



UNIVERSITY AREA JOINT AUTHORITY

A G E N D A

Regular Meeting - 4:00 p.m. – October 20, 2021

- 1. Call to Order**
- 2. Approval of the Minutes:** Regular Meeting- September 15, 2021
- 3. Public Comment**
 - 3.1** Other items not on the agenda
- 4. Old Business**
 - 4.1** Meeks Lane Act 537 Plan Special Study Presentation
- 5. New Business**
 - 5.1** 2022 Tapping Fee
 - 5.2** Draft Rate Study Letter Report
 - 5.3** Requisitions
- 6. Reports of Officers**
 - 6.1** SCBWA Liaison
 - 6.2** Financial Report
 - 6.3** Chairman's Report
 - 6.4** Plant Superintendent's Report
 - 6.5** Collection Systems Superintendent's Report
 - 6.6** Consulting Engineer's Report
 - 6.7** Construction Engineer
 - 6.8** Executive Directors Report
- 7. Other Business**
- 8. Adjournment**

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

Regular Meeting – September 15, 2021

Executive Session at 4:00pm.

1. Call to Order

Mr. Lapinski, Chair, called the regular meeting to order at 4:29 p.m., Wednesday, September 15, 2021. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messr. Guss and Kunkle; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Jennifer Grove, Administrative Assistant; Michele Aukerman, Rettew; David Gaines, Solicitor; C-NET; Ben Burns, HRG Consulting Engineer; and Jeff Garrigan, HRG Consulting Engineer. The following were in attendance via Zoom: Messrs. Daubert, Derr, Miller and Nucciarone; Jason Wert, Rettew; Kevin Mullen; John Nastase; Eric Brooks, State College Borough; Brian Robbins, State College Borough; and John.

2. Reading of the Minutes

UAJA Regular Meeting – August 18, 2021

**UAJA Meeting
Minutes Approved**

A motion was made by Mr. Derr, second by Mr. Guss, to approve the minutes of the UAJA meeting held on August 18, 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

None.

5. New Business

5.1 Final Design: Meyer Dairy

Final design drawings for the Meyer Dairy sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 7 EDUs. The review comments have been addressed.

Recommendation: Approve the drawings as submitted.

**Drawings approved
as submitted for
Meyer Dairy**

A motion was made by Mr. Guss, second by Mr. Derr to approve the drawings as submitted for Meyer Dairy. The motion passed unanimously.

5.2 1331 Trout Road Property Sale

The property at 1331 Trout Road has been listed with a realtor and an offer has been made for consideration.

Recommendation: Consider approving the sale of the property.

**Sale approved for
1331 Trout Road**

A motion was made by Mr. Kunkle, second by Mr. Daubert to approve the sale of the UAJA property located at 1331 Trout Road in the amount of \$129,900.00. The motion passed unanimously.

5.3 GM McCrossin Change Order #1

Change Order No. 1 for Contract 2020-08 (McCrossin) has been prepared to modify the air piping to accommodate a conflict with an unknown wall lintel behind the existing brick. The amount includes additional materials, welding, and masonry repairs. RETTEW recommends an increase of \$27,977.95 in the total contract amount.

Recommendation: Approve Change Order No. 1 in the amount of \$27,977.95.

**Change Order No.1
for Contract 2020-
08 Approved**

A motion was made by Mr. Derr, second by Mr. Nucciarone to approve Change Order No. 1 for Contract 2020-08 (McCrossin) in the amount of \$27,977.95. The motion passed unanimously.

5.4 2022 Budget

The 2022 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 9/17. A first draft of the budget will be complete by 10/6. We have tentatively scheduled a meeting with the Board budget subcommittee for 10/13. 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 10/15. Anticipated Board approval would occur at the October Board meeting on 10/20/2020.

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. Kunkle. Mr. Brown will reach out to the subcommittee members to establish a firm date and time.

5.5 Requisitions

BRIF #591	HRG Whitehall Road Project	\$880.00
BRIF #592	HRG Scott Road Pump Station Project	\$4,685.00
BRIF #593	HRG Odor Control Air Quality Plan	\$825.00
BRIF #594	Rettew Sludge Storage Tank Project	\$410.50

BRIF #595	Rettew AWT Instrumentation/Upgrades	\$8,783.33
BRIF #596	Rettew Switchgear Replacement Project	\$8,857.75
BRIF #597	Rettew Phosphorus Study	\$2,366.25
BRIF #598	Rettew Battery O&M and Solar Project	\$6,779.98
BRIF #599	L/B Water Haymarket Project	\$1,417.50
BRIF #600	L/B Water Whitehall Road Project	\$2,414.15
BRIF #601	L/B Water Scott Road Project	\$213,569.44
BRIF #602	Terre Hill Concrete Products Scott Road Project	\$18,809.02
BRIF #603	Glenn O. Hawbaker Bike Path Paving	\$31,250.00
BRIF #604	Glossner's Concrete Sludge Storage Tank Project	\$494.00
BRIF #605	Thoroughbred Construction Pay App. #4- Switchgear Project	\$421,600.50
BRIF #606	Ligonier Construction Pay App. #5- Harris Reuse Project	\$3,000.00
TOTAL BRIF		\$726,142.42

**BRIF
Approved**

A motion was made by Mr. Nucciarone, second by Mr. Derr to approve BRIF #591, #592, #593, #594, #595, #596, #597, #598, #599, #600, #601, #602, #603, #604, #605 and #606 in the amount of \$726,142.42. The motion passed unanimously.

Construction Fund #016	Rettew Aeration Line Project	\$840.00
Construction Fund #017	Rettew Ozone Disinfection Project	\$50,256.65

Construction Fund #018 Rettew \$54,093.92
Biosolids Upgrade Project

Construction Fund #019 G.M. McCrossin \$57,845.78
Pay App. #3- Aeration Line Project

TOTAL 2020 A CONSTRUCTION FUND \$163,036.35

**Construction Fund
Approved**

A motion was made by Mr. Guss, second by Mr. Miller to approve Construction Fund #016, #017, #018 and #019 in the amount of \$163,036.35. The motion passed unanimously.

Revenue Fund #181 was removed from the agenda.

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, 2021, were reviewed with the Board by Jason Brown.

6.3 Chairman's Report

Mr. Lapinski mentioned the rate committee has not met yet and that it will be properly advertised when there is a meeting date set.

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>Mar. 2021</u>	<u>Apr. 2021</u>	<u>May 2021</u>	<u>June 2021</u>	<u>July 2021</u>	<u>Aug. 2021</u>
Production	897 cu/yds.	848 cu/yds.	847 cu/yds.	878 cu/yds.	913 cu/yds.	890 cu/yds.
YTD. Production	2,286cu/yds.	3,134 cu/yds.	3,981cu/yds.	4,859 cu/yds.	5,772 cu/yds.	6,662 cu/yds.
Distribution	978 cu/yds.	963cu/yds.	2,132cu/yds.	1,442cu/yds.	731cu/yds.	969cu/yds.
YTD. Distribution	1,109 cu/yds.	2,072cu/yds.	4,204cu/yds.	5,646 cu/yds.	6,377 cu/yds.	7,346 cu/yds.
Immediate Sale	2,812 cu/yds.	2,746 cu/yds.	1,462cu/yds.	867cu/yds.	1,014cu/yds.	958cu/yds.
Currently in Storage	3,709 cu/yds.	3,594 cu/yds.	2,309 cu/yds.	1,745 cu/yds.	1,927 cu/yds.	1,848 cu/yds.

SEPTAGE OPERATIONS

	<u>Mar. 2021</u>	<u>Apr. 2021</u>	<u>May 2021</u>	<u>June 2021</u>	<u>July 2021</u>	<u>Aug. 2021</u>
Res./Comm.	71,300 gals.	74,400 gals.	69,800 gals.	68,700 gals.	40,000 gals.	68,150 gals.
CH/Potter	2,777.22 lbs./solids	0.00 lbs./solids	0.00 lbs./solids	1,517.88 lbs./solids	0.00 lbs./solids	0.00 lbs./solids
Port Matilda	1,684.68 lbs./solids	500.40 lbs./solids	1,434.48 lbs./solids	1,200.96 lbs./solids	1,951.56 lbs./solids	1,234.32 lbs./solids
Huston Twp.	533.76 lbs./solids	600.48 lbs./solids	683.88 lbs./solids	500.40 lbs./solids	467.04 lbs./solids	650.52 lbs./solids
Total Flow	113,800 gals.	88,400 gals.	95,800 gals.	105,500 gals.	66,000 gals.	90,150 gals.

Plant Operation

The treatment plant is operating well with two exceptions. Due to the switch-over of the Aeration basins we went out of compliance on two parameters. Weekly average for Ammonia (limit of 1.5mg/l with a result of 3.4mg/l) and Monthly Average (limit of 1.0mg/l and a result of 1.8mg/l). The 12-month rolling average flow for August was 3.24mgd with the average for the month being 3.04mgd. The average monthly **influent** flow was 4.92mgd.

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:

	Aug. 2021	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	39,000	219,000	Aug. 2021	Aug. 2021
Centre Hills	5,945,000	22,321,000		
Cintas	549,000	3,911,000	72.4	73.2
Red Line	310,000	3,976,000		
UAJA Wetland	5,511,000	36,574,000		
GDK Vault	30,926,000	223,887,000		
Elks	1,440,000	3,331,000		
Kissingers	1,825,000	15,520,000		
Stewarts/M.C.	2,710	31,110		
TOTAL	46,547,0710	309,770,110		

Plant Maintenance

- Replaced pump seal and backplate on AWT BWS Pump 103A.
- Replaced eccentric spool fitting on MF#3. Old spool was plastic welded locally.
- Air Technologies repaired the airline dryer in AWT compressor #1.
- The emergency generator at College Harris pump station failed on engine overspeed. A check valve was installed in the fuel line and the speed sensor was cleaned and adjusted.
- The Plant switched Aeration Basins to facilitate the new airline system being installed.
- PBCI Allen repaired the heat pump for the SCADA room.
- Replaced the Auma Actuator for Train #1 Zone #1. The old one will be sent back to the factory for repair.
- Replaced burnt out lamps in the Outfall UV. Replacement lamps have not been delivered as there are issues with Customs.

- Both Primary Atlas-Copco Air Compressors have failed. The units should be covered under warranty.
- Repaired the belt scraper on the Transfer Conveyor at Compost.
- Installed the repaired fan for the Odor Control Fan #1.
- Repaired control wiring on Composter #1.

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 forcemain project – Installed 1,040 ft of 10" forcemain.
Main Line Televising – 3,783 ft televised - 32 manholes inspected.
Manhole Repairs – (21).
Casting repairs – (23)

Lift Station Maintenance:

Cleaned (6) lift station wet wells.
Repaired (1) E-One pump core.
Replaced capacitor at Haymarket station.
Routine Maintenance.

Next Month Projects:

Cleaning wet wells.
Continue Scott Road upgrade project.
Mainline flushing and televising.

Inspection: Final As-Built Approved: None

Mainline Construction:

- Canterbury Crossing 4&5 phase 1C – Awaiting As-Built.
- Hawk Ridge – Awaiting As-Built.
- Aspen Heights Squirrel Drive - Started construction.

New Connections:

a. Single-Family Residential	14	c. Commercial	2
b. Multi-Family Residential	0	d. Non-Residential	0
TOTAL			16

PA One-Calls Responded to 08/1-31/21: 428

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)

- HRG is assisting the Collection System Superintendent with the development of budgetary items.
- A quote from W.G. Malden to furnish upgraded meters at the North and South Meter Chambers was obtained and provided to staff for consideration.

Odor Control System Upgrades (R001178.0597)

- Contract No. 17-03: General Construction (Global Heavy Corporation) - Complaint against the UAJA and HRG.
- An inventory of air emissions for the entire facility has been compiled as required by DEP; however, obtaining emissions data from certain manufacturers has been difficult.

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

- Contract 2020-02 (Ligonier) – Ligonier submitted a final application for payment in the amount of \$3,000.00. Based on the work completed and the Contract requirements, payment is recommended.

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

- Revisions to the draft study have been completed to account for alternative alignments and additional scope of sewer.
- Skelly and Loy is conducting an eastern spadefoot toad habitat assessment. The field work will be finished early next week.

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.

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

- The low bid for the General Construction Contract was presented on the PennBid website under the Electrical Construction Contract. Due to bidding confusion, there have been discussions that the General Construction Contract should be re-bid. This is being reviewed and discussed with the Authority's solicitor.
- The Building Permit was issued.
- An amendment to the NPDES Permit was submitted to account for alignment changes along Bristol Avenue. This application is pending review.
- The re-bid will include an alternate bid item for the crossing of Bristol Avenue and Whitehall Road.

Fiber Optic Conduit – (R001178.0687)

- Drawings were prepared for the second fiber optic conduit alignment (Trout Road to Hartman Farm Lane to Short Lane, near SR 0026) and reviewed by staff. HRG can proceed with preparation of the permit applications when authorized by the UAJA.

Entry Road Storm Water Improvements – (R001178.0688)

- The project can be prepared for public bidding when the UAJA is ready.

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

- A Component 3M Sewage Facilities Planning Module was adopted at the Ferguson Township meeting on September 7th.

Princeton Drive Sanitary Sewer Replacement – (R001178.0699)

- A meeting with the Township was held on September 8th to review the proposed sewer alignment.
- Replacement of the sewer will require separate permitting. A GP-5 permit application will be developed once the Township approves the alignment.

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

- Supporting documentation is being compiled and work is progressing to prepare the study and the update.

Developer Plan Reviews

- The Developer's sanitary system design drawings for the Myers Dairy Connection were returned to the Developer for correction; September 1, 2021 (1178.0704).

6.7 Construction Report

ENR/AWT Upgrade Project (094612009)

- We continue to work with the Contractor (HRI, Inc.) to resolve the remaining defective work. The Authority is currently retaining \$83,500.94 for these items.

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 for final completion have been prepared for both contracts.
- Since completion of the piping, plant staff have been able to operate the aeration tanks primarily with one blower, whereas previously, two blowers were continuously required. Between the aeration blower reduction and lighting modifications, RETTEW estimates that the Authority will save over \$130,000 per year in electrical costs.

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	3	\$57,45.78	\$539,073.95	\$539,073.95	100.00	\$26,953.70
2020-09			\$108,302.06	\$70,102.06	64.73%	\$41,705.10
		\$57,845.78	\$647,376.01	\$609,176.01	94.10	\$38,200.00

- Change Order No. 1 for Contract 2020-08 (McCrossin) has been prepared to modify the air piping to accommodate a conflict with an unknown wall lintel behind the existing brick. The amount includes additional materials, welding, and masonry repairs. RETTEW recommends an increase of \$27,977.95 in the total contract amount.
- G.M. McCrossin (2020-08) has submitted Application for Payment No. 3 and we are recommending payment in the amount of \$57,845.78.

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 tentatively 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.

Ozone Disinfection for Effluent (094612023)

- The Act 537 Special Study has been approved by the Pennsylvania Department of Environmental Protection and issuance of the Water Quality Management Permit by the DEP is pending.
- RETTEW is completing final design activities and is targeting a request for bids in the next few weeks for review and approval of bids at the Board's November meeting.

