

SPONSOR: Elbow/Wiggin

ORDINANCE NO. 116-08

AN ORDINANCE AUTHORIZING THE CITY TO ENTER INTO AN AGREEMENT BETWEEN THE CITY OF JACKSON, OHIO, AND SANTEC CONSULTING SERVICES, INC., 1500 LAKE SHORE DRIVE, SUITE 100, COLUMBUS, OHIO 43204, FOR THE WATER PLANT SLUDGE DEWATERING IMPROVEMENTS AND MISCELLANEOUS WATER TREATMENT PLANT IMPROVEMENTS, AND DECLARING AN EMERGENCY.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF JACKSON, STATE OF OHIO, as follows:

Section One. The Mayor and/or City Council President is authorized to enter into an Agreement between the City of Jackson, Ohio, and Santec Consulting Services, Inc., 1500 Lake Shore Drive, Suite 100, Columbus, Ohio 43204, for the Water Treatment Plant Sludge Dewatering Improvements and Miscellaneous Water Treatment Plant Improvements. A copy of the Agreement is attached hereto as Exhibit "A". The cost of this contract shall be in an amount not to exceed One Hundred Nineteen Thousand Three Hundred Fifty Four and No/100 Dollars (\$119,354.00), and shall be paid from the Water Fund: Professional Services, line item 701-7510-53007.

Section Two. This Ordinance is hereby is hereby declared to be an emergency Ordinance necessary for the immediate preservation of the public peace, health, or safety of the City of Jackson, and for the further reason that it is necessary to enter into this Agreement as soon as possible in order that the engineering services on these projects can commence as soon as possible. Therefore, this Ordinance shall go into effect upon passage and approval by the Mayor, as provided in Ohio Revised Code Section 731.30.

Section Three. In the event this Ordinance receives a majority vote for passage but fails to receive the required number of votes to pass as an emergency, then this Ordinance shall be deemed to have passed but with no emergency clause and shall take effect at the earliest time permitted by law.

Section Four. It is hereby found and determined that all formal actions of this Council relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that the deliberations of this Council that resulted in such formal actions, were in a meeting open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Date: 11-24-08

Ronald G. Lee
PRESIDENT OF COUNCIL

Uma Brown
CLERK OF COUNCIL

Approved:

Date: 11-25-08

Randy R. Hewitt
MAYOR

Exhibit "A"



Stantec Consulting Services Inc.
1500 Lake Shore Drive Suite 100
Columbus OH 43204
Tel: (614) 486-4383
Fax: (614) 486-4387

Stantec

November 5, 2008

Gregory P. Wilson
Director of Water/Wastewater
145 Broadway Street
Jackson, OH 45640-1656

Re: City of Jackson Water Treatment Plant,
Sludge Dewatering and Miscellaneous
Improvements for Filtrate and Sludge

Dear Mr. Wilson:

I am forwarding two copies of a professional services agreement for the design of improvements to the City of Jackson Water Treatment Plant as outlined in Exhibit A. These improvements will address handling of sludge, filter backwash and sanitary wastewater as well as provide other improvements designed to improve the filter backwashing operation.

These services pertain to the construction of Alternative 2 in our cost comparison of October 28, 2008.

Please note that the engineering cost for Alternative is slightly higher than Alternative 1 (pump station and forcemain option) due to the design of a process building and associated electrical costs.

Thank you for the opportunity to be of service to you and the City of Jackson.

Sincerely,

Stantec Consulting Services, Inc.

Dale E. Kocarek, P.E., BCEE
Project Manager



Stantec

Stantec Consulting Services Inc.
1500 Lake Shore Drive Suite 100
Columbus OH 43204
Tel: (614) 486-4383
Fax: (614) 486-4387

**EXHIBIT A:
SCOPE OF SERVICES**

**CITY OF JACKSON WATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS, AND
MISCELLANEOUS WTP IMPROVEMENTS**

This scope of services was based on the field visits of March 7, July 14 and August 22, 2008.

A) Dewatering (Fee is provided with Part I Cost Summary)

This will include the construction of a belt filter press to be housed in a new building that will allow sludge removed from the sedimentation tanks to be dewatered. In addition, we propose to use the existing recapture tank for water treatment plant residual sludge drained from the bottom of the sedimentation tanks on a quarterly basis.

We do not anticipate the need to provide any in-plant piping modifications to allow the tank system to be operated for sludge capture, noting that the "sewer line" on the 1970 drawings show BOTH filter backwash and sludge share the same "sewer." While it appears possible to construct a separate line for filter backwash in the gallery, we suggest that the plant operate the system manually for a trial period to determine if a separate line for filter backwash is truly necessary. A separate filter line could be provided as a separate project in the future.

B) Wedge Valves for Sedimentation Tanks (Fee is provided with Part II Cost Summary)

New wedge valves would be installed in the vertical position to replace existing valves, which control sludge into the "sewer line." Valves for each tank are located in a separate vault. Each tank has one vault with three valves each for a total of 12 valves.

The City wishes for the valves to be resilient wedge gate valves, which are motorized (if possible). Given the damp environment, the actuators must be water proof. The location of the vault is on Sheet 7 of the existing 1970 plans.

C) Filter Backwash Pump (Fee Included with Part II Fee Summary)

We propose to locate one Gould's pump with AFD control and piping connections to draw water off of the finished water line. Based on filter backwash requirements, this pump shall have a capacity of 2,000 to 4,000 GPM to accommodate the different backwash cycles listed above. We assume that the plant has adequate (spare) MCC buckets for the breaker, motor starter, I/O rack, and AFD controller to accommodate the pump.

D) Clear Water Transfer Pumps (Fee is provided with Part II Fee Summary)

The first step in taking the sedimentation tank off line for sludge removal is to transfer approximately 6-8 feet of clear water from the sedimentation tank to the front end of the adjacent tank. We propose to do this by installing one submersible pump per pair of tanks, which can be moved between the two tanks. As part of this modification, we would install a system of rigid and/or flexible piping to direct pumped water from the effluent end of one tank to the front of the other one. We assume that the plant has adequate (spare) MCC buckets for the breaker, motor starter, I/O rack, and AFD controller to accommodate the pump.

PART I

PROPOSED ENGINEERING FEE FOR SLUDGE DEWATERING FACILITIES

DIRECT LABOR :	EST. HRS.	-	HOURLY RATE	TOTALS
Project Manager (PM)	60	-	140.00	\$8,400.00
Sr. Process Engineer (SPE)	270	-	115.00	\$31,050.00
CAD Operator (CAD)	220	-	70.00	\$15,400.00
LABOR SUBTOTAL:	550			\$54,850.00
OTHER DIRECT COSTS			EST. COST	
a. TRAVEL	Miles	Cost/Mile		
Transportation (2 trips)	342	0.585	\$200.00	
b. EQUIPMENT, MATERIALS, SUPPLIES	QTY.	COST		
	-		\$0.00	
SUBTOTAL:				\$200.00
c. SUPPORT SERVICES			EST. COST	
Electrical Design (Building and Press)			\$12,950.00	
Geotechnical Investigation			\$5,500.00	
Structural Design (Building)			\$12,000.00	
Field Survey			\$4,000.00	
SUPPORT SERVICES SUBTOTAL:			\$34,500.00	
d. OTHER (Specify categories)			EST. COST	
OTHER SUBTOTAL:			\$0.00	
e. OTHER DIRECT COSTS TOTAL:				\$34,450.00
TOTAL PROPOSAL PRICE				\$85,400.00
TOTAL FEE: PART I				\$89,500.00

PART II

PROPOSED ENGINEERING FEE FOR FILTER BACKWASH PUMP, CLEAN WATER TRANSFER PUMPS, AND SEDIMENTATION TANK VALVES DESIGN

(MISCELLANEOUS WTP IMPROVEMENTS)

DIRECT LABOR :	EST. HRS.	-	HOURLY RATE	TOTALS
Project Manager (PM)	10	-	140.00	\$1,400.00
Sr. Process Engineer (SPE)	128	-	115.00	\$14,720.00
CAD Operator (CAD)	152	-	70.00	\$10,640.00
LABOR SUBTOTAL:	290			\$26,760.00
OTHER DIRECT COSTS			EST. COST	
a. TRAVEL	Miles	Cost/Mile		
Transportation (1 trip)	160	0.585	\$93.60	
b. EQUIPMENT, MATERIALS, SUPPLIES	QTY.	COST		
	-		\$0.00	
SUBTOTAL:				\$93.60
c. SUPPORT SERVICES			EST. COST	
Electrical Design			\$3000.00	
SUPPORT SERVICES SUBTOTAL:			\$0.00	\$3,000.00
d. OTHER (Specify categories)			EST. COST	
OTHER SUBTOTAL:			\$0.00	
e. OTHER DIRECT COSTS TOTAL:				\$0
TOTAL PROPOSAL PRICE				\$29,900.00
TOTAL FEE: PART II				\$29,854.00

Fee Summary for Parts I and II (See Tables Above)

Part I: Sludge Dewatering Facilities \$89,500
 Part II: Miscellaneous WTP Improvements \$29,854

Total Fee Requested for Part I and Part II \$119,354

Comments on Proposed Scope and Limitations of Service:

1. We understand that the primary purpose of this Agreement is to prepare design documents to sufficient detail to secure an Ohio EPA Permit to Install (PTI). This project concept plan was prepared with the assumption that it will be acceptable to the Ohio EPA. We recommend that Ohio EPA "buy off" be secured before design work is authorized.
2. The costs of obtaining other permits including building, and stormwater maintenance permits are not included in our scope. In addition, design modifications arising from the permit acquisition process have not been included in our fee.
3. Costs to pay for the PTI application are not included in our work.
4. Costs for Bidding are not included in this phase of the project.
5. Our scope does not include work to prepare easement descriptions—assumed not needed.
6. Depending upon findings of subsurface investigation and the presence of high bedrock, we may recommend additional borings be undertaken prior to bidding.

John "Jack" Detty

From: Wendy Sexton [wsexton@jacksonohio.us]
Sent: Tuesday, November 18, 2008 10:45 AM
To: 'John "Jack" Detty'
Cc: 'Humphreys, Jim'; wsheward@jacksonohio.us; rheath@jacksonohio.us
Subject: Ordinance Request
Attachments: DOC081118.pdf; _AVG certification_.txt

Jack,

Attached is an ordinance request for the next council meeting. This should be considered an emergency so that the engineering services can be started as soon as possible.

The line item for this should be: Water Fund: Professional Services: 701-7510-53007.

Thanks,
Wendy