

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

Regular Meeting – October 20, 2021

1. Call to Order

Mr. Lapinski, Chair, called the regular meeting to order at 4:04 p.m., Wednesday, October 20, 2021. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Auman, Dempsey and Kunkle; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Jennifer Grove, Administrative Assistant; Michele Aukerman, Rettew; Jason Wert, Rettew; David Gaines, Solicitor; C-NET; Ben Burns, HRG Consulting Engineer; and Jeff Garrigan, HRG Consulting Engineer. The following were in attendance via Zoom: Messr. Daubert; Bill Steudler and Kevin Mullen. The following were in attendance via phone: Messrs. Guss and Nucciarone.

2. Reading of the Minutes

UAJA Regular Meeting – September 15, 2021

**UAJA Meeting
Minutes Approved**

A motion was made by Mr. Kunkle, second by Mr. Auman, to approve the minutes of the UAJA meeting held on September 15, 2021. The motion passed unanimously.

3. Public Comment

3.1 Other items not on the agenda

Mr. Mullen spoke to the board about being overbilled for a second EDU over the past five years.

4. Old Business

4.1 Meeks Lane Act 537 Plan Special Study Presentation

A draft Act 537 Plan Special Study has been prepared and is under review by UAJA staff. The proposed schedule for the project anticipates the study being submitted to the Centre Region Municipalities no later than early December 2020. HRG will provide an overview of the project, including changes that have been made to accommodate changes made to the Grays Woods Master Plan.

Recommendation: Presentation only. No action required.

No action was required. There were no objections so staff will proceed with the submission.

5. New Business

5.1 2022 Tapping Fee

The tapping fee is adjusted annually based on the Construction Cost Index published in the Engineering News Record each October. From October 2020 to October 2021, the index increased by 8.0 percent. Increasing the 2022 tapping fee accordingly results in an increase from the current \$5543 per EDU to \$5986 per EDU, an increase of \$443 per EDU.

Recommendation: Increase the 2022 tapping fee to \$5986 per EDU, effective January 1, 2022.

**2022 Tapping Fee
Approved**

A motion was made by Mr. Dempsey, second by Mr. Auman to increase the 2022 tapping fee to \$5,986 per EDU, effective January 1, 2022. The motion passed unanimously.

5.2 Draft Rate Study Letter Report

Included in the agenda report is the Draft Sewer Rate Study Letter Report from HRG. The report suggests a rate for treatment and conveyance of \$66 per EDU based on meeting the average treatment and conveyance expenses of \$11,200,000 per year for the next five years. The estimate is based on UAJA's estimate of EDUs within the Borough. The actual number of EDU's has not been determined by the Borough.

The Borough has historically been billed based on metered wastewater flow according to the Borough Sewer Agreement that expired September 2020. The current rate according the UAJA rate resolution is \$5287 per Million Gallons. Using the same revenue requirement of \$11.2 million per year, and the projected systemwide flowrate of 4.94 MGD, the cost per million gallons would be \$6212. This represents an increase of 17.5 percent over the current rate. Since the budget must be prepared, staff will be including this increase in the budget to be effective January 1, 2022.

The report is a draft, and subject to change. Staff would like to collect questions and comments by November 5th to allow time to answer the questions and comments prior to or during the November 2021 UAJA Board Meeting. At the November meeting, Adrienne Vicari of HRG will present the report and be available to answer any questions.

Recommendation: Information only.

5.3 Requisitions

BRIF #607	HRG Shiloh Road Project	\$937.50
BRIF #608	HRG Scott Road Pump Station Project	\$927.00
BRIF #609	HRG Greenbriar Record Drawings	\$1,837.50
BRIF #610	Rettew AWT Upgrade Record Drawings	\$977.00
BRIF #611	Rettew Switchgear Replacement Project	\$2,011.14
BRIF #612	Rettew Phosphorus Study	\$11,826.44
BRIF #613	Rettew Battery O&M	\$1,448.50
BRIF #614	L/B Water	\$206.25

Whitehall Road Project

BRIF #615	L/B Water Scott Road Project	\$21,203.44
BRIF #616	S&C Operations Scott Road Project- Trucking	\$2,280.00
BRIF #617	Specific Design Scott Road & Whitehall Road Projects	\$14,111.00
BRIF #618	Glossner’s Concrete Scott Road Project	\$502.00
BRIF #619	Pinnacle Erosion Control Scott Road Project	\$666.00
BRIF #620	Best Line Equipment Scott Road Project	\$3,470.00
BRIF #621	First Citizens Community Bank Loan Payment (Final)	\$52,331.01
BRIF #622	Thoroughbred Construction Pay App. #4- Switchgear Project	\$98,685.93
BRIF #623	Skelly and Loy, Inc Meeks Lane Toad Service	\$4,664.00
TOTAL BRIF		\$218,084.71

**BRIF
Approved**

A motion was made by Mr. Kunkle, second by Mr. Dempsey to approve BRIF #607, #608, #609, #610, #611, #612, #613, #614, #615, #616, #617, #618, #619, #620, #621, #622 and #623 in the amount of \$218,084.71. The motion passed unanimously.

Construction Fund #020	Rettew Aeration Line Project	\$1,260.00
Construction Fund #021	Rettew Ozone Disinfection Project	\$5,877.00
Construction Fund #022	Rettew Biosolids Upgrade Project	\$6,457.25
Construction Fund #023	HRI, Inc. Pay App. #6- Aeration Line Project	\$41,705.10
TOTAL 2020 A CONSTRUCTION FUND		\$55,299.35

**Construction Fund
Approved**

A motion was made by Mr. Dempsey, second by Mr. Auman to approve Construction Fund #020, #021, #022 and #023 in the amount of \$55,299.35. The motion passed unanimously.

Revenue Fund #181	Debt Service, Operation and Maintenance Expenses	\$1,000,000
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TOTAL REVENUE FUND	\$1,000,000
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**Revenue Fund
Approved**

A motion was made by Mr. Auman, second by Mr. Dempsey to approve Revenue Fund #181 in the amount of \$1,000,000. The motion passed unanimously.

6. Reports of Officers

6.1 SCBWA Liaison

None.

6.2 Financial Report

The different cost centers of the YTD budget report for the period ending September 30, 2021, were reviewed with the Board by Jason Brown. The preliminary first draft of the 2022 budget will be sent out to board members on October 25, 2021.

6.3 Chairman’s Report

Mr. Lapinski asked Mr. Dempsey to give an update on the Rate Committee. Mr. Dempsey said they will meet the second Tuesday of the month at 4:15pm. The October meeting was about generalities and the November meeting they plan to discuss fixed and variable costs.

6.4 Plant Superintendent’s Report

Compost & Septage Operations Report

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

COMPOST PRODUCTION AND DISTRIBUTION

	<u>Apr. 2021</u>	<u>May 2021</u>	<u>June 2021</u>	<u>July 2021</u>	<u>Aug. 2021</u>	<u>Sep. 2021</u>
Production	848 cu/yds.	847 cu/yds.	878 cu/yds.	913 cu/yds.	890 cu/yds.	990 cu/yds.
YTD. Production	3,134 cu/yds.	3,981cu/yds.	4,859 cu/yds.	5,772 cu/yds.	6,662 cu/yds.	7,652 cu/yds.
Distribution	963cu/yds.	2,132cu/yds.	1,442cu/yds.	731cu/yds.	969cu/yds.	911cu/yds.
YTD. Distribution	2,072cu/yds.	4,204cu/yds.	5,646 cu/yds.	6,377 cu/yds.	7,346 cu/yds.	8,257 cu/yds.
Immediate Sale	2,746 cu/yds.	1,462cu/yds.	867cu/yds.	1,014cu/yds.	958cu/yds.	937cu/yds.
Currently in Storage	3,594 cu/yds.	2,309 cu/yds.	1,745 cu/yds.	1,927 cu/yds.	1,848 cu/yds.	1,927 cu/yds.

SEPTAGE OPERATIONS

	<u>Apr. 2021</u>	<u>May 2021</u>	<u>June 2021</u>	<u>July 2021</u>	<u>Aug. 2021</u>	<u>Sep. 2021</u>
Res./Comm.	74,400 gals.	69,800 gals.	68,700 gals.	40,000 gals.	68,150 gals.	89,675 gals.
CH/Potter	0.00 lbs/solids	0.00 lbs/solids	1,517.88 lbs/solids	0.00 lbs/solids	0.00 lbs/solids	0.00 lbs/solids
Port Matilda	500.40 lbs/solids	1,434.48 lbs/solids	1,200.96 lbs/solids	1,951.56 lbs/solids	1,234.32 lbs/solids	1,084.20 lbs/solids
Huston Twp.	600.48 lbs/solids	683.88 lbs/solids	500.40 lbs/solids	467.04 lbs/solids	650.52 lbs/solids	583.80 lbs/solids
Total Flow	88,400 gals.	95,800 gals.	105,500 gals.	66,000 gals.	90,150 gals.	111,675 gals.

Plant Operation

The treatment plant is operating well with no exceptions. The 12-month rolling average flow for September was 3.43mgd with the average for the month being 5.32mgd. The average monthly **influent** flow was 6.78mgd.

Treatment units online are as follows: primary clarifiers #1, #5 and #6; aeration basins #2 and #3; secondary; clarifiers #1, #3, and #4; all eight tertiary filters are online.

Below is the chart for Reuse Distribution and Temperature Data:

	Sep. 2021	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	27,000	246,000		
Centre Hills	3,572,000	25,893,000	Sep. -21	Sep. -21
Cintas	462,000	4,373,000	70.6	71.0
Red Line	333,000	4,309,000		
UAJA Wetland	5,416,000	41,990,000		
GDK Vault	41,997,000	265,884,000		
Elks	1,870,000	5,201,000		
Kissingers	1,870,000	17,364,000		
Stewarts/M.C.	8,000	39,110		
TOTAL	55,529,000	365,299,110		

Plant Maintenance

- Replaced pump diaphragm in Primary Pump #9.
- Replaced the coupling in Primary Trough Drive #2.
- Rebuilt the gate gear box on Primary Tank #4.
- Replaced 3 skimmers flights in Primary Clarifier #5.
- Replaced the air line on Primary Pump #11.
- Replaced the scum trough seal and completed the preventative maintenance on Secondary Clarifier #2.
- The annual fire extinguisher inspection was performed.
- Replaced the actuator for MF #6 AV-5.
- Replaced a power supply in MF #1.
- Replaced a failed expansion joints on MF #1, #2, #3, and two on the main line.
- Replaced back drive cooling fan on Centrifuge #2.
- Centrifuge #2 was sent to Alfa Laval to be reconditioned.
- Repaired Compost lighting.
- Replaced the belts in MAU -1303.

- The Main Station Generator failed on overspeed. A check valve was installed in the fuel line and the governor speed sensor was cleaned and adjusted

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:

Scott Road force main project – Installed 1,571 ft of 10” force main / 51 ft of 15” gravity and (2) manholes.

Main Line Televising – 3,117 ft televised - 140 manholes inspected.

Manholes Grouted – (5)

Joints Grouted – (11)

C.O Caps Repaired – (54)

Approximate infiltration found and repaired = (200GPM)

Lift Station Maintenance:

Cleaned (8) lift station wet wells.

Routine Maintenance.

Next Month Projects:

Lateral repair at Brookside Dr.

Continue Scott Road upgrade project.

Mainline flushing, televising, and grouting.

Inspection: Final As-Builts Approved:

- a. Canterbury Crossing 4&5 phase 1C

Mainline Construction:

- a. Hawk Ridge - Awaiting As-Builts
- b. Aspen Heights Squirrel Drive - Started construction.
- c. 900 W. College Ave. Student Housing – Started construction.
- d. Grays Pointe ph. 6 Sec D.2 – Started construction.

New Connections:

- | | | | |
|------------------------------|----|--------------------|---|
| a. Single-Family Residential | 11 | c. Commercial | 2 |
| b. Multi-Family Residential | 0 | d. Non-Residential | 0 |

TOTAL 13

PA One-Calls Responded to 09/1-30/21: 365

6.6 Engineer’s Report

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

Consulting Engineer Services (R001178.0693)

- A quote was obtained from W.G. Malden in the amount of \$11,893.00 to install an ISCO Signature Ultrasonic Flow Meter in the North and South Meter Chambers. The quote included an option to add a cellular modem to each meter (+\$1,090.00/meter). Authority staff has issued a purchase order

for the equipment, which is expected to arrive in two to three weeks.

Odor Control System Upgrades (R001178.0597)

- An inventory of air emission sources for the entire facility has been compiled as required by DEP. Estimated emissions are being calculated. Manufacturer’s emissions data has not been obtainable. Therefore, estimates are being made based on EPA literature and tiered emission standards.

Proposed Air Quality Emissions Inventory and Operation Permit Schedule

Milestone	Date
Submit Emissions Inventory to the PA DEP	November 2021
PA DEP Determination of Application Requirements	December 2021
Request Plan Approval Time Extension	January 2021
Complete and Submit Permit Application	February 2021
PA DEP Issues Permit (Includes 30 Day Public Comment Period)	June 2021

Based on DEP’s input and timeline for review.

Shiloh Road Pump Station Upgrades (R001178.0632)

- Field survey of the constructed facilities has been completed and record drawings are being prepared. They will be delivered to the Authority by the end of October.
- Point files for the locations of fittings along the force main alignment were provided by GeoDecisions in a downloadable format on October 12th.

Extension of Beneficial Reuse Water to Harris Township (R001178.0637)

- Record Drawings are being prepared and will be delivered to the Authority by the end of October.

Meeks Lane Pump Station – Act 537 Plan Special Study (R001178.0663)

- The Special Study was revised based on an alternative alignment identified by the Authority.
- Skelly and Loy conducted a Spadefoot Toad habitat assessment and prepared a draft report. It was concluded that there is no potential species breeding habitat. The report is being submitted to the PAFBC.

Proposed Meeks Lane Pump Station Project Implementation Schedule

Milestone	Date
Submit Special Study to Municipalities/Planning Commissions (60-day Review)	December 2021
Start Design	December 2021
Begin Public Comment Period (30-day)	January 2022
Receive Municipal/Planning Comments, Conclude Public Comment Period	February 2022
Adoption by Municipalities and CRCOG (General Forum Presentation)	March 2022
Submission of Special Study to PA DEP (120-day Review)	March 2022
DEP Approval of Special Study/WQM/NPDES	July 2022
Complete Design/BIDDING	July 2022
Begin Construction	July 2022
Project Completion (12 Months of Construction)**	July 2023

*Assumes DEP approval of Special Study and WQM Permit within 120 Days. Concurrent or sequential submission of Study and Permit Application.

**Minimum construction period required for UAJA Construction Crew.

Beneficial Reuse Service Area Designation – Act 537 Plan Special Study (R001178.0666)

- Completion of the Special Study has been paused while a Risk Assessment is conducted by the Authority.

Scott Road Pump Station and Bristol Interceptor (R001178.0682)

- A Pre-Construction Conference was held on September 27, 2021, and a Notice-to-Proceed was issued to each Contractor.
- The review of submittals has commenced.
- The Contractors have indicated extended lead times and supply chain issues for certain materials and equipment (e.g., Pre-Cast Structures = 15 weeks, Emergency Generator = 40 weeks). This may notably impact completion deadlines. HRG is monitoring this closely and working with the Contractors to determine if anything can be done to expedite current schedules.
- HRG is providing construction stake-out of the force main as requested by the UAJA Construction Crew.

Scot Road Pump Station Project Milestone Dates

Milestone	Date
Notice-to-Proceed	September 27, 2021
Substantial Completion	January 25, 2022
Final Completion	February 24, 2022

Fiber Optic Conduit – (R001178.0687)

- Fiber optic conduit drawings were prepared for the second alignment (Trout Road to Hartman Farm Lane to Short Lane, near SR 0026) in June 2021. These drawings were reviewed by the Authority’s staff. HRG can proceed with the preparation of the permit applications when authorized by the UAJA.
- Record Drawings for the first alignment (Shiloh Road) are being prepared and will be submitted by the end of October.
- Data files provided by GeoDisions contain numerous utilities (fiber, water, electric, gas). The data will need to be isolated so that it can be corrected to an appropriate description.

Entry Road Storm Water Improvements – (R001178.0688)

- The project as designed will require the relocation of the utility poles along the entry road. HRG began coordination with First Energy in April, 2021. However, it was discussed that the Authority will need to obtain permanent easement or permission from the current property owner. The property owner and UAJA will need to sign a West Penn Power right-of-way agreement to cover the proposed location of the poles and line. The estimated cost of the relocation is \$30,000-\$40,000. A timeline required for the relocation has been requested from West Penn Power.
- The easement exhibit was initially provided to the Authority staff and the Authority’s solicitor on March 31, 2021.
- HRG provided equine crossing sign suggestions in July 2021.

Entry Road Project Implementation Schedule

Milestone	Date
Acquire Right-of-Way/Permission to Relocation Utility Poles	December 2021
Utility Pole Relocation	April 2021
Bidding and Project Construction	TBD*

*Sequence bidding and project construction with other site construction activities to minimize interference and damage.

Whitehall Road Low Pressure Sanitary Sewer – (R001178.0692)

- Stake-out of the Whitehall Road crossings was completed.

Princeton Drive Sanitary Sewer Replacement – (R001178.0699)

- It was concluded in a meeting on September 8, 2021 that the sewer line would be replaced along the exiting alignment. To maximize the depth of cover over the new sewer line, a drop manhole with a lower slope will be designed. HRG is waiting on updated base mapping with proposed design depths from Ferguson Township. This information was requested on September 9th and again on October 11th. Ferguson Township responded that the updated calculations to determine the depth of the rock structures will be available by the end of the month.

State College Borough Rate Study and Tapping Fee Update – (R001178.0703)

- Draft rate calculations were reviewed with Authority staff and then delivered for review on October 7th. The final draft report will be submitted by October 15th.
- The tapping fee updated is being prepared and will be submitted by November 10th.

Developer Plan Reviews

- The Developer’s as-built drawings for the sanitary system for Canterbury Crossing Phase 1C were recommended to Staff; September 28, 2021 (1178.0705).

6.7 Construction Report

ENR/AWT Upgrade Project (094612009)

- We are moving forward with closing out the Contractor (HRI, Inc.) and retaining the \$83,500.94 to reimburse the Authority for accepting Defective Work related to the Primary Clarifier Weirs.

Aeration Line Improvements (094612035)

- Both contractors, G.M. McCrossin (2020-08) and HRI (2020-09), have achieved substantial completion and the new aeration piping system is fully operational. Punchlists items have been completed by HRI for Contract 2020-09 and partially complete for McCrossin for Contract 2020-08.

Payment Requests To Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount
2020-08		\$0.00	\$539,073.95	\$539,073.95	100.00 %	\$26,953.70
2020-09	6-Final	\$41,705.10	\$108,302.06	\$108,302.06	100.00 %	\$0.00
		\$41,705.10	\$647,376.01	\$647,376.01	100.00 %	\$0.00

- McCrossin, Inc. (2020-08) submitted a final application for full release of retainage, however there are several outstanding punchlist items. We are not recommending release of retainage at this time.
- HRI, Inc. (2020-09) has submitted Application for Payment No. 6-Final, and we are recommending payment in the amount of \$41,705.10.

Solar System – Phase II Project

- West Penn Power has completed the improvements within their facilities and the second phase of the

solar array is now fully operational. A ribbon cutting for the newest phase and the microgrid is scheduled for October 20th, prior to the Board meeting.

WWTP NPDES Permit – Phosphorus Study (094612027)

- Continuous in-stream monitoring of Spring Creek is currently underway for part of the year to determine the level of any impairment during the growing period, prior to undertaking an intensive study during the critical high-temp, low-flow period. We plan to provide an update to the Board at an upcoming meeting to summarize data collected thus far.

Ozone Disinfection for Effluent (094612023)

- The Water Quality Management Permit has been issued by the Pennsylvania Department of Environmental Protection.
- The project is currently out for construction bids. We anticipate making an award recommendation for the three contracts at the Board’s November 17th meeting.

Anaerobic Digestion Project (094612026)

- The Act 537 Special Study for Biosolids has been submitted to the PA DEP and the Water Quality Management Part II Permit will be reviewed by the DEP upon DEP’s approval of the Act 537 Special Study.
- RETTEW has begun final design of the proposed improvements to biosolids handling and treatment and anticipates a bid release in January 2022.

High Voltage Switchgear Replacement (094612045)

- Thoroughbred has submitted Application for Payment No. 5 and we are recommending payment in the amount of \$98,685.93.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price To Date incld/CO	Total Work To Date	% Monetarily Complete	Balance of Contract Amount
2020-11	5	\$98,685.93	\$1,121,436.21	\$1,089,300.41	97.13%	\$141,065.84
		\$98,685.93	\$1,121,436.21	\$1,089,300.41	97.13%	\$141,065.84

Modifications to GD Kissinger Meadow Stream Augmentation

- The Authority’s pending NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run requires a series of modifications in control and monitoring. The changes will require modulation of the flows to the stream via SCADA, to avoid abrupt changes in stream flow. Additionally, we anticipate essentially a non-detect chlorine limit which will require de-chlorination prior to stream discharge. We are working with staff to design, permit, and implement these modifications.

6.8 Executive Director’s Report

Solar Phase II

The ribbon cutting for Solar Phase II was held today, October 20, 2021.

7 Other Business

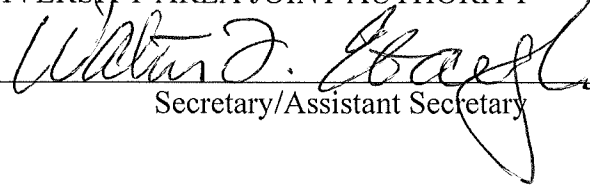
None.

8 Adjournment

The meeting was adjourned at 5:14 p.m. via motion by Mr. Dempsey and second by Mr. Auman.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary