



LEHIGH COUNTY AUTHORITY

April 18, 2011

BOARD MEETING AGENDA

1. Call to Order
2. Review of Agenda
 - *Public Participation Sign-In Request*
3. Executive Sessions
4. Approval of Minutes
 - *February 14, 2011 Workshop Meeting Minutes*
 - *February 28, 2011 Regular Meeting Minutes*
 - *March 14, 2011 Workshop Meeting Minutes*
5. Public Comments
6. Election of Officers
7. Action / Discussion Items

FINANCE AND ADMINISTRATION

- *Employee Flexible Spending Account Benefit – Resolution 4-2011-1 (Approval)*

WATER

- *None*

WASTEWATER

- *Arcadia West WWTP Upgrad (Possible Approval)*

8. System Operations Overview
9. Staff Comments
10. Solicitor's Comments
11. Other Comments
12. Adjournment

MARCH MEETINGS

Workshop Meeting
Board Meeting

May 9 – 12:00 p.m.
May 23 – 12:00 p.m.

PUBLIC PARTICIPATION POLICY

In accordance with Authority policy, members of the public shall record their name, address, and discussion item on the sign-in sheet at the start of each meeting; this information shall also be stated when addressing the meeting. Members of the public will be allowed 5 minutes to make comments/ask questions regarding non-agenda items, but time may be extended at the discretion of the Chair; comments/questions regarding agenda items may be addressed after the presentation of the agenda item. Members of the public may not request that specific items or language be included in the meeting minutes.

FINANCE & ADMINISTRATION

ACTION ITEMS

1. ***Employee Flexible Spending Account Benefit – Resolution 4-2011-1*** (Approval)

Attached (***purple***) is a resolution which authorizes the continuation of our Employee Flexible spending account benefits. Our administrator recommended that the agreement be updated because of program changes resulting primarily from 2010 healthcare law changes. As an example of over-the-counter drugs no longer are eligible for reimbursement under the plan.

DISCUSSION ITEMS

1. ***None.***

INFORMATION ITEMS

1. ***None.***

WATER

ACTION ITEMS

1. *None.*

DISCUSSION ITEMS

1. *None.*

INFORMATION ITEMS

1. **Water Meter Replacement Project, Phase 1**

Phase 1 - Vanguard Utility Service, Inc. had pulled its remaining employees off the job site on February 14. Based on our follow-up conversations with Vanguard, they returned on March 31 to complete the work. Approximately 322 accounts need to be addressed, of which 273 are meters that could not be read.

Phase 2 –Notices were sent to approximately 3,320 customers in Phase 2 that are not within areas where low pressures are a concern. There are approximately 600 customers in areas where meters will not be installed until the low pressure issue can be further investigated. The notices are intended to introduce the project to customers, and to request that meters be made accessible and recommend that a thermal expansion tank be installed.

Bidding on the Phase 2 project commenced on March 26, with bids due on April 28. A mandatory pre-bid meeting was held on April 12.

2. **Interconnection with Allentown**

Phase 1 - Connection at Schantz Spring – Testing of the emissions from the emergency generator engine proved compliance with EPA regulations. The third-party testing service sent their report to DEP for review.

Phase 2 – Connection to City Transmission System at 26th and Chew Streets - Easement documents have been sent to the City of Allentown and Lehigh County for execution. We received construction bids on April 18, 2011; the bid tab is attached (**yellow**). A recommendation for award of the contract will be made at the May Board meeting.

3. **Water Main Replacement Project 2011 – Oakland Park (UMT)**

Due to changes in the NPDES permit requirements effective as of 2011, this project will require that we complete an E&S plan for review by the Lehigh County Conservation District and possibly apply for a NPDES permit prior to the start of construction. We have solicited proposals from engineering firms to complete this work for us. As NPDES approvals typically take multiple months, if a NPDES is required, we will have to delay the start of this project until we have a permit in hand. If that is the case, we do not anticipate a construction start date any earlier than next spring. Otherwise, we may be able to go out to bid later this summer for a late summer/early fall construction period.

