

**MINUTES**  
**UNIVERSITY AREA JOINT AUTHORITY**  
**1576 SPRING VALLEY ROAD**  
**STATE COLLEGE, PA 16801**  
**Regular Meeting – September 21, 2016**

**1. Call to Order**

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:09 p.m. Wednesday, September 21, 2016. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Bridger, Dempsey, Ebaugh, McShea, Schmalz; and Spac via telephone, Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Jason Brown, Project Manager; Dick Campbell, Solicitors; Ben Burns and Tom Holleran, Consulting Engineers; Amy Kerner, State College Borough; Sharon Bressler, CRCP; Jason Wert and Steve Siegfried, Construction Engineer; Laura Dininni, Katherine Watt and Kathy Wheeler, Recording Secretary.

**2. Reading of the Minutes**

**2.1 UAJA Regular Meeting – August 17, 2016**

<b>UAJA</b> <b>Meeting Minutes</b> <b>Approved</b>
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A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to approve the minutes of the UAJA meeting held on August 17, 2016 as presented. The motion passed unanimously.

**3. Public Comment**

None

**4. Old Business**

**4.1 Sewer Service to Benner Township portion of Shiloh Road area**

The Spring Benner Walker Joint Authority has requested that UAJA provide answers to their questions contained in their letter of August 12<sup>th</sup>. The letter is included in the agenda report. The Centre Region Municipalities, through the Act 537 Plan, have indicated that UAJA can serve the area. The specific wording in the Act 537 Plan is as follows:

*"The UAJA is authorized to work with the Spring Benner Walker Joint Authority (SBWJA) to develop a workable solution to provide public sewer service to the Benner Township portion of Shiloh Road. The Clair and Rogers properties, which are included in the Plan Update as RGB/SSA expansion areas, are divided by the Benner/College Township municipal boundary. The provision of public sewer service to these properties will require close coordination between the UAJA and SBWJA. The Centre Region municipalities have agreed to authorize UAJA to work with the SBWJA to develop a workable solution to provide public sewer service to these properties. If this solution is acceptable to both Authorities, the UAJA is authorized to provide public sewer service to this portion of Benner Township."*

Previous discussions by the UAJA Board indicated a willingness to have only one authority serve the area. The board was not interested in having the Benner Township portion as a wholesale customer served by Spring Benner Walker Joint Authority.

To further complicate matters, since the Act 537 Plan was adopted, PADEP has imposed mass limits on UAJA for Nitrogen and Phosphorus. If UAJA and the Centre Region accept flows from Benner Township without addressing the Nutrient capacity, in effect, valuable nutrient capacity of UAJA and the Centre Region would be given to Benner Township.

**Benner Township  
Service to Shiloh Road  
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Ebaugh, to provide service to the Benner Township portion of Shiloh Road only if the customers are served directly by UAJA, and those customers, or some other entity, provide nutrient offsets to UAJA in perpetuity for each EDU served by UAJA outside of the Centre Region. Motion passed unanimously.

## **4.2 Tertiary Filter Renovation and AWT Expansion**

The tertiary filters are very near to needing media replacement and under drain repair. This is a major maintenance project. The tertiary filters are very old, and many of the components (valves, pumps, motors, etc.) are obsolete.

Several years ago UAJA and consultants evaluated possible ways to meet the now quite likely Enhanced Nutrient Removal (ENR) requirements which will likely be imposed when Pennsylvania fails to meet the milestones in the Chesapeake Bay Tributary Strategy. One of the key components is converting the tertiary filters to denitrification filters.

With the probable extension of the beneficial reuse system to Mountainview, and the continued growth of the Centre Region, it is time to consider expanding the capacity of the Advanced Water Treatment (AWT) system. The system currently operates at 1 MGD. With influent flows increasing, we are getting closer to the 6 MGD allowable discharge to Spring Creek. Expansion of the AWT would involve two additional micro-filtration units, and a second reverse osmosis unit, along with pumps, electrical work, etc.

Finally, because of the Chesapeake Bay requirements, several times a year we are needing to run a third blower for aeration, but find that the electrical system does not have the capacity to do so. An upgrade to the electrical system for the blowers is needed, along with some modifications to the aeration system in the tanks to allow for more air in some zones, and finer regulation of the airflow overall.

Staff has been working with Rettew to develop a shopping list for these projects. The estimated cost of all of these upgrades and expansions is \$9 million.

**Proposal for Engineering  
Services  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to direct Rettew to prepare a proposal for engineering services for preliminary design, final design, bidding phase, and construction administration for consideration at the October Board meeting. Motion passed unanimously.

## **5. New Business**

### **5.1 2017 Budget**

The 2017 budget process is underway. A rough draft of the 2017 Operating Budget was included in the meeting packet. Staff gave a brief explanation of the assumptions and the unknowns as related to this draft.

A budget subcommittee of Messrs. Bridger, Ebaugh and McShea will meet with staff in October 6 at

## 5.2 Requisitions

## Requisitions Approved

TOTAL BRIF	\$26,937.00
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## Requisitions Approved

## 6. Reports of Officers

Mr. Smith reviewed with the Board the YTD budget report for the period ending August, 2016.

## None

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

	<u>Mar. 2016</u>	<u>Apr. 2016</u>	<u>May 2016</u>	<u>Jun. 2016</u>	<u>Jul. 2016</u>	<u>Aug. 2016</u>
<b>Production</b>	694 cu/yds.	657 cu/yds.	749 cu/yds.	943 cu/yds.	626 cu/yds.	677 cu/yds.
<b>YTD. Production</b>	2,327 cu/yds.	2,984 cu/yds.	3,733 cu/yds.	4,676 cu/yds.	5,302 cu/yds.	5,979 cu/yds.
<b>Distribution</b>	898 cu/yds.	835 cu/yds.	786 cu/yds.	662 cu/yds.	623 cu/yds.	1,100 cu/yds.
<b>YTD. Distribution</b>	1,940 cu/yds.	2,775 cu/yds.	3,561 cu/yds.	4,223 cu/yds.	4,846 cu/yds.	5,946 cu/yds.
<b>Immediate Sale</b>	1,989 cu/yds.	1,794 cu/yds.	1,665 cu/yds.	1,755 cu/yds.	2,075 cu/yds.	1,601 cu/yds.

<b>Currently in Storage</b>	2,683 cu/yds.	2,451 cu/yds.	2,414 cu/yds.	2,698 cu/yds.	2,701 cu/yds.	2,278 cu/yds.
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#### SEPTAGE OPERATIONS

	<u>Mar. 2016</u>	<u>Apr. 2016</u>	<u>May 2016</u>	<u>Jun. 2016</u>	<u>Jul. 2016</u>	<u>Aug. 2016</u>
<b>Res./Comm.</b>	14,800 gals.	0 gals.	6,600 gals.	0 gals.	0 gals.	0 gals.
<b>CH/Potter</b>	7,697.82 lbs/solids	7,643.61 lbs/solids	8,348.34 lbs/solids	8,836.23 lbs/solids	8,335.83 lbs/solids	1,164.26 lbs/solids
<b>Port Matilda</b>	1,601.28 lbs/solids	1,684.68 lbs/solids	1,517.88 lbs/solids	1,901.52 lbs/solids	1,467.84 lbs/solids	1,351.08 lbs/solids
<b>Huston Twp.</b>	800.64 lbs/solids	1,034.16 lbs/solids	0 lbs/solids	600.48 lbs/solids	650.52 lbs/solids	800.64 lbs/solids
<b>Total Flow</b>	86,800 gals.	67,500 gals.	74,600 gals.	86,500 gals.	63,500 gals.	32,900 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 August was 3.94mgd with the average for the month being 3.31mgd. The average monthly **influent** flow was 4.45mgd. There were no plant inspections this month. Treatment units on line are as follows: primary clarifiers #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:

	<u>Aug-16</u>	<u>YTD</u>	<u>Plant Effl. Temp</u>	<u>Wetland Effl. Temp.</u>
<b>Best Western</b>	32,000	202,000		
<b>Centre Hills</b>	7,427,000	37,748,000	<u>Aug-16</u>	<u>Aug-16</u>
<b>Cintas</b>	813,000	6,181,000	74.3	73.8
<b>Red Line</b>	221,000	2,752,000		
<b>Uaja Wetland</b>	3,221,000	32,685,000		
<b>Wetland Vault</b>	13,283,000	94,702,000		
<b>Kissingers</b>	1,306,000	8,014,000		
<b>Stewarts</b>	0	3,896		
<b>TOTAL</b>	29,408,200	182,287,896		

##### Plant Maintenance

- Repaired the skimmer arm on Secondary Clarifier #3.
- Rebuilt Pump #2 in the Plant Drain Station.

- PBCI Allen repaired HP-8. The unit was low on gas.
- Replaced the diaphragms in Primary Pump #8, and #7. Also replaced the check balls in #7.
- Hach calibrated the Nitrogen Probes, Solids Probe and the Ozone monitor.
- Replaced packing in RAS Pump #1.
- Installed factory rebuilt Tuthill Blower. This blower failed and was covered under warranty.
- Repaired fan for the Odor control system.
- Replaced the belts on Tuthill Blower #7.
- Replaced the fuel filter and safety switch on the Street Sweeper.
- Rebuilt the hydraulic cylinder for the gate on Composter #3.
- Roy Brooks repaired the auger in Knight Mixer #2.

#### 6.5 Collection System Superintendent's Report

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

##### **Mainline Maintenance:**

New Lateral Installed – 101 Ronan Drive.

Mainline televising - (3927.6) ft. televised (40) manholes inspected.

Mainline Cleaning – (3,706.9) ft. cleaned (12) manholes inspected.

Casting repairs – (20).

Suburban back lot project Phase 2 (Suburban Park) - cleared R.O.W and installed stone construction entrance to park area.

R.O.W brushing at Toftrees and Big Hollow interceptors.

Started mainline televising of 2017 Township paving project

##### **Lift Station Maintenance:**

Installed new 8" air release on 20" big hollow force main.

Replaced start/stop floats and rebuilt check valves at Outer Drive station.

Continued painting the valves, fittings, and pipes at all stations.

Cleaned (12) lift station wet wells.

Started changing oil in pumps at all lift stations.

##### **NEXT MONTH PROJECTS:**

Casting adjustments for College and Ferguson Township paving projects.

Suburban back lot Phase #2.

Continue painting at pump stations.

**Inspection:** Final As-Builts Approved:      None

##### **Mainline Construction**

- a.    Rocky Ridge Section 3&4 – We are awaiting As-Builts.

##### **New Connections:**

a.	Single-Family Residential	14	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Non-Residential	0
					<b>TOTAL      14</b>

PA One-Calls Responded to 8/1-31/16: 400

## **6.6 Engineer's Report**

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

### **Retainer**

- A proposal for the scope and fee of the 2017 retainer was reviewed with staff. A projected budget for small scale project scopes anticipated for 2017 was developed with staff assistance. The collaboration resulted in the following goals being obtained:

- 1) to reduce the administrative burden to UAJA and HRG for small projects
- 2) to provide assurance to senior staff that engineering assistance can be sought for immediate response to issues that arise without impacting department budgets.

Assisted with the development and validation of cost estimates used for budgeting.

### **Odor Control Study Upgrades**

- Six alternative site layouts were reviewed with staff. The preferred layout is being further evaluated for feasibility.
- An internal design discipline meeting is scheduled for September 19<sup>th</sup>, which will include a visit to the UAJA facilities.
- The week of October 17<sup>th</sup> is targeted to tour existing inorganic media biofilters. HRG is coordinating with attendees from the UAJA.

### **Big Hollow Force Main Evaluation**

The eight (8) inch air release valve was received and installed. Testing occurred on Tuesday, August 9<sup>th</sup> and KCF Technologies, Inc. has been asked to retrieve and review vibration data. In addition to installation of the larger air release valve, the staff removed rags from each of the 100 series check valves. General observations indicated that the removal of rags from the check valves and the larger air release valve made a substantial improvement in pump performance and in the apparent vibration during pump operation. Pump flow rates are consistent with design conditions.

### **Overlook Heights Sanitary Sewer Replacement: Suburban Avenue Backlot**

All required permits have been issued and construction has commenced.

### **Wetland Flow Meter**

- Daily flow data is being collected from the meter's integral logger.
- An approach to providing a 12-24VDC power supply to the meter to enable the use of the external logger was provided, which includes a solar panel with battery pack and a DC powered Act-Pak. The solar panel and battery pack have been installed. Staff is waiting on delivery of the Act-Pak.

### **Special Study for Act 537 Plan Update Revisions**

- A draft task activity report (TAR) outlining the special study was prepared and submitted to the PA DEP. HRG is inquiring about the status of the review by the PA DEP.

### **Conveyor Belt Replacement**

- Provided assistance with specifications and obtaining quotes for the replacement of the two belts that convey dewatered sludge from the dewatering facility to the composting facility.

### **Scenery Park Pump Station Upgrade**

Reviewed and commented on the pump and controls submittal for the upgrades proposed at the Scenery Park Pump Station. The project includes the replacement of the pumps and controls.

### **Record Drawing and GIS Data Review**

- Assisting staff with compiling Record Drawings and GIS Data for historic projects.

### **Developer Plan Reviews:**

- No Developer design plans are under review as of 09/14.

The As-Built Plans for Rockey Ridge, Sections 3&4 are under review as of September 14<sup>th</sup>.

### **6.7 Construction Report**

No additional comments.

### **6.8 Executive Director's Report**

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

### **EPA Nutrient Offset Meeting**

It has been almost a year since UAJA submitted a proposal to PADEP for nutrient offsets for UAJA. To speed the process, staff conducted a conference call with key EPA Chesapeake Bay personnel. Additional information will be provided to EPA concerning our proposal, and a follow up conference call will be scheduled in the next few weeks. Once we have a methodology that EPA will approve in concept, we will attempt to schedule a meeting with EPA and PADEP to finalize the methodology. During the conference call EPA mentioned considering our methodology as a pilot project, which gives them some flexibility in interpreting regulations.

### **7. Other Business**

None

### **8. Adjournment**

The meeting was adjourned at 4:58 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary