FLOW METER SYSTEMS

BULLET POINTS

- The Stormwater Section at Environmental Services needs to purchase flow meter systems used for measuring the depth and velocity of stormwater. These measurements will provide a more accurate measurement of flow found in stormwater infrastructure, including storm sewer manholes, and outfalls.
- More accurate flow data will help Environmental Services provide Ohio EPA more precise and consistent calculations on pollutant loadings, and total flow volume. This data is required by the Ohio EPA National Pollutant Discharge Elimination Systems (NPDES) permit for Municipal Separate Storm Sewer Systems (MS4s).
- Accurate flow data will also improve the data and analysis of dry weather inspections required by the Ohio EPA National Pollutant Discharge Elimination Systems (NPDES) permit for MS4s. This information will allow the stormwater section estimate the impacts of possible illicit discharges and prioritize follow up to issues found. The flow data is also needed as part of the annual reporting for illicit discharges detected but not immediately eliminated.
- The formal request for bid process was followed. Hach Company ($23,363.22) was the only bidder for the contract.
- The flow meter systems include: portable flow meter, electromagnetic sensor with 20-foot cable length, universal sensor mount, USB cable, wading rod mount, power supply/charger, neck strap, thumb screw kit, soft case, and disposable cloth for cleaning. The cost per setup is $7,787.74.
- These flow meters are able to provide reliable measurements at low velocities, in shallow water and also in turbulent flows. The ability to take accurate reading in sediment, organic debris-choked water at the same time ability for automatic level measurements.
- It is recommended that the contract be awarded to Hach Company. in the amount of $23363.22. Environmental Services has utilized Hach Company for other equipment needs and is confident in the quality of the equipment and customer service.
- The funding for this purchase of this equipment comes from the Storm Water Utility Operating Fund (607A-38000-4000552STDSTD). This purchase was included in the 2021 Stormwater Utility budget.