

Division of Water

Request for Legislation

An ordinance authorizing the Division of Water to enter into one or more public improvement contracts for work at the Baldwin, Crown, Morgan and Nottingham Plants. The work will include improvements to chemical, HVAC, control and electrical systems, as well as repairs to roofing, masonry and structural elements, the filter underdrain systems and the intake traveling screens.

Background/Purpose:

Cleveland Water needs to address items that have been identified for repair or replacement in the immediate future due to their critical nature. The Division of Water commissioned a report from the General Engineering Services Consultant to assess the Post-PEP condition of the four water works plants and develop a prioritized list of projects.

Scope of Work/Commodities/Services:

The work includes:

1. Improvements to the intake traveling screens at the Crown and Nottingham treatment plants
2. Improvements to components of the plant computer control systems (PCCS) at the four treatment plants.
3. Repair and modifications to the filter underdrain system at the treatment plants
4. Repairs to HVAC, electrical systems and roofs as required.

Justification/Urgency:

1. The intake traveling screens filter out larger debris, fish and zebra mussels at the raw water pump facilities. These screens are in some cases over 40 years old and are wearing, and need significant repairs.
2. The control systems at the water treatment plant is composed of several components: instruments (devices that measure pressure, flow rate, chemical levels, etc), transmitters, network infrastructure, local control panels, master computers, control software, data historians and local workstations. Many of these components are exposed to harsh environments at the plants, and have a shorter life span as a result. Several of these components now need to be replaced.
3. Filter media at the plants rest on top of units called filter underdrains, hard plastic units which support the sand and anthracite but allow the filtered water to pass thru. These units have shown some signs of wear at Baldwin and Nottingham, and will likely require replacement at all 4 plants.
4. Various components of the HVAC, electrical and roofing systems at the plants are experiencing normal wear and tear and require repair / replacement.

Anticipated Costs and funding source:

The anticipated cost of this work is \$23 million dollars. The cost of the improvements shall be paid from Fund 52, SF 001, and/or from the fund or sub fund to which are credited the proceeds of future bonds, if issued for this purpose.

Schedule or Term of Contract:

Legislation will lead to public improvement contracts anticipated to be constructed over the next two years.

CSB Participation on the Current Contracts:

Horizontal Construction: 30% CSB

Vertical Construction: 15% MBE, 7% FBE, 8% CSB

CURRENT CONTRACTS:			
Vendor	Services/Work Performed	Contract No	MBE/FBE/CSB Award
Nerone	Morgan Improvements - A	CT#: PI2018-006 Award: \$1,448,700.00	MBE: 10.1% FBE: 6.8% CSB: 6.5%
Kokosing	Nottingham Sedimentation Basin Improvements	CT#: PI2019-046 Award: \$18,656,000.00	MBE: .6% FBE: .6% CSB: 1.2%
Kokosing	Baldwin Improvements - A	CT#: PI2019-011 Award: \$10,123,300.00	MBE: 0% FBE: .2% CSB: 0%
Great Lakes Construction	Crown Residuals System Replacement	CT#: PI2019-029 Award: \$6,545,000.00	MBE: 18.2% FBE: 9.1% CSB: 5.6%
PREVIOUS CONTRACTS:			
Designer/Contractor	Services/Work Performed	Contract No	MBE/FBE/CSB Award
Kokosing	Nottingham Alum Tank Liners	CT#: PI2018-032 Award: \$687,500.00	Award: Waived Part.: Waived