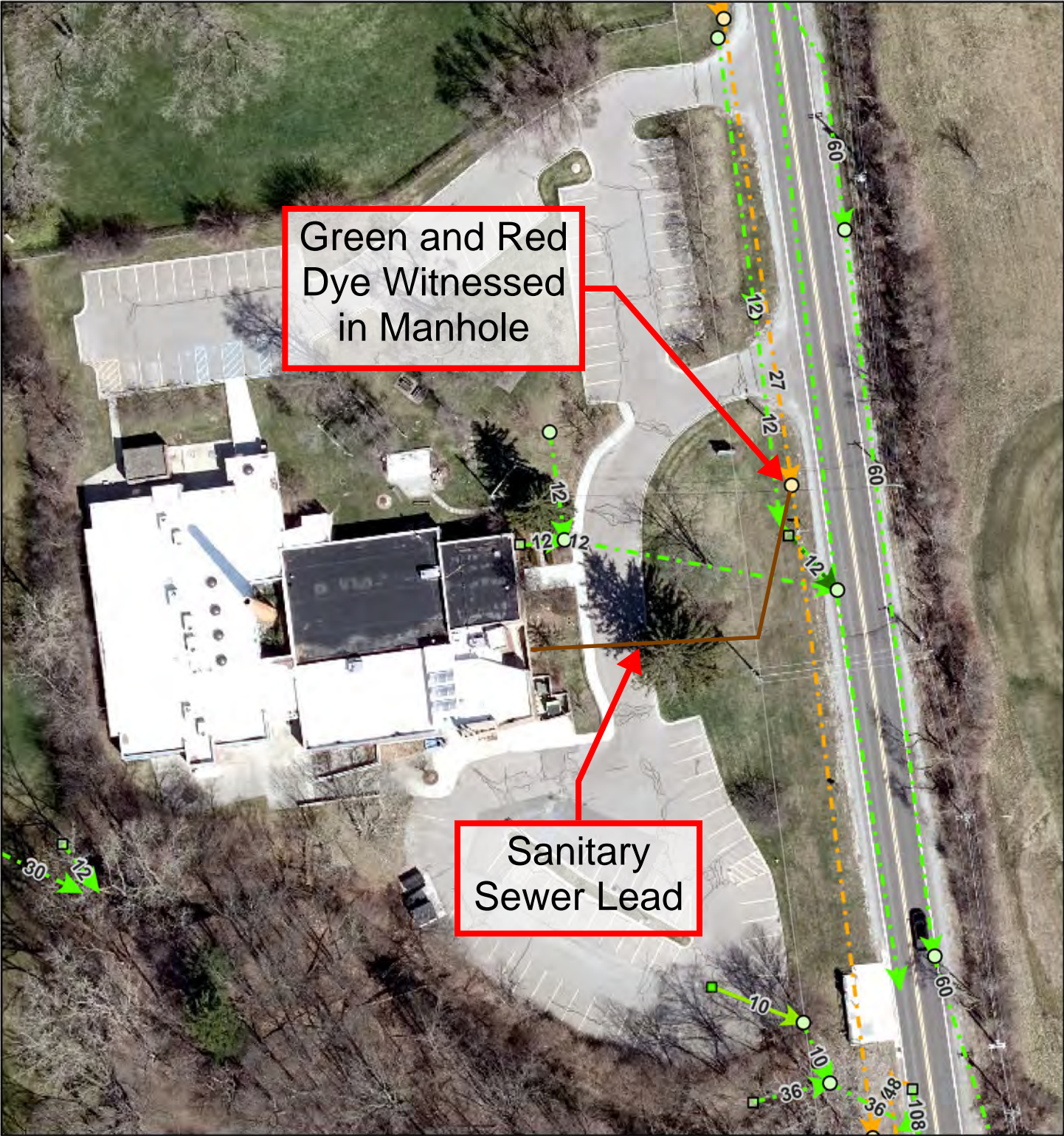
Dye Testing occurred on Friday, September 13, 2024. The sewer lead for this property connects directly into a manhole of a 27" diameter Oakland County sewer. Cory Borton entered the building with the dye, and Edward Ricketts watched at the manhole where the lead discharges to.

Green dye was added to a bathroom toilet on the main floor of the building. It was observed discharging into the sewer manhole. Red dye was added to the mop sink in a utility room on the main floor. The red dye was also witnessed discharging in the sewer manhole.

It was determined that the waste water system for the Birmingham-Bloomfield Art Center is properly connected to the sanitary sewer system.

Reference the attached maps for the location where dye was added in the building, and the location where it was observed discharging to the sanitary sewer.

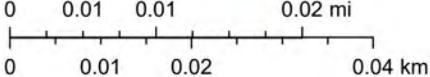
# Birmingham Bloomfield Art Studio



9/16/2024, 7:21:08 PM

1:1,128

- Image
- Red: Band\_1
- Green: Band\_2
- Blue: Band\_3
- Birmingham-Owned Sewer Inlet
- Non-City Sewer Inlet
- Non-City Manhole
- SanitaryManhole
- StormManhole
- Birmingham-Owned Sewer Main
- Catch Basin Lead
- Non-City Sewer Main
- Storm
- Sanitary
- Storm Culvert
- OC Tax Parcels



Oakland County, Michigan, SEMCOG, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



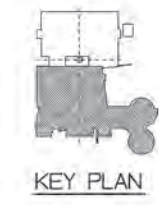
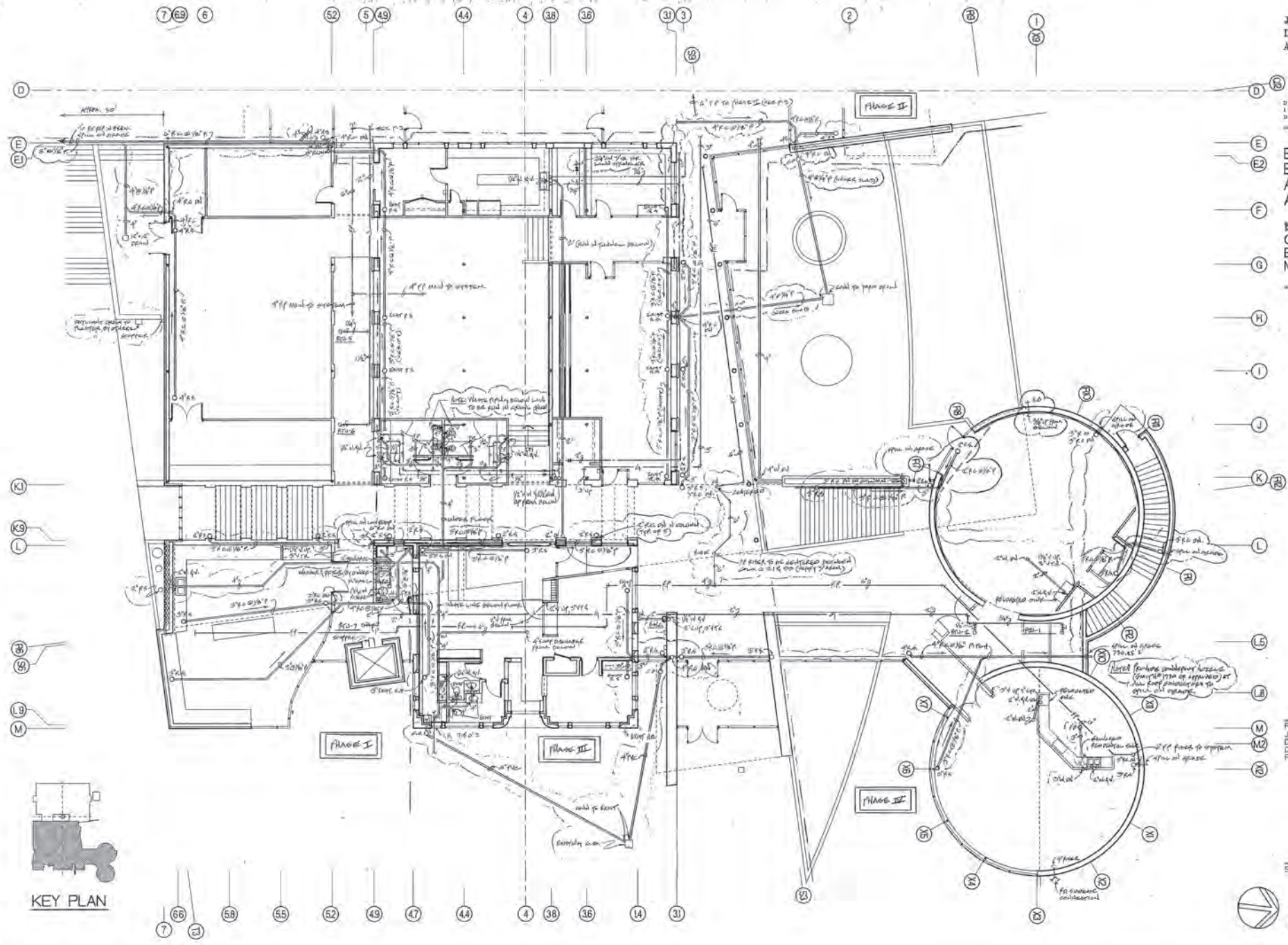
JAMES D. NORDLIE  
DAVID OWEN TRYBA  
ARCHITECTS

2 & 3 Tower, Suite 199  
1801 Arapahoe Street  
Denver, Colorado 80202

BIRMINGHAM  
BLOOMFIELD  
ART  
ASSOCIATION

1516 South  
Cranbrook Road  
Birmingham,  
Michigan 48009

NORTH CONSULTING ENGINEERS  
Suite 25, 14291 W. 14 Mile Road  
BIRMINGHAM, MICHIGAN 48007  
(313) 946-9398



KEY PLAN

FILENAME  
JOB NO. 3117  
DN BY RJA  
DATE 4-7-92  
REVISED 4-17-92  
5-12-92 ADP/MS  
7-3-92 BOW/ST

SHEET  
**P. 2**  
SCALE 1/8" = 1'-0"  
0 5 10

JAMES D NORDLIE  
DAVID OWEN TRYBA  
ARCHITECTS

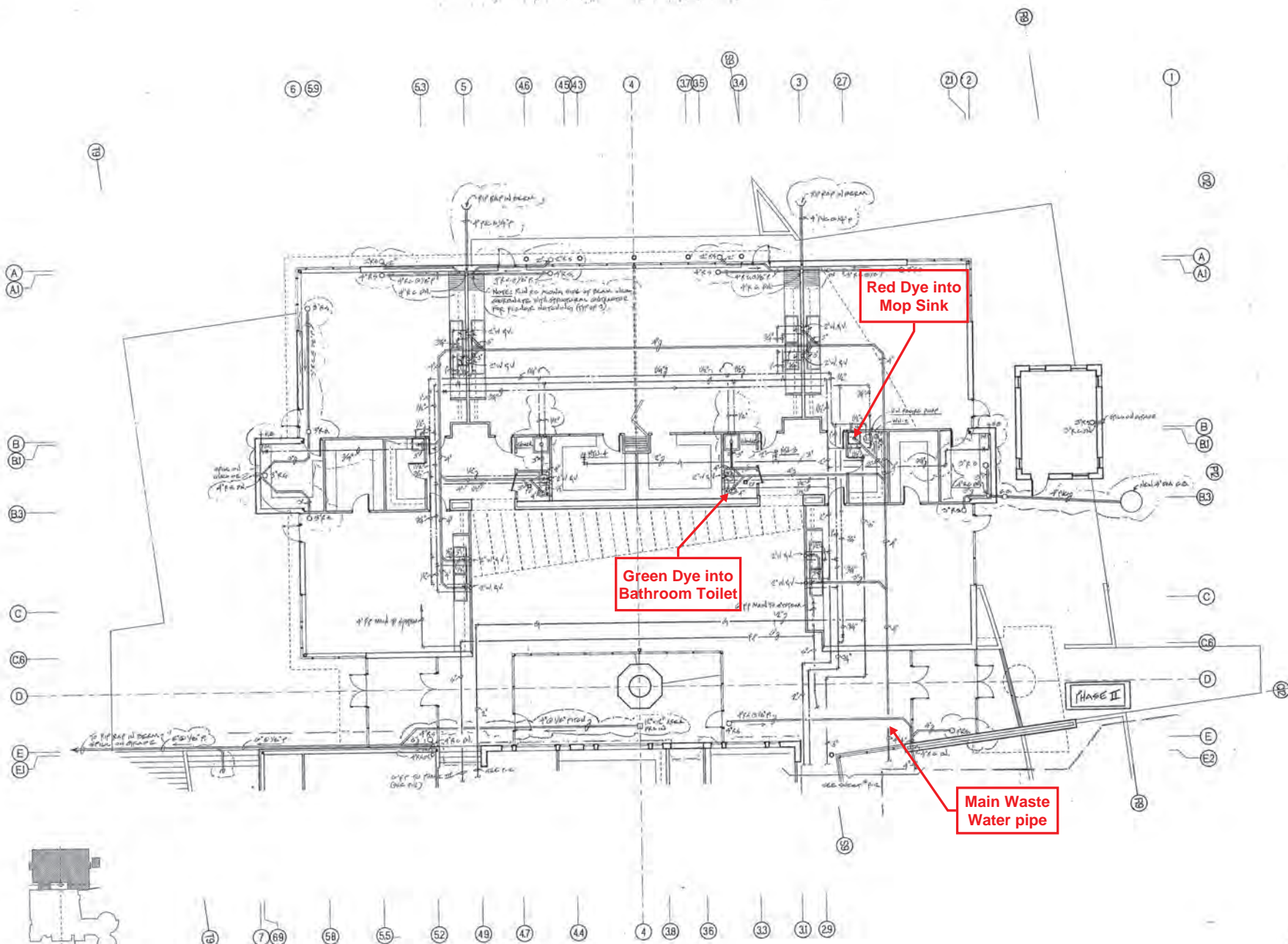


11 & 17 Tower, Suite 401  
1001 Arapahoe Street  
Denver, Colorado 80202

BIRMINGHAM  
BLOOMFIELD  
ART  
ASSOCIATION

1516 South  
Cranbrook Road  
Birmingham,  
Michigan 48009

NORTH CONSULTING ENGINEERS  
Suite 20, 18231 W 143rd Road  
BIRMINGHAM, MICHIGAN 48009  
(313) 616-8500



A  
A1

B  
B1

B3

C

C6

D

E  
E1

B

A  
A1

B  
B1

B3

C

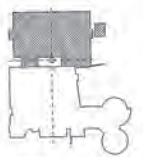
C6

D

E  
E2

B2

6 59 53 5 46 43 43 4 17 15 14 3 27 21 2



KEY PLAN

PHASE II

FILENAME  
JOB NO. 7117  
DWN BY RJA  
DATE 4-7-92  
REVISED 4-11-92  
5-18-92 40002  
7-9-92 10001

SHEET  
P. 3  
of three  
SCALE 1/8" = 1'-0"  
0 5 10 15



### Facility Dye Testing Report

City Facility: Lincoln Hills Golf Course Club House Date: September 5, 2024

Address: 2666 W. 14 Mile Road, Birmingham MI 48009 Sidwell: 19-34-426-011

Reported By: Cory Borton, Engineering

#### Individuals Participating

Cory Borton	Engineering Department
Edward Ricketts	Community Development
Melissa Coatta	Engineering Department
Ryan Ballard	Public Services
Charles Markus	Public Services

#### Dye Testing Activities

Dye Testing occurred on Thursday, September 5, 2024. The Club House at the Lincoln Hills golf course has bathrooms and a kitchen area. The sanitary sewer lead for the Club House extends out of the south side of the building and ties into an Oakland County sewer along 14 Mile Road.

Cory Borton and Edward Ricketts entered the building to administer dye, and Melissa Coatta, Charles Markus, and Ryan Ballard watched at the downstream sanitary sewer manhole on the north shoulder of 14 Mile Road. Green dye was added to a toilet in the Men's restroom, and red dye was added to a sink in the kitchen area. Both colors of dye were observed in the downstream sanitary sewer manhole along 14 Mile Road.

It was determined that the waste water system for the Lincoln Hills Golf Course Club House is properly connected to the sanitary sewer system.

