

Information to be included in all Legislation authorizing entering into a Contract:

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
A. Black & Veatch	43-1833073 / 09/22/2017	Columbus/OH	MAJ
B. Hazen and Sawyer	13-2904652 / 03/14/2018	Columbus/OH	MAJ

2. **What type of bidding process was used (ITB, RFP, RFSQ, Competitive Bid).**

RFP

3. **List the ranking and order of all bidders.**

A. Black & Veatch
B. Hazen and Sawyer

4. **Complete address, contact name and phone number for the successful bidder only.**

Black & Veatch Corporation
4016 Townsfair Way, Suite 210
Columbus, Ohio 43219
Contact: Mr. Bob O'Bryan, PE, Project Manager (614) 454-4397

5. **A full description of all work to be performed including a full description of work to be performed during any known phasing of the contract.**

This legislation is a planned modification to an existing contract. It extends the time and adds budget to perform the same work for one additional year.

Scope of Services

The basic services to be provided under this Agreement are professional engineering services necessary for, and incident to: Overall Engineering Consultant Services for the Wastewater Treatment Facilities Upgrade - General Program #4. Overall Engineering Consultant Services (OEC) are necessary to provide technical and engineering assistance to the City and its design professionals in planning and coordination of the work. The OEC services are separated into several tasks, as follows:

Task 1 – Planning Services
Task 2 – Design Services
Task 3 – Construction Related Services
Task 4 – Commissioning and Start-up Services
Task 5 – General and Additional Services
Task 6 – Project Management

The City will request a task order from the consultant as necessary work is identified. The task order submitted will include a detailed scope of work, direct and indirect costs, task schedule, estimated hours, personnel categories required with labor rates, and reimbursable expenses. After negotiation and upon acceptance by the city, the consultant shall commence work. The Engineer shall provide such professional engineering services as may be necessary to accomplish the work required to be performed and shall at the firm's cost, furnish all necessary competent personnel, equipment, and materials to perform the work.

The expected duration of this contact is six (6) years. The professional services hereunder shall be funded by incremental appropriation, approximately annually.

TASK 1 - PLANNING SERVICES:

Black & Veatch will assist the City with the planning and documenting the required modifications to the facilities to reliably and consistently meet all NPDES Permit conditions, all EPA air permitting requirements, anticipate future regulatory requirements and to protect the water quality and air quality in the Columbus Facilities Planning Area. The work item may include:

- 1.1. WWTF Master Planning
- 1.2. Process Improvements Investigations
- 1.3. Basis of Design
- 1.4. Program and Budget Support
- 1.5. Water and Air Quality Sampling, Analysis & Modeling
- 1.6. Assistance with Permits and Government Agency Requests
- 1.7. DOSD Environmental Audit

TASK 2 – DESIGN SERVICES

Provide general consultation on technical issues related to wastewater treatment capital improvements projects on an as-requested basis. The work may include:

- 2.1. Capital Improvement Project (CIP) Design Document Review
- 2.2. Value Engineering:
- 2.3. Master Specification, Documents and Plans Update:

TASK 3 – CONSTRUCTION RELATED SERVICES

Provide general consultation on technical issues related to wastewater treatment capital improvements projects during construction on an as-requested basis. The work may include:

- 3.1. Assistance with review of bids and bid protests.
- 3.2. Review of construction related documents prepared by others.
- 3.3. Assistance with construction claims evaluations, adjudication, prosecution, and defense.
- 3.4. Software programming and training.

TASK 4 – COMMISSIONING AND STARTUP SERVICES

Provide general consultation on technical issues related to wastewater treatment capital improvements projects during start up and commissioning on an as-requested basis.

TASK 5 – GENERAL AND ADDITIONAL SERVICES

Attend periodic and special Project meetings called by the City and generally strive to provide efficient, professional consulting services as requested to serve the City's interests. In addition, the City may determine that specialized, additional services are necessary to the performance of the work. Such services may include, but are not necessarily limited to the list provided below. Additional services shall be performed as directed by the City and may require a properly authorized and executed Contract Modification.

- 5.1. DOSD Environmental Elements: This task includes assistance to the Division of Sewerage and Drainage with addressing environmental audit findings related to air regulatory and permitting issues, and other regulatory and permitting issues associated with water, soils, and materials.
- 5.2. Specialized plans, applications and reports in connection with project funding needs and issues. Provide technical resources for the preparation of grant or loan applications and regulatory documents on an as-requested basis.
- 5.3. Complete topographic, planimetric, land or construction surveys.
- 5.4. Preparation of easement descriptions, plats, and deeds for acquisition of rights in real property.
- 5.5. Soils and geotechnical engineering, material inspections, and testing.
- 5.6. Laboratory analyses and studies.
- 5.7. Economic studies.
- 5.8. Provide as requested assistance to Treatment Engineering for electrical and instrumentation and control work to support capital projects, including, but not limited to arc flash studies, short circuit studies and coordination studies. Deliverables will be defined as needed by the City.
- 5.9. Reliability Engineering: The purpose of this work is to assist the DOSD facilities in developing operational, maintenance, and inventory plans to address problematic systems or equipment.
There are various reliability engineering techniques that may be used to address the situation at hand. These include, but may not be limited to:
 - Failure Modes and Effects Analysis (FMEA)
 - Preventive Maintenance Optimization (PMO)
 - Root Cause Failure Analysis (RCFA)
 - Reliability Centered Maintenance (RCM)

The city shall select the appropriate technique depending on the circumstances and data available to support the analysis. All reliability analyses shall be conducted by a degreed engineer that has suitable experience as demonstrated on their resume.

As part of this work, all final results must be entered in the city's computerized maintenance management system (CMMS), Oracle WAM. The engineering technician selected to perform this work shall have suitable experience as demonstrated on their resume.

The city will request a task order from the consultant as necessary work is identified. The task order submitted will include a detailed scope of work, direct and indirect costs, task schedule, estimated hours, personnel categories

required with labor rates, and reimbursable expenses. After negotiation and upon acceptance by the city, the consultant shall commence work.

TASK 6 – PROJECT MANAGEMENT

Provide project management services to direct and coordinate the various tasks being performed under the OEC contract.

6. **A narrative timeline for the contract including a beginning date, beginning and ending dates for known phases of the contract and a projected ending date.**

Black & Veatch received notice to proceed on December 7, 2016. The contract duration is six (6) years, ending in December 2022. The professional services shall be funded by incremental appropriation, through the use of approximately annual modifications. This modification is planned to provide the services listed above until the next planned modification in December 2018.

7. **A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.**

The project provides many metrics on various environmental factors that are noted in the work to be performed. The information provided assists and guides the City in decision making on environmental issues. These decisions have a direct impact on the capital improvement program budget amounts and scheduling to address the environmental needs. No community outreach is considered for this project.

8. **An estimate of the full cost of the Contract including a separate estimate of any and all phases or proposed future contract modifications.**

Original Contract	\$1,000,000
Proposed Modification No.1	\$1,000,000
Proposed Modification No.2 (estm. 2018 funding)	\$1,894,000
Proposed Modification No.3 (estm. 2019 funding)	\$1,894,000
Proposed Modification No.4 (estm. 2020 funding)	\$1,894,000
Proposed Modification No.5 (estm. 2021 funding)	\$1,894,000
CURRENT PROPOSED TOTAL	\$9,576,000

9. **Sub-Consultants identified to work on this contract, their contract compliance no. & expiration date, and their status (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR):**

Name	C.C. No./Exp. Date	Status
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Please refer to the attached Sub-Contractor Work Identification Form (Schedule 2A-1).

10. Scope of work for each subcontractor and their estimate of dollar value to be paid.

Until the individual work tasks are defined it is not possible to show the exact amounts of money each subcontractor will be assigned. In their proposal Black & Veatch has used its past experience and professional judgment to estimate the percentage of the total project funds that it expects to assign to the team members who are disadvantaged businesses for the entire six year contract duration. The form SCHEDULE 2A-1, SUBCONTRACTOR WORK IDENTIFICATION FORM, shows the estimated amounts for all team subcontractors.