

April 11, 2022
Scope of Services:

Project Background

The City of West Allis (City) operates its municipal separate storm sewer system (MS4) under a WPDES municipal storm water discharge permit from the Wisconsin Department of Natural Resources (WDNR), often referred to as a NR 216 Permit. The permit allows discharges of storm water from all portions of the City of West Allis' MS4. Several conditions and compliance items are outlined in the Permit and include specific dates for submittal.

Scope of Services

Task 11 - 2022 Annual IDDE Field Screening

Task 11.1 - Initial Field Screening of Outfalls

Conduct a single field screening at 16 major outfalls in the City. Where flow is observed, provide additional information on the Visual Inspection Form including chemical testing on grab samples using portable test kits to identify the presence and level of ammonia, chlorine, copper, detergents, and phenols. The level of effort assumes approximately half (8) of the outfalls will have dry weather flows present at the time of screening that require grab samples and field testing.

If an outfall tests positive for one (1) or more parameters, the field crew will test locations upstream. The goal is to continue sampling upstream of the outfall to isolate the pollutant(s) of interest and dry weather flow to a single location. If the pollutant(s) of interest appears to be from a diffuse source, test data results will be reviewed for patterning prior to taking any additional steps. The scope of services assumes up to 6 follow-up field screening locations.

If a drainage system requires follow-up screening and the field screening results in isolating the pollutant(s) to a single pipe or ditch segment, the field crew may conduct a "windshield survey" of the surrounding area. The survey includes photographing the surrounding area including buildings and other items of interest. Other items of interest can include, but are not limited to, outdoor storage areas, staining, or other potential signs of illicit discharges or dumping. No internal entry of any home or business is included in this effort.

If the results of any windshield survey or follow-up investigation reveal an illicit connection or discharge that needs immediate attention, the results will be shared with City staff with a discussion of potential sources and recommended next steps.

IDDE Follow-up Levels

pH < 6.0 or pH > 9.0
Ammonia > 0.1 mg/L
Chlorine > 0.1 mg/L
Copper > 0.1 mg/L
Detergents > 0.50 mg/L
Phenols > 0.0 mg/L

On-Call Screening Investigations

Provide additional on-call services related to the City of West Allis' IDDE inspections as requested by City Staff on an as needed basis. This assumes up to an additional 16 hours of field investigation and/or desktop analysis.

Task 11. 2 - Report

Results will be summarized in a format acceptable for inclusion in the City's annual NR 216 report. A draft of the report will be provided to the City for review in pdf format.

AECOM will communicate with the City to review the results of the field screening. Outfalls where flow was observed, and chemical testing indicates potential discharges will be focused on. The decision to conduct any additional follow-up investigations will be based on the results of discussions with the City and, if necessary, after consultation with the WDNR.

Schedule:

AECOM and CLIENT both acknowledge this schedule may be impacted and delayed by travel restrictions and/or other attempts to protect workers and limit the transmission of the COVID-19 virus.

The project will begin upon receiving a signed agreement and notice to proceed on the project. Dry weather screening should be conducted after approximately a 48-hour dry period (a period described as containing non-measurable precipitation or ideally, less than 0.1 inch of rainfall). A draft report will be provided to the City by December 30, 2022 and a final report by March 24, 2023.

Deliverables:

One electronic PDF copy of the draft and final report will be provided to the City.

Task 12 – Fecal Coliform Reduction Efforts

Task 12.1 – Fecal Coliform Inventory

AECOM to develop a draft inventory of fecal coliform sources and a map indicating the locations of the potential sources of fecal coliform entering the MS4. The inventory shall be in tabular format and include a label code, location, description, and ownership of the source. The map shall identify the location of the sources by label code. The inventory shall consider flow variation.

The inventory and map shall show the following sources, based on City provided data:

- 1) Known or suspected leaking or failing septic systems.
- 2) Sanitary sewer overflow locations.
- 3) Livestock and domesticated animals housed or raised within the MS4 permitted area and discharging into the MS4, but not including household pets.
- 4) Zoos, kennels, animal breeders, pet stores, and dog training facilities.
- 5) Waste hauling, storage, and transfer facilities.
- 6) Areas that attract congregations of nuisance urban birds and wildlife.
- 7) Known or suspected properties with inadequate food or organic waste handling or storage.
- 8) Composting sites or facilities.
- 9) Known or suspected areas with improper human sanitation use.
- 10) Any other source that the permittee identifies as discharging to the MS4.

Schedule:

AECOM and CLIENT both acknowledge this schedule may be impacted and delayed by travel restrictions and/or other attempts to protect workers and limit the transmission of the COVID-19 virus.

The project will begin upon receiving a signed agreement and notice to proceed on the project. A draft report will be provided to the City by December 30, 2022 and a final report by March 24, 2023.

Deliverables:

One electronic PDF copy of the draft and final inventory table and figure will be provided to the City for them to include in their Annual Storm Water Report to WDNR.

Task 12.2 – Fecal Coliform Source Elimination Plan (FEE AMENDED AT COMPLETION OF TASK 12.1)

AECOM to develop a fecal coliform source elimination plan. The plan shall include:

- 1) Prioritization of source removal with an explanation of the prioritization criteria.
 - a. Prioritization criteria shall include, at a minimum, fecal coliform source, exposure risk, ease of removal, and cost.
- 2) A description of the type and extent BMPs to be employed to address each source.
- 3) A cost estimate of BMP implementation, operation, and maintenance.
- 4) A schedule for implementation of the bacteria elimination plan that reflects expeditious reduction with specific actions or benchmarks identified to be implemented during the next permit term.
- 5) BMPs identified may be structural, non-structural, targeted outreach, new or revised ordinances, new design criteria, or new plan review considerations, but the plan shall include rationale for using each BMP, the reasons selection of each BMP, and the expected result of BMP implementation.

Schedule:

AECOM and CLIENT both acknowledge this schedule may be impacted and delayed by travel restrictions and/or other attempts to protect workers and limit the transmission of the COVID-19 virus.

The project will begin upon completion of task 12.1. A draft report will be provided to the City by August 29, 2023 and a final report by September 26, 2023.

Deliverables:

One electronic PDF copy of the draft and final Fecal Coliform Source Elimination Plan be provided to the City.

Task 13 – 2022 K4 Outfall

Task 13.1 – Conceptual Design

It is our understanding that the City would like AECOM to assist in coordination effort needed with Milwaukee County (County) to use County Park land as a green infrastructure project. This project would be located at the City of West Allis storm sewer system outfall KK4 near the intersection of S 57th Street and W Rita Drive (see Figure 1). In order to begin discussions with the County, the City must submit a “Community Project Request: Land Utilization”. This task would provide funding for AECOM to assist with the development of the land utilization application.

Figure 1 – Outfall Location



AECOM will provide the following services:

- Develop Draft Application Documents –
 - Includes a draft concept Figure of Project Area
 - This does not include the cost of the Application to the County
- Discussions with City (2 meetings total)
 - One meeting to discuss the draft application.
 - One meeting with City and County to discuss the submitted application.

Deliverable – Submitted Milwaukee County: Land Utilization Application

Schedule:

AECOM and CLIENT both acknowledge this schedule may be impacted and delayed by travel restrictions and/or other attempts to protect workers and limit the transmission of the COVID-19 virus.

The project will begin upon receiving a signed agreement and notice to proceed (NTP) on the project. A draft concept design will be provided to the City four (4) weeks after NTP. A final

application will be completed three (3) weeks after receiving comments from the draft review. Assumes work to be completed prior to October 2022.

Deliverables:

One electronic PDF copy of the draft and final application will be provided to the City. City to pay fee associated with application.

Assumptions/Conditions:

- AECOM will not provide site survey services.
- This task does not include the level of effort associated with 30% conceptual drawings. Efforts for construction documents will be provided in a project amendment at a later date.
- Data provided by Client is assumed to be accurate and complete without AECOM's verification.
- One concurrent review by Client after the submission of the draft report is expected.

Cost Estimate

The following is the estimated cost to complete the scope of services as presented.

Task 11 – 2022 Annual IDDE Field Screening	\$12,900
Task 12.1 – Fecal Coliform Inventory.....	\$11,400
Task 12.2 - Fecal Coliform Source Elimination Plan	TBD
Task 13 - Outfall KK4 Initial Concept.....	\$7,500
Total	\$31,800

The total cost of the amendment will amend the project with additional \$31,800 of fees, for a total project fee of \$176,300.