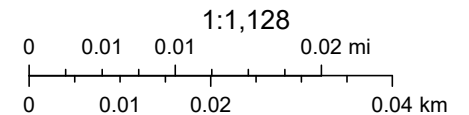
Reference the attached maps for the location of where dye was administered within the building and where it was observed in the sanitary sewer.

# Lincoln Hills Club House



9/18/2024, 3:49:51 PM

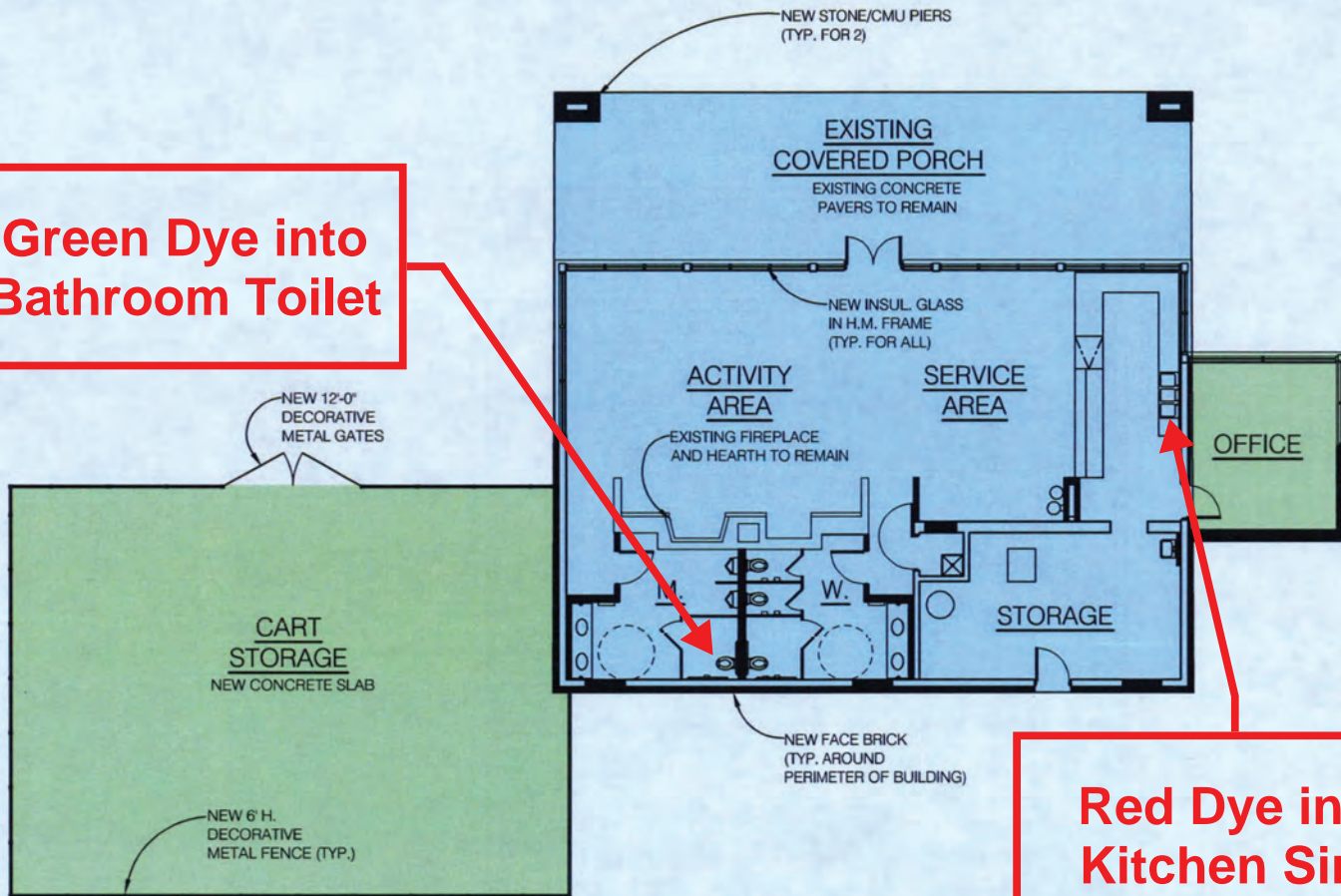
- Image
- Red: Band\_1 Non-City Manhole
  - Green: Band\_2
  - Blue: Band\_3
  - Non-City Sewer Inlet
  - Non-City Sewer Main
  - OC Tax Parcels
  - Storm
  - Sanitary
  - SanitaryManhole



Oakland County, Michigan, SEMCOG, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

**Green Dye into Bathroom Toilet**

**Red Dye into Kitchen Sink**



**PROPOSED FLOOR PLAN**

SCALE: 3/32" = 1'-0"

**SQUARE FOOTAGE**

EXISTING CLUBHOUSE	= 2,258 SF
PROPOSED OFFICE ADDITION	= 243 SF
TOTAL	2,501 SF
PROPOSED CART STORAGE SLAB	= 1,825 SF



### Facility Dye Testing Report

City Facility: Lincoln Hills Golf Course Grounds Facility Date: September 5, 2024

Address: 2666 W. 14 Mile Road, Birmingham MI 48009 Sidwell: 19-34-426-011

Reported By: Cory Borton, Engineering

#### Individuals Participating

Cory Borton	Engineering Department
Edward Ricketts	Community Development
Melissa Coatta	Engineering Department
Ryan Ballard	Public Services
Charles Markus	Public Services

#### Dye Testing Activities

Dye Testing occurred on Thursday, September 5, 2024. The grounds facility at the Lincoln Hills golf course is primarily used for grounds equipment storage, materials storage, and fueling station. The facility has floor drains and one bathroom. The sanitary sewer lead for the facility connects to a sanitary sewer that extends across the golf course.

Melissa Coatta and Edward Ricketts opened the downstream sanitary sewer manhole and storm sewer manhole observe where the dye would discharge to. Cory Borton administered green dye in the bathroom toilet. It was observed in the downstream sanitary sewer manhole. Red dye was added to one of the facility floor drains. The red dye was also witnessed in the downstream sanitary sewer manhole

It was determined that the waste water system for the Lincoln Hills Golf Course Club Grounds Facility is properly connected to the sanitary sewer system. The one parking lot catch basin is connected to the storm sewer system.

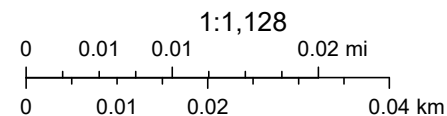
Reference the attached map for the location of where dye was witnessed in the downstream sanitary sewer manhole.

# Lincoln Hills Grounds Facility



9/18/2024, 3:52:52 PM

- |               |                                |                               |                    |
|---------------|--------------------------------|-------------------------------|--------------------|
| Image         | ■ Birmingham-Owned Sewer Inlet | ● StormManhole                | → Sanitary         |
| Red: Band_1   | ■ Birmingham-Owned Manhole     | ■ Birmingham-Owned Sewer Main | → Catch Basin Lead |
| Green: Band_2 | ● SanitaryManhole              | → Storm                       | □ OC Tax Parcels   |
| Blue: Band_3  |                                |                               |                    |



Oakland County, Michigan, SEMCOG, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



### Facility Dye Testing Report

City Facility: Springdale Golf Course Club House Date: September 5, 2024

Address: 300 Strathmore Road, Birmingham MI 48009 Sidwell: 19-24-451-001

Reported By: Cory Borton, Engineering

#### Individuals Participating

Cory Borton	Engineering Department
Edward Ricketts	Community Development
Melissa Coatta	Engineering Department
Ryan Ballard	Public Services

#### Dye Testing Activities

Dye Testing occurred on Thursday, September 5, 2024. The Club House at the Springdale golf course has bathrooms and a kitchen area. The sanitary sewer lead for the Club House connects directly into a manhole behind the building. The sewer then runs along the east golf course property line where it ties into an Oakland County Interceptor sewer.

Cory Borton and Edward Ricketts entered the building to administer dye, and Melissa Coatta watched at the sanitary sewer manhole. Ryan Ballard stood at the storm sewer manhole in front of the building to verify no dye was observed there. Green dye was added to a toilet in the Men's restroom. The dye was observed in the sanitary sewer manhole behind the building. Red dye was then added to a sink in the kitchen area. It was also observed in manhole behind the building.

It was determined that the waste water system for the Springdale Golf Course Club House is properly connected to the sanitary sewer system. The parking lot catch basins connect to the storm sewer system.

Reference the attached maps for the location of where dye was administered within the building and where it was observed in the sanitary sewer.

# Springdale - Club House

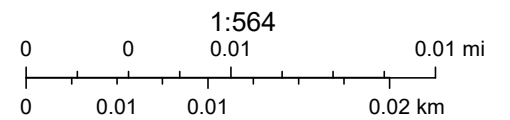


Sanitary  
Sewer Lead

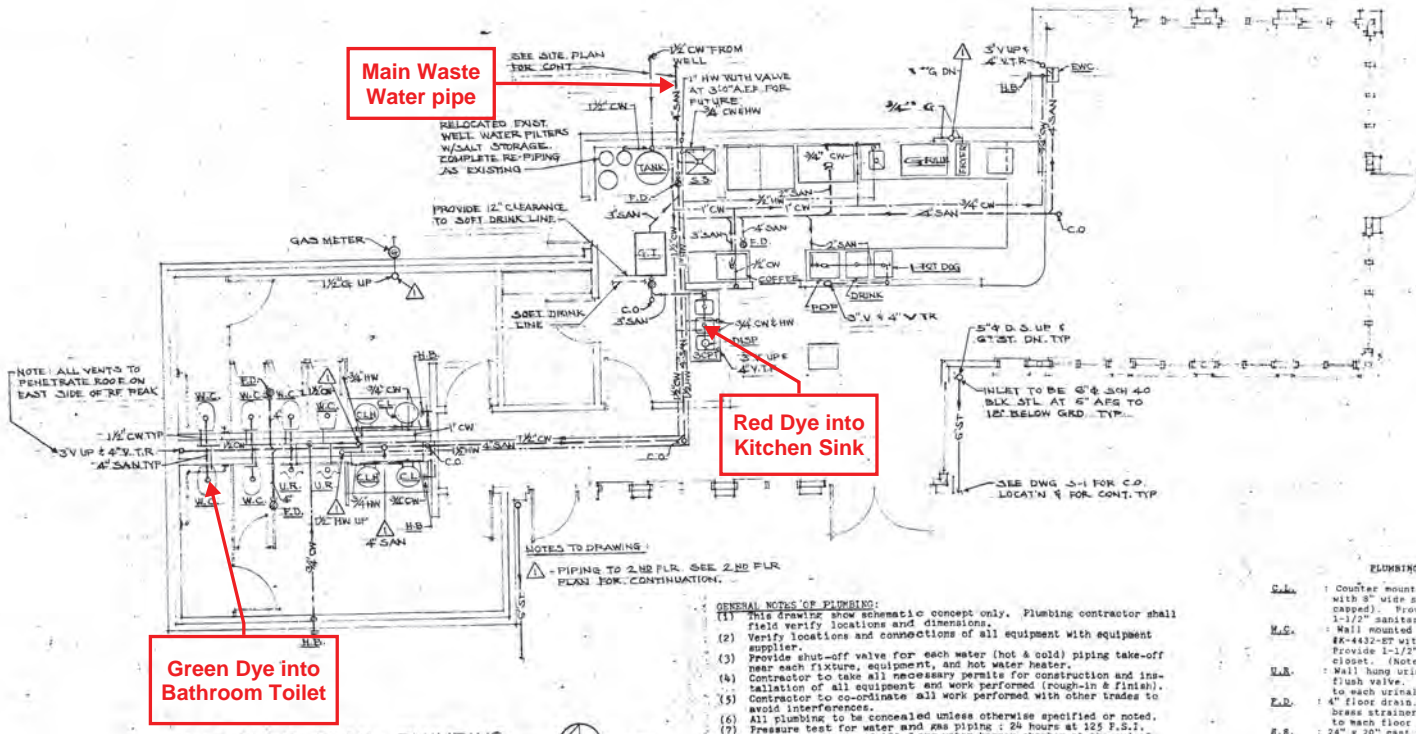
Green and Red  
Dye Witnessed  
in Manhole

9/19/2024, 7:40:49 PM

- |  |   |  |   |
|--|---|--|---|
| Image  | <span style="color: green;">■</span> Birmingham-Owned Sewer Inlet | <span style="color: brown;">—</span> Birmingham-Owned Sewer Main | <span style="color: brown;">—</span> Sewer Service Line   |
| <span style="color: red;">■</span> Red: Band_1     | Non-City Manhole  | <span style="color: green;">➔</span> Catch Basin Lead            | <span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> OC Tax Parcels |
| <span style="color: green;">■</span> Green: Band_2 | <span style="color: yellow;">●</span> SanitaryManhole             | <span style="color: orange;">—</span> Non-City Sewer Main        |   |
| <span style="color: blue;">■</span> Blue: Band_3   |   | <span style="color: orange;">➔</span> Sanitary                   |   |



Oakland County, Michigan, SEMCOG, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



Main Waste Water pipe

Red Dye into Kitchen Sink

Green Dye into Bathroom Toilet

FIRST FLOOR PLAN - PLUMBING  
SCALE: 1/4" = 1'-0"

NOTE: (1) SEE ROOF PLAN SHIT A-8 FOR LOCATN OF VENT STACKS AT ROOF.  
(2) KITCHEN EQUIP. BY OTHERS.

- GENERAL NOTES ON PLUMBING:
- (1) This drawing show schematic concept only. Plumbing contractor shall field verify locations and dimensions.
  - (2) Verify locations and connections of all equipment with equipment supplier.
  - (3) Provide shut-off valve for each water (hot & cold) piping take-off near each fixture, equipment, and hot water heater.
  - (4) Contractor to take all necessary permits for construction and installation of all equipment and work performed (rough-in & finish).
  - (5) Contractor to co-ordinate all work performed with other trades to avoid interferences.
  - (6) All plumbing to be concealed unless otherwise specified or noted.
  - (7) Pressure test for water and gas piping: 24 hours at 125 P.S.I.
  - (8) Provide line size of 18" long water hammer cheater at the end of each of hot and cold water piping.

PLUMBING SPECIFICATIONS:

- Sanitary Waste & Venting  
Materials - IPS schedule 40 PVC.  
Pitches - Not less than 1/8" per foot down in the direction of flow.  
Cleanout - At all turns, every 50' on straight runs, and at all bases of stack vents near floor.
- Water Piping  
Above Ground - Type "L" copper tubing and 50-50 soldered joints.  
Below Ground - Type "K" copper tubing and 95-5 soldered joints.  
Grade - Uniform, 1/8" in 10' in the direction of water flow to drain points.
- Gas Piping  
Above Ground - Schedule 80 welded black steel encased in 6" clean sand.  
Below Ground - Schedule 80 welded black steel encased in 6" clean sand.  
Drips - At bottom of gas risers.  
Shut-off valve - At gas main entry to building and each place of gas using equipment.
- Insulation for Above Ground Piping  
Provide 1" thick of heavy density fiberglass for water (hot & cold) piping. Provide vapor barrier for cold water piping.

PLUMBING LEGEND:

- CW - Cold Water Piping  
HW - Hot Water Piping  
V.V. - Vent Piping  
SAN - Sanitary Piping  
G - Gas Piping  
S - Storm Water Piping  
V.T.R. - Vent Through Roof  
C.O. - Line Size Cleanout

- PLUMBING EQUIPMENT SPECIFICATIONS
- CAL. Counter mounted lavatory, KOHLER "PENNINGTON" #K-2196 with 3" wide spread and with single lever handle (hand-dropped). Provide 1/2" cold water, 1/2" hot water, and 1-1/2" sanitary to each lavatory.
  - W.C. Wall mounted elongate water closet, KOHLER "KINGTON" #K-412-ET with SLOAN flush valve and with OLSOMITE seat. Provide 1-1/2" cold water, and 4" sanitary to each closet. (Note: Provide 3" seat for handicapped W.C.)
  - H.B. Wall hung urinal, KOHLER "BARRON" #K-4940-F with SLOAN flush valve. Provide 3/4" cold water, and 3" sanitary to each urinal.
  - F.D. 4" floor drain, J.R. SMITH #2031-A with flange, 6" pickel brass strainer, and deep-seal trap. Provide 4" sanitary to each floor drain.
  - S.S. 24" x 20" cast iron service sink, KOHLER "BARRON" #K-6716 with K-6673 trap standard and with K-8506 faucet, valve, and vacuum breaker. Provide 3/4" cold water, 3/4" hot water, and 4" sanitary to each sink.
  - W.H. Gas fired domestic hot water heater with flue damper, LOCKHART #C010-08-08P with 80 gallons of storage capacity, recovery of 164 GPH at 100 degree F rise and an input of 180,000 BTUH. Provide 3-1/2" cold water, 1-1/2" hot water with valves to each heater. Install 6" round flue vent for each heater.
  - G.I. Grease intercenter of 25 GPH, 50 LBS (gross capacity), J.R. SMITH #8233-07 with receiving cradle and automatic draw-off. Provide 3" inlet and outlet sanitary with 4" floor drain at inlet for each intercenter.
  - H.E. 3/4" concealed non-freeze wall hydrant with integral vacuum breaker, J.R. SMITH #3509. Provide 3/4" cold water to each hydrant. (I.B. W/INX)
  - ENC. Electric water cooler, ELKAY #ECP11C. (barrier free), or approved equal. Provide 1/2" cold water and 1-1/2" sanitary to each cooler.
  - H.B. Hand sink, Provide 1/2" cold water, 1/2" hot water, and 1-1/2" sanitary.
  - TANK. WELLEXPROL #WX-350HC well water holding tank w/capacity of 315 gallons and 46 GPH at 50 P.S.I. Provide 1-1/2" piping connection with two.
  - SP. RD. GLOBE #G series 1/2" 185 deg. F bronze chrome pendant fire sprinkler head. Install double swing (or spring) check valve for each head.
  - W.C.P. Three compartment sink, Provide 3/4" cold water, 3/4" hot water, and 3" sanitary.
  - DISP. 1-1/4" outside disposer, WASTE KING #3500-1.

Garnet R. Cousins & Associates Architects  
316 1/2 S. Main St.  
Royal Oak, MI 48067  
(313) 360-1000

SPRINGDALE GOLF COURSE CLUB HOUSE  
800 STRATHMORE  
BIRMINGHAM, MI

Issue & Date	By	Checked
8-6-91 OWNER REVIEW		
Revisions		
Drawn by		
Description		
Job No.	Sheet No.	

90-32 P-1



**Facility Dye Testing Report**

City Facility: Springdale Golf Course Grounds Facility Date: September 19, 2024

Address: 300 Strathmore Road, Birmingham MI 48009 Sidwell: 19-24-451-001

Reported By: Cory Borton, Engineering

**Individuals Participating**

Cory Borton	Engineering Department
Edward Ricketts	Community Development

**Dye Testing Activities**

Dye Testing occurred on Thursday, September 19, 2024. The grounds facility at the Springdale golf course is primarily used for grounds equipment storage, materials storage, and fueling station. The facility has floor drains and one bathroom.

The parking area of the facility has two catch basins that connection the storm sewer system and a sanitary sewer manhole that the facility sewer lead connects to. Cory Borton added green dye into one of the facility floor drains. The dye was observed in the sanitary sewer manhole in the parking lot. It was then followed thru the next two downstream manholes until it reached the sanitary sewer line along the east edge of the golf course. This was done to ensure that the sewer line did not illicitly connect to the storm sewer system on the golf course. Red dye was then added to the bathroom toilet and was observed in the downstream sanitary sewer manhole.

It was determined that the waste water system for the Springdale Golf Course Facility is properly connected to the sanitary sewer system. The parking lot catch basins connect to the storm sewer system.

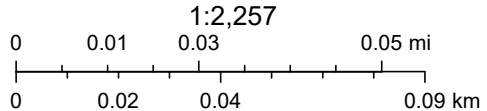
Reference the attached map for the location of where dye was observed in the sanitary sewer.

# Springdale - Grounds Facility



9/19/2024, 7:44:06 PM

- |  |   |  |   |
|--|---|--|---|
| Image  | <span style="color: green;">■</span> Birmingham-Owned Sewer Inlet | <span style="color: green;">●</span> StormManhole  | Non-City Sewer Main                                     |
| <span style="color: red;">■</span> Red: Band_1     | <span style="color: gray;">■</span> Non-City Sewer Inlet          | <span style="color: gray;">●</span> Non-City Manhole   | <span style="color: orange;">➤</span> Sanitary          |
| <span style="color: green;">■</span> Green: Band_2 | <span style="color: green;">■</span> Birmingham-Owned Manhole     | <span style="color: orange;">●</span> SanitaryManhole  | <span style="color: brown;">—</span> Sewer Service Line |
| <span style="color: blue;">■</span> Blue: Band_3   | <span style="color: orange;">●</span> SanitaryManhole             | <span style="border: 1px solid gray; display: inline-block; width: 10px; height: 10px;"></span> OC Tax Parcels |   |



Oakland County, Michigan, SEMCOG, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

## **Appendix E4**

### **Documentation of Dye Testing Results Redford Township**

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-19-25

DPS BUILDING

Address or Location 12200 BEECH DALY RD.

Requested by:

NAME: WATER SUPERINTENDENT.

Tel No. \_\_\_\_\_

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

Dye Test Storm basins  
GREEN DYE

### Explanation of work performed:

11-19-25 Dye tested storm patch basins started with drain on east side of building in front of garage door followed dye and created attached map for reference.

11-24-25 TESTED MEN'S/LADIES ROOMS AND UNISEX IN MEETING ROOM IN OFFICE AREAS  
TESTED MEN'S/UNISEX ROOMS IN PARKING AREA.  
TESTED INTERIOR PARKING FLOOR DRAIN BY: WATER CREW  
DISCHARGE VERIFIED IN SEWER MAIN NORTH OF BLDG. NEAR BEECH DALY RD. BRASHEMENT.

Date Completed: 11-19-25 By: AESC 56-UF

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 12-8-25

SANITATION (FLOOR DRAIN)

Address or Location 12300 BEECH DALY

Requested by:

NAME: \_\_\_\_\_

Tel No. \_\_\_\_\_

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

Test Floor Drain  
for Discharge Point

### Explanation of work performed:

flushed Green dye down floor drain in  
Dimitroff garage followed dye from manhole  
outside north rolling door to sewer main  
located on the north side of Capital Street. Noted  
on map

Date Completed: 12-8-25

By: [Signature]

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-24-25

CLUB HOUSE

Address or Location 25345 6 mile

Glenhurst Club house  
Requested by:

NAME: Tom WATER SUPERINTENDENT

Tel No. \_\_\_\_\_

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

Dye Test for sewer discharge point  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Explanation of work performed:

confirmed discharge point at end of west parking lot

42.413859°N 83.292325°W

TESTED MEN'S / LADIES BATHROOMS.

Date Completed: 11-24-25

By: [Signature]

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

Date 12-30-25

### REQUEST FOR MISCELLANEOUS SERVICES

GLENNHURST MAINTENANCE BLDG. (NORTH BLDG - WEST 6 mile)

MAINTENANCE BUILDING

Address or Location 25773 SIX MILE RD.

Requested by:

NAME: WATER DEPT.

Tel No. \_\_\_\_\_

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

Dye test North Building  
Drains

### Explanation of work performed:

dye tested interior drains of building Green.  
Confirmed in sewer manhole @ 25345 6 miles

Date Completed: 12-30-25

By: MH MM KL

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 12-30-25

GLENHURST STORAGE BLDG. (South of MAINTENANCE BLDG.)

Address or Location

STORAGE BLDG  
25773 SIX MILE RD.

Requested by:

NAME:

WATER DEPT.

Tel No.

To Be Filled In By Office:

CHARGE

NO CHARGE

COMMENTS:

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

Dye test South Maintenance  
Buildings

### Explanation of work performed:

Dye tested South Maintenance Buildings Drains. Confirmed Blue  
dye in Sewer Drain located 25345 6 mile.

Date Completed:

12-30-25

By:

MJ MM MM KL

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-19-25

TOWNHALL

Address or Location 15145 BEECH DALY RD.

Requested by:

NAME: WATER SUPERINTENDENT

Tel No. 1

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

DYE TEST FOR SEWER  
DISCHARGE  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Explanation of work performed:

TESTED: MEN'S ROOM AND LADIES ROOM ON 2ND, 1ST, AND BASEMENT FLOORS.  
POSITIVELY IDENTIFIED OPEN DYE IN SEWER MAIN. DISCHARGE VERIFIED  
USING MANHOLE LOCATED AT MAIN ENTRANCE OF 17TH DISTRICT COURT  
BUILDING, 15111 BEECH DALY RD.

Date Completed: 11-19-25 By: WATER CREW

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-19-25

COURT

Address or Location

15111 Beech Daly

Requested by:

NAME:

Tel No.

To Be Filled In By Office:

CHARGE

NO CHARGE

COMMENTS:

Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

Additional Information:

Dye test  
17<sup>th</sup> District Court  
BLUE DYE

Explanation of work performed:

used blue dye in janters closet @ location to  
confirm discharge point. shortly after flushing dye  
confirmed discharge to sewer main from manhole  
immediately East of main ~~at~~ entrance to court building.

WENT BACK 11-24-25. BLUE DYE. CHECKED ALL MEN'S/LADIES  
BATHROOMS. DISCHARGE VERIFIED AT SAME MANHOLE ABOVE. 15111 BEECH  
DALY RD.

Date Completed:

11-19-25

By:

JE SG-JL CP

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-19-25

POLICE STATION (BUILDING)

Address or Location 25433 ELYNDRE ST.

Requested by:

NAME: WATER SUPERINTENDENT

Tel No. \_\_\_\_\_

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair     | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter    | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break | <input type="checkbox"/> Stop Box Repair                      |
| <input type="checkbox"/> Miscellaneous    | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

DYE TEST P.D. BLDG.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Explanation of work performed:

DYE TESTED MEN'S/LADIES BATHROOMS ON 3RD, 2ND, 1ST FLOORS.  
POSITIVELY IDENTIFIED GREEN DYE IN SEWER MAIN. DISCHARGE VERIFIED  
USING MANHOLE LOCATED AT MAIN ENTRANCE OF 17TH DISTRICT COURT  
BUILDING 15111 BEACH DAILY RD.

Date Completed: 11-19-25

By: WATER CREW

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-19-25

POLICE BASEMENT

Address or Location 25833 Elsinore St.

Requested by:

NAME: WATER SUPERINTENDENT

Tel No. \_\_\_\_\_

To Be Filled In By Office:

CHARGE

NO CHARGE

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

### Type of Work Requested:

- |   |   |
|---|---|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident<br>Y N               |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L                   |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair                      |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair                       |

### Additional Information:

Dye test lift/pump station in basement of police station

### Explanation of work performed:

located pump/lift station in police station. tested with green dye. was able to locate discharge in storm drain located in the south west section of the parking lot. chased run off to 36" storm drain going south on morrowe. dye close not connect into sewer system.

NOTE: STORM DRAIN AT BOTTOM OF POLICE GARAGE PARKING RAMP TAKES IN THE RAIN - SENDS IT TO PUMP LIFT INSIDE GARAGE PARKING AREA AND PUMPS IT TO THE STORM DRAIN SYSTEM IN THE OUTDOOR PARKING LOT.

Date Completed: 11-19-25

By: JAC XJG-CF

# REDFORD TOWNSHIP

## WATER AND SEWER DEPARTMENT

REQUEST FOR MISCELLANEOUS SERVICES

Date 11-24-25

*MAQUÉE*

Address or Location

15150 Norborne

*the Maquee*  
Requested by:

NAME:

WATER SUPERINTENDENT

Tel No.

To Be Filled In By Office:

CHARGE

NO CHARGE

COMMENTS:

### Type of Work Requested:

- |   |   |                              |
|---|---|------------------------------|
| <input type="checkbox"/> Meter Repair             | <input type="checkbox"/> Turn On            | <input type="checkbox"/> Off |
| <input type="checkbox"/> Install Meter            | <input type="checkbox"/> Called Resident    |                              |
| <input type="checkbox"/> Sewer Inspection         | <input type="checkbox"/> Copper or Lead C L |                              |
| <input type="checkbox"/> Water Main Break         | <input type="checkbox"/> Stop Box Repair    |                              |
| <input checked="" type="checkbox"/> Miscellaneous | <input type="checkbox"/> Hydrant Repair     |                              |

### Additional Information:

*Dye test sewer discharge point*

### Explanation of work performed:

*confirmed sewer discharge point (R) 15104 Norborne on just East of building, section 21*

*TESTED MEN'S/LADIES BATHROOMS IN PUBLIC AREA AND UNISEX BATHROOM IN STORAGE AREA. GREEN DYE.*

Date Completed: 11-24-25

By:

*[Signature]*

## **Appendix F**

### **Technical Committee Meeting Attendance**

# ARC Technical / PIE Committee

## Sign-in Sheet

3/5/24

Name	Representing	Phone Number	E-mail
Tyler Song	Farmington Hills	248-871-2533	tsongga@fhgov.com
Laura Hartman	West Bloomfield	248-451-4815	LHartman@wbtownship.org
David Schmidt	City of Wayne	734 721 8600	dschmidt@cityofwayne.com
Kris Malcomson	City of Wayne	734 728 9100	Kmalcomson@cityofwayne.com
Dean Taanan	Citizen		dean830@gmail.com
Jana Gregor	DLZ	248.855.4063	Jgregor@dlz.com
Noel Mullett	ARC STAFF	248 207 4890	nmullett@arc.com
Robert Conrad	Dearborn Heights	313 791-6000	rconrad@dearbornheights.com
David Fogle	U-M - Dearborn	313.583.6679	dfogle@umich.edu
Hekma Rice	Washtenaw Co	734 222 6833	riceh@washtenaw.org
Alex Kozlowski	Bloomfield Twp	248-594-2808	akozlowski@bloomfieldtwp.org
Nate Jessee	Road Comm. Oakland Co.	248-645-2000	njessee@rcoc.org
Chuck Ewry	Farmington	248-475-7250	cewry@farmingtonmi.com
Lacey Luckett	VAN BUREN Twp	734-391-7270	LLuckett@vanbur.com
Emily Alisc			
Trishabonnie	Livonia	(734) 466-2705	trishabonnie@livonia.gov
Doug Moore	Livonia	(734) 466-2617	dmoore@livonia.gov
Jerome Bivins	INKSTER	(313) 563-7774	jbivins@cityofinkster.com
Cory Borton	Birmingham	248-530-1838	cborton@bhamgov.org
Rebecca Runkel	Novi	248 514-5345	rrunkel@cityofnovi.com
JOHN SELMI	CANTON		john.selmi@cantonmi.gov
Jason Rosell	West Bloomfield Twp	248-451-4885	jrosell@wbtownship.org
Tim Siska	Wixom	248-521-9605	TSiska@wixomgov.com
Senmed Saik	Orchard Lake	810 394 7887	
Mardora	FT		
B Siedlaczek	Southfield	248-796-4804	bsiedlaczek@cityofsouthfield.com
Valerie Noraes	northville	248-935-8557	valerie.noraes@northvillemi.com
			advisors.com



## 1. Summary

Meeting title ARC Joint Technical/PIE Committee Meeting

Attended participants 38

Start time "10/24/24, 8:51:27 AM"

End time "10/24/24, 9:34:10 AM"

Meeting duration 42m 43s

Average attendance time 32m 8s

## 2. Participants

Name	First Join	Last Leave	In-Meeting Duration	Email	Participant ID (UPN)	Role
Chris E. O'Meara	"10/24/24, 8:53:28 AM"	"10/24/24, 8:53:28 AM"	"10/24/24, 9:33:33 AM"	35m 58s	comeara@ectinc.com	Organizer
Noel Mullett	"10/24/24, 8:56:12 AM"	"10/24/24, 8:56:12 AM"	"10/24/24, 9:33:40 AM"	37m 27s	nmullett@ectinc.com	Presenter
Emily Levine	"10/24/24, 8:56:14 AM"	"10/24/24, 8:56:14 AM"	"10/24/24, 9:33:44 AM"	37m 29s	elevine@ectinc.com	Presenter
Laura Gruzowski (External)	"10/24/24, 9:00:14 AM"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:32 AM"	33m 18s	lgruzowski@dlz.com	Presenter
Tom Rowland (External)	"10/24/24, 9:00:14 AM"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:32 AM"	33m 17s	trowland@redfordtwp.com	Presenter
"Allen, Ashley (External)"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:31 AM"	33m 16s	AAllen@hrcengr.com	Presenter
Neil Johnston (External)	"10/24/24, 9:00:14 AM"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:31 AM"	33m 16s	njohnston@villagebeverlyhills.com	Presenter
Kara Grisamer (External)	"10/24/24, 9:00:14 AM"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:30 AM"	33m 16s	kgrisamer@oakparkmi.gov	Presenter
Chelsea Pesta- Walled Lake (Unverified)	"10/24/24, 9:00:14 AM"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:45 AM"	33m 30s		Presenter

"Moore, Doug (External)"	"10/24/24, 9:00:14 AM"	"10/24/24, 9:33:34 AM"	33m
19s	dmoore@livonia.gov	dmoore@livonia.gov	Presenter
"Kohn, Joel W (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:30 AM"	33m
15s	kohnj@oakgov.com	KohnJ@oakgov.com	Presenter
"Runkel, Rebecca (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:28 AM"	33m
13s	rrunkel@cityofnovi.org	rrunkel@cityofnovi.org	Presenter
Brad Ohman (External)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:42 AM"	33m
27s	BradO@Gardencitymi.org	BradO@gardencitymi.org	Presenter
"Adam Gerlach, Plymouth City (Unverified)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:33 AM"	33m
18s			Presenter
"Jessee, Nathaniel (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:31 AM"	33m
16s	njessee@rcoc.org	njessee@rcoc.org	Presenter
Dave Fogle (Unverified)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:33 AM"	33m
17s			Presenter
Heather Rice	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:32 AM"	33m
17s	riceh@washtenaw.org	RICEH@washtenaw.org	Presenter
"Palace, Paul (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:33 AM"	33m
17s	PPalace@bloomfieldtwp.org	PPalace@bloomfieldtwp.org	Presenter
Tyler Sonoga (External)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:30 AM"	33m
14s	TSonoga@fhgov.com	TSonoga@fhgov.com	Presenter
Lisa McGill (External)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:51 AM"	33m
35s	lmcgill@farmgov.com	lmcgill@farmgov.com	Presenter
"Garrison, Jacy L (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:32 AM"	33m
16s	garrisonj@oakgov.com	GarrisonJ@oakgov.com	Presenter
"Gabriel, Trisha (External)"	"10/24/24, 9:00:16 AM"	"10/24/24, 9:33:30 AM"	33m
14s	tgabriel@livonia.gov	tgabriel@livonia.gov	Presenter
Kirk Malcomson (Unverified)	"10/24/24, 9:00:37 AM"	"10/24/24, 9:33:37 AM"	32m
59s			Presenter
Jessica Katers (External)	"10/24/24, 9:00:37 AM"	"10/24/24, 9:33:26 AM"	32m
48s	jessica.katers@ohm-advisors.com	Jessica.Katers@ohm-advisors.com	Presenter

Sally Petrella (Unverified)	"10/24/24, 9:00:38 AM"	"10/24/24, 9:33:28 AM"	32m 50s	Presenter
Cory Borton - Birmingham (Unverified)	"10/24/24, 9:00:55 AM"	"10/24/24, 9:33:31 AM"	32m 36s	Presenter
"Pollizzi, Marie (External)"	"10/24/24, 9:00:55 AM"	"10/24/24, 9:33:36 AM"	32m 40s	mpollizzi@fsb.bank mpollizzi@fsb.bank Presenter
"Pasienza, Bailee (External)"	"10/24/24, 9:01:20 AM"	"10/24/24, 9:33:29 AM"	32m 9s	pasienza@semcog.org pasienza@semcog.org Presenter
John Selmi (External)	"10/24/24, 9:01:21 AM"	"10/24/24, 9:33:28 AM"	32m 7s	john.selmi@cantonmi.gov john.selmi@cantonmi.gov Presenter
Brad Byrd (External)	"10/24/24, 9:01:21 AM"	"10/24/24, 9:33:39 AM"	32m 18s	brad.byrd@cantonmi.gov brad.byrd@cantonmi.gov Presenter
John O'Meara	"10/24/24, 9:01:43 AM"	"10/24/24, 9:33:32 AM"	31m 48s	jomeara@ectinc.com jomeara@ectinc.com Presenter
Scott G Finlay (External)	"10/24/24, 9:02:14 AM"	"10/24/24, 9:33:31 AM"	31m 17s	FinlaySG@troy.mi.gov FinlaySG@troy.mi.gov Presenter
Don Straub - City of Romulus (Unverified)	"10/24/24, 9:06:00 AM"	"10/24/24, 9:34:10 AM"	28m 10s	Presenter
Susan Thompson Wayne County (Unverified)	"10/24/24, 9:06:28 AM"	"10/24/24, 9:33:32 AM"	27m 4s	Presenter
"Siedlaczek, Brandy (External)"	"10/24/24, 9:08:07 AM"	"10/24/24, 9:33:35 AM"	25m 27s	bsiedlaczek@cityofsouthfield.com bsiedlaczek@cityofsouthfield.com Presenter
Melissa Coatta (City of Birmingham) (Guest) (Unverified)	"10/24/24, 9:08:16 AM"	"10/24/24, 9:33:34 AM"	25m 18s	Presenter
"Anjum, Humna (External)"	"10/24/24, 9:08:57 AM"	"10/24/24, 9:33:34 AM"	24m 36s	hanjum@cityofnovi.org hanjum@cityofnovi.org Presenter
Sermed Saif (External)	"10/24/24, 9:10:34 AM"	"10/24/24, 9:33:43 AM"	23m 8s	ssaif@tri-countyeng.com ssaif@tri-countyeng.com Presenter

### 3. In-Meeting Activities

Name	Join Time	Leave Time	Duration	Email	Role
Chris E. O'Meara	"10/24/24, 8:53:28 AM"			"10/24/24, 8:54:28 AM"	59s
comeara@ectinc.com		Organizer			
Chris E. O'Meara	"10/24/24, 8:58:34 AM"			"10/24/24, 9:33:33 AM"	34m 59s
comeara@ectinc.com		Organizer			
Noel Mullett	"10/24/24, 8:56:12 AM"		"10/24/24, 9:33:40 AM"		37m 27s
nmullett@ectinc.com		Presenter			
Emily Levine	"10/24/24, 8:56:14 AM"		"10/24/24, 9:33:44 AM"		37m 29s
elevine@ectinc.com		Presenter			
Laura Gruzowski (External)	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:32 AM"		33m 18s
lgruzowski@dlz.com		Presenter			
Tom Rowland (External)	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:32 AM"		33m 17s
trowland@redfordtwp.com		Presenter			
"Allen, Ashley (External)"	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:31 AM"		33m 16s
AAllen@hrcengr.com		Presenter			
Neil Johnston (External)	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:31 AM"		33m 16s
njohnston@villagebeverlyhills.com		Presenter			
Kara Grisamer (External)	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:30 AM"		33m 16s
kgrisamer@oakparkmi.gov		Presenter			
Chelsea Pesta- Walled Lake (Unverified)	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:45 AM"		33m 30s
		Presenter			
"Moore, Doug (External)"	"10/24/24, 9:00:14 AM"		"10/24/24, 9:33:34 AM"		33m 19s
dmoore@livonia.gov		Presenter			
"Kohn, Joel W (External)"	"10/24/24, 9:00:15 AM"		"10/24/24, 9:33:30 AM"		33m 15s
kohnj@oakgov.com		Presenter			
"Runkel, Rebecca (External)"	"10/24/24, 9:00:15 AM"		"10/24/24, 9:33:28 AM"		33m 13s
rrunkel@cityofnovi.org		Presenter			
Brad Ohman (External)	"10/24/24, 9:00:15 AM"		"10/24/24, 9:33:42 AM"		33m 27s
BradO@Gardencitymi.org		Presenter			
"Adam Gerlach, Plymouth City (Unverified)"	"10/24/24, 9:00:15 AM"		"10/24/24, 9:33:33 AM"		33m 18s
		Presenter			

"Jessee, Nathaniel (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:31 AM"	
33m 16s	njessee@rcoc.org	Presenter	
Dave Fogle (Unverified)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:33 AM"	33m
17s	Presenter		
Heather Rice	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:32 AM"	33m 17s
riceh@washtenaw.org	Presenter		
"Palace, Paul (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:33 AM"	33m
17s	PPalace@bloomfieldtwp.org	Presenter	
Tyler Sonoga (External)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:30 AM"	33m
14s	TSonoga@fhgov.com	Presenter	
Lisa McGill (External)	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:51 AM"	33m
35s	lmcgill@farmgov.com	Presenter	
"Garrison, Jacy L (External)"	"10/24/24, 9:00:15 AM"	"10/24/24, 9:33:32 AM"	33m
16s	garrisonj@oakgov.com	Presenter	
"Gabriel, Trisha (External)"	"10/24/24, 9:00:16 AM"	"10/24/24, 9:33:30 AM"	33m
14s	tgabriel@livonia.gov	Presenter	
Kirk Malcomson (Unverified)	"10/24/24, 9:00:37 AM"	"10/24/24, 9:33:37 AM"	
32m 59s	Presenter		
Jessica Katers (External)	"10/24/24, 9:00:37 AM"	"10/24/24, 9:33:26 AM"	32m
48s	jessica.katers@ohm-advisors.com	Presenter	
Sally Petrella (Unverified)	"10/24/24, 9:00:38 AM"	"10/24/24, 9:33:28 AM"	32m
50s	Presenter		
Cory Borton - Birmingham (Unverified)	"10/24/24, 9:00:55 AM"	"10/24/24, 9:33:31 AM"	
32m 36s	Presenter		
"Pollizzi, Marie (External)"	"10/24/24, 9:00:55 AM"	"10/24/24, 9:33:36 AM"	32m
40s	mpollizzi@fsb.bank	Presenter	
"Pasienza, Bailee (External)"	"10/24/24, 9:01:20 AM"	"10/24/24, 9:33:29 AM"	
32m 9s	pasienza@semcog.org	Presenter	
John Selmi (External)	"10/24/24, 9:01:21 AM"	"10/24/24, 9:33:28 AM"	32m 7s
	john.selmi@cantonmi.gov	Presenter	

Brad Byrd (External)	"10/24/24, 9:01:21 AM"	"10/24/24, 9:33:39 AM"	32m 18s
brad.byrd@cantonmi.gov	Presenter		
John O'Meara	"10/24/24, 9:01:43 AM"	"10/24/24, 9:33:32 AM"	31m 48s
jomeara@ectinc.com	Presenter		
Scott G Finlay (External)	"10/24/24, 9:02:14 AM"	"10/24/24, 9:33:31 AM"	31m 17s
FinlaySG@troymi.gov	Presenter		
Don Straub - City of Romulus (Unverified)	"10/24/24, 9:06:00 AM"	"10/24/24, 9:34:10 AM"	28m 10s
	Presenter		
Susan Thompson Wayne County (Unverified)	"10/24/24, 9:06:28 AM"	"10/24/24, 9:33:32 AM"	27m 4s
	Presenter		
"Siedlaczek, Brandy (External)"	"10/24/24, 9:08:07 AM"	"10/24/24, 9:33:35 AM"	25m 27s
bsiedlaczek@cityofsouthfield.com	Presenter		
Melissa Coatta (City of Birmingham) (Guest) (Unverified)	"10/24/24, 9:08:16 AM"		
"10/24/24, 9:33:34 AM"	25m 18s	Presenter	
"Anjum, Humna (External)"	"10/24/24, 9:08:57 AM"	"10/24/24, 9:33:34 AM"	24m 36s
hanjum@cityofnovi.org	Presenter		
Sermed Saif (External)	"10/24/24, 9:10:34 AM"	"10/24/24, 9:33:43 AM"	23m 8s
ssaif@tri-countyeng.com	Presenter		

ARC Tech/PIE Committee  
Sign-in Sheet

3/6/25

Name	Representing	Phone Number	E-mail
David Fogle	UM - Dearborn	313.553.6679	dfogle@umich.edu
Joel Kohn	OC WRC		kohnj@odagov.com
Hesther Rice	WRC	234-222-6833	riceh@washington.gov
Justine Noel McHett	Wayne County ARC	313-999-6266 248-207-4890	
Larry Lockett	VAN BUREN Twp	734-699-8913	llockett@vbtmi.gov
Chelsea Pesta	Walled Lake	248-624-4847	cpesta@walledlake.com
Tyler Sengosa	Farmington Hills	248-871-2533	tsengosa@fhga.com
TIM SIMON	Wixom	248-521-9605	tsimon@wixom.gov
Russ Pierson	Wixom	248-830-0390	R.Pierson@WixomGov.org
Jacy Garrison	OC WRC	248-858-5264	garrisonj@odagov.com
Nate Jesse	Road Comm. O.C.	248-645-2000	njessie@rcol.org
BRAD OHMAN	BARDEN City	734-793-1305	brad@barndcitymi.org
Alex Kozlowski	Bloomfield Twp	248-594-2808	akozlowski@bloomfieldtwp.org
PAUL PALACE	Bloomfield Twp	248-594-2801	ppalace@bloomfieldtwp.org
Laura Hactman	WBloomfield	248-451-4815	LHactman@wbloomfieldtwp.org
Inshakwari	Livonia	(734) 466-2705	tgawari@livonia.gov
DOUG MOORE	Livonia	734 466-2617	
JOAN SELAI	CANTON		
Valerie Novas	Northville	248-935-8557	valerie.novas@dmn-advisor.com
Leigh Schultz	Southfield	248-796-4812	LSCHULTZ@CITYOFSOUTHFIELDMI
Rebecca Runkel	Novi	248-735-5694	rrunkel@cityofnovi.org
Don Stramb	Romulus	734-732-1278	dstramb@romulus.gov
Kara Brisamer	Oak Park	248-691-7564	Kbrisamer@oakparkmi.gov
BOB BELAIR	NORTHVILLE Twp.		
Latoria Joyce	Inkster	313-737-0087	Hripzett@cityofinkster.com
Jerome Divins	INKSTER	313-401-9338	jdivins@cityofinkster.com
Melissa Coatta	Birmingham	248-530-1839	mcoatta@bhamgov.org



ARC Joint Tech/PIE Com. Mtg.  
Sign-in Sheet

• pollution contact

11/4/25

Name	Representing	Phone Number	E-mail
Joel Kohn	OCWRC		Kohn.j@oakgov.com
Doug Messer	LIVONIA		
Tyler Senoga	Farmington Hills	248 871 2533	tsenoga@fhgov.com
Doel Wullett	ARC/ACT	248 207 4890	wullett@actinc.com
STEVE MICHALAK	GARDEN CITY	734 793 1800	STEVE.M@GARDEN CITY MI
LAURA HARTMAN	West Bloomfield	248 451 4815	LHARTMAN@WBTownship.org
Nate Jessee	Road Comm. O.C.	248 645 2000	njessee@rcoc.org
JOSH LEACH	FARMINGTON	248-473-7250	JLEACH@FARMHILLS.COM
Trina Gabriel	Livonia	(734) 466-2705	trina.gabriel@livonia.gov
Jacy Garrison	OCWRC	248 421 1706	garrison.j@oakgov.com
David Fogle	UM-Dearborn	313.583.6679	dfogle@umich.edu
Cory Barton	Bloomfield Twp		cbarton@bloomfieldtwp.gov
DEAN KEEFER	CITY OF WESTLAND	734-466-4493	dean.keefe@ohm-advisors.com
Heather Rice	Washkema WRC	734 222 6833	riceh@washkema.org
Larry Lockett	VAN BUREN Twp	734-689-8913	llockett@vbtwp.gov
Susan Thompson	Wayne County DEPT 550	734-326-5515	stthompson@waynecountymich.gov
Ashley Allen	Lathrup Village Twp	Per. Hills (98) 464-7831	aallen@arceng.com
Johnson Maara	ARC	734 740 7000	jmaara@active.com
Rebecca Runkel	Novi	248-735-5694	rrunkel@cityofnovi.org
Emily Ause	TRAY	248-251-3175	emily.ause@traymi.org
Sally Petrella	FOUR	734-927-4904	spetrella@therange.org
Kim Maccione	Oak Park	248-691-7404	kmaccione@oakparkmi.gov
Charles Morley	Birmingham	248-530-1201	cmorley@birminghamgov.org
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○ Auburn Hills } wrong pollution.  
O.C. Road Com.

