



## Legislation Text

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**File #: 1608-2014, Version: 1**

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**1. BACKGROUND:** This legislation authorizes the Director of Public Utilities to enter into a professional engineering services agreement with Black & Veatch Corporation for the Southerly Wastewater Treatment Plant (SWWTP) Biosolids Land Application Facility project. Black & Veatch Corporation, will provide design services and services during construction for this project.

The Department of Public Utilities has been working on incinerator upgrade designs to meet a Maximum Achievable Control Technology Standards (MACT) compliance date of March 21, 2016. The City has concluded that it is more advantageous to cease operation of the current Southerly Wastewater Treatment Plant (SWWTP) incinerator process and provide alternate means to handle the biosolids. Historically bio-solids have been disposed of utilizing the incineration process. With this project, the City plans to provide avenues to beneficially re-use biosolids. This project will provide infrastructure to the SWWTP in order to facilitate the maximum beneficial agricultural use of the plant's biosolids by land application including biosolids storage tanks with associated mixing and pumping equipment, liquid piping, load-out facilities, and an odor control system.

This project will also provide a storage structure for dewatered cake biosolids, piping to pump digested and undigested biosolids cake sludge simultaneously to the cake storage silos, and piping to link the biosolids land application tanks with the dewatering, thickening, and digestion processes. The primary goal of this project is to provide sufficient storage facilities, basic feed piping, and a temporary digested liquid biosolids load-out facility by March 21, 2016; thereby, reducing the need to incinerate. A second construction phase is envisioned to complete the construction of facilities to permanently eliminate incineration via expanded and enhanced land application programs.

Initial Professional Engineering Services that are being requested are for preliminary design, detail design, and bidding services. These services shall include, but are not limited to, the following tasks: inspections and evaluations of existing conditions, gathering and evaluating process information and refining project goals, an evaluation of locations, size, and number of biosolids tanks and load-out facilities, business case evaluation services, preparation of a preliminary design report, surveying and geotechnical investigations for plan development, preparation of detailed design drawings and specifications, preparation of documents and drawings for permit approval, preparation of bid documents, and bidding assistance. Upon future request, the Design Professional will be tasked with engineering services during construction and preparation of record plan drawings.

**2. Project timeline:** Black & Veatch will begin after the issuance of the Notice to Proceed (NTP). A Business Case Evaluation and Preliminary Design Report will be prepared for the project's Preliminary Design stage. It is estimated completion will be four (4) months from the date of the NTP. The Detailed Design will commence after the Preliminary Design work is approved. At the conclusion of the Detailed Design, the initial phase construction contract(s) will be bid and awarded. Black & Veatch will perform Services During Construction that include Technical Project Representation (TPR) to interpret contract requirements and to verify the construction Contractor's compliance with the project's technical requirements, start-up and commissioning assistance, and record documentation preparation assistance. Construction Management, Administrative Services, Field Project Representation (FPR) and Materials Testing and Evaluation Services will be performed by others.

The overall contract duration, from initiation of Preliminary Design services to completion of Services During Construction, is estimated to be three years.

The contract shall be funded by incremental appropriation, through the use of modifications. This original award will provide funding for the Preliminary and Detailed Design. The future needs for Services During Construction is anticipated to begin in 2015.

2014	Original Contract (current)	\$3,221,708.00
2015	Future Modification #1	\$1,759,000.00
2016	Future Modification #2	<u>\$TBD</u>
Estimated Total		\$4,980,708.00

**3. PROCUREMENT:** The Division advertised for request for proposals (RFP) on the City of Columbus's Vendor Services website and in the City Bulletin in accordance with the provisions of Section 329.14 of Columbus City Codes. The Division of Sewerage and Drainage opened the responding proposals on June 13, 2014 from the following companies:

Name	C.C. No. /Exp. Date	City/State	Status
Black & Veatch Corporation	43-1833073 / 9/30/2015	Columbus, OH	MAJ
CH2M Hill Engineers, Inc.	32-0100027 / 1/7/2015	Columbus, OH	MAJ

Two companies submitted proposals. These proposals were reviewed and ranked utilizing an evaluation committee and evaluation process. After careful consideration, the committee recommended that Black & Veatch Corporation be awarded the engineering agreement for the SWWTP Biosolids Land Application Facility project.

**4. EMERGENCY DESIGNATION:** Emergency legislation is being requested at this time in order to comply with required Maximum Achievable Control Technology compliance date.

**5. CONTRACT COMPLIANCE NO:** 43-1833073 | MAJ | 9/30/2015

**6. ECONOMIC IMPACT:** With the planned increase in re-use of biosolids materials created by this project, the SWWTP will have the necessary infrastructure to maximize its land applications use. With the elimination of the incineration process at SWWTP, there will be a corresponding improvement in air quality. Land application processes are currently the lowest cost methods of biosolids utilization. The combined increase reuse of biosolids and the reduction in incineration processing provides environmental advantages for the City of Columbus's Green Action Plan. Additionally, these benefits present an economic advantage to the City. No community outreach impact is considered for this project.

**7. FISCAL IMPACT:** This legislation authorizes the transfer within and the expenditure of \$3,221,708.00 from the Sanitary Sewer General Obligation Bond Fund, Fund 664, for the SWWTP Biosolids Land Application Facility project, CIP 650356-100002, and an amendment to the 2014 Capital Improvements Budget.

To authorize the Director of Public Utilities to enter into a professional engineering services agreement with Black & Veatch Corporation for the Division of Sewerage and Drainage for the Southerly Wastewater Treatment Plant Biosolids Land Application Facility project; to expend up to \$3,221,708.00 from the Sanitary Sewer General Obligation Bond Fund; to amend the 2014 Capital Improvements Budget; and to declare an emergency. (\$3,221,708.00)

**WHEREAS,** In accordance with the provisions of Section 329.14 of the Columbus City Codes, there were two respondents to the advertised RFP that were received and opened on June 13, 2014 at the office of the Division of Sewerage and Drainage; and

**WHEREAS,** the Department of Public Utilities review committee after careful review and consideration recommended

that the agreement for the SWWTP Biosolids Land Application Facility project be awarded to Black & Veatch Corporation; and

**WHEREAS**, it is necessary to authorize the transfer within and an expenditure of \$3,221,708.00 from the Sanitary Sewer General Obligation Bond Fund, Fund 664 for purposes of providing authority and sufficient funding for the aforementioned project expenditure; and

**WHEREAS**, it is necessary to authorize an amendment to the 2014 Capital Improvement Budget for purposes of creating and providing sufficient budget authority for the aforementioned expenditure; and

**WHEREAS**, an emergency exists in the usual daily operations of the Divisions of Sewerage and Drainage, Department of Public Utilities, and it is hereby requested that City Council authorize the Director of Public Utilities to enter into a professional engineering services agreement with Black & Veatch Corporation for the Southerly Wastewater Treatment Plant (SWWTP) Biosolids Land Application Facility project in order to comply with required Maximum Achievable Control Technology compliance date, at the earliest practical date for the preservation of the public health, peace, property, safety, and; **Now, Therefore**,

**BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBUS:**

**SECTION 1.** That the Director of Public Utilities be, and hereby is, authorized to enter into a professional engineering services agreement with Black & Veatch Corporation 4016 Townsfair Way, Columbus, Ohio, 43219 for the Southerly Wastewater Treatment Plant (SWWTP) Biosolids Land Application Facility project, in accordance with the terms and conditions as shown in the contract modification on file in the office of the Division of Sewerage and Drainage.

**SECTION 2.** That the City Auditor be and hereby is authorized and directed to transfer within a total of \$3,221,708.00 from within the Sanitary Sewer General Obligation Bond Fund | Fund No. 664 | Division 60-05 | Obj. Lvl 3 6678:

**From:**

**Fund No. | Project No. | Project Name | OCA Code | change**

664 | 650323-100000 | Land Acquisition | 664323 | -\$3,221,708.00

**To:**

**Fund No. | Project No. | Project Name | OCA Code | change**

664 | 650356-100002 | SWWTP Biosolids Land Application | 643562 | +\$3,221,708.00

**SECTION 3.** That the 2014 Capital Improvements budget Ordinance No. 0683-2014 is hereby amended as follows, to provide sufficient budget authority for the project expenditure stated in the ordinance herein.

**Fund No. | Project No. | Proj. Name | Current | Revised | (Change)**

664 | 650323-100000 | Land Acquisition | \$3,800,000 (NEW) | \$578,292 | (-\$3,221,708)

664 | 650356-100002 | SWWTP Biosolids Land Application | \$0 | \$3,221,708 | (+\$3,221,708)

**SECTION 4.** That the Director of Public Utilities be and hereby is authorized to expend up to a maximum of \$3,221,708.00 from the Sanitary Sewer General Obligation Bond Fund | Fund No. 664 | Div. 60-05 | Obj. Lvl 3: 6678:

**Fund No. | Project No. | Project Name | OCA Code | change**

664 | 650356-100002 | SWWTP Biosolids Land Application | 643562 | \$3,221,708.00

**SECTION 5.** That the said firm, Black and Veatch Corporation, shall perform the work to the satisfaction of the Director of Public Utilities and the Administrator of the Division of Sewerage and Drainage.

**SECTION 6.** That the City Auditor is hereby authorized to transfer any unencumbered balance in the project account to the unallocated balance within the same fund upon receipt of certification by the Director of the Department

administering said project that the project has been completed and the monies are no longer required for said project; except that no transfer shall be made from a project by monies from more than one source.

**SECTION 7.** That the City Auditor is authorized to establish proper project accounting numbers as appropriate.

**SECTION 8.** That the City Auditor is authorized to make any accounting changes to revise the funding source for all contracts or contract modifications associated with this ordinance.

**SECTION 9.** That for reasons stated in the preamble hereto, this ordinance is hereby declared to be an emergency measure and shall take effect and be in force and after its passage and approval by the Mayor or ten days after its passage if the Mayor neither approves nor vetoes the same.