

Division of Water**Request for Legislation**

An ordinance authorizing the Division of Water (CWD) to enter into one or more direct award contracts with the Cleveland Water Alliance (CWA) for a period of up to three years to provide data from the operation and maintenance of four buoys in Lake Erie equipped with state-of-the-art water quality detection equipment.

Background/Purpose:

Recent water treatment challenges in Lake Erie include Harmful Algal Blooms and Dead Zone (low oxygen) water. The Division of Water relies on data from monitoring equipment to determine how best to treat lake water. Having advance warning of water quality conditions in the lake via buoys is important to make adjustments at the treatment plants. Most Lake Erie water plants in Ohio make use of buoys for similar advance warning. Collectively, these buoys provide an extensive network of lake monitoring used by many groups, including Cleveland Water.

Previously, the Great Lakes Observing System (GLOS), a non-profit based in Ann Arbor, Michigan, was the vendor providing this service to CWD. In 2020, GLOS indicated they did not wish to provide this service any longer. After a canvas, Cleveland Water determined that the Cleveland Water Alliance (CWA) was the only viable entity that can provide this service and entered into an initial three-year contract with CWA in 2021. CWA is a 501(c)(3) non-profit based in Cleveland and is an active organization locally and across the region in water-related initiatives.

Scope of Work/Commodities/Services:

CWD relies on a system of 4 buoys: one near the Morgan / Baldwin intakes, one further out in the lake near its Crown intake and one near the Nottingham intake. This contract will provide these four buoys and associated high tech monitoring and cell phone equipment. Sensors will measure air temperature, wind speed and direction, wave height, algal blooms, oxygen levels, water temperature and other parameters.

The first buoy will be located approximately four miles from shore near the Morgan Plant submerged intake crib. A second buoy will be located approximately 3-1/2 miles from shore near the Nottingham Plant intake crib. The third buoy will be located approximately 3 miles from shore near the Crown Plant intake crib. The fourth buoy will be located fifteen miles due north of Cleveland to monitor and focus on Dead Zone water.

These buoys shall provide real time water quality data stored on a website provided by CWA.

Justification/Urgency:

The current contract expires before the Spring, 2024 season. CWD depends on this real time data to effectively manage its water treatment plants.

Anticipated Costs and funding source:

The contract will cost \$185,472.00 in 2024 and \$194,304.00 in 2025 and \$203,872.00 in 2026. This cost will be paid for by CWD's General Operating Fund.

Schedule or Term of Contract:

The professional services contract shall be for a period of up to three years.

Current Contract(s):

Vendor Name Address	Services/Work performed	Contract Info	CSB Participation Goal 20% (OEO Actual %'s)
Cleveland Water Alliance 601 Erieside Ave. Cleveland, Ohio 44114	Operations and Maintenance four buoys Year 1	Contract #: CT PS2021- 0141 Awarded Amt:\$195,040.00 Contract Exp. Date: 5/12/2022	Waived
Cleveland Water Alliance 601 Erieside Ave. Cleveland, Ohio 44114	Operations and Maintenance four buoys Year 2	Contract #: CT PS2021- 0141 Awarded Amt:\$154,5600.00 Contract Exp. Date: 5/12/2023	Waived
Cleveland Water Alliance 601 Erieside Ave. Cleveland, Ohio 44114	Operations and Maintenance four buoys Year 3	Contract #: CT PS2021- 0141 Awarded Amt:\$154,560.00 Contract Exp. Date: 5/12/2024	Waived

Previous Contracts:

Vendor Name Address	Services/Work performed	Contract Info Provide all contract data as listed below	CSB Participation (OEO Actual 0 %'s)
Great Lakes Observing System 4840 S. State Road Ann Arbor, Michigan 48108	Deployed two buoys - leased three sondes for water quality parameters.	Contract #: CT PS2019- 076 Awarded Amt: \$ 98,000.00 Contract Exp. Date: 3/12/2021	Waived
Great Lakes Observing System 4840 S. State Road Ann Arbor, Michigan 48108	Deployed two buoys - leased three sondes for water quality parameters.	Contract #: CT PS2017- 161 Awarded Amt: \$ 98,000.00 Contract Exp. Date: 4/1/2019	Waived
Great Lakes Observing System 4840 S. State Road Ann Arbor, Michigan 48108	Deployed two buoys - leased three sondes for water quality parameters.	Contract #: CT 2002 PS2016000000041 Awarded Amt: \$49,000 Contract Exp. Date: 12/31/2016	Waived