4. **Water Main Relocation Project – Slatedale**

PaDOT is widening the bridges on West Grant and Main Streets in Slatedale and our water facilities will be impacted by this effort. Work is slated to start in Mid-April and will begin on West Grant Street. Our exposure, by PaDOT Agreement, is about \$25,000.

5. **CLD Water System Model**

Gannett Fleming is calibrating the model. They requested data for the next phase of the project involving analyses of the City of Allentown interconnection and water quality.

6. **WL-1 Tank Replacement**

Construction activity began on March 17, tank delivery was March 31. The work is proceeding ahead of schedule and is anticipated to be complete by the end of April.

7. **Developments**

Water system construction is occurring at the following developments:

- Lehigh Hills, Phase 1, 1 commercial lot, UMT
- Valley West Estates, Phases 4, 5 & 6, 46 residential lots (sfd), UMT (*There has not been any construction activity at this development in over a year.*)

Water system plans are being reviewed for the following developments:

- Diocesan Pastoral Center, 2 commercial lots, 3 additional lots, & residual lot for existing cemetery, LMT
- Hamilton Crossings, 3 commercial lots, LMT
- Hickory Park Estates, 3 residential lots (sfd), UMT
- Hillview Farms, 31 residential lots (sfd), LMT/SWT
- Indian Creek Industrial Park, 6 commercial lots, UMIIT, water and sewer
- Morgan Hills, 40 residential lots (sfd), Water & Sewer, WeisT
- North Whitehall Commercial Center (Walmart), 5 commercial lots, NWT, water and sewer
- Rabenold Farms, 205 residential lots (sfd), (Portion south of I-78), UMT
- Rabenold Farms II, 288 apartment units and clubhouse, (Portion north of I-78), UMT
- Red Maple Acres Expansion, 29 units, LMT
- Shepherd's Corner, 1 commercial lot, LMT
- Spring Creek Properties Subdivision 1, 14 commercial and industrial lots, LMT
- Trexler Business Center, Lot 1, 1 commercial building, LMT
- Trexler Senior Living Center, 2 commercial lots, LMT (*In bankruptcy*)
- Trexletown Shopping Center Remodeling/Expansion, 1 commercial lot, LMT/UMT
- Weilers Road Twins, 82 residential lots (sfa), UMT
- West Hills Business Center, 5 industrial lots, WeisT
- Woodmere Estates, 60 residential units (sfd), UMT
- Wotring North Development, 20 residential units (sfd), UMT

WASTEWATER

ACTION ITEMS

1. **Arcadia West WWTP Upgrade** (*Possible Approval*)

Bids were opened on March 17 via PennBID - a summary is attached (*pink*). HRG is reviewing the bids and alternates that were submitted. If the contracts can be awarded at the meeting, a recommendation will be mailed under separate cover.

HRG has certified that the bidding documents meet the PennVEST competition requirements. However, DEP is reviewing the specifications, and might require the project to be re-bid in order to receive the PennVEST financing. Settlement on the PennVEST loan is scheduled for June 14, but will be postponed in the event of re-bidding.

DISCUSSION ITEMS

1. *None.*

INFORMATION ITEMS

1. **Flow Equalization Basin (FEB)**

Staff is working with PennVest to finalize all numbers. PennVest will be conducting an audit of the project in the near future.

2. **Laury's Station Area Sewer Service**

No current activity. Hanover Engineering Associates will be preparing the Sewage Facilities Plan (Act 537) Amendment for North Whitehall Township in the Laury's Station area. We have provided them with information on the Wynnewood Terrace system and copies of the planning studies that the Authority has completed to date.

3. **South 7th Street Sewer Extension Project - Phase 2 (UMiT)**

The contractor has submitted the documentation for Final Payment, with the exception of documents from one of his suppliers.

4. **Vera Cruz Area Sewer Project**

Agreements have been signed and a Pre-Construction meeting was held on March 22. Notice to Proceed was issued setting the contract start date at April 4, 2011. Groundbreaking takes place in Mid-April. Substantial Completion and Final Completion are December 30, 2011 and February 28, 2012, respectively.

5. **Infiltration and Inflow (I&I) Program Update**

The 537 plan revisions and SCARP submitted to the DEP in March of 2010 have not been approved to date. Mr. Fritz indicated recently that the approval would be granted in the next few weeks. LCA submitted the first annual report to DEP at the end of March as indicated in the SCARP.

Piezometers (monitoring wells) were installed in 8 locations throughout the wastewater system (including the LCA Operations Center) to monitor the depth of the ground water to determine and document water levels over time. KCE administered the contract and will provide the weekly measurements.

6. Wastewater Treatment Capacity

The steering committee will meet again in 2011 when additional or updated information is available.

We have received the COA cost estimate for expansion of the Kline's Island Wastewater Treatment Plant. Malcolm Pirnie has also updated the cost estimates for the LCA WTP upgrading option costs. Both Engineers have updated the costs based on the discussion and will determine life cycle costs of each option. The information will be available for review in the near future.

LCA has provided a cost estimate for the LCA conveyance upgrades necessary for an additional 4 mgd going to the City. At a future date, a cost estimate will be determined for the City conveyance upgrades necessary from Park Pump Station to Kline's Island.

The wastewater characterization report was completed by Malcolm Pirnie to help in facility planning and design purposes. The results confirm that the available N and P in the influent would not be consistently consumed during treatment and additional P removal and nitrification will be necessary to meet the limits of the direct discharge.

A presentation is planned for the May 9th workshop to update the Board on the estimates and schedule.

7. WTP Energy Audit

CET Consulting is performing an energy audit of the WTP with an emphasis on the methane gas utilization. In general, the scope of work includes an evaluation of the plant processes and recommendations for energy improvement measures.

Phase I of the study is complete and was presented to the Board at the February workshop. The report included an economic evaluation of the excess biogas production including a comparison of selling the excess biogas to Kraft Foods or utilizing the biogas on-site at the WTP. We have received written notice from Kraft that they are no longer interested in purchasing the LCA biogas due to the project not being economically feasible for them. LCA met with Kraft to determine if their grant could be transferred to LCA. It has been determined that the Kraft grant cannot be transferred to LCA.

Additional sampling and analysis of the digester waste streams is being conducted to confirm the potential for gas production. The sampling will be completed by mid April and be evaluated by CET Engineers.

Phase II of the study will include an evaluation of other energy improvement/energy efficiency measures and will specifically look at optimizing digester performance and the hauler waste program for increased biogas production. At the conclusion of Phase II, we should have all the necessary information to decide if co-generation is viable.

The LCA package wastewater treatment plants are being evaluated in Phase III. The consultant has made site visits to the treatment plants. The report is expected within a month.

Lehigh County Authority
Summary of Bids Received
LCA-Allentown Water Interconnection, Phase 2
Bid Opening - 1:00 PM April 18, 2011

Bidder	Total Bid Price *
Livengood Excavators, Inc. Walnutport, PA	\$ 3,063,473.24
Mazzuca Enterprises Inc. Pottsville, PA	\$ 3,144,625.00
Pioneer Construction Co., Inc. Honesdale, PA	\$ 3,193,577.00
Doli Construction Corporation Chalfont, PA	\$ 3,317,296.00
PACT Construction, Inc. Ringoes, NJ	\$ 3,333,331.00
Michael F. Ronca & Sons, Inc. Bethlehem, PA	\$ 3,583,000.00
Joao & Bradley Bethlehem, PA	\$ 3,583,747.00
N. Abbonizio Contractors, Inc. Conshohocken, PA	\$ 3,585,240.60
Anrich, Inc. Wayne, PA	\$ 3,695,209.00
A. Scott Enterprises Saylorsburg, PA	\$ 3,764,650.50
Marona Construction Co. Colmar, PA	\$ 3,929,620.00
Marks Contracting, Ltd. Lebanon, PA	\$ 4,029,610.00
James T. O'Hara, Inc. Covington Twp., PA	\$ 4,115,530.00
Ankiewicz Enterprises Inc. DBA Grand Prix Excavation Tamaqua, PA	\$ 4,316,710.00
Wexcon, Inc. Mohrsville, PA	\$ 4,468,882.50
<i>Engineer's Estimate</i>	\$ 4,201,215.00

* Bid prices are preliminary, pending verification.

Lehigh County Authority - Arcadia West Wastewater Treatment Plant Improvement Project
Bid Opening: 3/17/2011 2:10 PM Eastern

CONTRACT #1: GENERAL CONSTRUCTION

Company	Base Bid	ALTERNATE MANUFACTURER SBR	ADD/(DEDUCT) AMOUNT SBR	ALTERNATE MANUFACTURER FILTRATION	ADD/(DEDUCT) AMOUNT FILTRATION	ALTERNATE MANUFACTURER TANKS	ADD/(DEDUCT) AMOUNT TANKS
Walabax Construction Services, Inc.	\$1,964,000.00	Ashbrook	\$ (93,000.00)	Ashbrook	\$ (77,000.00)	Mack	\$ (20,000.00)
Lisbon Buildings Infrastructures, Inc.	\$1,989,000.00	Ashbrook	\$ (90,000.00)	Ashbrook	\$ (60,000.00)		
C&T Associates, Inc	\$1,993,900.00	Ashbrook	\$ (175,000.00)	Ashbrook	*	Mack	\$ (7,000.00)
Aqua Resources, Inc.	\$2,020,000.00	Ashbrook	\$ (100,000.00)	Ashbrook	\$ (75,000.00)		
Johnston Construction Company	\$2,033,425.00	Ashbrook	\$ (107,300.00)	Ashbrook	\$ (80,475.00)	Mack	\$ (11,803.00)
Klipper Construction Associates, Inc.	\$2,037,000.00	Ashbrook	\$ (100,000.00)	Ashbrook	\$ (75,000.00)	Mack	\$ (9,000.00)
JEV Construction LLC	\$2,042,000.00	Ashbrook	\$ (60,000.00)	Ashbrook	\$ (50,000.00)	Mack	\$ (1,000.00)
DESCCO Design and Construction	\$2,054,641.00	Ashbrook	\$ (75,000.00)	Ashbrook	\$ (100,000.00)	Mack	\$ (4,000.00)
Layne Christensen Company	\$2,064,000.00	Ashbrook	\$ (100,000.00)	Ashbrook	\$ (75,000.00)	Mack	\$ (3,000.00)
PACT TWO LLC	\$2,093,500.00	Ashbrook	\$ (135,000.00)	Ashbrook	*		
American Contracting and Environmental Services	\$2,150,000.00	Ashbrook	\$ (82,000.00)	Ashbrook	\$ (59,000.00)	Mack	\$ (3,200.00)
The McElwee Group, L.L.C.	\$2,184,000.00	Ashbrook	\$ (165,000.00)	Ashbrook	*	Mack	\$ (9,000.00)
QEI Construction Group, LLC	\$2,209,000.00	Ashbrook	\$ (170,000.00)	Ashbrook	*	Mack	\$ (3,000.00)
PSI Pumping Solutions, Inc.	\$2,358,397.00						

* The add/deduct amount shown for the SBR alternative was offered for the combined SBR and Filtration equipment alternates.

CONTRACT #2: ELECTRICAL CONSTRUCTION

Company	Base Bid
Barry J. Hoffman Co., Inc.	\$305,970.00
Wind Gap Electric, Inc	\$322,770.00
George J. Hayden, Inc.	\$372,000.00
PSI Pumping Solutions, Inc.	\$389,700.00
Thomas L. Hoffman Electric	\$402,698.00
Philips Brothers Electrical Contractors, Inc.	\$415,707.00
A. N. Lynch Co., Inc.	\$415,848.00
GS Developers Inc.	\$568,000.00

CONTRACT #3: MECHANICAL AND PLUMBING CONSTRUCTION

Company	Base Bid
K.C. Mechanical Service, Inc.	\$77,000.00
Johnston Construction Company	\$102,023.00