

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – May 20, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, May 20, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Ebaugh, Guss, Lapinski, McShea, Nucciarone and Schmalz; 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; Brian McCall & Mallory Starr, Maher Duessel; Laura Dininni and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – April 15, 2015



A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve the minutes of the UAJA meeting held on April 15, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1. 2014 Independent Audit

Maher Duessel has conducted the Independent Audit for UAJA and they have prepared their final report. A draft of this report was provided to the Board on May 6th for review and comment. On May 13th, Treasurer McShea, Assistant Treasurer Guss, Cory Miller and Dave Smith participated in a detailed explanation of the draft financial statements with Maher Duessel via conference call. After the call, Maher Duessel finalized the financial statements. The final proposed Audit Report was included in the meeting packet. Brian McCall and Mallory Starr from Maher Duessel were at the meeting and presented the report.



A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the 2014 Independent Audit. The motion passed unanimously.

4.2 Odor Control Study Update

Mr Burns, HRG, gave a brief report the board on the progress of the odor control study. The information has been updated on the UAJA's website along with adding the collection data sheet. The third sampling event is complete. Data is being evaluated. Recommendations will be made later this year along with costs associated with the recommendation. Complaints are down with the improvements being made.

Mr. Smith commended the plant staff on the work they have been doing to correct the smell issues.

5. New Business

5.1 Mulch Mix Contract 2015-06

The Biofilter for the compost building does not have the specified depth of mulch. Over the years, due to decomposition, the depth has been reduced by as much as two feet in some areas. Since it is likely going to be no earlier than next summer for a new biofilter system to be designed and installed, staff and our odor consultant team decided that the mulch depth should be increased. The cost of the material requires a formal bid. To move this as quickly as possible, the bids were opened Tuesday May 19. It is the recommendation of the staff to award this contact to Metzler Forest Products in the amount of \$37,001.75 mixed and delivered.

**Mulch Mix Contract
2015-06 Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Lapinski, to approve the Mulch Mix Contract 2015-06 to Metzler Forest Products in the amount of \$37,001.75 mixed and delivered. Motion passed unanimously.

6.2 Shiloh Road Rezoning Request (College Township)

College Township is considering rezoning certain parcels East of the treatment plant. The parcels involved are the Christ Community Church property (from Ag to C-1), Maxwell, formerly the Fern Lease farm (from Ag to C-1) and the Rogers and Clair sites. Both Rogers and Clair would go from Ag to Planned Research Business Park, PRBD, while a small portion of Rogers property along Trout Rd would go from Ag to R-2 to match up with the R-2 across the street at Independence Place/Summit. A detailed report from College Township is included in the agenda packet.

The area under consideration is directly downwind of the treatment plant. It is likely that controlling odors to the extent needed to keep odors from being noticed on these properties no more frequent than occasionally, significant odor control equipment would be required, at great expense to UAJA and the community.

It might be possible to determine a special purpose tapping fee for the properties to be served in this area to recover the cost of the required odor control facilities. While UAJA would have to pay for the facilities up front, the properties that benefit from the odor control facilities would pay their portion at the time they connect to the sewer. The fee would be determined by dividing the cost of the expected improvements by the number of EDU's in the affected area. For example, if \$3 Million in improvements were required, and the total number of EDU's in these parcels was 500, then the special purpose fee would be \$6000 per EDU. This would be in addition to the plant capacity tapping fee, which is currently \$4711 per EDU.

**Recommendation
Approved**

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, have a letter forwarded to College Township strongly expressing opposition for the proposed rezoning of the properties based on the cost of the odor control facilities that would have to be built. In addition, clearly indicate the possibility of a special purpose tapping fee for odor management. The motion passed unanimously.

5.3 Change Orders

There are 2 Change Orders to consider for the SHAWT Contracts:

Change Order #3 in the deductive amount of \$4,782.42 for Contract 14-05 for modification of the electrical system for the ozone equipment. This offsets the additive Change Order approved for the electrical contractor last month.

**Change Order
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Ebaugh, to approve Change Order #3 in the deductive amount of \$4,782.42 for Contract 14-05. The motion passed unanimously.

Change Order #4 in the additive amount of \$13,812 for Contract 14-07 for the completion of a MCC, Panelboard and Major Electrical Service Gear Inspection. The Inspection is completed with Thermal Imaging and provides UAJA with an assessment of potential critical points or incipient failures that need maintenance or replacement. The Inspection was recommended by UAJA's insurance carrier and there has not been a comprehensive study done since 2005.

**Change Order
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to approve Change Order # in the additive amount of \$13,812 for Contract 14-07. The motion passed unanimously.

5.4 Requisitions

BRIF #168	GCS Water Purification, LLC SHAWT 14-08 (Membranes) Pay App #2	\$79,497.50
BRIF #169	Dale Summit Acquisitions May Lease Pymt.	\$25,000.00
BRIF #170	Rettew SHAWT Engineering Inv #88368	\$5,800.00
BRIF #171	HRG Odor Control Study Pay App #7	\$308.41
BRIF #172	OI Analytical – A Xylem Brand TOC Analyzer Payment 1 of 2	\$23,329.10

**Requisition
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve BRIF requisitions 168 - 172. 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 April 30, 2015.

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>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>
Production	662 cu/yds.	653 cu/yds.	685 cu/yds.	546 cu/yds.	585 cu/yds.	942 cu/yds.
YTD. Production	7,259 cu/yds.	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.	1,816 cu/yds.	2,758 cu/yds.
Distribution	227 cu/yds.	285 cu/yds.	315 cu/yds.	902 cu/yds.	610 cu/yds.	1,146 cu/yds.
YTD. Distribution	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.	1,827 cu/yds.	2,973 cu/yds.
Immediate Sale	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.	1,396 cu/yds.	1,138 cu/yds.
Currently in Storage	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.	1,981 cu/yds.	2,080 cu/yds.

SEPTAGE OPERATIONS

	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	0 gals.	102,000 gals.	33,000 gals.	0 gals.	179,500 gals.	192,500 gals.
CH/Potter	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	9,728.61 lbs/solids
Port Matilda	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids	2,018.28 lbs/solids	1,501.20 lbs/solids
Huston Twp.	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids	617.16 lbs/solids	400.32 lbs/solids
Total Flow	37,500 gals.	162,500 gals.	69,500 gals.	28,500 gals.	264,500 gals.	268,000 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 April was 4.37mgd with the average for the month being 5.58mgd. The average monthly **influent** flow was 6.73mgd. 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 #2, #3 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Apr-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	40,000	139,000		
Centre Hills	2,060,000	2,060,000	Apr-15	Apr-15
Cintas	776,000	2,901,000	57.2	51.9
Red Line	302,000	1,515,000		
Uaja Wetland	4,025,000	16,914,000		
GDK Vault	10,467,000	41,804,000		
Kissingers	799,000	3,346,000		
Stewarts	0	0		
TOTAL	18,469,000	68,679,000		

Plant Maintenance

- Replaced the bellows in the hydraulic pressure switch for the outfall U.V. Lights
- Cleaned the hoppers in the empty Primary Tanks and the scum pits.
- Replaced the sight tube and electrical wiring for the fuel tank.
- Installed the spare valve actuator on Effluent Drain valve #8. The old one will be sent out for repair.
- Installed weir brushes on all the Secondary Clarifiers.
- The Booster Station was started for the year.
- Replaced Tuthill Blower #2.
- Replaced the Profibus for Centrifuge #1. It is now back in operation.
- Repaired several leaks in the Compost Building roof.
- Replaced the pressure relief valve on the air receiver in the AWT Building.
- Began repairs on the Quad Odor Control System.
- Removed some trees from the storm water retention basins.
- Repaired a roof leak in the AWT Building. Also replaced a gas rain vent.

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) 1512 Ash Ave.
- (UA) Lateral Repairs – (5) 492 & 510 Sierra Ln., 1952, 1957 & 1964 Highland Dr.
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (2) On N. Atherton St.
- (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)

We have been doing “odds and ends” work in preparation for starting back on 10 hour days with the Selder’s Circle project in Ferguson Township. We have hauled wood chips and compost as well as helping with work on the wetlands waterline.

(A)CONSTRUCTION &(B)I/I INSPECTION: (A)(We TV’d 1,276 ua/0 fta feet of mainline and inspected 7 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, which ended the last week of this month.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

- a. Villa1 & Villa 2 Apts. Replacement – We are awaiting electronic submission.

New Connections:

a.	Single-Family Residential	15	c.	Commercial	4	
b.	Multi-Family Residential	18	d.	Industrial	<u>0</u>	
					TOTAL	37

PA One-Calls Responded to 4/1-30/15: **292**

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.
- As required by the NPDES Permit, an annual inspection of stormwater facilities was completed on Friday, May 1st by Doug Weikel. The required forms were completed and provided to the UAJA for submission to the PA DEP

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- Contract 09-4 was issued a defective work notice under the Correction Period for a faulty motor bearing temperatures sensor on Pump P-102. The pump is currently operational with a bypassed sensor. Additionally, the Contractor was notified that the pressure relief valve is leaking.

- The bypass pumping system (100 Series Pumps) and 20” forcemain was evaluated. It appears that air is not being released adequately, resulting in reduced performance (compared to the pump curve) and presumably the cause of the hydraulic noise. Although the hydraulic noise persists, the pumps are currently exceeding the design pumping rate.

Constructed Wetlands

- The Contractor was on-site to repair leaking manholes (pressure reducing valve pits).
- The Contractor replaced dead trees.
- A meet was held on-site May 12th to review outstanding items. Additional vegetative cover is required in the wetland areas.
- Water is flowing to the wetland cells and stream augmentation structures

Selders Circle Sewer Relocation

- HRG is available to assist with construction as needed.

Ghaner Road Pump Station

- Simultaneous pumping of up upstream stations was completed. When the upstream pump stations are operating as designed, the Ghaner Pump Station is not overwhelmed.

Odor Control Study

- The spring sampling event was conducted and results are being tabulated.
- Finalized an interim report on findings from the first two sampling events.
- Revised the observation data collection sheet and adapted to form for on-line submission.
- Attended a meeting with UAJA staff to discuss operation of the existing odor control unit on the dewatering facility.

Standard Specifications and Details Update

- Work to prepare updated specifications and details is ongoing.

Scott Road Forcemain Evaluation

- A pressure logger was provided to monitor force main pressures at the Scott Road Pump Station. An evaluation of hydraulic conditions was then completed. Additional monitoring with data collection at more precise intervals is being considered.

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. An on-site inspection and new switch will be installed on May 21, 2015.
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Continued monitoring of the Compost Mix Design and Performance
- Evaluation of Heat Recovery and Chilling with Reuse Water
- Evaluation of Natural Gas Cogeneration at the Main Plant

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

Update of Construction Progress:

- A Substantial Completion Inspection was held on May 12, 2015 for Contract 2014-05 and 2014-07.
- It is RETTEW’s opinion that both Contractors have achieved Substantial Completion and RETTEW has provided UAJA with a Tentative Certificate of Substantial Completion for Review. The Review Period ends on May 22, 2015.
- Contract 2014-06 (Mechanical) completed the majority of the project and is anticipates requesting a Substantial Completion Inspection after startup/training of the Building Automation System scheduled for the week of May 22, 2015.
- All major systems are completed with the exception of the modifications of the Controls at the Centrifuge Building. The Ozone System is performing well and initial dosages are being optimized with the assistance of the UAJA Laboratory.
- The new RO Membranes have arrived on-site and the Contractor is arriving May 18, 2015 to begin installation and startup.

Payment Applications and Change Orders:

- Change Order #3 was prepared in the deductive amount of \$4,782.42 for Contract 2014-05 for M2 Construction, LLC for the modification of the electrical system for the Ozone System by the Electrical Contractor. The Change Order was requested by RETTEW and reviewed and is recommended for Approval.
- Change Order #4 was received in the additive amount of \$13,812.00 for Contract 2014-07 from Bob Biter Electrical for the completion of a MCC, Panelboard and Major Electrical Service Gear Inspection. The Inspection is completed with Thermal Imaging and provides UAJA with an assessment of potential critical points or incipit failures that need maintenance or replacement. The Inspection was recommended by UAJA’s insurance carrier and there has not been a comprehensive study done since 2005. The Change Order was requested by UAJA and reviewed and is recommended for Approval.
- Payment Application #2 was received in the amount of \$79,497.50 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	(\$2,371.42)	\$914,078.58	96.0%	\$869,023.90	\$83,304.68
2014-06	\$198,500.00	-	\$187,000.00	94.2%	\$150,353.65	\$48,146.35
2014-07	\$121,700.00	\$18,238.40	\$117,651.18	84.1%	\$96,534.77	\$22,287.22
2014-08	\$158,995.00	-	\$119,246.25	75%	\$119,246.25	\$39,748.75

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director's Report

The following comments are as presented to the Board in the written report prepared by Cory Miller, Executive Director.

Beneficial Reuse Water Reclassification as Something Other Than Sewage

UAJA has met with DEP and a committee has been formed at very high levels of DEP to work with UAJA to find a solution where Beneficial Reuse Water is no longer sewage. It is expected that this will require several more meetings.

Grant Application

UAJA has submitted a grant application to NFWF (National Fish and Wildlife Foundation) titled "From Spring Creek to the Chesapeake" – Promoting BMPs in State College, PA. This application is an updated version of the grant we submitted last year that did not get funded. The application has three points of focus, (1) construction of green infrastructure BMPs at our plant site; (2) integration of stormwater management into the unit taught to area 5th graders; (3) partnership with Penn State Sustainable Communities Collaborative to transfer awareness and use of BMPs to the community. Grants will be awarded in August if we are successful.

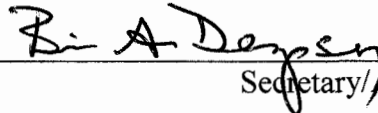
7. Other Business

8. Adjournment

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

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary