

Wayne County Department of Public Services
Proposed ARC 2021 IDEP Work Plan
Proposed to: ARC Technical Committee on 2/25/2021

Field Investigations

City of Plymouth

Wayne County Department of Public Services - Environmental Services Division (ESD) will work with the City of Plymouth and ARC staff to perform collaborative illicit discharge elimination plan (IDEP) investigations as described in Table 1. Certain tasks will be led by the City as noted below.

Table 1: City of Plymouth Activities

MS4 Area	Advanced Investigation Activities	Receiving Water
Park Street	<ul style="list-style-type: none"> • Coordinate with the City for compliance enforcement and correction on the illicit connections identified in 2018, and 2019. • Confirm correction of illicit connections (four residences) • Re-sample the Park Street outfall and Mill Street inlets after illicit connection corrections are confirmed. 	Middle Branch Rouge River in Plymouth
North Holbrook Street NEW	Initiate investigation of the Holbrook Street MS4 area- surveying, manhole sampling, televising, and dye testing of residential properties in the investigation area	Middle Branch Rouge River in Plymouth
Outfall PY8	<p>Continue investigation of the PY8 MS4 area- manhole sampling and dye testing of residential properties along Penniman and Blunk Streets to identify illicit connections for correction.</p> <ul style="list-style-type: none"> • Perform additional manhole sampling (<i>E. coli</i> and <i>Bacteriodes</i>) in the investigation area, as needed • Review Blunk Street storm sewer televising results to identify location of taps to identify residences for dye testing - City • Televiser sanitary sewer on Blunk Street to identify sanitary sewer taps - City • Issue dye testing notification letters to the residences in the investigation area, if residential dye testing is needed - City • Schedule appointments, perform dye-test inspections and track results - City • Enforcement and correction on the illicit connections that may be discovered - City • Re-sample Outfall PY8 after illicit connection corrections have been discovered/confirmed corrected. 	North Branch Tonquish Creek
Outfall PY5	Continue investigation of the PY5 MS4 area- manhole sampling and dye testing of residential properties along William and Pacific Street to identify illicit connections for correction.	North Branch Tonquish Creek

	<ul style="list-style-type: none"> • Perform additional manhole sampling in the investigation area, as needed (<i>E. coli</i> and <i>Bacteriodes</i>) • Confirm manhole sampling locations and locations of storm sewers in investigation area • Issue dye testing notification letters to the residences in the investigation area, if residential dye testing is needed - City • Schedule appointments, perform dye-test inspections and track results - City • Enforcement and correction on the illicit connections that may be discovered - City • Re-sample Outfall PY5 after illicit connection corrections have been discovered/confirmed corrected. 	
Harvey Street	<p>Coordinate with City and ARC staff to perform sample collection and lab analysis in the Harvey Street area as needed, and a resample of the outfall.</p> <ul style="list-style-type: none"> • Re-sample the Harvey Street outfall and storm sewer laterals after illicit connection corrections have been discovered/ confirmed corrected 	Byron Creek tributary to South Branch Tonquish Creek

City of Livonia

ESD will work with the City of Livonia and ARC staff to perform collaborative illicit discharge elimination plan (IDEP) investigations as described in Table 2.

Table 2: City of Livonia Activities

MS4 Area	Advanced Investigation Activities	Receiving Water
Outfall U2008221	<p>Continue investigation of the MS4 area- televising, sampling and dye testing of commercial and or/residential properties along Levan Road to identify illicit connections for correction.</p> <ul style="list-style-type: none"> • Coordinate with the ARC and City of Livonia to further delineate the drainage area of the outfall as needed • Coordinate with City and ARC staff to perform additional manhole inspections, sample collection and lab analysis in the Outfall U2008221 drainage area • Perform additional sampling once the outfall drainage area is delineated • The City of Livonia will televise the storm sewer upstream of Outfall U2008221, if needed • Coordinate with the City of Livonia to schedule appointments, perform dye-test inspections and track results, if dye tests are needed. • Coordinate with the City for enforcement and correction on the illicit connections that may be discovered • Re-sample outfall U2008221 after further investigation and illicit connection corrections (if any) are confirmed. 	Bakewell Drain, an Upper Rouge tributary

42-inch outfall Levan Road South	<p>Complete investigation of the MS4 area- televising, sampling and dye testing of commercial and/or residential properties along Levan Road to identify illicit connections for correction.</p> <ul style="list-style-type: none"> • Coordinate with City of Livonia to further delineate the drainage area of the outfall as needed • Coordinate with the City of Livonia to schedule appointments, perform dye-test inspections and track results, if dye tests are needed. • Coordinate with the City for enforcement and correction on the illicit connections that may be discovered • Re-sample the Outfall after illicit connection corrections have been discovered/confirmed corrected. 	Bakewell Dr0ain, an Upper Rouge tributary
Outfall L-1619	<p>Complete investigation of the L-1619 MS4 area- additional sampling (including <i>E. coli</i> and <i>Bacteriodes</i>) and dye testing of commercial and/or residential properties along Seven Mile Road and in the drainage area to identify illicit connections for correction.</p> <ul style="list-style-type: none"> • Coordinate with City of Livonia to further delineate the drainage area of the outfall as needed • Coordinate with the City of Livonia to schedule appointments, perform dye-test inspections and track results, if dye tests are needed. • Coordinate with the City for enforcement and correction on the illicit connections that may be discovered • Re-sample the Outfall L-1619 after illicit connection corrections have been discovered/confirmed corrected. 	Tarabusi Creek Tributary (Upper Rouge River)

In addition to the areas outlined above, ESD will investigate the outfalls listed in Table 3, as time allows.

Table 3. Outfalls Requiring Initial IDEP Investigations

Community	Category A Outfalls	Category B Outfalls
Livonia		6038 13002 U2008231 M2008117 U2008238 2680 L3582
Total Outfalls	0	7

Category A: *E. coli* > 10,000 cfu/100 mL or unexplained physical characteristics.

Category B: *E. coli* between 5,001 and 10,000 cfu/100 mL.

IDEP Training

ESD will coordinate with ARC and SEMCOG to support the regional IDEP training activities planned for 2021.

Reporting

Written and/or oral summary of activities and results will be provided at ARC Technical Committees and a comprehensive final report will be prepared for use in the ARC's Annual Report. The final report will include recommendations for additional investigations where appropriate.

Anticipated Collaborative Support Value: \$37,500 WCDPS ESD in-kind services.