John O'Meara, P.E
Executive Director

Alliance of Rouge Communities
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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
Total	**2238**	**46**

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

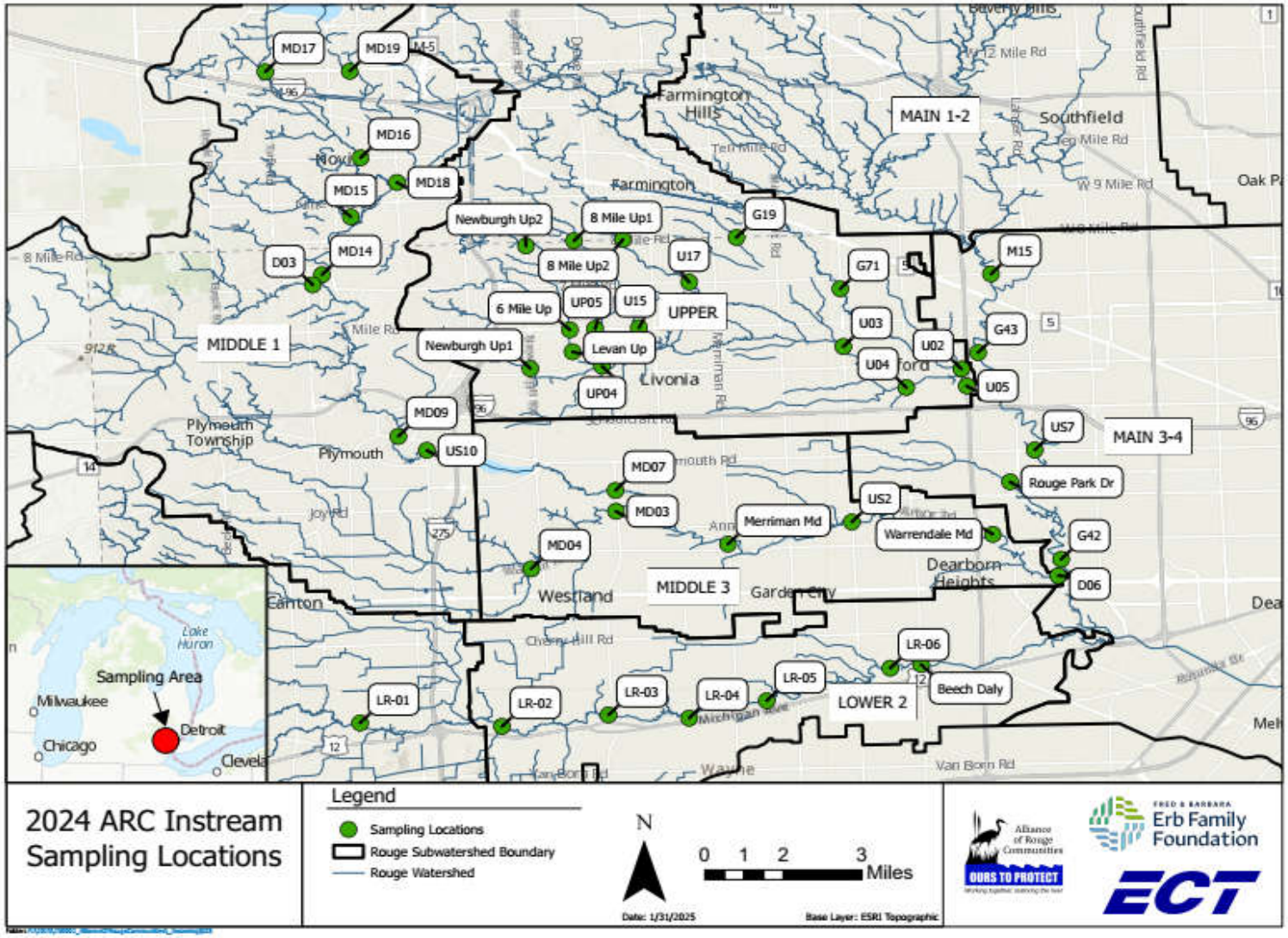
In the fall of 2023, the ARC received funding from the Erb Family Foundation to perform investigational *E.coli* sampling to identify where sanitary sewage is entering the Rouge River and provide training to municipal staff on how to comply with their stormwater permit. In 2024, ARC staff prepared a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

Alliance of Rouge Communities
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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)

	E. coli	***E. coli***	***E. coli***	***E. coli***	***E. coli***	**Human *Bacteroides***	***E. coli***	**Human *Bacteroides***
	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.

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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

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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
E. coli	**7/16/2018**	15,531								
E. coli	**12/9/2020**	630	<100							
E. coli	**12/16/2020**			61	2,000					
E. coli	**11/10/2021**	3,076			1,616					
Human DNA	**11/10/2021**	95			1,541,053					
E. coli	**7/18/2023**				96	97	160	31		
E. coli	**8/10/2023**				6,867	9,208		31		
Human DNA	**8/10/2023**				736	816				
E. coli	**9/19/2024**					9,804	15,531		9,208	11,199
Human DNA	**9/19/2024**					below detection limit 200				below detection limit 200
E. coli	**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.

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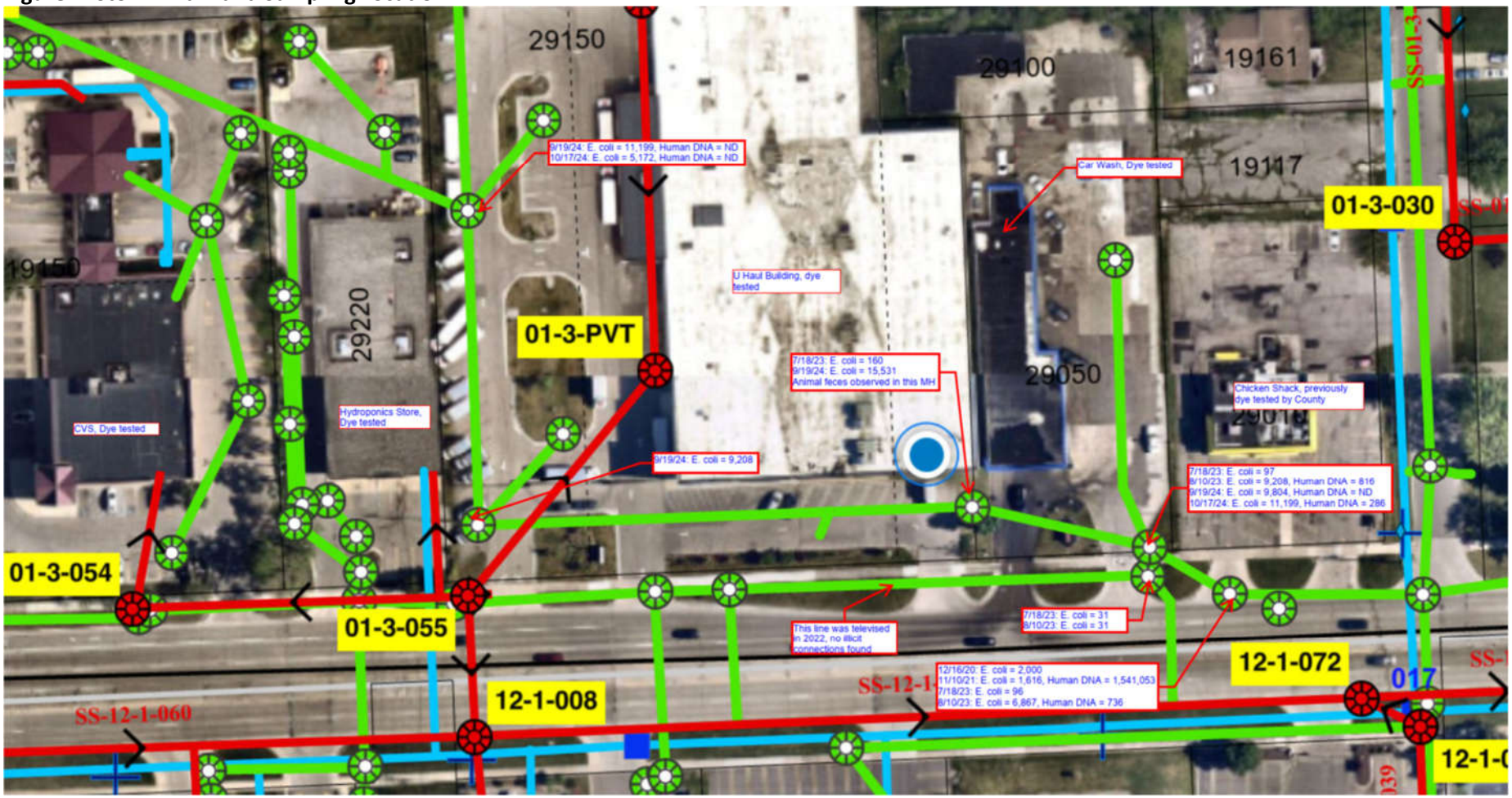
Figure 1. Storm Drain and Sampling Location



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TO: **Rebecca Runkel**

FROM: **Emily Levine, ARC Staff**

DATE: **February 25, 2025**

SUBJECT: **IDEP Investigation Results: Outfall NO20**

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

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	***E. coli***	11,199			
5/22/23	***E. coli***	882			
	Human *Bacteroides*	9,284			
7/20/23	***E. coli***	31	218	158	109
8/10/23	***E. coli***	98	41	20	
8/29/23	***E. coli***	10	31	10	30
9/11/23	***E. coli***	583	537	10	512
	Human *Bacteroides*	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.

Attachment: Figure 1. Storm Drain and Sampling Location

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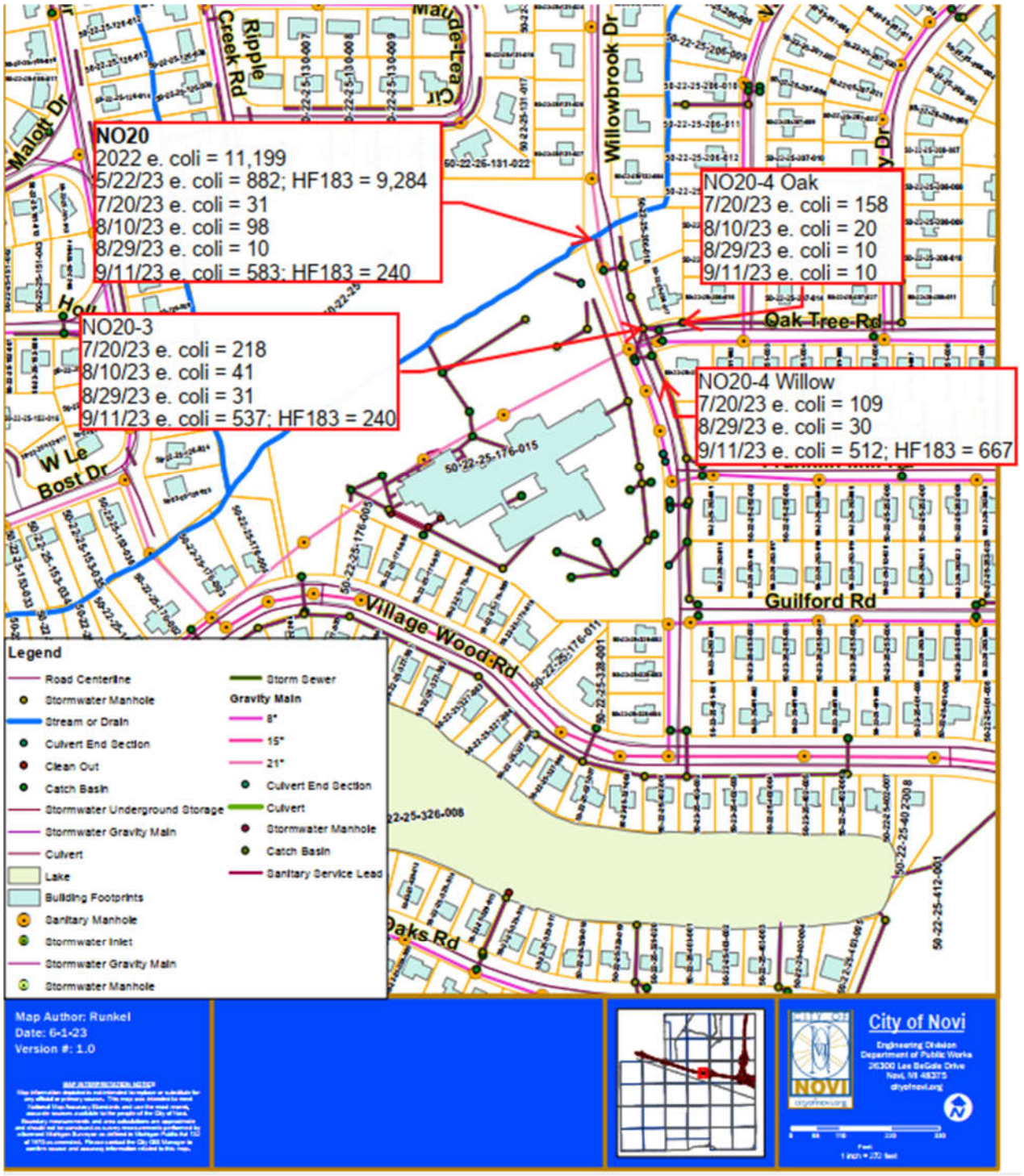
Figure 1. Storm Drain and Sampling Locations



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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.

Attachment B
2024 Outfall Dry Weather Screening
Summary Table

ARC Collaborative IDEP

2024 Outfall Dry Weather Screening

Municipality	Outfall ID	ate & Tim	Inspector	Able to Locate Outfall	Size (inches)	Material	Damage	Staining	Vegetation	Flow	Sample	Odor	Color	Turbidity	Floatables	Sediment	Detergents	E. coli	Outfall Priority
Plymouth	PY19	11/8/24, 1	EL	Yes	12	Cement	None	No	None	None	No	None	None	None	None	Yes	No		D
Plymouth	PY20	11/8/24, 1	El	Yes	24	Cement	None	No	Some	None	No	None	None	None	None	No	No		D
Plymouth	PY21	11/8/24, 1	EL	Yes	12	Cement	None	No	Some	None	No	None	None	None	None	No	No		D
Plymouth	PY22	11/8/24, 1	EL	Yes	8	Other	None	No	Some	None	No	None	None	None	None	No	No		D
Plymouth	PY23	11/8/24, 1	EL	Yes	24	Cement	None	No	None	<1/2"	Yes	Sewage	None	None	None	No	No	2282	C
Plymouth	PY24	11/8/24, 1	EL	Yes	12	Cement	None	Yes	Some	Trickle	Yes	None	Other	None	None	No	No	10	D
Plymouth	PY25	11/8/24, 1	EL	Yes	12	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Plymouth	PY18	11/8/24, 1	El	Yes	24	Cement	Spalling	Yes	None	<1/2"	Yes	Rancid / S	None	None	None	No	No	1314	C
Plymouth	PY27	11/8/24, 1	El	Yes	18	Cement	None	No	None	Trickle	Yes	None	None	None	None	Yes	No	728	D
Plymouth	PY15	11/8/24, 2	El	Yes	18	Cement	None	No	Excessive	None	No	Sewage	None	None	None	Yes	No		D
Plymouth	PY14	11/8/24, 2	El	Yes	12	Cement	None	No	Some	None	No	None	None	None	None	No	No		D
Plymouth	PY13	11/8/24, 2	El	Yes	18	Cement	None	No	Some	None	No	None	None	None	None	Yes			D
Plymouth	PY12	11/8/24, 2	El	Yes	8	Other	None		None	None	No	None	None	None	None	No	No		D
Plymouth	PY11	11/8/24, 2	El	Yes	48	Cement	Corrosion	No	None	>1"	Yes	None	None	None	None	No	No	4884	C
Plymouth	PY10	11/8/24, 2	El	Yes	8	Other	Other	No	Some	None	No	None	None	None	None	Yes	No		D
Birmingham	OF25-3-001	10/17/24,	EL	Yes	24	Cement	None	No	Some	<1/2"	Yes	None	None	None	None	No	No	1112	C
Birmingham	OF25-3-002	10/17/24,	EL	Yes	24	Cement	None	No	None	Trickle	Yes	None	None	None	None	No	No	61	D
Birmingham	OF25-3-003	10/17/24,	El	Yes	6	PVC	None	No	None	<1/4"	Yes	None	None	None	None	No	No	63	D
Birmingham	OF25-3-004	10/17/24,	El	Yes	6	PVC	None	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK03	10/21/24,	El	Yes	36	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK01	10/21/24,	El	Yes	36	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK02	10/21/24,	El	Yes	36	Cement	Other	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK04	10/21/24,	El	Yes	48	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK05	10/21/24,	El	Yes	12	Cement	None	Yes	None	Trickle	Yes	None	None	None	None	No	No	10	D
Inkster	INK06	10/21/24,	El	Yes	12	CMP	None	No	None	Trickle	No	None	Gray	Cloudy	None	No	No		D
Inkster	INK07	10/21/24,	El	Yes	72	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK08	10/21/24,	El	Yes	36	Cement	Other	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK09	10/21/24,	El	Yes	72	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Inkster	INK10	10/21/24,	El	Yes	36	CMP	None	No	None	None	No	Sewage	Gray	Cloudy	None	No	No		D
Garden City	11-2-101r	10/21/24,	El	Yes	72	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Livonia	13203	6/4/24, 9:	El	Yes	36	Cement	None	No	None	Trickle	Yes	None	None	None	None	No	No	337	D
Livonia	13205	6/4/24, 9:	El	Yes	36	Cement	None	No	None	<1/2"	Yes	None	None	None	None	No	No	134	D
Livonia	13204	6/4/24, 10	El	No	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null
Livonia	13202	6/4/24, 10	El	No	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null
Livonia	M2008165	6/4/24, 10	El	No	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null
Livonia	M2008164	6/4/24, 10	El	No	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null
Livonia	M2008111	8/20/24, 1	El	Yes	6	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Livonia	M2008110	8/20/24, 1	El	Yes	6	CMP	Corrosion	No	None	None	No	None	None	None	None	No	No		D
Livonia	M2008113	8/20/24, 1	El	Yes	6	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Livonia	M2008112	8/20/24, 1	El	Yes	6	Cement	None	No	None	None	No	None	None	None	None	No	No		D
Livonia	14-33	9/4/24, 5:	El	Yes	8	Cement	None	Yes	None	None	No	None	None	None	None	No	No		D
Livonia	M2008106	9/4/24, 5:	El	Yes	12	Cement	None	No	Some	<1/4"	Yes	None	None	None	None	No	No	10	D
Livonia	M2008105	9/4/24, 5:	El	Yes	12	Cement	None	No	Some	<1/4"	Yes	None	None	None	None	No	No	10	D
Livonia	M2008104	9/4/24, 5:	El	Yes	24	Cement	None	No	Some	<1/2"	Yes	None	None	None	None	No	No	10	D
Livonia	M2008103	9/4/24, 5:	El	Yes	12	Cement	None	No	Some	None	No	None	None	None	None	No	No		D
Westland	SWOF-00143	8/20/24, 2	El	Yes	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null

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 ≤ 0.05 inches of rainfall over the previous 48 hours. Wet-weather samples were defined as samples taken when there was ≥ 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 ≥ 0.05 inches of rainfall within 48 hours and ≤ 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
		U15	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
		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
	Tarabus	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

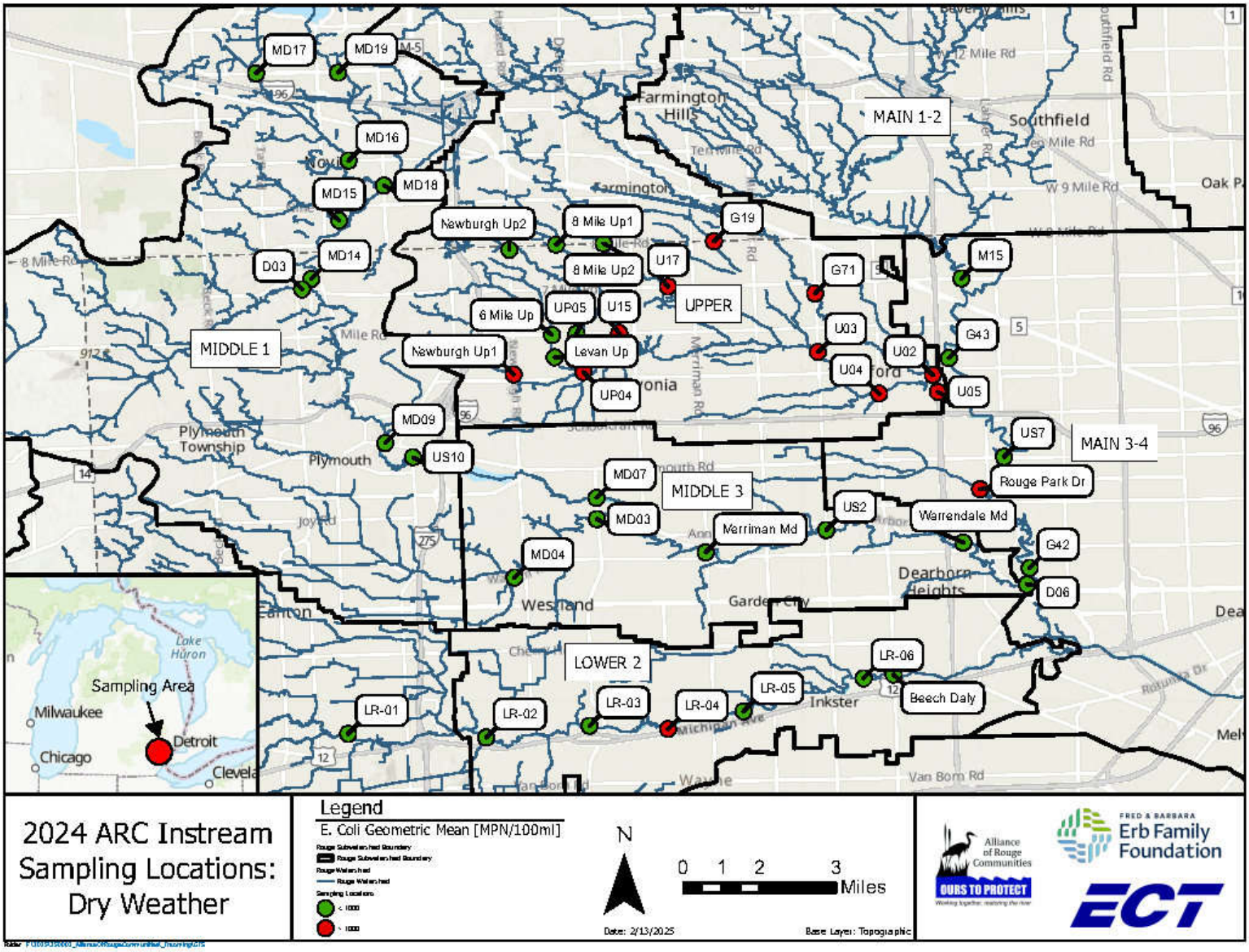
Criteria: > 1,000 MPN/100ml

Dry Weather conditions = ≤0.05" of rainfall over the previous 48 hours
Wet Weather conditions = ≥0.25" of rainfall over the previous 24 hours
Inter Weather conditions = ≥0.05" within previous 48 hrs and ≤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 Red sites indication geomeans above 1,000 MPN/100ml



John O'Meara, P.E
Executive Director

Alliance of Rouge Communities
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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

IDEP Plan Permittee	No. of Outfalls	No. of Outfalls Screened in 2024-25
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
Total	**2,238**	**1,061**

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 proceeded 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

Alliance of Rouge Communities
OURS TO PROTECT
Working together, restoring the river

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.

Table 1: ARC Staff Source Investigation Results

Sampling Location	*E. coli*	*E. coli*	*E. coli*	*E. coli*	Human DNA	*E. coli*	Human DNA	*E. coli*	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	*E. coli*
	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
Geomean	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 elevine@ectinc.com.

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John O'Meara, PE
Executive Director

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 *E. coli* (MPN/100 mL)	4/23/25 Human DNA (GC/100 mL)	5/12/25 *E. coli*	5/15/25 Human DNA	6/11/25 *E. coli*	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	

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.

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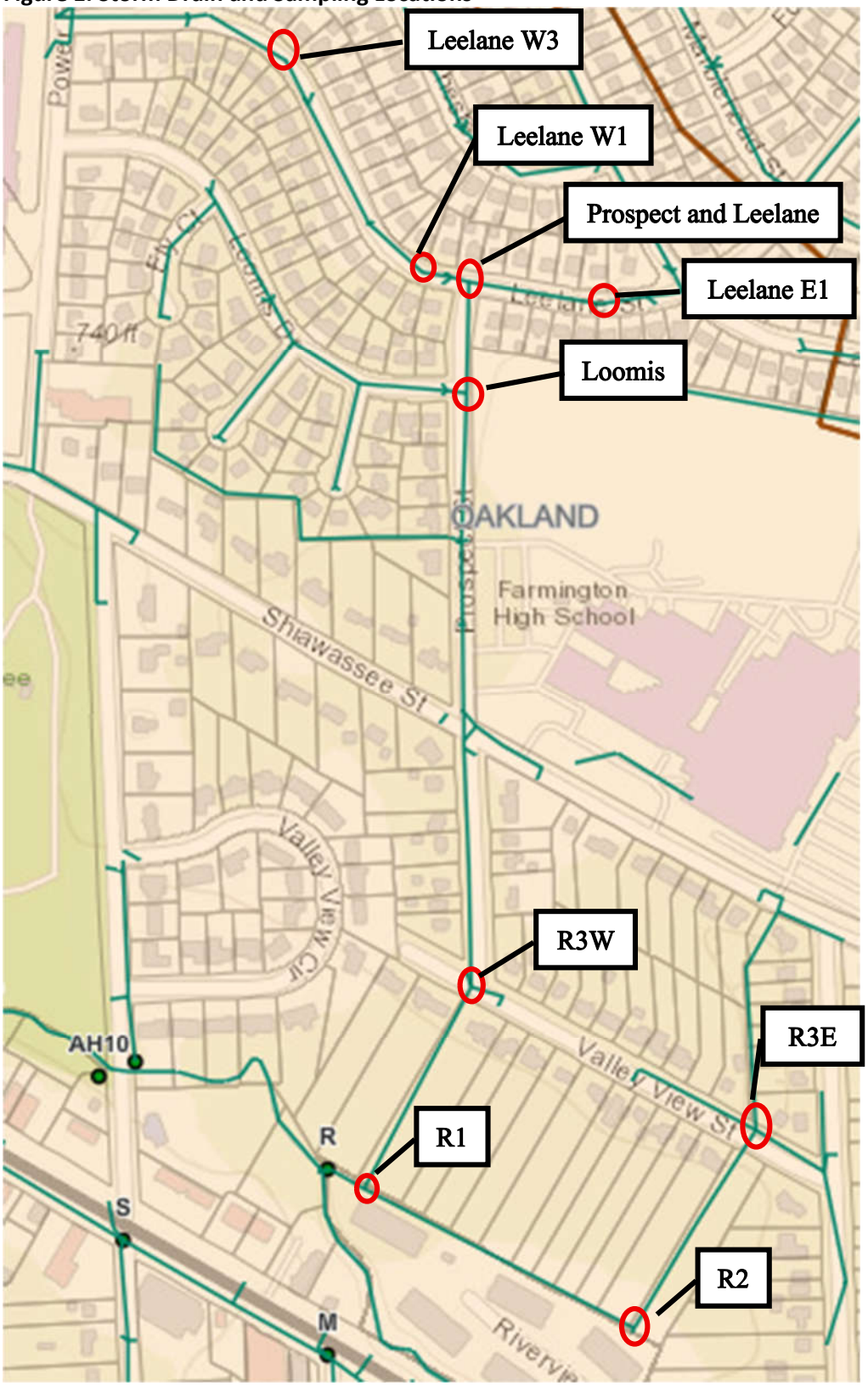
Figure 1. Storm Drain and Sampling Locations



John O'Meara, PE
Executive Director

Alliance of Rouge Communities
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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.

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
E. coli	**7/16/2018**	15,531								
E. coli	**12/9/2020**	630	<100							
E. coli	**12/16/2020**			61	2,000					
E. coli	**11/10/2021**	3,076			1,616					
Human DNA	**11/10/2021**	95			1,541,053					
E. coli	**7/18/2023**				96	97	160	31		
E. coli	**8/10/2023**				6,867	9,208		31		
Human DNA	**8/10/2023**				736	816				
E. coli	**9/19/2024**					9,804	15,531		9,208	11,199
Human DNA	**9/19/2024**					below detection limit 200				below detection limit 200
E. coli	**10/17/2024**					11,199				5,172
Human DNA	**10/17/2024**					286				below detection limit 200
E. coli	**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 elevine@ectinc.com.

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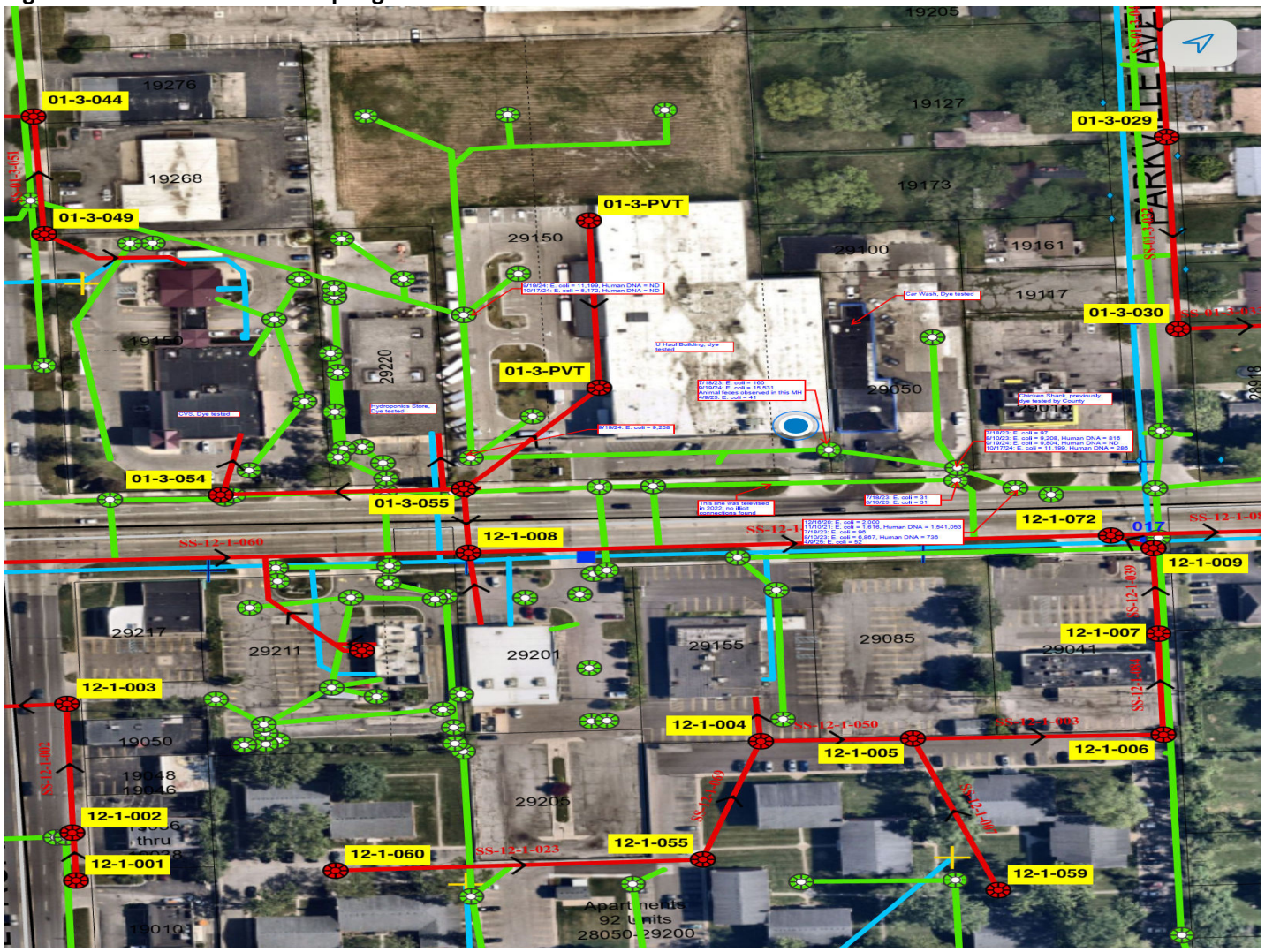
Figure 1. Storm Drain and Sampling Location



John O'Meara, PE
Executive Director

Alliance of Rouge Communities
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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 *E. coli* (MPN/100 mL)	7/15/25 Human DNA (GC/100 mL)	9/17/25 *E. coli*	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.

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Figure 1. Storm Drain and Sampling Locations

John O'Meara, PE
Executive Director

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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.

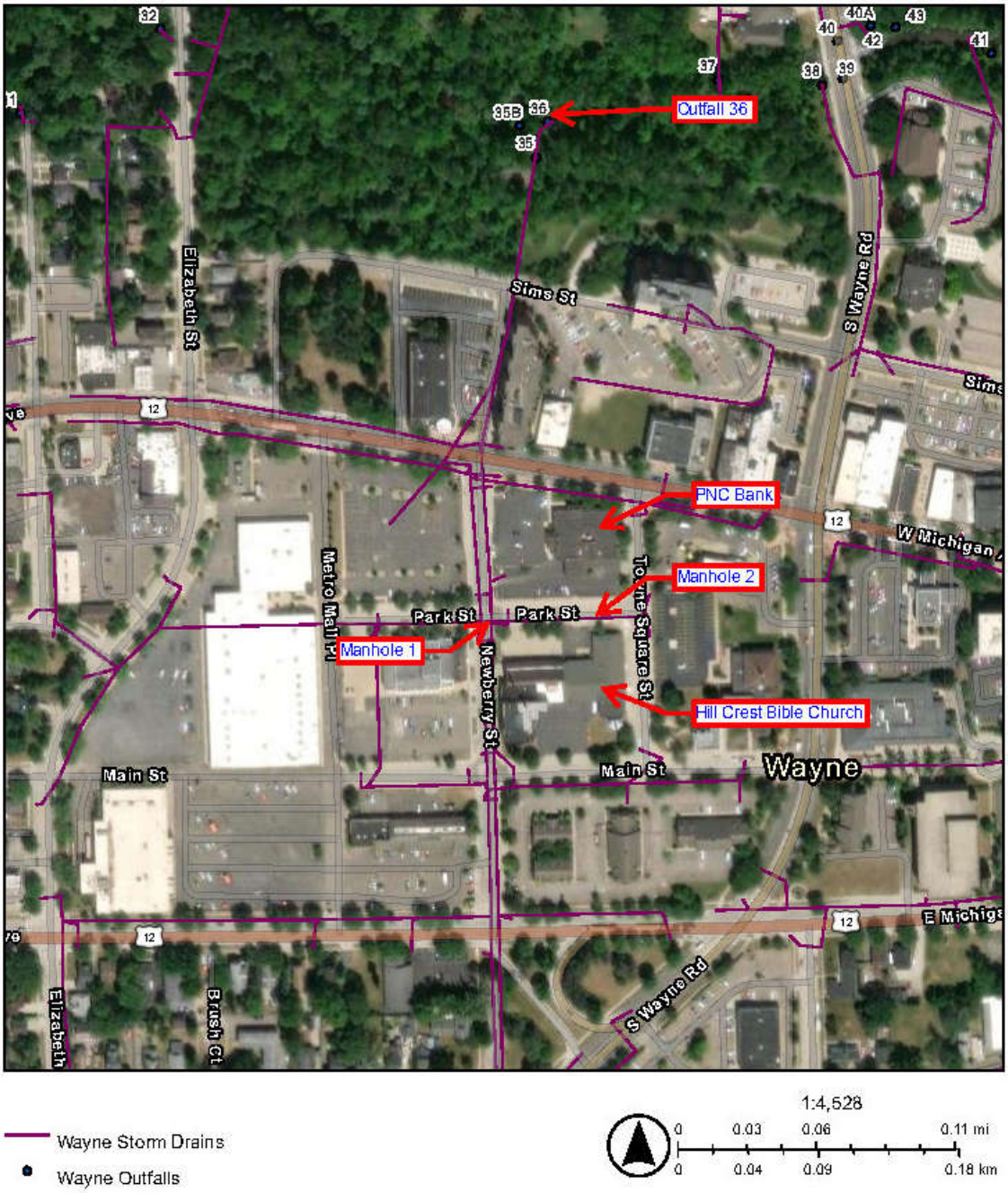
Findings

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

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.

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John O'Meara, PE
Executive Director

Alliance of Rouge Communities
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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 *E. coli* (MPN/100 mL)	7/15/25 Human DNA (GC/100 mL)	9/17/25 *E. coli*	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.

Figure 1. Storm Drain and Sampling Locations

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John O'Meara, PE
Executive Director

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

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

John O'Meara, PE
Executive Director

Alliance of Rouge Communities
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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 *E. coli* (MPN/100 mL)	6/24/25 Human DNA (GC/100 mL)	9/17/25 *E. coli*	9/17/25 Human DNA	10/23/25 *E. coli*	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

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.

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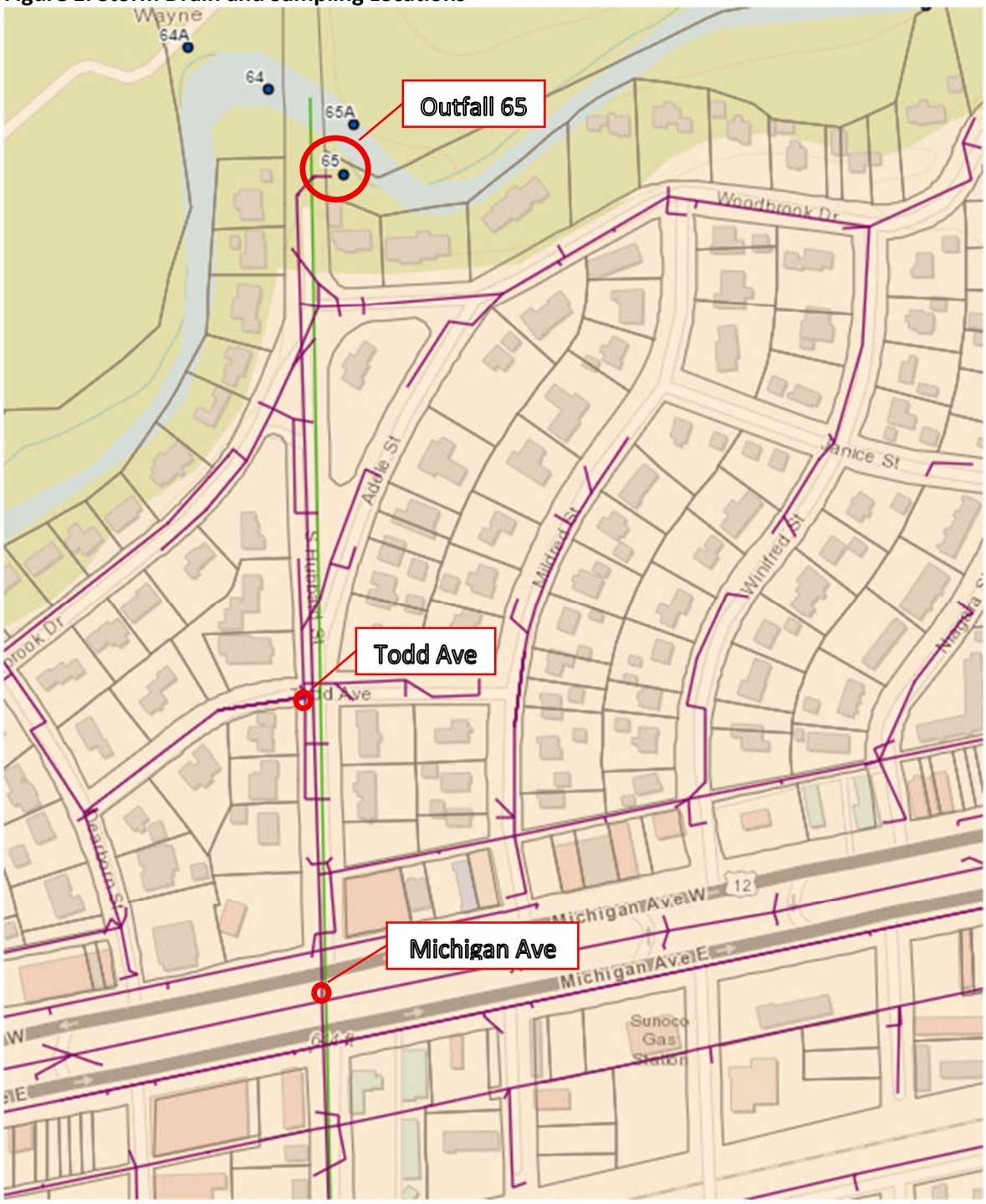
Figure 1. Storm Drain and Sampling Locations



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							
Sub-Watershed		**Outfalls Screened**	**E. Coli Cat. A**	**E. Coli Cat. B**	**E. Coli Cat. C**	**E. Coli Cat. D**	**HF183**
Upper	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%
Lower	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%
Middle	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%
Main	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%
Total	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					
Muncipalities	**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					
Muncipalities	**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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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					
Muncipalities	**Outfall ID**	**Date**	**Size (inches)**	**E. coli**	**HF183**
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			