

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – April 15, 2015

1. Call to Order

Mr. Lapinski, Vice Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, April 15, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, McShea, and Nucciarone; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; Richard Campbell, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert and Chris Underwood, RETTEW; Mark Whitfield, State College Borough; Eric Vorwald and Sharon Bressler, Center Region; Mr Scarborough and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – March 18, 2015

UAJA
Meeting Minutes
Approved

A motion was made by Mr. Dempsey, seconded by Mr. Nucciarone, to approve the minutes of the UAJA meeting held on March 18, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1. Odor Control Study Update

Ben Burns updated the board on the progress of the odor control study.

5. New Business

5.1 Change Orders

There are 3 Change Orders to consider for the SHAWT Contracts:

Change Order #1 in the additive amount of \$6315.81 for Contract 14-06 to demolish the ductwork in the tertiary filter gallery that was abandoned and over the filter beds with difficult access.

Change Order #2 in the additive amount of \$4,782.42 for Contract 14-07 to modify the electrical system for the ozone equipment. This amount will be recovered by a future deductive Change Order to Contract 14-05.

Change Order #3 in the additive amount of \$2,235.76 for Contract 14-07 for installation of the chemical feed pumps for chlorination of the reuse water.

Change Orders
Approved

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the three change orders as presented. Motion passed unanimously.

5.1 Requisitions

BRIF #161	M2 Construction SHAWT 14-05 (General) Pay App #5	\$388,929.05
BRIF #162	M2 Construction SHAWT 14-06 (HVAC) Pay App #3	\$25,801.75
BRIF #163	GCS Water Purification, LLC SHAWT 14-08 (Membranes) Pay App #1	\$39,748.75
BRIF #164	Dale Summit Acquisitions April Lease Pymt.	\$25,000.00
BRIF #165	Rettew SHAWT Engineering Inv #86212	\$11,600.00
BRIF #166	HRG Odor Control Study Pay App #6	\$1040.02
BRIF #167	Groff Tractor & Equipment SR210 Skid Steer	\$38,380.00

Requisition Approved

A motion was made by Mr. Dietz, seconded by Mr. Dempsey, to approve BRIF requisitions 161 - 167. The motion passed unanimously.

Revenue Fund #138	Debt Service, Operation & Maintenance	\$1,000,000
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Requisitions Approved

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to approve the Revenue Fund Requisitions #138. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending March 31, 2015. Mr. Smith reported that the field audit work has been completed. A draft audit report is due May 1st. This will be sent to the board members for their review/comment. The Audit must be approved at May's meeting.

6.2 Chairman's Report

None

6.3 Compost & Septage Operations Report

The following comments are as presented to the Board in the written report prepared by Jason Brown, Project Manager.

COMPOST PRODUCTION AND DISTRIBUTION

	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>
Production	646 cu/yds.	662 cu/yds.	653 cu/yds.	685 cu/yds.	546 cu/yds.	585 cu/yds.
YTD. Production	6,597 cu/yds.	7,259 cu/yds.	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.	1,816 cu/yds.
Distribution	559 cu/yds.	227 cu/yds.	285 cu/yds.	315 cu/yds.	902 cu/yds.	610 cu/yds.
YTD. Distribution	7,313 cu/yds.	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.	1,827 cu/yds.
Immediate Sale	534 cu/yds.	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.	1,396 cu/yds.
Currently in Storage	1,180 cu/yds.	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.	1,981 cu/yds.

SEPTAGE OPERATIONS

	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	152,000 gals.	0 gals.	102,000 gals.	33,000 gals.	0 gals.	179,500 gals.
CH/Potter	6,963.90 lbs/solids	1,843.14 lbs/solids	5,550.27 lbs/solids	2,339.37 lbs/solids	2,706.33 lbs/solids	9,778.65 lbs/solids
Port Matilda	1,651.32 lbs/solids	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids	2,018.28 lbs/solids
Huston Twp.	617.16 lbs/solids	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids	617.16 lbs/solids
Total Flow	227,000 gals.	37,500 gals.	162,500 gals.	69,500 gals.	28,500 gals.	264,500 gals.

6.4 Plant Superintendent's Report

The following comments are as presented to the Board in the written report prepared by Art Brant, Plant Superintendent.

Plant Operation

The treatment plant is operating well no exceptions to our NPDES permit. The 12-month rolling average flow for March was 4.31mgd with the average for the month being 5.29mgd. The average monthly **influent** flow was 6.63mgd. There were no inspections by DEP this month. Treatment units on line are as follows: primary clarifiers #3, #4, #5 and #6; aeration basins #1 and #2; secondary clarifiers #1, #2 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Mar-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	39,000	99,000		
Centre Hills	0	0	Mar-15	Mar-15
Cintas	781,000	2,125,000	52.7	47.6
Red Line	469,000	1,213,000		
Uaja Wetland	4,130,000	12,889,000		
GDK Vault	9,164,000	31,337,000		
Kissingers	700,000	2,547,000		
Stewarts	0	0		
TOTAL	15,283,000	50,210,000		

Plant Maintenance

- Replaced the HOA switch and adjusted the pressure regulator for Utility Water Pump #2.
- Hartford Steam Boiler inspected the air tanks around the facility and minor modifications were made to comply with the new regulations.
- New explosion-proof heaters were installed at Septage Receiving.
- The ten-year inspection of the Alum Tank, required by DEP, was performed.
- Cleaned and serviced the carbon addition storage tank, lines and pumps. Carbon feed began on April 1, 2015.
- Installed weir brushes on Secondary Clarifier #4.
- We continue removing the old wood chips and cleaning the laterals in the Compost Bays.
- Replaced the sump pump and repaired the heater at the Booster Station.
- Cleaned the laterals in the filter bed along with replacing the spray misters. Also tilled the filter media.
- Replaced the motor in MAU-1305.
- Staff members from Maintenance and Collections continue to attend an extensive 5 week electrical training at CPI.
- Replaced the Bio filter drain valve.

6.5 Collection System Superintendent's Report

The following comments are as presented to the Board in the written report prepared by Richard Lahr, Collection System Superintendent.

Mainline Maintenance:

- UA) Lateral Installations – (1) Sam's Club Fuel Facility
- UA) Lateral Repairs – (4) 200 Camelot, 477 & 466 Park Ln., 493 Sierra Ln.
- UA) Mainline Cleaning – (12) manholes inspected- (1,910) feet cleaned
- UA) Mainline Repairs – (5) 100 Willow Cir., 4 locations on Circleville Rd.
- UA) Manhole Repairs – (0)
- UA) Manhole Casting Repairs – (0)
- FTA) Lateral Installations – (0)
- FTA) Lateral Repairs – (0)
- FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned)
- FTA) Mainline Repairs – (0)
- FTA) Manhole Repairs – (0)
- FTA) Manhole Casting Repairs – (0)

(A)CONSTRUCTION &(B)I/ INSPECTION: (A)(We TV'd 1,910 ua/0 fta feet of mainline and inspected 12 ua/0 fta MH's .) (B)Tested/Grouted – (MH's grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0/) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally. Several of our staff are taking an electrical class at CPI. We repaired two (2) E-1 pumps and installed a new alternating relay at the Haymarket station.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

a. Villal & Villa 2 Apts. Replacement – We are awaiting revisions.

New Connections:

a.	Single-Family Residential	6	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Industrial	0
					TOTAL
					6

PA One-Calls Responded to: 3/1-31/15: 281

6.6 Engineer's Report

The following comments are as presented to the Board in the written report prepared by the Consulting Engineer.

Retainer

- Sewer Model Updates –Staff is updating the GIS database for geospatial EDU distribution.
- Attended a meeting with staff and State College Borough to discuss the sewer replacement project upstream of the Claster's Meter and subsequently reviewed hydraulic calculations.
- A pressure logger was provided to monitor force main pressures at the Scott Road Pump Station. An evaluation of hydraulic conditions was then completed.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- Closeout documents have been issued for Contract 09-5 and Contract 09-6.
- P-102 was re-installed, but failed to operate due to a bad sensor wire. After numerous field visits, the pump is operational; however, the sensor has been bypassed. The pump manufacturer is to provide a corrective action plan.
- The performance of the 100 Series pumps is lower than expected. A manufacturer's representative was on-site to evaluate pump performance. A report is to be provided.
- Applications for Payment are presented in the table below. A recommendation for final payment and contract closeout will be provided at the meeting, contingent on the receipt of all required closeout documentation, specifically "final" certified payrolls.

Constructed Wetlands

- The Authority's staff installed new orifice plates on the wetland distribution lines. Water flow to the wetlands will be restored on April 13th.
- HRG is coordinating with the Contractor to finish punchlist items (i.e. establish vegetative cover, conceal augmentation structures, correct leaking manholes, finalize closeout documents).

Selders Circle Sewer Relocation

- Construction stakes damaged through the winter were re-established.

Ghaner Road Pump Station

- Simultaneous pumping of up upstream stations to occur on April 13th at 1 PM.

Odor Control Study

- The HRG/Material Matters team will be meeting with Authority staff to schedule and plan the final, spring sampling event.
- HRG is working with the Authority's staff to identify interim rehabilitation methods to improve biofilter performance.
- An interim report is being prepared to provide the status of the study and any findings to date.
- The Odor Observation Data Collection Sheet is being converted into an on-line form for easier submission.

Standard Specifications and Details Update

- Work to prepare updated specifications and details is ongoing.

6.7 Construction Report

The following comments are as presented to the Board in the written report prepared by the Construction Engineer.

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Troubleshooting of Network Reliability between AWT and Control Room
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Completion of a New Mix Design for Compost and Assistance in Implementation
- Participation in Odor Control Study Update and Planning Meeting
- Development of modified Building Ventilation at Compost to minimize Airflow and reduce Biofilter Loading
- Evaluation of Heat Recovery and Chilling with Reuse Water

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- The Ozone Generation System has been installed and is slated for full startup on April 9/10. All subcomponents have been tested and the system has been simulated using oxygen in lieu of ozone.
- The sludge pumps and macerator have achieved full operation and training is slated for the week of April 13th.
- The MF/RO Controls Replacement was completed the week of March 30th. The punchlist for this work has been completed in addition to the main project.
- Contract 2014-06 (Mechanical) completed the majority of the project and is awaiting shipment of the Dehumidifier Unit to complete their work.
- Contract 2014-07 (Electrical) has completed the majority of the project and is finishing the relocation of the chemical feed pump control wires and power.
- The new RO Membranes are set to ship the week of April 20th and installation will proceed shortly afterwards.
- The date for Substantial Completion was February 21st, with 53 Days of the Contract Expired over the completion date.

Payment Applications and Change Orders:

- Payment Application #5 was received in the amount of \$388,929.05 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.
- Payment Application #3 was received in the amount of \$25,801.75 for Contract 2014-06 from M2 Construction, LLC. This Payment Application was received and reviewed RETTEW and is recommended for Approval.
- Change Order #2 was received in the additive amount of \$4,782.42 for Contract 2014-07 from Bob Biter Electrical for the modification of the electrical system for the Ozone System. The Manufacturer of the Ozone System changed a number electrical requirements, including the primary voltage. These resulted in modifications that were both additive and deductive and the net amount is reflected in the Change Order. This amount will be paid for by a deductive change order from Contract 2014-05 as UAJA had nothing to do with the modifications and they were deviations from the Contract Documents. The Change Order was requested by RETTEW and reviewed and is recommended for Approval.
- Change Order #3 was received in the additive amount of \$2,235.76 for Contract 2014-07 from Bob Biter Electrical for the installation of the chemical feed pumps for chlorination of the reuse water. The chemical feed pumps were relocated with the existing bulk tanks to a more convenient location and it was originally intended that UAJA would complete the wiring themselves. Given time constraints and the price of the work, UAJA elected to have the Electrical Contractor complete the work. The Change Order was requested by RETTEW and reviewed and is recommended for Approval.
- Payment Application #1 was received in the amount of \$39,748.75 for Contract 2014-08 from GCS Water Purification, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	\$2,411.00	\$914,762.00	95.6%	\$869,023.90	\$88,087.10
2014-06	\$198,500.00	-	\$158,267.00	79.7%	\$150,353.65	\$48,146.35
2014-07	\$121,700.00	\$4,426.18	\$101,615.55	78.5%	\$96,534.77	\$26,999.41

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director's Report

Classification of Reuse Water

Mr. Miller informed the Board that he and Mr. Ebaugh attended a meeting in Harrisburg with DEP regarding the classification of the reuse water from sewage to water. This meeting was also attended by Rep. Conklin and Senator Corman.

Grant Application

Mr. Miller reminded the Board that the Nation Fish and Wildlife grant application will be submitted on April 16, 2015.

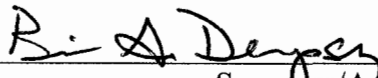
7. Other Business

8. Adjournment

The meeting was adjourned at 5:30 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary