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

Regular Meeting – September 16, 2020

1. Call to Order

Mr. Lapinski, Chairman, called the meeting to order at 4:00 p.m., Wednesday, September 16, 2020. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Auman, Dietz and Lapinski, Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Andy Breon, Assistant Plant Superintendent; Ben Burns, HRG Consulting Engineer; Jeff Garrigan and Doug Weikel, HRG Consulting Engineer; Jason Wert, Michele Aukerman and Megan Miller, Rettew. Those in attendance via Zoom were Messrs. Daubert, Dempsey, Derr, Ebaugh, Guss, Miller, Nucciarone; Shelly Mato and Pam Adams, CRPA; Corey Rilk, CRPA; David Gaines, Solicitor; Bernard Hoffnar, SCBWA; Kevin Mullen; Dr. Heather Preisendanz and Thomas Richard, PSU; C-NET.

2. Reading of the Minutes

UAJA Regular Meeting – August 19, 2020

UAJA
Meeting Minutes
Approved

A motion was made by Mr. Dietz, seconded by Mr. Miller, to approve the minutes of the UAJA meeting held on August 19, 2020. The motion passed unanimously.

3. Public Comment

3.1 Other items not on the agenda

Mr. Richards spoke to the board about a study that is being conducted at Penn State called Wastewater Base Epidemiology. He is heading up a research project to look at covid remnants in the sewer systems at both Penn State and UAJA. The testing is to help detect diseases that could be potentially getting back into the system.

Mr. Mullen spoke to the board about being overcharged for years and getting a refund on his bill.

4. Old Business

4.1 Beneficial Reuse Service Area Draft Task Activity Report (TAR)

The draft TAR for an Act 537 Plan Special Study was submitted to the Centre Region Planning Agency in December 2019 for review and comment. The purpose of the TAR is to define the scope for a study to recommend the establishment of a beneficial reuse service boundary which will support the goals and objectives of the Centre Region Comprehensive Plan and the Act 537 Plan.

On September 9, 2020 there was a meeting of the Source Water Protection Agreement Project Management Team (PMT) to discuss the draft TAR. Most of the comments that had been received were related to risk. UAJA proposed halting work to conduct a comprehensive risk assessment. The goal of the risk assessment will be to determine and quantify all sources of risk to the region's drinking water quality and the beneficial reuse water quality. A meeting will be scheduled for October which will include a risk expert that can describe what such an assessment would entail.

The purpose of this agenda item is for the members that were present at the September 9 meeting to share their thoughts on that meeting with the entire UAJA Board.

Recommendation: Discussion only.

5. New Business

5.1 Biosolids and Biogas Study Presentation

RETTEW has finished the Biosolids Study that has reviewed potential alternatives for implementation of Anaerobic Digestion with Renewable Natural Gas export to a Utility that has expressed interest in purchasing the RNG. The alternatives were fairly in depth considering a number of configurations for the digestion, along with considering the impact to the composting facility, odor control and ultimate disposal of the biosolids. The study was very revealing, causing us to consider some additional alternatives that we had possibly discounted in the beginning. We've reviewed the financial and technical aspects of the report and Staff and RETTEW will present a summary of the report findings for consideration.

Recommendation: Discuss the presentation.

5.2 2021 Budget

The 2021 budget process is underway. Supervisors have been provided budget worksheets for operating budget areas and staff has met to discuss potential capital budget items. Supervisors are to submit all budget requests by 9/18. A first draft of the budget will be complete by 10/5. We have tentatively scheduled a meeting with the Board budget subcommittee for 10/7. This committee needs to be established. It has typically consisted of the Treasurer, Assistant Treasurer and one other Board representative. Staff intends to compile all input and have a final draft budget in the Board packet by 10/16. Anticipated Board approval would occur at the October Board meeting on 10/21/2020.

Recommendation: Appoint subcommittee and establish firm date and time for meeting with staff.

The following were appointed to the subcommittee: Mr. Guss, Mr. Derr and Mr. Auman.

5.3 Final Design: Rocky Ridge, Section 5

Final design drawings for the Rocky Ridge, Section 5 sewer extension (Harris Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 13 EDUs of single-family homes. The review comments have been addressed.

Recommendation: Approve the drawings as submitted.

Final Design Approved A motion was made by Mr. Dietz, seconded by Mr. Derr, to approve the drawing as submitted for Rocky Ridge, Section 5. The motion passed unanimously.

5.4 Final Design: Grays Pointe- Phase 6, Section C

Final design drawings for the Grays Pointe- Phase 6, Section C sewer extension (Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 41 EDUs of townhomes. The review comments have been addressed.

Recommendation: Approve the drawings as submitted.

Final Design Approved A motion was made by Mr. Daubert, seconded by Mr. Dietz, to approve the drawing as submitted for Grays Pointe, Phase 6, Section C. The motion passed unanimously.

5.5 Contract 2020-07 Shiloh Road Pump Station Materials

Below are the bid results of our Contract #2020-07, Shiloh Pump Station Materials. Our bid opening was held at 10 am, September 2nd, 2020.

CONTRACT #2020-07

Option #1 Pipe and Fittings

• L/B Water - \$52,975.00

Option #2 Wet Well / Valve Pit and (2) Manholes

• Terre Hill - \$77,229.45

One bid was received for each option. This is not uncommon for material bids. Contract documents will be available for signature at the meeting.

Recommendation: Award Contract 2020-07 Option 1 to LB Water in the amount of \$52,975.00 and Option 2 to Terr Hill in the amount of \$77,229.45.

Bids Awarded for Contract 2020-07 A motion was made by Mr. Dietz, seconded by Mr. Auman, to award Contract #2020-07 Option #1 Pipe and Fittings to L/B Water in the amount of \$52,975.00 and Option #2 Wet Well/ Valve Pit and (2) Manholes to Terre Hill in the amount of \$77,229.45. The motion passed unanimously.

5.6 Requisitions

Construction Fund #222	S&C Operations, Inc. Harris Reuse Trucking	\$8,712.50
Construction Fund #223	HRG Harris Reuse Engineering	\$3,827.84
Construction Fund #224	HRG Odor Control Engineering	\$1,466.86
Construction Fund #225	Groff Tractor Harris Reuse Filter Bag	\$2,553.32
Construction Fund #226	Centre Concrete Company Harris Reuse Project	\$2,084.48
Construction Fund #227	CMJ Trucking & Construction Harris Reuse Topsoil	\$6,000.00
Construction Fund #228	Pinnacle Erosion Control	\$7,496.40

Harris Reuse Project

Construction Fund #229	Scott's Landscaping Harris Reuse Topsoil	\$118.00
Construction Fund #230	HRI, Inc. Harris Reuse- Pay App. No. 1	\$131,535.00
Construction Fund #231	Ligonier Construction Harris Reuse- Pay App. No. 1	\$29,952.00

TOTAL CONSTRUCTION FUND

\$193,746.40

Construction Fund	
Approved	

A motion was made by Mr. Dietz, seconded by Mr. Nucciarone, to approve Construction Fund #222, #223, #224, #225, #226, #227, #228, #229, #230 and #231. The motion passed unanimously.

BRIF #436	PA Dept. of Transportation Atherton Street Phase II	\$130,142.35
BRIF #437	Rettew Sludge Storage Tank Mixer Project	\$27.06
BRIF #438	HRG Shiloh Rd. Pump Station Project	\$675.00
BRIF #439	HRG Greenbriar Engineering	\$185.00
BRIF #440	Strouse Electric, Inc. Greenbriar Project	\$922.00
BRIF #441	BI LO Supply Greenbriar Project	\$3,035.10
BRIF #442	4-M Construction Pay Application No. 3	\$11,240.00
BRIF #443	Stelco, Inc. Pay Application No. 1	\$9,885.24
BRIF #444	Wilson Ecological Consulting Meeks Lane Botanical Survey	\$6,500.00

BRIF Approved

TOTAL BRIF

A motion was made by Mr. Nucciarone, seconded by Mr. Dietz, to approve BRIF #436, #437, #438, #439, #440, #441, #442, #443 and #444. The motion passed unanimously.

\$162,611.75

Revenue Fund #171

Debt Service, Operation and Maintenance Expenses

\$1,000,000.00

TOTAL REVENUE FUND

\$1,000,000.00

Revenue Fund Approved A motion was made by Mr. Dietz, seconded by Mr. Auman, to approve the Revenue Fund #171. 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 August 31, 2020 was reviewed with the Board by Jason Brown.

6.3 Chairman's Report

Mr. Lapinski, Mr. Cory Miller and Mr. Walt Schneider presented at College Township the prior week.

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

	Mar. 2020	Apr. 2020	May 2020	Jun. 2020	Jul. 2020	Aug. 2020
Production	1,202 cu/yds.	987 cu/yds.	988 cu/yds.	1,213 cu/yds.	1,118 cu/yds.	866 cu/yds.
YTD. Production	3,341 cu/yds.	4,328 cu/yds.	5,316 cu/yds.	6,529 cu/yds.	7,647 cu/yds.	8,513 cu/yds.
Distribution	371 cu/yds.	1,703 cu/yds.	948 cu/yds.	1,164 cu/yds.	669 cu/yds.	656 cu/yds.
YTD. Distribution	1,895 cu/yds.	3,598 cu/yds.	4,546 cu/yds.	5,710 cu/yds.	6,379 cu/yds.	7,035 cu/yds.
Immediate Sale	3,554 cu/yds.	3,006 cu/yds.	3,019 cu/yds.	2,841 cu/yds.	3,387 cu/yds.	3,850 cu/yds.
Currently in Storage	4,756 cu/yds.	3,993 cu/yds.	4,007 cu/yds.	4,054 cu/yds.	4,505 cu/yds.	4,716 cu/yds.

SEPTAGE OPERATIONS

	Mar. 2020	Apr. 2020	May 2020	<u>Jun. 2020</u>	<u>Jul. 2020</u>	Aug. 2020
Res./Comm.	7,500 gals.	10,250 gals.	11,550 gals.	23,425 gals.	69,373 gals.	68,347 gals.

20						
CH/Potter	4,674.57	9,011.37	10,045.53	4,174.17	4,036.56	4,065.75
	Ibs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids
Port	1,551.24	2,768.88	1,150.92	1,417.80	1,000.80	617.16
Matilda	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids
Huston	617.16	467.04	683.88	517.08	433.68	567.12
Twp.	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids
Total Flow	64,500 gals.	101,250 gals.	104,550 gals.	75,925 gals.	123,373 gals.	106,347 gals.

Plant Operation

The treatment plant is operating well with no exceptions for the month of August 2020. The 12-month rolling average flow for July was 3.10mgd with the average for the month being 2.55mgd. The average monthly **influent** flow was 4.39mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

			Plant Effl.	Wetland Effl.
	Aug-20	YTD	Temp	Temp.
Best Western	20,000	144,000		
Centre Hills	7,762,000	25,016,000	Aug-20	Aug-20
Cintas	520,000	4,004,000	73.1	73.9
Red Line	349,000	2,921,000		
Uaja Wetland	1,703,000	21,024,000		
GDK Vault	30,070,000	306,369,000		
Kissingers	1,716,000	14,743,000		
Stewarts/M.C.	4,500	48,200		
TOTAL	42,144,500	374,269,200		

Plant Maintenance

- Replaced diaphragm in Primary Pump #9.
- Changed out Landia mixer NM501.
- Replaced Module Control Board on Outfall UV Bank 2A, Module 1.
- Replaced telescopic motor on Secondary #4.
- Repaired conference room heat pump.
- Replaced #120 chain on Knight Mixer.
- PBCI Allen was in to repair and recharge heat pump for Compost office.
- Repaired WAS tank #5 (Big Bertha) airlines.
- Cleaned rags out of Primary Tank #4.
- Cleaned grit out of Was Tank #3.
- Evoqua performed an audit on all 6 MF's
- Made piping modifications in the MF air supply line.

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 Construction – Greenbriar – Installed (1,990 ft) of lateral pipe – (14) homes hooked up to new system.

Harris Reuse Project – Installed (492 ft) of 12" main.

Casting Repairs -(1).

Mainline Televising – (248 ft televised) – (2) manholes inspected.

Equipment maintenance.

Lift Station Maintenance:

Cleaned (8) lift station wet wells.

Routine Maintenance.

Next Month Projects:

Continue Greenbriar project.

Continue Harris Reuse project.

Cleaning wet wells.

Inspection:

Final As-Builts Approved: None

Mainline Construction:

- a. Grays Woods Planned Community Lot 46A & 46B Awaiting As-Builts.
- b. Harner Farms Started Construction

New Connections:

				TOTAL	24
b.	Multi-Family Residential	17	d.	Non-Residential	0
a.	Single-Family Residential	7	c.	Commercial	0

PA One-Calls Responded to 8/1-31/20: 333

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

• Provided assistance with the development of 2021 budget items for capital projects.

Odor Control System Upgrades (R001178.0597)

- The date of Substantial Completion was established as June 24, 2020. The contracts are 339 days beyond the date of substantial completion.
- Contract No. 17-04: Electrical Construction (Hayden Power Group) has been completing punch list items.
- Contract No. 17-03: General Construction (Global Heavy Corporation) filed a Complaint against the UAJA and HRG.
- BIOREM (biofilter manufacturer) has been working to complete some of the punch list items associated with their scope of supply under Contract No. 17-03. Samples for performance testing were collected and shipped to the laboratory for odor

analysis.

• There are no applications for payment.

Shiloh Road Pump Station Upgrades (R001178.0632)

- The following permit applications are pending review.
 - Water Quality Management (PA DEP)
 - Highway Occupancy (PennDOT)
 - Building Permit (Centre Region Code Administration)

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

- Alignment stake-out is being coordinated with the UAJA construction crew.
- Progress Meeting No. 1 was held on September 2, 2020. Meeting minutes have been prepared.
- Contract 2020-02 (Ligonier) is working to complete the conventional bore crossing of SR 0322 near the Centre Hills Booster Station. They are approximately 60ft into the 480ft bore crossing.
- Contract 2020-03 (HRI) completed the Boalsburg Road (SR 3010) crossing and the SR 0045 crossing. They are actively working to install the waterline under SR 0322 near Tussey Mountain.
- Contract 2020-03 submitted Change Proposal No. 1 requesting an increase in the Contract Price of \$33,880.48 for work around the sewer line and within Spring Creek.
- Substantial Completion Dates:

Contract 2020-02 October 21, 2020
 Contract 2020-03 November 20, 2020

Applications for Payment are summarized in the following table.

Applications for Payment								
Contrac t No.	Applicatio n for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	% Monetary Complete	Balance to Finish Plus Retainage		
2020- 02	1	\$29,952.00	\$303,000.00	\$33,280.00	11%	\$273,048.00		
2020- 03	1	\$131,535.0	\$366,000.00	\$146,150.00	40%	\$234,465.00		

Scott Road Pump Station and Bristol Interceptor – Act 537 Plan Special Study (R001178.0661)

- The CRPA is compiling meeting minutes and will then prepare the study for submission to the PA DEP.
- HRG is scheduling to commence topographic survey of the project area.

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

- Wilson Ecological Consulting prepared a Botanical Survey Report for the proposed project. It was concluded that the project can proceed as proposed without impact to any rare, threatened, or endangered plant species.
- The report was uploaded to the PNDI website.

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

- The draft Task Activity Report (TAR) was discussed at the May 7, 2020 Centre Region COG
 Public Services and Environment Committee. The TAR will be submitted to DEP once COG
 approves the draft TAR.
- A Source Water Protection Committee meeting was held on September 9, 2020 to discuss the TAR.

Entry Road Stormwater Improvements Stud – (R001178.0681)

• A draft report was prepared and submitted for review.

Developer Plan Reviews:

- The Developer's design drawings for Grays Pointe Phase 6 Section C were recommended to Staff on August 18, 2020 (1178.0684).
- The Developer's design drawings for Rockey Ridge Section 5 were recommended to Staff on August 26, 2020 (1178.0683).

6.7 Construction Report

ENR/AWT Upgrade Project (094612009)

• The contractor for Contract UAJA 2017-06 (HRI) is in the process of completing all punchlist and warranty items. The Authority is also completing some of the items that the Contractor has not diligently pursued utilizing retainage.

Sludge Storage Tank Mixer (094612034)

• 4-M Construction Company and Stelco, Inc. continue work for the installation of the new mixer. Application for Payment No. 3 has been submitted by 4-M Construction Company (Contract No. 2020-01) and we are recommending payment in the amount of \$11,240.00. Application for Payment No. 1 has been submitted by Stelco, Inc. (Contract 2020-05) and we are recommending payment in the amount of \$9,885.24.

Payment Requests To Date								
Contract Number	Application for Payment #	Payment	Contract Price To Date incld/CO	Total Work To Date	% Monetarily Complete	Balance of Contract Amount		
2020-01	3	\$11,240.00	\$39,250.00	\$36,700.00	93.50%	\$4,385.00		
2020-05	1	\$9,885.24	\$27,750.00	\$10,983.60	39.58%	\$17,864.76		
		\$21,125.24	\$67,000.00	\$47,683.60	71.17%	\$19,316.40		

Change Order No. 1 for Contract UAJA 2020-01 (4-M) has been prepared for extra work associated with the removal and re-installation of the plant's aeration blower #3 for repair. This

change order also includes the addition of an overhead door to facilitate any future repairs to these blowers. RETTEW recommends an <u>increase of \$29,350.00</u> in the total contract amount and 0 Days in total contract time.

Change Order Approved A motion was made by Mr. Dietz, seconded by Mr. Auman, to approve the Change Order #1 2020-01 Sludge Storage Tank Project in the amount of \$29,350.00. The motion passed unanimously.

Aeration System Improvements (094612035)

• RETTEW is underway on the design of the Aeration System Improvements to replace leaking air lines for the Biological System. We are also incorporating two other smaller projects into this contract: replacement of existing alum mixers and additional upgrades to plant lighting. This project is anticipated to go out to bid in early fall.

WWTP NPDES Permit – Phosphorus Study (094612027)

• A revised Plan of Study has been submitted to address the PA DEP's comments, including continuous monitoring of Spring Creek for part of the year to determine the level of any impairment, prior to undertaking an intensive study during the critical high-temp, low-flow period. Installation of the stream monitoring instruments will begin upon receipt of approval of the Plan from the PA DEP.

Ozone Disinfection for Effluent (094612023)

• We are preparing a Water Quality Management Permit application for submission to the PA DEP by the end of this month for replacement of the existing UV system with new ozone disinfection.

Anaerobic Digestion Project (094612026)

 We have met with staff to review the potential options for incorporation of anaerobic digestion at the Plant. RETTEW will present the alternatives and recommendations at the meeting.

High Voltage Switchgear and Cable Replacement

• A recent inspection by the manufacturer has revealed a number of components that reached the end of life for the existing high voltage switchgear that feeds the Spring Creek Pollution Control Facility. These facilities were constructed in 1994 and very few modifications have occurred over the years and many components are now obsolete and unable to be readily replaced. We have begun the design of replacement gear, accounting for future expansion, as well as the replacement of a portion of the plant's underground electrical distribution system that dates from a similar period (~26 yrs. old).

Modifications to GD Kissinger Meadow Stream Augmentation

• We anticipate upcoming changes to the Authority's NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run. The changes will require the Authority to modulate 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.

Nutrient Credit Offsets – Solar Installation and Stormwater Offsets (094612028)

• A meeting was held with the EPA to review the proposal for nutrient credit offsets related to reductions in nitrogen emissions in the air as a result of increased solar energy usage. To assist

the PA DEP with how to handle this type of nutrient offset, we are working with the Authority to draft a letter to the DEP Secretary, along with suggested draft language for future NPDES permits.

Solar System- Phase II

• Building Permit Application has been approved. We anticipate installation of the panels to begin in October/November.

Solar Phase II Demo & Fencing (094612040)

• Bids were received Monday, August 17th. Notice of Intent to Award package was issued to Stone Valley Construction, LLC in the amount of \$260,604.00. Upon receipt of completed documents we expect to issue the notice to proceed.

6.8 Executive Director's Report

Residential Solar Pilot Project

On September 21, 2020, Mr. Miller will present the residential solar pilot project at the State College Borough meeting. The attorney from PMAA is looking into this further to confirm that there are not any problems with this authority or any other authority doing solar projects of this type. He should be getting back to us within two to three weeks.

Additional Flags

UAJA got selected for a water resources utility of the future today award for 2020 for work primarily in energy. The last award UAJA received was for work primarily in water reuse.

Meyer Dairy

Meyer Dairy's septic system has failed. UAJA has been working with the Centre Region, DEP and College Township to help Meyer Dairy through this process. They are currently in the water quality management stage and UAJA should be receiving a drawing soon. They will have to do a sewer extension.

7 Other Business

A motion was made by Mr. Dietz and second by Mr. Nucciarone to break for an executive session at 5:33 pm.

8 Adjournment

The meeting came out of executive session and was adjourned at 5:53 p.m. via motion. Mr. Dietz moved, seconded by Mr. Auman. Motion passed.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary