

LEHIGH COUNTY AUTHORITY

WORKSHOP AGENDA

Monday, September 8, 2014 – 12:00 PM

INITIAL ITEMS (Collectively 5 Minutes)

1. Identify items for September Board Meeting

- Review Board Discussion items, October 2014 – November 2014

ACTION/DISCUSSION ITEMS

1. Allentown Division – Belt Filter Presses- Construction Phase (Approval)

The wastewater treatment plant has three belt filter presses that are used to dewater both wastewater sludge and water plant chemical sludge. This project will install a remanufactured belt press for existing BFP #1, and will rehabilitate in-place existing BFP #2 and #3. Units #1 and #2 will also get a new control cabinet. Board approval has already been received to purchase the remanufactured unit for BFP #1, OEM parts for BFP #2 and #3 and also for D'Huy Engineering to design the construction work for the entire project. The project was advertised for bid on July 30, 2014. Construction bids were received on August 26, 2014. The project is planned to have substantial completion by January 2015, and will be funded by LCA. We are seeking board approval for the Construction Phase. Reference attached documentation (*blue*).

2. Wynnewood Terrace Pump Station and Force Main Replacement - Resolution No. 9-2014-1

Design work is complete and we have received all permits and the project is out to bid with bids due on October 2 . The Staff initiated an application to PENNVEST for funding on August 20th. PENNVEST has allowed the application to be timely filed and the Board authorizing resolution to be submitted afterwards, therefore it is recommended that the Board approve Resolution No. 9-2014-1 (attached) (*ivory*). If approved, we can expect PENNVEST action in October.

INFORMATION ITEMS

1. *None.*

OTHER ITEMS

1. *None.*

**BOARD ACTION/DISCUSSION ITEMS
OCTOBER 2014 – NOVEMBER 2014**

PRIORITY*	PROJECT/ISSUE	TYPE OF ACTION	TIMING**
<i>AS NEEDED</i>			
H	Acquisition/Growth Strategy Activities	Status Report	As needed
L	Jordan Creek Wastewater Plant	Status Report	As needed
M	Strawberry Acres – AARC - Sewer System	Status Report	As needed
H	Strategic Plan Update	Status Report	As needed
<i>WITHIN 45 DAYS</i>			
M	Park Pump Station Fuel Tank Replacement- Construction Phase	Approval	September (B)
H	Allentown Division- Sanitary Sewer Manhole Lining, Construction Phase	Approval	September (B)
H	Update on the LCA/City 537 Plan Study	Status Report	October (W/B)
H	Wynnewood Terrace Pump Station & Force Main Replacement- Construction phase	Approval	October (W)
H	Preliminary Capital Plan	Discussion	October (W)
<i>WITHIN 75 DAYS</i>			
H	Allentown Division- Sanitary Sewer Manhole Collars & Water Tight Covers, Construction Phase	Approval	October (B)
M	Hydro-Pneumatic Pump Station Upgrade (Pine Lakes of Lynn), Design Phase	Approval	October (B)

* **H – High**
M – Medium
L – Low

** **(W) – Workshop**
(B) – Board
(W/B) - Either

RESOLUTION No. 9-2014-1

(Duly adopted 8 September 2014)

A RESOLUTION AUTHORIZING THE SUBMISSION OF A FINANCIAL ASSISTANCE APPLICATION TO THE PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY FOR FINANCING OF THE WASTEWATER COLLECTION SYSTEM IMPROVEMENTS FOR WYNNEWOOD TERRACE DEVELOPMENT, NORTH WHITEHALL TOWNSHIP PROJECT (THE "PROJECT")

WHEREAS, the Authority is, and has been, developing regional water and sewer systems in Lehigh Valley of Pennsylvania; and

WHEREAS, the Authority has determined that it is necessary and in its best interests to construct the Project that will be part of the its systems; and

WHEREAS, the Authority has applied to the Pennsylvania Infrastructure Investment Authority ("PennVEST") for a loan in an amount of \$1,000,000 to finance the Project;

NOW THEREFORE BE IT RESOLVED that the Authority pursuant to the Municipality Authorities Act, specifically resolves that the 2014 submission of a Financial Assistance Application to PennVEST is hereby authorized and ratified and further, that the actions of the Authority Staff in preparing and submitting such application to PennVEST in substantially the form presented at this meeting for the purpose of financing the Project are hereby authorized and all such actions up to this point are hereby ratified. This authorization and ratification includes execution of all certifications and documentation required in connection with the application by the officers of the Authority, Chief Executive Officer and Chief Financial Officer, as well as attestation by the officers of the Authority, Solicitor or Chief Operating Officer and embossment of the Authority seal, if necessary. This resolution shall be retroactive to 1 August 2014.

On motion of _____, seconded by _____, this Resolution was adopted the 8th day of September 2014.

MEMORANDUM

Date: September 2, 2014

To: Authority Board
From: John Parsons, Frank Leist
Subject: Allentown Wastewater Treatment Plant
Belt Filter Press Reconditioning and Replacement – Construction Phase

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Construction Phase	\$617,120
2 ⁽¹⁾	Professional Services Authorization – D’Huy Engineering	\$9,120

(1) Included in the Capital Project Authorization.

PROJECT OVERVIEW:

The Project includes the replacement or reconditioning of the three wastewater plant belt filter presses (BFP’s) which have all reached the end of their useful lives. Having been installed approximately 30 years ago, all three BFP’s have become highly corroded due to the nature of the local environment. The existing frame on BFP #1 is beyond repair and a fully factory remanufactured replacement unit is necessary. The condition of BFP’s 2 & 3 will allow for reconditioning on-site.

The corrosive environment has also taken its toll on the belt press control cabinets and instrumentation. Two of the three existing control panels are beyond repair and are included for replacement as part of this project.

The installation of the remanufactured unit and the reconditioning in place of the remaining units and control panels were publically bid. Separate general and electrical contracts are now to be awarded.

FINANCIAL:

This Project is identified on Schedule 7 of Concession Lease Agreement as a Required Capital Improvement that will be funded by LCA. With an estimated project cost totaling \$1,643,496, the project meets the definition of a Major Capital Improvement Project. A Project Labor Stabilization Agreement was not incorporated into this work.

PROJECT STATUS:

Previously the Board approved the procurement of the factory remanufactured BFP No. #1, the replacement parts for BFP #2 and #3, and the design phase. We are currently seeking board approval for the construction phase.

BELT FILTER PRESSES –CONSTRUCTION PHASE

The construction phase includes activities that are necessary to install the remanufactured unit (BFP #1), and also for the in-place retrofits (BFP #2 and #3). Three new sludge cake chutes are included in the proposed construction and some small-scale modifications to the existing catwalks will be required. The General contractor will be responsible to remove/replace BFP #1, retrofit BFP #2 and #3, install the new chutes and modify the catwalks. The Electrical contractor will be responsible for the disconnection/reconnection of power to all three belt presses, plus the installation of the new control panels to belt presses #1 and #2, and the local control panels.

BIDDING SUMMARY:

The project requires General Construction and Electrical Construction Contracts. The project was advertised for bid on July 30, 2014. A mandatory pre-bid meeting was held on August 11, 2014. Six (6) Electrical Contractors and four (4) General Contractors attended the pre-bid meeting. Bids were received on August 26, 2014 and are summarized below:

General Construction

<u>Bidder</u>	<u>Amount</u>
Michael Ronca & Sons	\$390,000
Blooming Glen	\$472,130

Electrical Construction

<u>Bidder</u>	<u>Amount</u>
High Peak Electrical	\$163,000
Diefenderfer	\$194,376
Barry Hoffman	\$257,100
Ace Electric	\$340,000

References have been checked on the low bidders, Michael Ronca & Sons (General), and High Peak Electrical (Electrical). No issues have been identified. Based upon the review of the bids, we recommend award of the General Construction contract to Michael Ronca & Sons and the award of the Electric Construction contract to High Peak Electrical, subject to the receipt of the necessary Performance Bonds, Insurance and other required documentation.

PROFESSIONAL SERVICES

D'Huy Engineers have been our design consultant on this project and will provide construction engineering and on-site inspection services for the construction phase of the belt press installations. Their work will include:

1. Schedule and chair a preconstruction meeting
2. Review shop drawings and respond to RFIs.
3. Provide work review visits and assist with contract administration.
4. Assess work for substantial completion and open items
5. Compile as-built drawings.

Reference attached Professional Services Authorization Amendment #1.

PROJECT SCHEDULE: Presently, the construction phase of this project is anticipated to have BFP #3 being completed by the end of November 2014, BFP #2 being completed by the end of December 2014, and BFP #1 being completed by the end of January, 2015.

FUTURE AUTHORIZATIONS-

No future authorizations are anticipated.

CAPITAL PROJECT AUTHORIZATION

PROJECT NO.:	AD-S-14-1	BUDGET FUND:	Allentown Div\Wastewater\Capital
PROJECT TITLE:	Allentown Wastewater Treatment Plant Belt Filter Press Upgrades- Construction Phase	PROJECT TYPE:	<input checked="" type="checkbox"/> Construction <input type="checkbox"/> Engineering Study <input type="checkbox"/> Equipment Purchase <input checked="" type="checkbox"/> Amendment No. 3
THIS AUTHORIZATION:	\$ 617,120		
TO DATE (W/ ABOVE)	\$ 1,643,496		

DESCRIPTION AND BENEFITS:

The Project includes the replacement or reconditioning of all three wastewater plant belt filter presses (BFP's) which have all reached the end of their useful lives. Having been installed approximately 30 years ago, all three BFP's have become highly corroded due to the nature of the local environment. The existing frame on BFP #1 is beyond repair and a fully factory remanufactured replacement unit is necessary. The condition of BFP's 2 & 3 will allow for reconditioning on-site. The corrosive environment has also taken its toll on the belt press control cabinets and instrumentation. Two of the three existing control panels are beyond repair and are included for replacement as part of this project.

The installation of the remanufactured unit and the reconditioning in place of the remaining units and control panels were publically bid and contracts will be awarded for a General Contractor and an Electrical contractor.

Authorization Status:

<i>Previous Authorizations</i>	
BFP #1 Procurement	\$440,780
Design Phase	\$86,080
Purchase of OEM Parts (BFPs#2&3)	\$499,516
Requested This Authorization	
Construction Phase	
Staff	\$30,000
Professional Services	\$9,120
Construction Contracts	
General	\$390,000
Electrical	\$163,000
Miscellaneous	\$5,000
Contingency	\$20,000
Total This Authorization	\$617,120

Future Authorizations	
None	
Total Estimated Project	\$1,643,496

REVIEW AND APPROVALS:

Project Manager	Date	Chief Executive Officer	Date
Chief Capital Works Officer	Date	Chairman	Date



Lehigh County Authority

1053 Spruce Street * P.O. Box 3348 * Allentown, PA 18106-0348
(610)398-2503 * FAX (610)398-8413 * Email: service@lehighcountyauthority.org

**PROFESSIONAL SERVICES AUTHORIZATION
Amendment No. 1**

Professional: D'HUY ENGINEERING, INC.
One East Broad Street, Suite 310
Bethlehem, PA 18018

Date: September 2, 2014

Requested By: John Parsons

Approvals

Department Head: _____
Chief Executive Officer: _____

Allentown Wastewater Treatment Plant, Belt Filter Press Upgrades

Previous Authorization- Design Phase: \$21,080

This Authorization – Construction Phase \$9,120

D'Huy Engineering, Inc. will perform construction phase and related services for the installation of one (1) refurbished belt filter press and the on-site rebuilding of two (2) belt filter presses. Project site is the Allentown Wastewater Treatment Plant of the Allentown Division.

Professional Services ⁽¹⁾
1. Schedule and chair a pre-construction meeting
2. Review shop drawings and respond to RFIs.
3. Provide work review visits and assist with contract administration
4. Assess work for substantial completion and open items
5. Compile as-built drawings

(1) For Construction Phase Only.

Cost Estimate (not to be exceeded without further authorization): \$30,200

Time Table and Completion Deadline: As required to meet various critical deadlines as set forth in the proposal.

(For Authority Use Only)

Authorization Completion:

Approval: _____ **Actual Cost:** _____ **Date:** _____

**PROFESSIONAL SERVICES AUTHORIZATION
INDEMNIFICATION
Allentown Wastewater Treatment Plant
Belt Filter Press Upgrades**

(To be signed by Professional and returned to the Authority)

I am or represent the Professional indicated above, and as such I am authorized to:

- Accept the terms of the professional services authorization dated _____ attached; and

- Agree to indemnify and hold harmless LCA, the City of Allentown, their employees, agents, officials, representatives, attorneys, and assigns from any and all liability, arising out of all activities conducted by the Consultant in connection with this contract and/or the Consultant's performance hereof, including but not limited to payment of all fees for its/their attorneys and all incidental litigation expenses in the event LCA or any of its employees, agents, officials, representatives, attorneys, and assigns are sued upon a claim emanating from the Consultant's performance thereof. Professional shall not, however, be liable for any portion of a judgment nor associated litigation expenses, including attorney's fees, ultimately determined to be the result of the negligence of the Authority.

Name (signature):

Name (printed)

Title: _____