Department of Port Control

Ordinance: TBD

Executive Summary

The Department of Port Control is requesting authority to determine the method of making the public improvement of designing and constructing a nuisance biofilm treatment plant; authorizing the Director of Port Control to enter into contracts for Design-Build or engineer-procure-construct services to correct failed glycol management infrastructure at the Centralized Deicing Facility (CDF).

Background/Purpose:
The CLE National Pollutant Discharge Elimination System (NPDES) industrial stormwater permit (3II00179*HD) is enforced by the Ohio EPA under regulations promulgated by the U.S. EPA through the Clean Water Act. CLE has determined deicers and factors that contribute to nuisance biofilms, which significantly degrade downstream water bodies.

Pavement and aircraft deicers act as nutrients that promote biofilm growth while simultaneously depleting oxygen in stormwater as they decompose. Part 1.C, Schedule of Compliance, and Part 1.C.2, Facility-Wide Treatment System Improvements, of the current NPDES permit outline the schedules and requirements for implementing deicer treatment.

Failed equipment and infrastructure at the CDF have been identified as the source of approximately 61 percent of deicer pollutant loading in Outfall 012 stormwater due to uncontrolled leaks and overflows. Engineering evaluations determined that rather than designing and constructing an end-of-pipe treatment system as envisioned by the NPDES permit and would require substantial infrastructure with significant upfront and O&M costs to detain and treat tens of millions of gallons of stormwater, Biofilm Treatment proposes to achieve two objectives through a single, targeted project.

This phase aims to correct the failed equipment while significantly reducing deicer impacts to stormwater. Subsequent phases will be implemented as needed, based on biofilm monitoring data and overall Ohio EPA approval.

Scope of Work:
Design-Build project to:

- Replace failed equipment in Diversion Vaults DV-1, DV-5, and UST-V.
- Remove failed equipment in Diversion Vault DV-2.
- Install pump station in DV-5

- Increase capacity and replace failed equipment in MH-15.
- Replace damaged UST-V vault
- Correct Inflow and Infiltration (I&I) of glycol contaminated water into storm water systems.

Justification:
On July 21, 2026, DPC received a Notice of Violation (NOV) letter for facility Cleveland Hopkins International Airport (3II00179*HD) issued by Ohio EPA. The deadlines that were not met were as follows:

*NPDES Permit 3II00179*HD, Part 1.C, Schedule of Compliance requires final treatment construction plans to be submitted to Ohio EPA no later than July 1, 2026, construction to begin no later than January 1, 2027, and construction to be completed by January 1, 2028.*

Terms & Schedule:
The term of the proposed contract shall be upon the Director's acceptance of completion of all services rendered under this agreement. The Board of Control, before the contract is executed, shall fix the total compensation to be paid for all design services. The Department of Port Control shall obtain a new Board of Control resolution for the total compensation to be paid for all construction services after designs have been completed for the project and the approved amounts will be certified to the existing contract.

Anticipated Cost:
Design: $374,913.00.

Construction and Construction Management: approximately $3.75 million.