Anaerobic Digestion Project (094612026)

- The Act 537 Special Study for Biosolids has been approved by the Centre Region municipalities and will be submitted to the PA DEP upon receipt of all signed resolutions.
- 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)

- The new switchgear has arrived and has been set on the new concrete pad. Commissioning of the system is expected later this month.
- All new medium-voltage cabling has been installed within the new ductbanks.
- Thoroughbred has submitted Application for Payment No. 4 and we are recommending payment in the amount of \$421,600.50.

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	4	\$421,600.50	\$1,121,436.21	\$979,649.38	87.36%	\$239,751.77
		\$421,600.50	\$1,121,436.21	\$979,649.38	87.36%	\$239,751.77

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

Tapping Fee

The tapping fee for 2022 is usually approved at the October board meeting. The new tapping fee will not be in the packet sent out October 15, but as an amended report prior to the meeting as soon as the number is reported.

7 Other Business

Mr. Kunkle mentioned that the reports that have been provided to the board that includes the cost savings that are being experienced from many of the projects that have been done are a positive addition.

8 Adjournment

The meeting was adjourned at 5:07 p.m. via motion by Mr. Nucciarone and second by Mr. Derr.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

10/12/2021 11:03
jgrove

UNIVERSITY AREA JOINT AUTHORITY - LIVE
YEAR-TO-DATE BUDGET REPORT

P 1
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FOR 2021 09

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040410 REVENUE-SEWER	-14,873,932	0	-14,873,932	-7,176,038.45	.00	-7,697,893.55	48.2%
1040420 REVENUE-SOLIDS	-74,000	0	-74,000	-90,088.27	.00	16,088.27	121.7%
1040425 REVENUE-BU WATER	-25,000	0	-25,000	-16,632.00	.00	-8,368.00	66.5%
1040430 MAINTENANCE	-65,000	0	-65,000	-83,424.50	.00	18,424.50	128.3%
1040440 REVENUE-PERMIT/TAP FEES	-1,114,079	0	-1,114,079	-550,536.75	.00	-563,542.25	49.4%
1040450 REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-20,777.06	.00	-19,222.94	51.9%
1040451 REVENUE-MISC. REIMBURSEMENT	-272,914	0	-272,914	-15,123.63	.00	-257,790.05	5.5%
1040470 INTEREST EARNINGS-CASH ACCT	-1,410	0	-1,410	-319.27	.00	-1,090.73	22.6%
1040472 INTEREST EARNINGS-PLGIT	-375	0	-375	-1.64	.00	-373.36	.4%
1040474 INTEREST EARNINGS - TRUSTEE	-90,555	0	-90,555	-154,564.19	.00	64,009.19	170.7%
1040480 REVENUES-MISCELLANEOUS	-95,000	0	-95,000	-47,714.37	.00	-47,285.63	50.2%
1045919 CIP-WWTP-LAB	14,700	0	14,700	13,833.93	.00	866.07	94.1%
1045921 CIP-COLLECTION MAINT I&I	2,070,500	0	2,070,500	686,890.37	.00	1,383,609.63	33.2%
1045922 CIP-COLLECTION-CONST. EQUIP	379,776	0	379,776	22,668.30	.00	357,107.70	6.0%
1045924 CIP-WWTP-PHYSICAL PLANT	6,589,060	0	6,589,060	2,280,611.26	.00	4,308,448.74	34.6%
1045928 CIP-BENEFICIAL REUSE	242,250	0	242,250	278,740.30	.00	-36,490.30	115.1%
1045929 CIP-WWTP-DEWATERING FACILIT	0	0	0	49,279.09	.00	-49,279.09	100.0%
1045930 CIP-WWTP-COMPOST FACILITY	10,330,000	0	10,330,000	360,145.77	.00	9,969,854.23	3.5%
1045950 CIP-GENERAL & ADMINISTRATIV	190,000	0	190,000	.00	.00	190,000.00	.0%
1050050 GENERAL & ADMINISTRATIVE	1,757,627	0	1,757,627	1,395,492.14	.00	362,134.86	79.4%
1050053 G & A - INFORMATION TECHNOL	94,265	0	94,265	80,320.16	.00	13,944.84	85.2%
1050054 G & A - FLEET/FUEL	197,000	0	197,000	127,801.62	.00	69,198.38	64.9%
1052052 DEBT SERVICE	6,655,882	0	6,655,882	1,600,927.44	.00	5,054,954.82	24.1%
1060019 WWTP - LABORATORY	323,063	0	323,063	232,344.56	.00	90,718.23	71.9%
1060022 TREATMENT PLANT MAINTENANCE	1,120,589	0	1,120,589	812,469.19	.00	308,119.81	72.5%
1060023 MAIN STATION	89,000	0	89,000	40,826.98	.00	48,173.02	45.9%
1060025 WWTP - IPP	117,018	0	117,018	79,441.80	.00	37,576.20	67.9%
1060028 WWTP - BENEFICIAL REUSE	848,408	0	848,408	701,793.68	.00	146,614.32	82.7%
1060029 WWTP - DEWATERING	476,278	0	476,278	280,827.08	.00	195,450.92	59.0%
1060030 WWTP - COMPOST	917,004	0	917,004	693,709.59	.00	223,294.41	75.6%
1060032 TREATMENT PLANT OPERATION	1,896,631	0	1,896,631	1,530,147.43	.00	366,483.57	80.7%
1070021 COLLECTION-MAINTENANCE	1,757,721	0	1,757,721	1,287,268.48	.00	470,452.52	73.2%
1070022 CONSTRUCT EQUIP MAINTENANCE	65,000	0	65,000	60,997.02	.00	4,002.98	93.8%
1070034 COLLECTION-INSPECTION	450,239	0	450,239	340,747.50	.00	109,491.50	75.7%
1070036 COLLECTION-PUMP STATION	157,600	0	157,600	81,313.77	.00	76,286.23	51.6%
TOTAL OPERATING FUND	20,087,346	0	20,087,346	4,883,377.33	.00	15,203,969.04	24.3%
TOTAL REVENUES	-16,652,265	0	-16,652,265	-8,155,220.13	.00	-8,497,044.55	
TOTAL EXPENSES	36,739,611	0	36,739,611	13,038,597.46	.00	23,701,013.59	

10/12/2021 11:02
jgrove

UNIVERSITY AREA JOINT AUTHORITY - LIVE
YEAR-TO-DATE BUDGET REPORT

P 1
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FOR 2021 09

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
1040410 REVENUE-SEWER	<hr/>						
1040410 4101 UAJA TOTAL SEWER R	-10,324,932	0	-10,324,932	-5,189,311.69	.00	-5,135,620.31	50.3%*
1040410 4102 BORO SEWER TOTAL R	-3,800,000	0	-3,800,000	-1,714,351.52	.00	-2,085,648.48	45.1%*
1040410 4103 PGM TOTAL SEWER RE	-379,000	0	-379,000	-169,633.40	.00	-209,366.60	44.8%*
1040410 4104 PSU TOTAL SEWER RE	-220,000	0	-220,000	-41,173.84	.00	-178,826.16	18.7%*
1040410 4105 SURCHARGES TOTAL R	-150,000	0	-150,000	-61,568.00	.00	-88,432.00	41.0%*
TOTAL REVENUE-SEWER	-14,873,932	0	-14,873,932	-7,176,038.45	.00	-7,697,893.55	48.2%
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1040420 REVENUE-SOLIDS	<hr/>						
1040420 4201 N5001 NONTAXABLE	-45,000	0	-45,000	-46,247.50	.00	1,247.50	102.8%
1040420 4201 N5002 TAXABLE COMPO	-6,000	0	-6,000	-10,026.92	.00	4,026.92	167.1%
1040420 4203 SLUDGE DISPOSAL	-23,000	0	-23,000	-33,813.85	.00	10,813.85	147.0%
TOTAL REVENUE-SOLIDS	-74,000	0	-74,000	-90,088.27	.00	16,088.27	121.7%
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1040425 REVENUE-BU WATER	<hr/>						
1040425 4251 REVENUE-BU WATER	-25,000	0	-25,000	-16,632.00	.00	-8,368.00	66.5%*
TOTAL REVENUE-BU WATER	-25,000	0	-25,000	-16,632.00	.00	-8,368.00	66.5%
<hr/>							
1040430 MAINTENANCE	<hr/>						
1040430 4301 REVENUE-MAINT BORO	-65,000	0	-65,000	-83,424.50	.00	18,424.50	128.3%
TOTAL MAINTENANCE	-65,000	0	-65,000	-83,424.50	.00	18,424.50	128.3%
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1040440 REVENUE-PERMIT/TAP FEES	<hr/>						
1040440 4401 PERMIT/CONNECTION	-20,250	0	-20,250	-14,873.23	.00	-5,376.77	73.4%*
1040440 4402 TAP FEE-TREATMENT	-846,400	0	-846,400	-487,158.50	.00	-359,241.50	57.6%*

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1040440 4403 GHANER TAP FEE	-18,550	0	-18,550	-9,632.00	.00	-8,918.00	51.9%*
1040440 4404 TAP FEE-PGM COLLEC	-4,428	0	-4,428	.00	.00	-4,428.00	.0%*
1040440 4405 IPP USER FEES	-4,750	0	-4,750	-3,800.00	.00	-950.00	80.0%*
1040440 4409 WATER QUALITY MNGT	-500	0	-500	-400.00	.00	-100.00	80.0%*
1040440 4410 REPAIR PERMIT	-1,550	0	-1,550	-1,300.00	.00	-250.00	83.9%*
1040440 4411 TAP FEE - ROUTE 26	-109,850	0	-109,850	-11,300.00	.00	-98,550.00	10.3%*
1040440 4412 CIRCLEVILLE TAP FE	-79,306	0	-79,306	-3,356.22	.00	-75,949.78	4.2%*
1040440 4413 VALLEY VISTA TAP F	-28,495	0	-28,495	-18,716.80	.00	-9,778.20	65.7%*
TOTAL REVENUE-PERMIT/TAP FEES	-1,114,079	0	-1,114,079	-550,536.75	.00	-563,542.25	49.4%
<hr/> 1040450 REVENUE-ADVCD. CONSTRC FEE							
1040450 4407 INSPECTION FEES	-40,000	0	-40,000	.00	.00	-40,000.00	.0%*
1040450 4407 B5026 GRAYSWOOD BRY	0	0	0	-6,304.69	.00	6,304.69	100.0%
1040450 4407 B5353 INSPECTION FE	0	0	0	-2,936.59	.00	2,936.59	100.0%
1040450 4407 B5457 INSPECTION FE	0	0	0	-2,199.39	.00	2,199.39	100.0%
1040450 4407 B5468 INSPECTION FE	0	0	0	-4,866.09	.00	4,866.09	100.0%
1040450 4407 B5472 INSPECTION FE	0	0	0	-4,470.30	.00	4,470.30	100.0%
TOTAL REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-20,777.06	.00	-19,222.94	51.9%
<hr/> 1040451 REVENUE-MISC. REIMBURSEMNT							
1040451 4503 EMPLOYEE GROUP INS	-22,914	0	-22,914	-15,123.63	.00	-7,790.05	66.0%*
1040451 4508 SALE OF ASSETS	-250,000	0	-250,000	.00	.00	-250,000.00	.0%*
TOTAL REVENUE-MISC. REIMBURSEMNT	-272,914	0	-272,914	-15,123.63	.00	-257,790.05	5.5%
<hr/> 1040470 INTEREST EARNINGS-CASH ACCTS							
1040470 4701 GENERAL CHECKING-I	-10	0	-10	.00	.00	-10.00	.0%*
1040470 4702 PAYROLL-INTEREST E	-400	0	-400	-72.98	.00	-327.02	18.2%*
1040470 4717 SWEEP CHECKING-INT	-1,000	0	-1,000	-246.29	.00	-753.71	24.6%*
TOTAL INTEREST EARNINGS-CASH ACCTS	-1,410	0	-1,410	-319.27	.00	-1,090.73	22.6%
<hr/> 1040472 INTEREST EARNINGS-PLIGIT							
1040472 4703 PLIGIT-INTEREST EA	-30	0	-30	-.10	.00	-29.90	.3%*

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1040472 4711 PLIGIT-EMMAUS-INTE	-200	0	-200	-.21	.00	-199.79	.1%*
1040472 4719 PLIGIT PLUS - INTE	-145	0	-145	-1.33	.00	-143.67	.9%*
TOTAL INTEREST EARNINGS-PLIGIT	-375	0	-375	-1.64	.00	-373.36	.4%
1040474 INTEREST EARNINGS - TRUSTEE							
1040474 4706 BOND REMP/IMP-INTE	-30,000	0	-30,000	-49,469.16	.00	19,469.16	164.9%
1040474 4707 BRIF/EMMAUS-INTERE	-555	0	-555	-8.10	.00	-546.90	1.5%*
1040474 4724 INTEREST 93 DEBT S	-50,000	0	-50,000	-371,248.46	.00	321,248.46	742.5%
1040474 4725 INT 93 OPERATING E	-2,000	0	-2,000	-4,886.54	.00	2,886.54	244.3%
1040474 4726 INT 93 DEBT SERVIC	-5,000	0	-5,000	271,720.43	.00	-276,720.43	-5434.4%*
1040474 4727 INT REVENUE FUND	-3,000	0	-3,000	-124.51	.00	-2,875.49	4.2%*
1040474 4733 2020A CONSTRUCTION	0	0	0	-311.07	.00	311.07	100.0%
1040474 4734 2021 CONSTRUCTION	0	0	0	-236.78	.00	236.78	100.0%
TOTAL INTEREST EARNINGS - TRUSTEE	-90,555	0	-90,555	-154,564.19	.00	64,009.19	170.7%
1040480 REVENUES-MISCELLANEOUS							
1040480 4899 MISCELLANEOUS RECE	-50,000	0	-50,000	-2,714.37	.00	-47,285.63	5.4%*
1040480 4909 SOLAR MAINTENANCE	-45,000	0	-45,000	-45,000.00	.00	.00	100.0%
TOTAL REVENUES-MISCELLANEOUS	-95,000	0	-95,000	-47,714.37	.00	-47,285.63	50.2%
1045919 CIP-WWTP-LAB							
1045919 0019 6318 BOD INCUBATOR	6,200	0	6,200	5,682.43	.00	517.57	91.7%
1045919 0019 6319 ANALYTICAL BAL	8,500	0	8,500	8,151.50	.00	348.50	95.9%
TOTAL CIP-WWTP-LAB	14,700	0	14,700	13,833.93	.00	866.07	94.1%
1045921 CIP-COLLECTION MAINT I&I							
1045921 0021 6271 SHILOH RELOCAT	70,000	0	70,000	121,903.10	.00	-51,903.10	174.1%*
1045921 0021 6272 GREENBRIAR ENG	50,000	0	50,000	8,931.97	.00	41,068.03	17.9%

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1045921 0021 6285 WHITEHALL ROAD	35,000	0	35,000	2,414.15	.00	32,585.85	6.9%
1045921 0021 6300 CAPITAL IN PRO	516,000	0	516,000	240,467.52	.00	275,532.48	46.6%
1045921 0021 6312 HAYMARKET PROJ	35,000	0	35,000	1,417.50	.00	33,582.50	4.1%
1045921 0021 6315 UAJA CONDUIT P	91,000	0	91,000	74,858.76	.00	16,141.24	82.3%
1045921 5405 6235 GRAYSWOODS ENG	15,000	0	15,000	.00	.00	15,000.00	.0%
1045921 5405 6271 SHILOH RELOCAT	5,000	0	5,000	998.45	.00	4,001.55	20.0%
1045921 5405 6272 GREENBRIAR ENG	10,000	0	10,000	7,237.50	.00	2,762.50	72.4%
1045921 5405 6300 SCOTT ROAD UPG	177,000	0	177,000	104,539.90	.00	72,460.10	59.1%
1045921 5405 6310 WHITEHALL ROAD	19,200	0	19,200	15,100.00	.00	4,100.00	78.6%
1045921 5405 6313 HAYMARKET ENGI	16,800	0	16,800	.00	.00	16,800.00	.0%
1045921 5405 6316 UAJA CONDUIT E	24,000	0	24,000	51,055.00	.00	-27,055.00	212.7%*
1045921 5505 6300 PUMP STATION M	749,000	0	749,000	.00	.00	749,000.00	.0%
1045921 ER01 6271 SHILOH RELOCAT	5,000	0	5,000	670.00	.00	4,330.00	13.4%
1045921 ER05 6300 RENTAL-TRUCK	75,000	0	75,000	.00	.00	75,000.00	.0%
1045921 PV01 6271 SHILOH TRENCH	25,000	0	25,000	26,046.52	.00	-1,046.52	104.2%*
1045921 PV01 6300 PAVING CONTRAC	30,000	0	30,000	.00	.00	30,000.00	.0%
1045921 PV01 6311 WHITEHALL ROAD	15,000	0	15,000	.00	.00	15,000.00	.0%
1045921 PV01 6314 HAYMARKET TREN	17,500	0	17,500	.00	.00	17,500.00	.0%
1045921 PV01 6317 UAJA CONDUIT T	25,000	0	25,000	.00	.00	25,000.00	.0%
1045921 PV02 6271 SHILOH BIKE PA	65,000	0	65,000	31,250.00	.00	33,750.00	48.1%
TOTAL CIP-COLLECTION MAINT I&I	2,070,500	0	2,070,500	686,890.37	.00	1,383,609.63	33.2%
1045922 CIP-COLLECTION-CONST. EQUIPM							
1045922 0021 6288 NEW COLLECTION	20,000	0	20,000	22,668.30	.00	-2,668.30	113.3%*
1045922 0021 6328 NEW UNIT 22	11,821	0	11,821	.00	.00	11,821.00	.0%
1045922 0021 6329 NEW T-TAG	20,860	0	20,860	.00	.00	20,860.00	.0%
1045922 0021 6330 NEW JET TRUCK	172,095	0	172,095	.00	.00	172,095.00	.0%
1045922 0021 6331 NEW STORAGE BU	155,000	0	155,000	.00	.00	155,000.00	.0%
TOTAL CIP-COLLECTION-CONST. EQUIPM	379,776	0	379,776	22,668.30	.00	357,107.70	6.0%
1045924 CIP-WWTP-PHYSICAL PLANT							
1045924 0024 6256 ENR/AWT PROJEC	0	0	0	211,389.80	.00	-211,389.80	100.0%*
1045924 0024 6260 SOLAR PROJECT	98,000	0	98,000	133,638.57	.00	-35,638.57	136.4%*
1045924 0024 6294 NEW TRUCK PLAN	15,300	0	15,300	17,272.26	.00	-1,972.26	112.9%*
1045924 0024 6304 AERATION SYSTE	725,000	0	725,000	594,847.46	.00	130,152.54	82.0%
1045924 0024 6320 5000 LB FORKLI	10,083	0	10,083	.00	.00	10,083.00	.0%

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1045924 0024 6321 NEW TRUCK WITH	22,773	0	22,773	.00	.00	22,773.00	.0%
1045924 0024 6322 UAJA ENTRANCE	350,404	0	350,404	2,100.00	.00	348,304.00	.6%
1045924 0024 6323 UAJA ENTRANCE	22,500	0	22,500	20,143.86	.00	2,356.14	89.5%
1045924 0024 6324 OZONE DISINFEC	115,000	0	115,000	161,055.65	.00	-46,055.65	140.0%*
1045924 0024 6325 OZONE DISINFEC	4,050,000	0	4,050,000	8,078.09	.00	4,041,921.91	.2%
1045924 0024 6333 DISSOLVED PHOS	180,000	0	180,000	140,048.59	.00	39,951.41	77.8%
1045924 0024 6334 HIGH VOLTAGE S	1,000,000	0	1,000,000	992,036.98	.00	7,963.02	99.2%
TOTAL CIP-WWTP-PHYSICAL PLANT	6,589,060	0	6,589,060	2,280,611.26	.00	4,308,448.74	34.6%
1045928 CIP-BENEFICIAL REUSE							
1045928 0028 6239 MF MEMBRANE RE	90,000	0	90,000	74,080.00	.00	15,920.00	82.3%
1045928 0028 6262 WATERLINE PH 2	20,000	0	20,000	181,331.79	.00	-161,331.79	906.7%*
1045928 0028 6332 KISSINGER MEAD	110,000	0	110,000	10,016.36	.00	99,983.64	9.1%
1045928 5405 6261 WATERLINE PH 2	7,250	0	7,250	7,919.40	.00	-669.40	109.2%*
1045928 5405 6332 KISSINGER MEAD	15,000	0	15,000	4,585.25	.00	10,414.75	30.6%
1045928 ER05 6262 HARRIS REUSE T	0	0	0	807.50	.00	-807.50	100.0%*
TOTAL CIP-BENEFICIAL REUSE	242,250	0	242,250	278,740.30	.00	-36,490.30	115.1%
1045929 CIP-WWTP-DEWATERING FACILITY							
1045929 0029 6309 BIG BERTHA MIX	0	0	0	49,279.09	.00	-49,279.09	100.0%*
TOTAL CIP-WWTP-DEWATERING FACILITY	0	0	0	49,279.09	.00	-49,279.09	100.0%
1045930 CIP-WWTP-COMPOST FACILITY							
1045930 0030 6245 ODOR CONTROL	0	0	0	40,789.87	.00	-40,789.87	100.0%*
1045930 0030 6295 NEW COMPOST LO	40,000	0	40,000	.00	.00	40,000.00	.0%
1045930 0030 6326 SOLIDS DRYING	690,000	0	690,000	315,537.31	.00	374,462.69	45.7%
1045930 0030 6327 SOLIDS DRYING	9,600,000	0	9,600,000	.00	.00	9,600,000.00	.0%
1045930 5405 6245 ODOR CONTROL E	0	0	0	3,818.59	.00	-3,818.59	100.0%*
TOTAL CIP-WWTP-COMPOST FACILITY	10,330,000	0	10,330,000	360,145.77	.00	9,969,854.23	3.5%
1045950 CIP-GENERAL & ADMINISTRATIVE							
1045950 0050 6043 COMPUTER HARDW	90,000	0	90,000	.00	.00	90,000.00	.0%

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1045950 0050 6047 COMPUTER SOFTW	100,000	0	100,000	.00	.00	100,000.00	.0%
TOTAL CIP-GENERAL & ADMINISTRATIVE	190,000	0	190,000	.00	.00	190,000.00	.0%
1050050 GENERAL & ADMINISTRATIVE							
1050050 5001 SUPERVISOR LABOR	256,417	0	256,417	165,093.12	.00	91,323.88	64.4%
1050050 5002 REGULAR LABOR	355,201	0	355,201	218,420.93	.00	136,780.07	61.5%
1050050 5006 VACATION	0	0	0	41,631.42	.00	-41,631.42	100.0%*
1050050 5007 SICK	0	0	0	7,047.67	.00	-7,047.67	100.0%*
1050050 5008 PERSONAL	0	0	0	6,031.33	.00	-6,031.33	100.0%*
1050050 5009 JURY/CIVIL/VOLUNTE	0	0	0	2,014.24	.00	-2,014.24	100.0%*
1050050 5010 HOLIDAY	0	0	0	16,705.09	.00	-16,705.09	100.0%*
1050050 5101 FICA EXPENSE	37,920	0	37,920	28,330.61	.00	9,589.39	74.7%
1050050 5102 MEDICARE EXPENSE	8,868	0	8,868	6,625.61	.00	2,242.39	74.7%
1050050 5201 UNEMPLOYMENT EXPEN	23,000	0	23,000	18,020.90	.00	4,979.10	78.4%
1050050 5202 GROUP HEALTH INSUR	154,661	0	154,661	111,322.70	.00	43,338.30	72.0%
1050050 5203 PENSION (401) UAJA	86,804	0	86,804	43,908.54	.00	42,895.46	50.6%
1050050 5205 COBRA EMPLOYEE INS	10,000	0	10,000	13,721.84	.00	-3,721.84	137.2%*
1050050 5207 GROUP LIFE INSURAN	80,400	0	80,400	73,171.12	.00	7,228.88	91.0%
1050050 5208 HEALTH DEDUCTIBLE	175,000	0	175,000	106,002.94	.00	68,997.06	60.6%
1050050 5301 OFFICE SUPPLIES	15,000	0	15,000	15,002.10	.00	-2.10	100.0%*
1050050 5302 POSTAGE/SHIPPING	30,000	0	30,000	22,014.17	.00	7,985.83	73.4%
1050050 5303 JANITORIAL SUPPLIE	7,000	0	7,000	4,395.87	.00	2,604.13	62.8%
1050050 5307 PETTY CASH EXPENDI	200	0	200	130.42	.00	69.58	65.2%
1050050 5401 ADVERTISING	3,000	0	3,000	1,880.43	.00	1,119.57	62.7%
1050050 5402 AUDIT	23,000	0	23,000	22,589.94	.00	410.06	98.2%
1050050 5403 6107 MAYLIE PROPERT	0	0	0	28.84	.00	-28.84	100.0%*
1050050 5405 ENGINEERING-RETAIN	20,000	0	20,000	13,591.01	.00	6,408.99	68.0%
1050050 5406 LEGAL	60,000	0	60,000	41,302.50	.00	18,697.50	68.8%
1050050 5408 INSURANCE - COMMER	280,000	0	280,000	310,488.00	.00	-30,488.00	110.9%*
1050050 5499 MISCELLANEOUS OUTS	15,000	0	15,000	11,868.00	.00	3,132.00	79.1%
1050050 5501 1054 O & M - COPIER	5,000	0	5,000	7,400.69	.00	-2,400.69	148.0%*
1050050 5601 COMMUNICATIONS	40,000	0	40,000	25,497.41	.00	14,502.59	63.7%
1050050 5701 TRAINING, SEMINARS	5,000	0	5,000	12,918.00	.00	-7,918.00	258.4%*
1050050 5702 MEMBERSHIPS, SUBSC	6,500	0	6,500	7,173.00	.00	-673.00	110.4%*
1050050 5703 UNIFORMS-BOOTS-GLO	18,000	0	18,000	15,259.64	.00	2,740.36	84.8%
1050050 5704 VACCINATIONS	1,500	0	1,500	.00	.00	1,500.00	.0%
1050050 5706 EMPLOYEE/EMPLOYER	2,500	0	2,500	1,463.10	.00	1,036.90	58.5%
1050050 5707 MEAL ALLOWANCE	500	0	500	143.79	.00	356.21	28.8%
1050050 5708 SAFETY EQUIPMENT	8,000	0	8,000	2,294.38	.00	5,705.62	28.7%
1050050 5709 SAFETY TRAINING	3,000	0	3,000	.00	.00	3,000.00	.0%

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1050050 5710 DRUG/ALCOHOL TESTI	500	0	500	754.00	.00	-254.00	150.8%*
1050050 6006 MISCELLANEOUS EXPE	1,000	0	1,000	30.00	.00	970.00	3.0%
1050050 6007 BANK FEES/CHARGES	0	0	0	12.00	.00	-12.00	100.0%*
1050050 6015 WATER-CTWA	6,000	0	6,000	6,436.00	.00	-436.00	107.3%*
1050050 6017 GARBAGE	10,000	0	10,000	8,300.29	.00	1,699.71	83.0%
1050050 6019 CNET	8,656	0	8,656	6,470.50	.00	2,185.50	74.8%
TOTAL GENERAL & ADMINISTRATIVE	1,757,627	0	1,757,627	1,395,492.14	.00	362,134.86	79.4%
1050053 G & A - INFORMATION TECHNOLOGY							
1050053 IT71 INTERNET SERVICE	5,000	0	5,000	3,089.36	.00	1,910.64	61.8%
1050053 IT72 HARDWARE-DATA PROC	18,365	0	18,365	14,852.13	.00	3,512.87	80.9%
1050053 IT73 SOFTWARE-DATA PROC	69,900	0	69,900	62,228.67	.00	7,671.33	89.0%
1050053 IT74 TRAINING-DATA PROC	1,000	0	1,000	150.00	.00	850.00	15.0%
TOTAL G & A - INFORMATION TECHNOLOGY	94,265	0	94,265	80,320.16	.00	13,944.84	85.2%
1050054 G & A - FLEET/FUEL							
1050054 5502 VEHICLE MAINTENANC	75,000	0	75,000	31,269.95	.00	43,730.05	41.7%
1050054 5603 1006 GASOLINE.	35,000	0	35,000	22,209.53	.00	12,790.47	63.5%
1050054 5603 1008 DIESEL FUEL	87,000	0	87,000	74,322.14	.00	12,677.86	85.4%
TOTAL G & A - FLEET/FUEL	197,000	0	197,000	127,801.62	.00	69,198.38	64.9%
1052052 DEBT SERVICE							
1052052 5801 INTEREST PAID-1993	2,678,441	0	2,678,441	1,155,859.85	.00	1,522,581.15	43.2%
1052052 5802 INTEREST PAID - EM	500	0	500	124.55	.00	375.45	24.9%
1052052 5804 BOND ISSUANCE COST	0	0	0	339,570.04	.00	-339,570.04	100.0%*
1052052 5901 PRINCIPAL PAID-199	3,865,000	0	3,865,000	.00	.00	3,865,000.00	.0%
1052052 5903 PRINCIPAL PAID-EMM	95,000	0	95,000	95,000.00	.00	.00	100.0%
1052052 6106 TRUSTEE FEES EMMAU	2,100	0	2,100	2,123.00	.00	-23.00	101.1%*
1052052 6120 TRUSTEE FEE 12	1,886	0	1,886	.00	.00	1,885.63	.0%
1052052 6122 2015 TRUSTEE FEES	1,886	0	1,886	1,650.00	.00	235.63	87.5%
1052052 6123 TRUSTEE FEE 2016	1,750	0	1,750	.00	.00	1,750.00	.0%
1052052 6124 TRUSTEE FEE 2017	1,750	0	1,750	1,650.00	.00	100.00	94.3%

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1052052 6125 TRUSTEE FESS 2017A	1,750	0	1,750	1,650.00	.00	100.00	94.3%
1052052 6126 TRUSTEE FEE 2017B	2,520	0	2,520	.00	.00	2,520.00	.0%
1052052 6127 TRUSTEE FEE 2018	1,650	0	1,650	1,650.00	.00	.00	100.0%
1052052 6128 TRUSTEE FEE 2020	1,650	0	1,650	1,650.00	.00	.00	100.0%
TOTAL DEBT SERVICE	6,655,882	0	6,655,882	1,600,927.44	.00	5,054,954.82	24.1%
1060019 WWTP - LABORATORY							
1060019 5001 SUPERVISOR LABOR	82,847	0	82,847	54,205.12	.00	28,641.46	65.4%
1060019 5002 REGULAR LABOR	140,638	0	140,638	86,465.04	.00	54,173.17	61.5%
1060019 5003 OVERTIME LABOR	500	0	500	401.17	.00	98.83	80.2%
1060019 5006 VACATION	0	0	0	4,305.40	.00	-4,305.40	100.0%*
1060019 5007 SICK	0	0	0	8,175.76	.00	-8,175.76	100.0%*
1060019 5008 PERSONAL DAY	0	0	0	781.95	.00	-781.95	100.0%*
1060019 5010 HOLIDAY	0	0	0	4,499.52	.00	-4,499.52	100.0%*
1060019 5101 FICA EXPENSE	14,000	0	14,000	9,992.63	.00	4,007.37	71.4%
1060019 5102 MEDICARE EXPENSE	3,241	0	3,241	2,336.61	.00	904.39	72.1%
1060019 5202 GROUP HEALTH INSUR	41,270	0	41,270	31,312.63	.00	9,957.37	75.9%
1060019 5203 PENSION (401) UAJA	15,317	0	15,317	10,709.87	.00	4,607.13	69.9%
1060019 5305 SMALL EQUIPMT/TOOL	250	0	250	105.15	.00	144.85	42.1%
1060019 5306 LAB SUPPLIES	22,000	0	22,000	17,346.77	.00	4,653.23	78.8%
1060019 5501 EQUIPMENT MAINTENA	3,000	0	3,000	1,706.94	.00	1,293.06	56.9%
TOTAL WWTP - LABORATORY	323,063	0	323,063	232,344.56	.00	90,718.23	71.9%
1060022 TREATMENT PLANT MAINTENANCE							
1060022 5001 SUPERVISOR LABOR	37,815	0	37,815	23,878.03	.00	13,936.97	63.1%
1060022 5002 REGULAR LABOR	462,062	0	462,062	243,669.46	.00	218,392.54	52.7%
1060022 5003 OVERTIME LABOR	5,000	0	5,000	6,591.90	.00	-1,591.90	131.8%*
1060022 5006 VACATION	0	0	0	52,111.25	.00	-52,111.25	100.0%*
1060022 5007 SICK	0	0	0	28,947.32	.00	-28,947.32	100.0%*
1060022 5008 PERSONAL DAY	0	0	0	11,488.63	.00	-11,488.63	100.0%*
1060022 5009 JURY/CIVIL/VOLUNTE	0	0	0	256.18	.00	-256.18	100.0%*
1060022 5010 HOLIDAY	0	0	0	11,491.84	.00	-11,491.84	100.0%*
1060022 5101 FICA EXPENSE	31,000	0	31,000	21,373.72	.00	9,626.28	68.9%
1060022 5102 MEDICARE EXPENSE	7,250	0	7,250	4,998.65	.00	2,251.35	68.9%
1060022 5202 GROUP HEALTH INSUR	98,577	0	98,577	85,324.91	.00	13,252.09	86.6%
1060022 5203 PENSION (401) UAJA	26,885	0	26,885	17,942.34	.00	8,942.66	66.7%

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1060022 5304 OPERATIONAL SUPPLI	5,000	0	5,000	3,506.35	.00	1,493.65	70.1%
1060022 5305 SMALL EQUIPMT/TOOL	14,000	0	14,000	6,589.06	.00	7,410.94	47.1%
1060022 5501 EQUIPMENT MAINTENA	190,000	0	190,000	100,651.47	.00	89,348.53	53.0%
1060022 5501 6174 SCADIA MAINT	40,000	0	40,000	48,408.11	.00	-8,408.11	121.0%*
1060022 5501 6175 UV MAINT	55,000	0	55,000	17,597.14	.00	37,402.86	32.0%
1060022 5501 6283 SOLAR MAINTENA	21,000	0	21,000	44,671.31	.00	-23,671.31	212.7%*
1060022 5503 BUILDING & GROUND	52,000	0	52,000	23,450.57	.00	28,549.43	45.1%
1060022 5508 GRIT REMOVAL-PLANT	22,000	0	22,000	22,222.90	.00	-222.90	101.0%*
1060022 5603 FUEL, OIL, LUBRICA	18,000	0	18,000	19,189.10	.00	-1,189.10	106.6%*
1060022 7511 LANDSCAPE	35,000	0	35,000	18,108.95	.00	16,891.05	51.7%
TOTAL TREATMENT PLANT MAINTENANCE	1,120,589	0	1,120,589	812,469.19	.00	308,119.81	72.5%
1060023 MAIN STATION							
1060023 5002 B5001 REGULAR LABOR	0	0	0	13,685.08	.00	-13,685.08	100.0%*
1060023 5101 B5001 FICA EXPENSE	0	0	0	848.50	.00	-848.50	100.0%*
1060023 5102 B5001 MEDICARE EXPE	0	0	0	198.49	.00	-198.49	100.0%*
1060023 5202 B5001 GROUP HEALTH	0	0	0	2,368.69	.00	-2,368.69	100.0%*
1060023 5203 B5001 PENSION (401)	0	0	0	684.16	.00	-684.16	100.0%*
1060023 5505 B5001 PUMP STATION	50,000	0	50,000	1,484.15	.00	48,515.85	3.0%
1060023 5602 B5001 O&M MAIN STAT	39,000	0	39,000	21,557.91	.00	17,442.09	55.3%
TOTAL MAIN STATION	89,000	0	89,000	40,826.98	.00	48,173.02	45.9%
1060025 WWTP - IPP							
1060025 5001 SUPERVISOR LABOR	81,347	0	81,347	54,155.31	.00	27,191.69	66.6%
1060025 5006 VACATION	0	0	0	632.29	.00	-632.29	100.0%*
1060025 5007 SICK	0	0	0	199.02	.00	-199.02	100.0%*
1060025 5010 HOLIDAY	0	0	0	718.39	.00	-718.39	100.0%*
1060025 5101 FICA EXPENSE	5,044	0	5,044	3,453.80	.00	1,590.20	68.5%
1060025 5102 MEDICARE EXPENSE	1,180	0	1,180	807.88	.00	372.12	68.5%
1060025 5202 GROUP HEALTH INSUR	17,162	0	17,162	12,612.71	.00	4,549.29	73.5%
1060025 5203 PENSION (401) UAJA	8,135	0	8,135	5,570.42	.00	2,564.58	68.5%
1060025 5304 OPERATION SUPPLIES	0	0	0	11.98	.00	-11.98	100.0%*
1060025 5305 SMALL EQUIPMT/TOOL	150	0	150	.00	.00	150.00	.0%
1060025 5410 ANALYSIS	3,500	0	3,500	1,280.00	.00	2,220.00	36.6%
1060025 5501 EQUIPMENT MAINTENA	500	0	500	.00	.00	500.00	.0%
TOTAL WWTP - IPP	117,018	0	117,018	79,441.80	.00	37,576.20	67.9%

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1060028 WWTP - BENEFICIAL REUSE								
1060028	5001 SUPERVISOR LABOR	37,815	0	37,815	23,878.03	.00	13,936.97	63.1%
1060028	5006 VACATION	0	0	0	632.29	.00	-632.29	100.0%*
1060028	5007 SICK	0	0	0	199.02	.00	-199.02	100.0%*
1060028	5010 HOLIDAY	0	0	0	718.39	.00	-718.39	100.0%*
1060028	5101 FICA EXPENSE	2,345	0	2,345	1,576.59	.00	768.41	67.2%
1060028	5102 MEDICARE EXPENSE	548	0	548	368.80	.00	179.20	67.3%
1060028	5202 GROUP HEALTH INSUR	7,918	0	7,918	5,702.36	.00	2,215.64	72.0%
1060028	5203 PENSION (401) UAJA	3,782	0	3,782	2,542.69	.00	1,239.31	67.2%
1060028	5304 OPERATIONAL SUPPLI	15,000	0	15,000	4,749.71	.00	10,250.29	31.7%
1060028	5304 1065 OPERATIONAL SU	375,000	0	375,000	376,100.95	.00	-1,100.95	100.3%*
1060028	5305 SMALL EQUIPMT/TOOL	1,000	0	1,000	148.25	.00	851.75	14.8%
1060028	5410 LAB ANALYSIS	15,000	0	15,000	16,948.23	.00	-1,948.23	113.0%*
1060028	5501 EQUIPMENT MAINTENA	125,000	0	125,000	87,156.60	.00	37,843.40	69.7%
1060028	5602 1064 POWER	200,000	0	200,000	139,949.75	.00	60,050.25	70.0%
1060028	5605 CTWA REIMBURSE	65,000	0	65,000	41,122.02	.00	23,877.98	63.3%
TOTAL WWTP - BENEFICIAL REUSE		848,408	0	848,408	701,793.68	.00	146,614.32	82.7%
1060029 WWTP - DEWATERING								
1060029	5001 SUPERVISOR LABOR	37,815	0	37,815	23,873.88	.00	13,941.12	63.1%
1060029	5002 REGULAR LABOR	134,339	0	134,339	83,108.32	.00	51,230.68	61.9%
1060029	5003 OVERTIME LABOR	2,000	0	2,000	2,018.08	.00	-18.08	100.9%*
1060029	5004 SHIFT LABOR	0	0	0	8.88	.00	-8.88	100.0%*
1060029	5006 VACATION	0	0	0	7,099.68	.00	-7,099.68	100.0%*
1060029	5007 SICK	0	0	0	2,710.10	.00	-2,710.10	100.0%*
1060029	5008 PERSONAL	0	0	0	1,030.42	.00	-1,030.42	100.0%*
1060029	5009 JURY/CIVIL/VOLUNTE	0	0	0	510.94	.00	-510.94	100.0%*
1060029	5010 HOLIDAY	0	0	0	3,277.82	.00	-3,277.82	100.0%*
1060029	5101 FICA EXPENSE	10,674	0	10,674	7,745.14	.00	2,928.86	72.6%
1060029	5102 MEDICARE EXPENSE	2,496	0	2,496	1,811.40	.00	684.60	72.6%
1060029	5202 GROUP HEALTH INSUR	24,956	0	24,956	28,512.36	.00	-3,556.36	114.3%*
1060029	5203 PENSION (401) UAJA	10,498	0	10,498	7,351.64	.00	3,146.36	70.0%
1060029	5304 OPERATIONAL SUPPLI	500	0	500	139.49	.00	360.51	27.9%
1060029	5304 1036 POLYMER	55,000	0	55,000	39,420.00	.00	15,580.00	71.7%
1060029	5501 EQUIPMENT MAINTENA	125,000	0	125,000	8,595.40	.00	116,404.60	6.9%
1060029	5602 1042 POWER-DEWATERI	73,000	0	73,000	63,613.53	.00	9,386.47	87.1%
TOTAL WWTP - DEWATERING		476,278	0	476,278	280,827.08	.00	195,450.92	59.0%

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1060030 WWTP - COMPOST								
1060030	5001	SUPERVISOR LABOR	37,815	0	37,815	23,873.88	.00	13,941.12 63.1%
1060030	5002	REGULAR LABOR	258,231	0	258,231	159,722.25	.00	98,508.75 61.9%
1060030	5003	OVERTIME LABOR	10,000	0	10,000	18,447.51	.00	-8,447.51 184.5%*
1060030	5006	VACATION	0	0	0	18,519.58	.00	-18,519.58 100.0%*
1060030	5007	SICK	0	0	0	2,985.42	.00	-2,985.42 100.0%*
1060030	5008	PERSONAL	0	0	0	986.84	.00	-986.84 100.0%*
1060030	5010	HOLIDAY	0	0	0	7,239.37	.00	-7,239.37 100.0%*
1060030	5101	FICA EXPENSE	18,355	0	18,355	14,672.32	.00	3,682.68 79.9%
1060030	5102	MEDICARE EXPENSE	4,293	0	4,293	3,431.46	.00	861.54 79.9%
1060030	5202	GROUP HEALTH INSUR	82,230	0	82,230	35,766.25	.00	46,463.75 43.5%
1060030	5203	PENSION (401) UAJA	16,693	0	16,693	11,778.55	.00	4,914.45 70.6%
1060030	5304	OPERATIONAL SUPPLI	2,000	0	2,000	343.55	.00	1,656.45 17.2%
1060030	5304	1038 COMPOST AMEND	120,000	0	120,000	75,265.00	.00	44,735.00 62.7%
1060030	5305	SMALL EQUIPMT/TOOL	2,500	0	2,500	470.24	.00	2,029.76 18.8%
1060030	5409	LICENSE & FEES	5,500	0	5,500	6,217.62	.00	-717.62 113.0%*
1060030	5410	LAB ANALYSIS	11,500	0	11,500	6,371.00	.00	5,129.00 55.4%
1060030	5413	MARKETING	500	0	500	.00	.00	500.00 .0%
1060030	5415	VECTOR CONTROL	4,887	0	4,887	4,886.50	.00	.50 100.0%
1060030	5501	EQUIPMENT MAINTENA	50,000	0	50,000	24,752.22	.00	25,247.78 49.5%
1060030	5506	1032 SKID STEER 184	5,000	0	5,000	2,443.65	.00	2,556.35 48.9%
1060030	5506	1033 FRONT END LOAD	10,000	0	10,000	3,628.12	.00	6,371.88 36.3%
1060030	5506	1055 STREET SWEEPER	4,000	0	4,000	4,129.99	.00	-129.99 103.2%*
1060030	5506	1062 CAT SKID STEER	7,500	0	7,500	13,705.46	.00	-6,205.46 182.7%*
1060030	5506	1071 LOADER MAINT 6	10,000	0	10,000	4,010.13	.00	5,989.87 40.1%
1060030	5506	1072 TROMMEL	5,000	0	5,000	7,867.33	.00	-2,867.33 157.3%*
1060030	5602	1041 POWER-COMPOST	131,000	0	131,000	114,504.33	.00	16,495.67 87.4%
1060030	5603	1007 NATURAL GAS -	120,000	0	120,000	127,691.02	.00	-7,691.02 106.4%*
TOTAL WWTP - COMPOST		917,004	0	917,004	693,709.59	.00	223,294.41	75.6%
1060032 TREATMENT PLANT OPERATION								
1060032	5001	SUPERVISOR LABOR	37,815	0	37,815	23,873.88	.00	13,941.12 63.1%
1060032	5002	REGULAR LABOR	623,915	0	623,915	391,208.75	.00	232,706.25 62.7%
1060032	5003	OVERTIME LABOR	60,000	0	60,000	46,712.40	.00	13,287.60 77.9%
1060032	5004	SHIFT LABOR	12,000	0	12,000	8,278.71	.00	3,721.29 69.0%
1060032	5006	VACATION	0	0	0	23,563.27	.00	-23,563.27 100.0%*
1060032	5007	SICK	0	0	0	17,396.08	.00	-17,396.08 100.0%*

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1060032 5008 PERSONAL DAY	0	0	0	6,221.20	.00	-6,221.20	100.0%*
1060032 5009 JURY/CIVIL/VOLUNTE	0	0	0	480.49	.00	-480.49	100.0%*
1060032 5010 HOLIDAY	0	0	0	16,437.65	.00	-16,437.65	100.0%*
1060032 5101 FICA EXPENSE	41,027	0	41,027	33,356.32	.00	7,670.68	81.3%
1060032 5102 MEDICARE EXPENSE	9,595	0	9,595	7,801.06	.00	1,793.94	81.3%
1060032 5202 GROUP HEALTH INSUR	174,552	0	174,552	153,663.87	.00	20,888.13	88.0%
1060032 5203 PENSION (401) UAJA	34,977	0	34,977	21,412.90	.00	13,564.10	61.2%
1060032 5304 OPERATION SUPPLIES	500	0	500	313.13	.00	186.87	62.6%
1060032 5304 1034 ALUM	200,000	0	200,000	154,540.60	.00	45,459.40	77.3%
1060032 5304 1070 CARBON SUPPLEM	225,000	0	225,000	171,912.36	.00	53,087.64	76.4%
1060032 5405 1053 STREAM MONITOR	14,250	0	14,250	14,250.00	.00	.00	100.0%
1060032 5409 LICENSE & FEES	9,000	0	9,000	6,102.04	.00	2,897.96	67.8%
1060032 5410 ANALYSIS	10,000	0	10,000	23,453.66	.00	-13,453.66	234.5%*
1060032 5499 MISCELLANEOUS OUTS	40,000	0	40,000	33,788.50	.00	6,211.50	84.5%
1060032 5602 1043 POWER-PLANT	404,000	0	404,000	375,380.56	.00	28,619.44	92.9%
TOTAL TREATMENT PLANT OPERATION	1,896,631	0	1,896,631	1,530,147.43	.00	366,483.57	80.7%
1070021 COLLECTION-MAINTENANCE							
1070021 5001 SUPERVISOR LABOR	133,058	0	133,058	86,763.64	.00	46,294.36	65.2%
1070021 5002 REGULAR LABOR	1,008,605	0	1,008,605	234,336.65	.00	774,268.35	23.2%
1070021 5002 6172 REGULAR LABOR	0	0	0	59,997.39	.00	-59,997.39	100.0%*
1070021 5002 6262 WATERLINE PH 2	0	0	0	79,710.01	.00	-79,710.01	100.0%*
1070021 5002 6271 REGULAR LABOR	0	0	0	134,055.96	.00	-134,055.96	100.0%*
1070021 5002 6272 REGULAR LABOR	0	0	0	13,022.39	.00	-13,022.39	100.0%*
1070021 5002 6300 REGULAR LABOR	0	0	0	38,160.54	.00	-38,160.54	100.0%*
1070021 5002 6315 REGULAR LABOR	0	0	0	24,127.50	.00	-24,127.50	100.0%*
1070021 5002 B5001 REGULAR LABOR	0	0	0	64.05	.00	-64.05	100.0%*
1070021 5002 B5002 REGULAR LABOR	0	0	0	6,052.01	.00	-6,052.01	100.0%*
1070021 5002 B5003 REGULAR LABOR	0	0	0	6,011.75	.00	-6,011.75	100.0%*
1070021 5002 B5004 REGULAR LABOR	0	0	0	5,540.42	.00	-5,540.42	100.0%*
1070021 5002 B5472 REGULAR LABOR	0	0	0	1,001.39	.00	-1,001.39	100.0%*
1070021 5003 OVERTIME LABOR	15,000	0	15,000	16,113.55	.00	-1,113.55	107.4%*
1070021 5006 VACATION	0	0	0	39,835.91	.00	-39,835.91	100.0%*
1070021 5007 SICK	0	0	0	32,314.17	.00	-32,314.17	100.0%*
1070021 5008 PERSONAL	0	0	0	7,089.79	.00	-7,089.79	100.0%*
1070021 5009 JURY/CIVIL/VOLUNTE	0	0	0	697.47	.00	-697.47	100.0%*
1070021 5010 HOLIDAY	0	0	0	33,778.25	.00	-33,778.25	100.0%*
1070021 5101 FICA EXPENSE	70,803	0	70,803	47,446.50	.00	23,356.50	67.0%
1070021 5101 6172 FICA EXPENSE	0	0	0	3,719.82	.00	-3,719.82	100.0%*
1070021 5101 B5001 FICA-O & M MA	0	0	0	3.97	.00	-3.97	100.0%*

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UNIVERSITY AREA JOINT AUTHORITY - LIVE
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FOR 2021 09

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1070021 5102 MEDICARE EXPENSE	16,554	0	16,554	11,096.31	.00	5,457.69	67.0%
1070021 5102 6172 MEDICARE EXPEN	0	0	0	870.15	.00	-870.15	100.0%*
1070021 5102 B5001 MEDICARE-O &	0	0	0	.93	.00	-.93	100.0%*
1070021 5202 GROUP HEALTH INSUR	332,465	0	332,465	248,200.83	.00	84,264.17	74.7%
1070021 5202 6172 GROUP HEALTH I	0	0	0	22,911.84	.00	-22,911.84	100.0%*
1070021 5202 B5001 GRP HEALTH IN	0	0	0	20.92	.00	-20.92	100.0%*
1070021 5203 PENSION (401) UAJA	63,736	0	63,736	38,873.23	.00	24,862.77	61.0%
1070021 5203 6172 PENSION (401)	0	0	0	2,621.72	.00	-2,621.72	100.0%*
1070021 5203 B5001 PENSION-O&M M	0	0	0	3.20	.00	-3.20	100.0%*
1070021 5305 SMALL EQUIPMT/TOOL	13,000	0	13,000	4,862.37	.00	8,137.63	37.4%
1070021 5504 SEWER LINE MAINTEN	90,000	0	90,000	83,314.55	.00	6,685.45	92.6%
1070021 ER01 RENTAL OF EQUIPMEN	1,000	0	1,000	.00	.00	1,000.00	.0%
1070021 ER14 RENTAL LOWBOY	3,500	0	3,500	4,649.30	.00	-1,149.30	132.8%*
1070021 PV01 TRENCH PAVING-CONT	10,000	0	10,000	.00	.00	10,000.00	.0%
TOTAL COLLECTION-MAINTENANCE	1,757,721	0	1,757,721	1,287,268.48	.00	470,452.52	73.2%
1070022 CONSTRUCT EQUIP MAINTENANCE							
1070022 5501 SMALL EQUIPMENT MA	5,000	0	5,000	4,558.73	.00	441.27	91.2%
1070022 5506 LG. CONSTRC. EQUIP	60,000	0	60,000	56,438.29	.00	3,561.71	94.1%
TOTAL CONSTRUCT EQUIP MAINTENANCE	65,000	0	65,000	60,997.02	.00	4,002.98	93.8%
1070034 COLLECTION-INSPECTION							
1070034 5001 SUPERVISOR LABOR	133,058	0	133,058	86,763.94	.00	46,294.06	65.2%
1070034 5002 REGULAR LABOR	208,723	0	208,723	116,929.27	.00	91,793.73	56.0%
1070034 5002 B5026 GRAYSWOODS	0	0	0	2,728.90	.00	-2,728.90	100.0%*
1070034 5002 B5342 REGULAR LABOR	0	0	0	706.43	.00	-706.43	100.0%*
1070034 5002 B5387 CANTERBURY CR	0	0	0	596.29	.00	-596.29	100.0%*
1070034 5002 B5466 HARNER FARM S	0	0	0	2,600.35	.00	-2,600.35	100.0%*
1070034 5002 B5468 REGULAR LABOR	0	0	0	2,398.83	.00	-2,398.83	100.0%*
1070034 5003 OVERTIME LABOR	11,000	0	11,000	7,327.44	.00	3,672.56	66.6%
1070034 5006 VACATION	0	0	0	7,918.55	.00	-7,918.55	100.0%*
1070034 5007 SICK	0	0	0	11,877.30	.00	-11,877.30	100.0%*
1070034 5008 PERSONAL	0	0	0	2,257.77	.00	-2,257.77	100.0%*
1070034 5009 JURY/CIVIL/VOLUNTE	0	0	0	883.76	.00	-883.76	100.0%*
1070034 5010 HOLIDAY	0	0	0	6,701.17	.00	-6,701.17	100.0%*
1070034 5101 FICA EXPENSE	21,190	0	21,190	15,639.94	.00	5,550.06	73.8%

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UNIVERSITY AREA JOINT AUTHORITY - LIVE
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FOR 2021 09

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1070034 5102 MEDICARE EXPENSE	4,956	0	4,956	3,657.84	.00	1,298.16	73.8%
1070034 5202 GROUP HEALTH INSUR	45,470	0	45,470	37,171.44	.00	8,298.56	81.7%
1070034 5203 PENSION (401) UAJA	23,742	0	23,742	16,611.87	.00	7,130.13	70.0%
1070034 5304 OPERATIONAL SUPPLI	1,600	0	1,600	2,313.19	.00	-713.19	144.6%*
1070034 5305 SMALL EQUIPMT/TOOL	500	0	500	30.20	.00	469.80	6.0%
1070034 5507 SEWER LINE INSPEC/	0	0	0	2,938.51	.00	-2,938.51	100.0%*
1070034 5507 B5026 GRAYSWOODS	0	0	0	2,631.50	.00	-2,631.50	100.0%*
1070034 5507 B5342 HAWK RIDGE	0	0	0	910.00	.00	-910.00	100.0%*
1070034 5507 B5353 INSPECTION EN	0	0	0	905.55	.00	-905.55	100.0%*
1070034 5507 B5387 CANTERBURY CR	0	0	0	1,053.06	.00	-1,053.06	100.0%*
1070034 5507 B5457 GRACE HILLS C	0	0	0	561.00	.00	-561.00	100.0%*
1070034 5507 B5466 INSPECTION EN	0	0	0	3,112.50	.00	-3,112.50	100.0%*
1070034 5507 B5468 INSPECTION EN	0	0	0	783.06	.00	-783.06	100.0%*
1070034 5507 B5473 INSPECTION EN	0	0	0	1,764.78	.00	-1,764.78	100.0%*
1070034 5507 B5474 INSPECTION EN	0	0	0	973.06	.00	-973.06	100.0%*
TOTAL COLLECTION-INSPECTION	450,239	0	450,239	340,747.50	.00	109,491.50	75.7%
1070036 COLLECTION-PUMP STATION							
1070036 5305 SMALL EQUIPMT/TOOL	1,000	0	1,000	243.31	.00	756.69	24.3%
1070036 5501 EQUIPMENT MAINTENA	22,000	0	22,000	130.41	.00	21,869.59	.6%
1070036 5505 O & M PUMP STATION	70,000	0	70,000	40,752.96	.00	29,247.04	58.2%
1070036 5505 B5002 O & M CLASTER	200	0	200	137.84	.00	62.16	68.9%
1070036 5505 B5003 O & M NORTH M	200	0	200	.00	.00	200.00	.0%
1070036 5505 B5004 O & M SOUTH M	200	0	200	137.84	.00	62.16	68.9%
1070036 5602 POWER	62,000	0	62,000	38,731.58	.00	23,268.42	62.5%
1070036 5602 B5002 POWER-CLASTER	500	0	500	77.79	.00	422.21	15.6%
1070036 5602 B5004 POWER-SOUTH M	500	0	500	299.64	.00	200.36	59.9%
1070036 5603 PUMP STATION PROPA	1,000	0	1,000	802.40	.00	197.60	80.2%
TOTAL COLLECTION-PUMP STATION	157,600	0	157,600	81,313.77	.00	76,286.23	51.6%
TOTAL OPERATING FUND	20,087,346	0	20,087,346	4,883,377.33	.00	15,203,969.04	24.3%
TOTAL REVENUES	-16,652,265	0	-16,652,265	-8,155,220.13	.00	-8,497,044.55	
TOTAL EXPENSES	36,739,611	0	36,739,611	13,038,597.46	.00	23,701,013.59	



To: UAJA Board
 From: Jason Brown
 Re: Financial Report - End of September 2021

Cash Accounts

General Checking	\$86,712.30
Payroll Checking	\$6,384.25
PLIGIT Checking	\$1,521.32
Petty Cash	\$87.12

Revenue Fund Accounts

Revenue Sweep	\$22,379.23
Revenue Trustee	\$2,426,424.38

Savings Accounts

PLIGIT Plus	\$8,486.93
93 BRIF	\$2,642,583.53
Emmaus BRIF	\$217,099.00

TOTAL LIQUID ASSETS

\$5,411,678.06

Dedicated Accounts

2015 DSF	\$3,978.00
2016 DSF	\$0.00
2017 DSF	\$194,723.61
2017A DSF	\$570,804.73
2017 B & C DSF	\$3,197,536.85
2018 DSF	\$208,512.61
2020 DSF	\$159,001.42
2020A DSF	\$95,450.88
2021 DSF	\$132,750.34
2021A DSF	\$430,064.35
2020A Construction Fund	\$8,199,980.65
2021 Construction Fund	\$8,818,839.46
2020A Capitalized Interest Fund	\$258,787.78
2021 Capitalized Interest Fund	320.087.08

TOTAL DEDICATED ASSETS

\$22,270,430.68

Restricted Accounts

93 Oper. Expense Reserve	\$308,168.66
93 Debt Service Reserve	\$6,676,884.34

\$6,985,053.00

Receivables Outstanding (2nd quarter 2021)

UAJA Sewer	\$42,207.51
UAJA Surcharge	\$0.00
Borough Sewer	\$0.00
PGM Sewer	\$7,162.40
PSU Sewer	\$0.00

TOTAL OUTSTANDING



COMPOST & SEPTAGE OPERATIONS REPORT

September, 2021

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.



SUPERINTENDENT'S REPORT

October 12, 2021

Arthur G. Brant

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-21	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.
- Relaced 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.



UNIVERSITY AREA JOINT AUTHORITY

1576 Spring Valley Road
State College, PA 16801

COLLECTION SYSTEM SUPERINTENDENT'S REPORT

Activities for the month of September 2021

Mark Harter, 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

ENGINEER'S REPORT

University Area Joint Authority

October 20, 2021

The following summarizes our recent services performed on behalf of the University Area Joint Authority (Authority):

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 and conducted a Spadefoot Toad habitat assessment and prepared a draft report. It was concluded that potential breeding habitat for the species. The 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 (eg. 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.

Scott 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).

Respectfully Submitted,

HERBERT, ROWLAND & GRUBIC, INC.

A handwritten signature in blue ink, appearing to read 'B. Burns', with a stylized flourish at the end.

Benjamin R. Burns, P.E.

Team Leader | Water & Wastewater

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**University Area Joint Authority
Summation of Project Activities****October 2021**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.



EXECUTIVE DIRECTOR'S REPORT

October 20, 2021

ACTION ITEMS

3. Public Comment

3.1 Other items not on the agenda

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.

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.

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.

5.5 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 Whitehall Road Project	\$206.25
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	Site 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
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
Revenue Fund #181	Debt Service, Operation and Maintenance Expenses	\$1,000,000
TOTAL REVENUE FUND		\$1,000,000

6. Reports of Officers

7. Other Business

8. Adjournment

October 14, 2021

Mr. Cory Miller
University Area Joint Authority
1576 Spring Valley Road,
State College, Pennsylvania 16801

Re: Draft Sewer Rate Study Letter Report

Dear Mr. Miller:

As requested, Herbert, Rowland & Grubic, Inc. (HRG) evaluated University Area Joint Authority's (UAJA) cost of providing wastewater conveyance and treatment service to determine an appropriate charge per Equivalent Dwelling Unit (EDU) which recovers the cost of providing service. Similarly, we reviewed the Authority's definition of a flow-based EDU and determined the equivalent definition based upon 5 day Biological Oxygen Demand (BOD₅).

Summary

The Authority serves retail customers located in the Townships of Ferguson, Patton, College and Harris. These customers are billed for service on a quarterly basis as follows:

Quarterly Sewer Service Rate Schedule

General UAJA Service Area: \$104 per EDU

Pine Grove Mills Area: \$126.40 per EDU

Additionally, the Authority provides wholesale conveyance and treatment service to State College Borough which has historically been billed based upon metered flow. Service and associated charges to the Borough were governed by a Significant Users Agreement which expired in September 2020. With the expiration of the Agreement, there is a desire by the Authority to consider changing billing parameters to align with the EDU based structure used throughout UAJA's General Service Area. As such, HRG reviewed costs of providing conveyance and treatment service and determined an appropriate wholesale rate to be \$66 per EDU per quarter for Year 2022 service. Our analysis is further described below.

Analysis of Revenue Requirements

As part of the study, HRG reviewed budgeted and projected income and expenses for Years 2020 and 2021 and used this information to analyze costs over a prospective rate period from 2022 through 2026. This allowed us to determine rate requirements necessary to meet projected revenue needs over the next five (5) years. Expenses were generally increased by 3% per year to account for anticipated inflation over the five-year period of our analysis. Several improvements to the treatment facility are anticipated over the next five (5) years. The improvements are intended to derive additional revenue and lower operating expenses over the lifetime of the asset. These capital improvements in addition to resulting impacts to revenues and expenses were included in our projections. Refer to the attached *Table A1: Sewer System Projection of Operating Expenses* for a breakdown of anticipated expenses through Year 2026.

Allocation of Revenues and Expenditures to Functional Categories

In addition to customer rates, the Authority funds operations through charges and various other non-rate income. These revenue streams include surcharges, tapping fees, compost fees, maintenance fees, inspection fees, interest income, penalties for late payment, and the like. HRG reviewed the Authority's estimated annual revenue for 2021 and allocated the various line-item categories between treatment/conveyance, collection and administration/general, based upon the services for which the revenues were derived. For example, compost fees are directly linked to wastewater treatment services, therefore, revenue received from compost fees was allocated to the treatment/conveyance category. Allocating revenues in this manner resulted in roughly \$1.7M of non-rate revenue being allocated to treatment/conveyance, \$330,000 allocated to collection and \$200,000 allocated to administration/general. When comparing treatment/conveyance revenue to collection revenues, approximately 84% of revenues is derived from treatment services and 16% is derived from collection service. The \$200,000 in administration/general revenues were then allocated between treatment/conveyance and collection using the same 84%/16% split. This resulted in total treatment/conveyance non-rate revenue of approximately \$1.9M and collection non-rate revenue of approximately \$360,000. Refer to the attached *Table A2: Sewer System - Allocation of Non-Rate Revenue to Functional Categories* for additional detail.

Similarly, the Authority's 2022 estimated annual expenditures were allocated to treatment/conveyance, collection and administration/general, based upon the cost causative parameters of each line-item expense. For instance, debt service costs were allocated between treatment/conveyance and collection based upon the specific assets that were installed or rehabilitated using funds from each bond issue. Allocating expenditure line items in this manner resulted in roughly \$12.5M in cost allocated to treatment/conveyance, \$2.6M allocated to collection and \$1.8M allocated to administration/general. When comparing treatment/conveyance revenue to collection expenditures, approximately 83% of revenues are derived from treatment services and 17% are derived from collection service. The \$1.8M in administration/general expenditures were then allocated between treatment/conveyance and collection using the same 83%/17% split. This resulted in total treatment/conveyance expenditures of approximately \$13.9M and collection expenditures of approximately \$2.9. Refer to attached *Table A3: Sewer System - Allocation of Expenses to Functional Categories* for calculations outlining this allocation.

Billing Units

UAJA provided billing data establishing the following EDU counts for retail customers:

RETAIL CUSTOMERS	
Customer Location	2021 Number of EDUs
Patton Township	7,853
College Township	6,763
Ferguson Township	8,928
Harris Township	2,527
Total	26,071

Authority staff considered customers located in State College Borough including number of connections, customer types and average water consumption. Based upon this information, it is estimated that approximately 16,419 wholesale EDUs are served within the Borough.

Wholesale EDU estimates were then compared to information provided in Year 2020 Chapter 94 Wasteload Management Reports from both the Authority and the Borough. UAJA's 2020 Chapter 94 Wasteload Management Report reviewed flows received at the plant from 2016-2020 to establish a flow per EDU of 129 gallons per day (GPD). Similarly, wastewater flows from State College Borough, as reported by the Borough's 2020 Chapter 94 Wasteload Management Report are anticipated to be 2.2 million gallons per day in 2022. Dividing total flows by 16,419 EDUs results in a flow per EDU of 134 gpd/EDU. This number is similar to UAJA's flow per EDU of 129 gpd/EDU and is, therefore, considered appropriate for use in this rate calculation. The Borough's flow per EDU may be slightly higher due to infiltration and inflow in their collection system.

Wholesale Rate Calculation

To derive the necessary wholesale revenue from rates, treatment/conveyance non-rate revenue was subtracted from the expense attributed to treatment/conveyance to arrive at a total revenue needed from the wholesale rate. Considering reductions for delinquencies, this results in a Year 2022 revenue need of \$11.4M. Dividing the rate revenue need by the total number of EDUs sending flow to the plant (42,490 EDUs) results in a wholesale rate of \$67.12/EDU/quarter for Year 2022 service. Over the period of our analysis (2022-2026), the average wholesale rate necessary to recover cost of service is \$66/EDU/quarter. Refer to *Table B1: Rate Calculation* for additional detail.

EDU Definition based upon BOD₅

Currently, the Authority defines an EDU on a volumetric flow basis. As requested by the Authority, HRG considered additional parameters to measure the amount of service provided to the average residential customer, including 5-day Biological Oxygen Demand (BOD₅). The Authority's average historic BOD₅ loading for Years 2016 – 2020 was 0.3432 lb/day/EDU, as identified in its Year 2020 Chapter 94 Wasteload Management Report. This is slightly less than the industry standard of 0.41 lbs/day/EDU when considering Year 2019 average capita per household in communities served by the Authority. The Authority may wish to further consider assigning EDUs to customers based upon the BOD₅ concentration of their wastewater discharge. Refer to *Table B2: BOD Based EDU Calculation* for additional detail.

Recommendations

If the Authority proceeds with billing wholesale customers on a per EDU basis for Year 2022, we recommend for a charge of \$66/EDU/quarter to be established. Based upon our projections, we believe this rate will recover the cost of conveyance and treatment service over the next several years. It is suggested for the Authority to monitor revenues and expenses over that period of time and incorporate additional rate increases, if necessary.

Mr. Cory Miller
University Area Joint Authority
October 14, 2021
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Similarly, if the Authority chooses to amend its definition of an EDU to allow for calculation to be based upon BOD₅ discharge concentration, in addition to flow volume, we suggest for 0.34 lb BOD₅/day to be used to define an EDU.

Respectfully,

HERBERT, ROWLAND & GRUBIC, INC.



Adrienne M. Vicari, P.E.
Practice Area Leader | Financial Services

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Attachments

Sewer System Rate Study

TABLE A1: Sewer System Projection of Operating Expenses

	2020 Budget	2020 Projected	2021 Adopted	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected
Administration								
Supervisor Labor	\$263,347	\$263,347	\$256,417	\$264,110	\$272,033	\$280,194	\$288,600	\$297,258
Regular Labor	442,013	442,013	355,201	365,857	376,833	388,138	399,782	411,775
Vac,Sick,Etc.	included in above	71,991	included in above	-	-	-	-	-
FICA	43,733	35,698	37,920	3,500	3,605	3,713	3,825	3,939
Medicare	10,228	8,349	8,868	2,400	2,472	2,546	2,623	2,701
UC Tax	19,000	22,428	23,000	23,690	24,401	25,133	25,887	26,663
Group Health	118,743	140,600	154,661	2,000	2,060	2,122	2,185	2,251
Health Deductible	175,000	116,977	175,000	180,250	185,658	191,227	196,964	202,873
Pension	70,536	56,304	86,804	89,408	92,090	94,853	97,699	100,630
Retiree Cobra	6,300	8,586	10,000	10,300	10,609	10,927	11,255	11,593
Life Insurance	63,500	66,586	80,400	82,812	85,296	87,855	90,491	93,206
Office Supplies	15,000	14,524	15,000	15,450	15,914	16,391	16,883	17,389
Postage/Shipping	30,000	28,431	30,000	30,900	31,827	32,782	33,765	34,778
Janitorial	7,000	5,959	7,000	7,210	7,426	7,649	7,879	8,115
Petty Cash	200	114	200	206	212	219	225	232
Advertising	3,000	3,726	3,000	3,090	3,183	3,278	3,377	3,478
Audit	22,000	22,223	23,000	23,690	24,401	25,133	25,887	26,663
Maylie Property	3,000	6,865	-	-	-	-	-	-
Retainer-Eng.	15,000	25,062	20,000	20,600	21,218	21,855	22,510	23,185
Legal	25,000	96,420	60,000	63,000	66,150	69,458	72,930	76,577
Insurance-Property	253,000	261,780	280,000	288,400	297,052	305,964	315,142	324,597
Outside Services	15,000	2,586	15,000	15,450	15,914	16,391	16,883	17,389
O&M Copiers	8,850	11,723	5,000	5,150	5,305	5,464	5,628	5,796
Communication	40,000	32,336	40,000	41,200	42,436	43,709	45,020	46,371
Training,Sem, Trav.	5,000	1,575	5,000	5,150	5,305	5,464	5,628	5,796
Memberships	6,500	6,203	6,500	6,695	6,896	7,103	7,316	7,535
Uniforms	18,000	13,598	18,000	18,540	19,096	19,669	20,259	20,867
Vaccinations	3,000	125	1,500	1,545	1,591	1,639	1,688	1,739
Recruiting	100	-	-	-	-	-	-	-
Employee Relations	1,000	2,270	2,500	2,575	2,652	2,732	2,814	2,898
Meal Allowance	500	21	500	515	530	546	563	580
Safety Equipment	7,500	7,186	8,000	8,240	8,487	8,742	9,004	9,274
Safety Training	3,000	-	3,000	3,090	3,183	3,278	3,377	3,478
Drug/Alcohol Testing	500	479	500	515	530	546	563	580
Flow Boro	-	-	-	-	-	-	-	-
Bank Fees	100	-	-	-	-	-	-	-
Bad Debt	100	-	-	-	-	-	-	-
Water- CTWA	5,000	5,521	6,000	6,180	6,365	6,556	6,753	6,956
Garbage	10,000	9,889	10,000	10,300	10,609	10,927	11,255	11,593
CNET	8,570	8,570	8,656	8,916	9,183	9,459	9,742	10,035
Misc. Expense	1,000	-	1,000	1,030	1,061	1,093	1,126	1,159
G & A Information Technology								
Internet Service	5,000	4,514	5,000	5,150	5,305	5,464	5,628	5,796
Hardware	5,000	10,364	18,365	18,916	19,483	20,068	20,670	21,290
Software	60,000	50,101	69,900	71,997	74,157	76,382	78,673	81,033
Training	1,000	-	1,000	1,030	1,061	1,093	1,126	1,159
G & A Fleet/Fuel								
Gen. Vehicle Maint.	45,000	50,698	75,000	77,250	79,568	81,955	84,413	86,946
Gasoline	49,500	23,932	35,000	36,050	37,132	38,245	39,393	40,575
Diesel Fuel	66,000	7,487	87,000	89,610	92,298	95,067	97,919	100,857
Administration Expenses Subtotal	\$1,950,820	\$1,947,160	\$2,048,892	\$1,911,966	\$1,970,585	\$2,031,026	\$2,093,346	\$2,157,605

	2020	2020	2021	2022	2023	2024	2025	2026
	Budget	Projected	Adopted	Projected	Projected	Projected	Projected	Projected
Collection Maintenance Expense								
Supervisor Labor	130,130	130,130	133,058	137,050	141,161	145,396	149,758	154,251
Regular Labor	973,383	973,383	1,008,605	1,038,863	1,070,029	1,102,130	1,135,194	1,169,250
Vac., Sick, Etc.	included in above	121,325	included in above	-	-	-	-	-
Overtime	15,000	15,992	15,000	15,450	15,914	16,391	16,883	17,389
FICA	68,418	64,917	70,803	72,927	75,115	77,368	79,689	82,080
Medicare	16,001	16,001	16,554	17,051	17,562	18,089	18,632	19,191
Group Health	287,396	302,241	332,465	342,439	352,712	363,293	374,192	385,418
Pension	61,682	61,682	63,736	65,648	67,618	69,646	71,735	73,887
Small Eq./Tools	16,000	6,591	13,000	13,390	13,792	14,205	14,632	15,071
Sewer Line Maint.	120,000	68,065	90,000	92,700	95,481	98,345	101,296	104,335
Rental Equip.	1,000	732	1,000	1,030	1,061	1,093	1,126	1,159
Rental Lowboy	2,500	3,533	3,500	3,605	3,713	3,825	3,939	4,057
Patch Paving Contract	20,000	-	10,000	10,300	10,609	10,927	11,255	11,593
Construction Maintenance Expense								
Small Equipment Maint.	5,500	2,295	5,000	5,150	5,305	5,464	5,628	5,796
Large Equipment Maint.	40,000	59,732	60,000	60,000	60,000	60,000	60,000	60,000
<i>Collection Expense Subtotal</i>	<i>\$1,757,010</i>	<i>\$1,826,619</i>	<i>\$1,822,721</i>	<i>\$1,875,603</i>	<i>\$1,930,071</i>	<i>\$1,986,173</i>	<i>\$2,043,958</i>	<i>\$2,103,477</i>
Treatment Plant Operation Expense								
Supervisor Labor	36,895	36,895	37,815	38,949	40,118	41,321	42,561	43,838
Regular Labor	627,336	627,336	623,915	642,632	661,911	681,769	702,222	723,288
Vac, Sick, Etc.	included in above	162,150	included in above	-	-	-	-	-
Overtime	60,000	47,695	60,000	61,800	63,654	65,564	67,531	69,556
Shift Labor	12,000	11,688	12,000	12,360	12,731	13,113	13,506	13,911
FICA	45,646	42,985	41,027	42,258	43,526	44,831	46,176	47,562
Medicare	10,675	10,675	9,595	9,883	10,179	10,485	10,799	11,123
Group Health	145,634	158,683	174,552	179,789	185,182	190,738	196,460	202,354
Pension	35,057	35,057	34,977	36,026	37,107	38,220	39,367	40,548
Supplies	500	(80)	500	515	530	546	563	580
Alum	160,000	226,426	200,000	206,000	212,180	218,545	225,102	231,855
Carbon Supplement	225,000	196,304	225,000	231,750	238,703	245,864	253,239	260,837
Stream Monitoring	14,250	14,250	14,250	14,678	15,118	15,571	16,039	16,520
Licns/Fees	9,000	6,517	9,000	9,270	9,548	9,835	10,130	10,433
Analysis	10,000	21,236	10,000	10,300	10,609	10,927	11,255	11,593
Misc. Outside Serv.	40,000	40,865	40,000	41,200	42,436	43,709	45,020	46,371
Power	364,773	352,909	404,000	416,120	428,604	441,462	454,706	468,347
Reduction in Op Ex Due to Capital Imp	-	-	-	(149,700)	(289,525)	(784,123)	(807,647)	(831,876)
<i>Operating Expenses Subtotal</i>	<i>\$1,796,766</i>	<i>\$1,991,592</i>	<i>\$1,896,631</i>	<i>\$1,803,830</i>	<i>\$1,722,611</i>	<i>\$1,288,377</i>	<i>\$1,327,028</i>	<i>\$1,366,839</i>
Main Station								
Labor - Main St.	Included In Maint.	89	Included In Maint.	-	-	-	-	-
OT - Main St.	Included In Maint.	20,885	Included In Maint.	-	-	-	-	-
FICA - Main St.	Included In Maint.	1,300	Included In Maint.	-	-	-	-	-
Medicare - Main St.	Included In Maint.	304	Included In Maint.	-	-	-	-	-
Group Health - Main St.	Included In Maint.	3,076	Included In Maint.	-	-	-	-	-
Pension - Main St.	Included In Maint.	1,039	Included In Maint.	-	-	-	-	-
O&M - Main St.	7,500	36,116	50,000	51,500	53,045	54,636	56,275	57,964
Power - Main St.	39,317	15,819	39,000	40,170	41,375	42,616	43,895	45,212
<i>Main Station Subtotal</i>	<i>46,817</i>	<i>78,628</i>	<i>89,000</i>	<i>\$91,670</i>	<i>\$94,420</i>	<i>\$97,253</i>	<i>\$100,170</i>	<i>\$103,175</i>
Beneficial Reuse Expense								
Supervior Labor	36,895	36,895	37,815	38,949	40,118	41,321	42,561	43,838
Vac, Sick, Etc.	included in above	1,949	included in above	-	-	-	-	-
FICA	2,287	2,287	2,345	2,415	2,488	2,562	2,639	2,718
Medicare	535	535	548	564	581	599	617	635
Group Health	5,398	7,198	7,918	8,156	8,400	8,652	8,912	9,179
Pension	3,690	3,690	3,782	3,895	4,012	4,133	4,257	4,384
Operational Supplies	15,000	21,381	15,000	15,450	15,914	16,391	16,883	17,389
Small Eq/Tools	1,000	-	1,000	1,030	1,061	1,093	1,126	1,159
Op. Sup. - Chemicals	325,000	372,646	375,000	386,250	397,838	409,773	422,066	434,728
Lab Analysis	15,000	10,785	15,000	15,450	15,914	16,391	16,883	17,389
Equip. Maintenance	125,000	129,271	125,000	128,750	132,613	136,591	140,689	144,909
Power	200,625	155,280	200,000	206,000	212,180	218,545	225,102	231,855
CTWA reimbursement	65,000	56,506	65,000	66,950	68,959	71,027	73,158	75,353
<i>Beneficial Reuse Expense Subtotal</i>	<i>795,430</i>	<i>798,423</i>	<i>848,408</i>	<i>\$873,860</i>	<i>\$900,076</i>	<i>\$927,078</i>	<i>\$954,891</i>	<i>\$983,537</i>

	2020	2020	2021	2022	2023	2024	2025	2026
	Budget	Projected	Adopted	Projected	Projected	Projected	Projected	Projected
Industrial Pretreatment Program Expense (IPP)								
Supervisor Labor	79,088	79,088	81,347	83,787	86,301	88,890	91,557	94,303
Vac, Sick, Etc.	included in above	1,949	included in above	-	-	-	-	-
FICA	4,903	4,903	5,044	5,195	5,351	5,512	5,677	5,847
Medicare	1,147	1,147	1,180	1,215	1,252	1,289	1,328	1,368
Group Health	14,740	15,602	17,162	17,677	18,207	18,753	19,316	19,895
Pension	7,909	7,909	8,135	8,379	8,630	8,889	9,156	9,431
Small Eq/Tools	200	-	150	155	159	164	169	174
Analysis	3,500	-	3,500	3,605	3,713	3,825	3,939	4,057
Eq. Maintenance	500	-	500	515	530	546	563	580
<i>IPP Expense Subtotal</i>	<i>\$111,987</i>	<i>\$110,598</i>	<i>\$117,018</i>	<i>\$120,529</i>	<i>\$124,144</i>	<i>\$127,869</i>	<i>\$131,705</i>	<i>\$135,656</i>
Compost Expense								
Supervisor Labor	36,895	36,895	37,815	38,949	40,118	41,321	42,561	43,838
Regular Labor	256,590	256,590	258,231	265,978	273,957	282,176	290,641	299,361
Vac,Sick,Etc	included in above	106,724	included in above	-	-	-	-	-
Overtime	7,500	27,159	10,000	10,300	10,609	10,927	11,255	11,593
FICA	18,661	18,661	18,355	18,906	19,473	20,057	20,659	21,278
Medicare	4,365	4,365	4,293	4,422	4,554	4,691	4,832	4,977
Group Health	63,102	75,644	82,230	84,697	87,238	89,855	92,551	95,327
Pension	16,519	16,519	16,693	17,194	17,710	18,241	18,788	19,352
Supplies	1,000	1,728	2,000	2,060	2,122	2,185	2,251	2,319
Compost Amendment	120,000	105,344	120,000	123,600	127,308	131,127	135,061	139,113
Small Eq/Tools	2,500	1,148	2,500	2,575	2,652	2,732	2,814	2,898
Licns/Fees	5,500	4,783	5,500	5,665	5,835	6,010	6,190	6,376
Analysis	11,500	4,038	11,500	11,845	12,200	12,566	12,943	13,332
Marketing	1,000	-	500	515	530	546	563	580
Eq. Maintenance	50,000	12,270	50,000	51,500	53,045	54,636	56,275	57,964
Old Skid Steerer	5,000	5,515	5,000	5,150	5,305	5,464	5,628	5,796
Loader Maint.621G	-	-	10,000	10,300	10,609	10,927	11,255	11,593
Loader Maint.621E	10,000	413	10,000	10,300	10,609	10,927	11,255	11,593
Sweeper Maint.	4,000	1,424	4,000	4,120	4,244	4,371	4,502	4,637
Trommel Maint.	7,000	2,820	5,000	5,150	5,305	5,464	5,628	5,796
New Skid Steerer	5,000	5,397	7,500	7,725	7,957	8,195	8,441	8,695
Power	131,319	127,047	131,000	134,930	138,978	143,147	147,442	151,865
Propane/Natual Gas	120,000	119,911	120,000	123,600	127,308	131,127	135,061	139,113
Vector Control	5,843	5,843	4,887	5,034	5,185	5,340	5,500	5,665
<i>Compost Expense Subtotal</i>	<i>\$883,294</i>	<i>\$940,236</i>	<i>\$917,004</i>	<i>\$944,514</i>	<i>\$972,850</i>	<i>\$1,002,035</i>	<i>\$1,032,096</i>	<i>\$1,063,059</i>
Collection Maintenance Expenditure								
Meeks Lane Eng	1	35,000	24,472	15,000	15,450	15,914	16,391	16,883
Shiloh relocation Eng	1	7,500	17,315	5,000	5,150	5,305	5,464	5,628
Shiloh Trench Paving	1	25,000	-	25,000	25,750	26,523	27,318	28,138
Shiloh Bike Paving	1	50,000	-	65,000	66,950	68,959	71,027	73,158
Shiloh Sm Eq Rental	1	5,000	-	5,000	5,150	5,305	5,464	5,628
Shiloh upgrade	1	413,000	138,162	70,000	72,100	74,263	76,491	78,786
Greenbriar Eng.	1	10,000	-	10,000	10,300	10,609	10,927	11,255
Greenbriar Project	1	100,000	113,909	50,000	51,500	53,045	54,636	56,275
Whitehall Rd Force Main	1	-	-	35,000	36,050	37,132	38,245	39,393
Whitehall Rd Eng	1	-	-	19,200	19,776	20,369	20,980	21,610
Whitehall Rd Trench Paving	1	-	-	15,000	15,450	15,914	16,391	16,883
Scott Rd upgrade eng.	1	175,000	42,560	177,000	182,310	187,779	193,413	199,215
Scott Rd Force Main	1	-	-	516,000	531,480	547,424	563,847	580,763
Scott Rd PS Upgrade	1	-	-	749,000	771,470	794,614	818,453	843,006
Scott Rd Truck Rental	1	-	-	75,000	77,250	79,568	81,955	84,413
Scott Rd Trench Paving	1	-	-	30,000	30,900	31,827	32,782	33,765
Haymarket Project	1	-	-	35,000	36,050	37,132	38,245	39,393
Haymarket Eng	1	-	-	16,800	17,304	17,823	18,358	18,909
Haymarket Trench Paving	1	-	-	17,500	18,025	18,566	19,123	19,696
UAJA Conduit Project	1	-	-	91,000	93,730	96,542	99,438	102,421
UAJA Conduit Eng	1	-	-	24,000	24,720	25,462	26,225	27,012
UAJA Conduit Trench Paving	1	-	-	25,000	25,750	26,523	27,318	28,138
Construction Equipment Maintenance Expenditure								
Collection Truck 1 Pymt (3/3)	20,000	20,000	20,000	20,600	21,218	21,855	22,510	23,185
New Unit 22 (1/3)	-	-	11,821	12,176	12,541	12,917	13,305	13,704
New T-Tag (1/3)	-	-	20,860	21,486	22,130	22,794	23,478	24,182
New Jet Truck (1/3)	-	-	172,095	177,258	182,576	188,053	193,694	199,505
New Storage Building	-	-	155,000	159,650	164,440	169,373	174,454	179,687
Other Proposed Equipment	-	-	-	-	-	-	-	-
<i>CIP Subtotal</i>	<i>\$840,500</i>	<i>\$356,418</i>	<i>\$2,295,276</i>	<i>\$2,523,784</i>	<i>\$2,435,058</i>	<i>\$2,508,110</i>	<i>\$2,583,353</i>	<i>\$2,660,854</i>

	2020	2020	2021	2022	2023	2024	2025	2026
	Budget	Projected	Adopted	Projected	Projected	Projected	Projected	Projected
Treatment Plant Capital								
Solar Phase 1	\$14,000	\$14,000	\$14,000	14,000	14,000	206,921	208,696	210,401
Solar Phase 2	-	\$1,600	\$1,600	1,600	1,600	1,600	1,600	1,600
BESS	\$18,000	\$18,000	\$18,000	18,000	18,000	18,000	73,000	73,000
Aeration Improvements	-	-	\$133,820	135,705	137,741	139,807	141,904	144,032
Ozone Disinfection	-	-	-	137,820	140,382	142,983	145,623	148,302
Bio Solids and High Voltage Project	-	-	-	-	490,000	494,900	499,849	504,847
<i>Capital Expense Subtotal</i>	<i>\$32,000</i>	<i>\$33,600</i>	<i>\$167,420</i>	<i>\$307,125</i>	<i>\$801,723</i>	<i>\$1,004,210</i>	<i>\$1,070,672</i>	<i>\$1,082,183</i>
Debt Service								
Revenue Bonds Series of 2015	-	-	7,481	7,481	741	322,481	-	-
Revenue Bonds Series of 2017	-	-	339,125	338,125	341,625	335,250	339,000	332,350
Revenue Bonds Series A of 2017	-	-	606,300	621,707	645,599	662,298	687,070	714,970
Revenue Bonds Series B of 2017	-	-	3,648,550	3,446,300	3,442,300	3,461,800	3,448,300	3,448,050
Revenue Bonds Series of 2018	-	-	416,419	416,419	416,419	416,419	416,419	416,419
Revenue Bonds Series of 2020	-	-	269,950	889,250	883,050	566,050	890,650	893,900
Revenue Bonds Series A of 2020	-	-	-	-	190,900	190,900	190,900	190,900
Revenue Bonds Series of 2021	-	-	-	-	265,500	265,500	265,500	265,500
Revenue Bonds Series A of 2021	-	-	429,051	626,600	606,500	576,600	562,100	534,200
<i>Debt Service Subtotal</i>	<i>\$0</i>	<i>\$0</i>	<i>\$5,716,876</i>	<i>\$6,345,882</i>	<i>\$6,792,634</i>	<i>\$6,797,298</i>	<i>\$6,799,939</i>	<i>\$6,796,289</i>
TOTAL SEWER EXPENSE	\$8,167,807	\$8,004,646	\$15,830,246	\$16,798,764	\$17,649,752	\$17,672,176	\$18,036,988	\$18,349,499

Notes:

Assumed annual inflation Rate (unless otherwise noted)..... **3%**

1. 2021 line item cost inflated from 2022 through 2026, however these line items represent capital expenditures which are intended to be replaced with new line items of similar magnitude over the period of our study. It is assumed overall total capital expense will remain similar or slightly higher due to inflation.

Sewer System Rate Study

Table A2 - Sewer System - Allocation of Non Rate Revenue to Functional Categories

	2021 Estimated Annual Revenue	Treatment/ Conveyance	Collection	Admin. and General
PSU Revenue	\$ 220,000	\$ 220,000	\$ -	\$ -
PGM Revenue	379,000	314,200	45,850	18,950
Surcharge Revenue	150,000	150,000	-	-
Non-Taxable Compost Revenue	45,000	45,000	-	-
Taxable Compost Revenue	6,000	6,000	-	-
Sludge Disposal	23,000	23,000	-	-
Beneficial Reuse Water	25,000	25,000	-	-
Boro Maintenance	65,000	65,000	-	-
Connection Fee	20,250	-	-	20,250
Tap Fee - Plant	846,400	846,400	-	-
Tap Fee - Ghaner	18,550	-	18,550	-
Tap Fee - Rt. 26	109,850	-	109,850	-
Tap Fee - Circleville	79,306	-	79,306	-
Tap Fee - Valley Vista	28,495	-	28,495	-
Tap Fee - PGM Collection	4,428	-	4,428	-
IPP User Fee	4,750	4,750	-	-
Water Qual. Mgmt. Permit	500	500	-	-
Repair Permits	1,550	-	-	1,550
Inspection Fees	40,000	-	40,000	-
Equipment Rental	-	-	-	-
Assessment	-	-	-	-
Retiree Cobra	22,914	-	-	22,914
Insurance Claims	-	-	-	-
Sale of Assets ¹	250,000	NA	NA	NA
Grants Received	-	-	-	-
Interest - General Checkbook	10	-	-	10
Interest Sweep Checking	1,000	-	-	1,000
Interest - Payroll	400	-	-	400
Interest - PLIGIT Checkbook	30	-	-	30
Interest - PLIGIT Plus	145	-	-	145
Interest - PLIGIT Emmaus	200	-	-	200
Interest-93 Debt Service Res.	50,000	-	-	50,000
Interest- Op. Expense Res.	2,000	-	-	2,000
Interest-93 Debt Service Fund	5,000	-	-	5,000
Interest- Revenue Fund	3,000	-	-	3,000
Interest - BRIF	30,000	-	-	30,000
Interest - BRIF/ Emmaus	555	-	-	555
Miscellaneous Receipts	50,000	-	-	50,000
Solar Maintenance	45,000	45,000	-	-
Total Sewer Non Rate Revenue	\$ 2,527,333	\$ 1,744,850	\$ 326,479	\$ 206,004
Subtotal Directly Assigned Expenses				
Admin and General Allocation	\$ 206,004	\$ 173,534	\$ 32,470	
Total Sewer Non Rate Revenue ¹	\$ 2,277,333	\$ 1,918,384	\$ 358,949	

Notes:

Admin. and General costs allocated as Follows:

Treatment Related	84%
Collection Related	16%
Total	100%

1) One time, non-reoccurring revenue from the sale of assets was considered in analysis.

	2022 Estimated Annual Expense	Treatment/ Conveyance	Collection	Admin. and General
Administration				
Supervisor Labor	\$ 264,110	\$ -	\$ -	\$ 264,110
Regular Labor	365,857	-	-	365,857
Vac,Sick,Etc.	-	-	-	-
FICA	3,500	-	-	3,500
Medicare	2,400	-	-	2,400
UC Tax	23,690	-	-	23,690
Group Health	2,000	-	-	2,000
Health Deductible	180,250	-	-	180,250
Pension	89,408	-	-	89,408
Retiree Cobra	10,300	-	-	10,300
Life Insurance	82,812	-	-	82,812
Office Supplies	15,450	-	-	15,450
Postage/Shipping	30,900	-	-	30,900
Janitorial	7,210	-	-	7,210
Petty Cash	206	-	-	206
Advertising	3,090	-	-	3,090
Audit	23,690	-	-	23,690
Maylie Property	-	-	-	-
Retainer-Eng.	20,600	-	-	20,600
Legal	63,000	-	-	63,000
Insurance-Property	288,400	245,140	43,260	-
Outside Services	15,450	-	-	15,450
O&M Copiers	5,150	-	-	5,150
Communication	41,200	-	-	41,200
Training,Sem, Trav.	5,150	-	-	5,150
Memberships	6,695	-	-	6,695
Uniforms	18,540	-	-	18,540
Vaccinations	1,545	-	-	1,545
Recruiting	-	-	-	-
Employee Relations	2,575	-	-	2,575
Meal Allowance	515	-	-	515
Safety Equipment	8,240	-	-	8,240
Safety Training	3,090	-	-	3,090
Drug/Alcohol Testing	515	-	-	515
Flow Boro	-	-	-	-
Bank Fees	-	-	-	-
Bad Debt	-	-	-	-
Water- CTWA	6,180	-	-	6,180
Garbage	10,300	-	-	10,300
CNET	8,916	-	-	8,916
Misc. Expense	1,030	-	-	1,030
G & A Information Technology				
Internet Service	5,150	-	-	5,150
Hardware	18,916	-	-	18,916
Software	71,997	-	-	71,997
Training	1,030	-	-	1,030
G & A Fleet/Fuel				
Gen. Vehicle Maint.	77,250	-	-	77,250
Gasoline	36,050	-	-	36,050
Diesel Fuel	89,610	-	-	89,610
Collection Maintenance Expense				
Supervisor Labor	137,050	13,705	123,345	-
Regular Labor	1,038,863	103,886	934,977	-
Vac,,Sick,Etc.	-	-	-	-
Overtime	15,450	1,545	13,905	-
FICA	72,927	7,293	65,634	-
Medicare	17,051	1,705	15,346	-
Group Health	342,439	34,244	308,195	-
Pension	65,648	6,565	59,083	-
Small Eq./Tools	13,390	1,339	12,051	-
Sewer Line Maint.	92,700	9,270	83,430	-
Rental Equip.	1,030	-	1,030	-
Rental Lowboy	3,605	-	3,605	-
Patch Paving Contract	10,300	-	10,300	-
Construction Maintenance Expense				
Small Equipment Maint.	5,150	-	5,150	-
Large Equipment Maint.	60,000	-	60,000	-

	2022 Estimated Annual Expense	Treatment/ Conveyance	Collection	Admin. and General
<hr/>				
Treatment Plant Operation Expense				
Supervisor Labor	38,949	38,949	-	-
Regular Labor	642,632	642,632	-	-
Vac,Sick,Etc.	-	-	-	-
Overtime	61,800	61,800	-	-
Shift Labor	12,360	12,360	-	-
FICA	42,258	42,258	-	-
Medicare	9,883	9,883	-	-
Group Health	179,789	179,789	-	-
Pension	36,026	36,026	-	-
Supplies	515	515	-	-
Alum	206,000	206,000	-	-
Carbon Supplement	231,750	231,750	-	-
Stream Monitoring	14,678	14,678	-	-
Licns/Fees	9,270	9,270	-	-
Analysis	10,300	10,300	-	-
Misc.Outside Serv.	41,200	41,200	-	-
Power	416,120	416,120	-	-
Reduction in Op Ex Due to Capital Imp	(149,700)	(149,700)	-	-
Main Station				
Labor - Main St.	-	-	-	-
OT - Main St.	-	-	-	-
FICA - Main St.	-	-	-	-
Medicare - Main St.	-	-	-	-
Group Health - Main St.	-	-	-	-
Pension - Main St.	-	-	-	-
O&M - Main St.	51,500	51,500	-	-
Power - Main St.	40,170	40,170	-	-
Beneficial Reuse Expense				
Supervior Labor	38,949	38,949	-	-
Vac, Sick, Etc.	-	-	-	-
FICA	2,415	2,415	-	-
Medicare	564	564	-	-
Group Health	8,156	8,156	-	-
Pension	3,895	3,895	-	-
Operational Supplies	15,450	15,450	-	-
Small Eq/Tools	1,030	1,030	-	-
Op. Sup. - Chemicals	386,250	386,250	-	-
Lab Analysis	15,450	15,450	-	-
Equip. Maintenance	128,750	128,750	-	-
Power	206,000	206,000	-	-
CTWA reimbursement	66,950	66,950	-	-
Industrial Pretreatment Program Expense (IPP)				
Supervisor Labor	83,787	83,787	-	-
Vac, Sick, Etc.	-	-	-	-
FICA	5,195	5,195	-	-
Medicare	1,215	1,215	-	-
Group Health	17,677	17,677	-	-
Pension	8,379	8,379	-	-
Small Eq/Tools	155	155	-	-
Analysis	3,605	3,605	-	-
Eq. Maintenance	515	515	-	-
Compost Expense				
Supervisor Labor	38,949	38,949	-	-
Regular Labor	265,978	265,978	-	-
Vac,Sick,Etc	-	-	-	-
Overtime	10,300	10,300	-	-
FICA	18,906	18,906	-	-
Medicare	4,422	4,422	-	-
Group Health	84,697	84,697	-	-
Pension	17,194	17,194	-	-
Supplies	2,060	2,060	-	-
Compost Amendment	123,600	123,600	-	-
Small Eq/Tools	2,575	2,575	-	-
Licns/Fees	5,665	5,665	-	-
Analysis	11,845	11,845	-	-
Marketing	515	515	-	-
Eq. Maintenance	51,500	51,500	-	-
Old Skid Steerer	5,150	5,150	-	-
Loader Maint.621G	10,300	10,300	-	-
Loader Maint.621E	10,300	10,300	-	-
Sweeper Maint.	4,120	4,120	-	-
Trommel Maint.	5,150	5,150	-	-
New Skid Steerer	7,725	7,725	-	-
Power	134,930	134,930	-	-
Propane/Natual Gas	123,600	123,600	-	-
Vector Control	5,034	5,034	-	-

	2022 Estimated Annual Expense	Treatment/ Conveyance	Collection	Admin. and General
Collection Maintenance Expenditure		-		
Meeks Lane Eng	15,450	-	15,450	
Shiloh relocation Eng	5,150	-	5,150	
Shiloh Trench Paving	25,750	-	25,750	
Shiloh Bike Paving	66,950	-	66,950	
Shiloh Sm Eq Rental	5,150	-	5,150	
Shiloh upgrade	72,100	-	72,100	
Greenbriar Eng.	10,300	-	10,300	
Greenbriar Project	51,500	-	51,500	
Whitehall Rd Force Main	36,050	-	36,050	
Whitehall Rd Eng	19,776	-	19,776	
Whitehall Rd Trench Paving	15,450	-	15,450	
Scott Rd upgrade eng.	182,310	182,310		
Scott Rd Force Main	531,480	531,480		
Scott Rd PS Upgrade	771,470	771,470		
Scott Rd Truck Rental	77,250	77,250		
Scott Rd Trench Paving	30,900	30,900		
Haymarket Project	36,050	-	36,050	
Haymarket Eng	17,304	-	17,304	
Haymarket Trench Paving	18,025	-	18,025	
UAJA Conduit Project	93,730	-		93,730
UAJA Conduit Eng	24,720	-		24,720
UAJA Conduit Trench Paving	25,750	-		25,750
Construction Equipment Maintenance Expenditure				
Collection Truck 1 Pymt (3/3)	20,600	-	20,600	
New Unit 22 (1/3)	12,176	-	12,176	
New T-Tag (1/3)	21,486	-	21,486	
New Jet Truck (1/3)	177,258	-	177,258	
New Storage Building	159,650	-	159,650	
Treatment Plant Capital				
Solar Phase 1	14,000	14,000	-	-
Solar Phase 2	1,600	1,600	-	-
BESS	18,000	18,000	-	-
Aeration Improvements	135,705	135,705	-	-
Ozone Disinfection	137,820	137,820	-	-
Bio Solids and High Voltage Project	-	-	-	-
Debt Service				
Revenue Bonds Series of 2015	7,481	7,481	-	-
Revenue Bonds Series of 2017	338,125	338,125	-	-
Revenue Bonds Series A of 2017	621,707	621,707	-	-
Revenue Bonds Series B of 2017	3,446,300	3,446,300	-	-
Revenue Bonds Series of 2018	416,419	416,419	-	-
Revenue Bonds Series of 2020	889,250	844,788	44,463	-
Revenue Bonds Series A of 2020	-	-	-	-
Revenue Bonds Series of 2021	-	-	-	-
Revenue Bonds Series A of 2021	626,600	626,600	-	-
TOTAL SEWER EXPENSE	16,798,764	12,461,050	2,569,948	1,767,766
<i>Subtotal Directly Assigned Expenses</i>				
Admin and General Allocation	\$ 1,767,766	\$ 1,465,520	\$ 302,247	
Total Sewer Expense	\$ 16,798,764	\$ 13,926,569	\$ 2,872,194	

Notes:

Admin. and General costs allocated as Follows:	
Treatment Related	83%
Collection Related	17%
Total	100%

Table A4 - EDU Counts and Historical Flows

RETAIL CUSTOMERS		
Customer Location	2021 Number of EDUs	Historical Sewer Flow (gal)
Patton Township	7,853	NA
College Township	6,763	NA
Ferguson Township	8,928	NA
Harris Township	2,527	NA
Total	26,071	NA

WHOLESALE CUSTOMERS		
Customer Location	2021 Number of EDUs	Borough Projected Flow (gal) ²
State College Borough ¹	16,419	2,200,000

1) Per UAJA estimated EDU totals. Based upon the Borough's projected flow, this results in 134 gpd/EDU which is slightly higher than UAJA's average gpd/EDU in their 2020 Chapter 94 Report of 129.

2) Per Borough 2020 Chapter 94 Wasteload Management Report.

University Area Joint Authority
Sewer System Rate Study
Table B1 -Rate Calculation

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	Total Exp 2021	Total Exp 2022	Total Exp 2023	Total Exp 2024	Total Exp 2025	Total Exp 2026
Expenses						
Administrative and Billing Costs	2,048,892	1,911,966	1,970,585	2,031,026	2,093,346	2,157,605
Operating Costs	7,897,058	8,233,790	8,084,810	7,839,642	8,073,031	8,313,422
Capital and Debt Service Costs	5,884,296	6,653,007	7,594,357	7,801,508	7,870,611	7,878,472
Total Revenue Requirement	\$ 15,830,246	\$ 16,798,764	\$ 17,649,752	\$ 17,672,176	\$ 18,036,988	\$ 18,349,499
Treatment/Wholesale Charge per EDU						
Portion of Expense Attributed to Treatment	13,123,646	13,926,569	14,632,059	14,650,649	14,953,086	15,212,165
Less Non Rate Treatment Income	(1,918,384)	(1,918,384)	(1,918,384)	(1,918,384)	(1,918,384)	(1,918,384)
Less Revenue from Proposed Projects	-	-	(969,000)	(1,077,261)	(1,383,980)	(1,395,125)
Total Revenue Needed from Treatment Rate	11,205,262	12,008,186	11,744,675	11,655,004	11,650,723	11,898,657
Delinquencies (assumes %5)	\$ (560,263)	\$ (600,409)	\$ (587,234)	\$ (582,750)	\$ (582,536)	\$ (594,933)
Total to be recovered by Treatment Rate/EDU	\$ 10,644,999	\$ 11,407,776	\$ 11,157,441	\$ 11,072,254	\$ 11,068,187	\$ 11,303,724
Total Number of EDUs provided Treatment	42,490	42,490	42,490	42,490	42,490	42,490
Annual Rate Applicable to Wholesale	\$ 251	\$ 268	\$ 263	\$ 261	\$ 260	\$ 266
Calculated Quarterly Rate for Treatment/Wholesale	\$ 62.63	\$ 67.12	\$ 65.65	\$ 65.15	\$ 65.12	\$ 66.51
Recommended Quarterly Treatment/Wholesale Rate		\$ 66.00	\$ 66.00	\$ 66.00	\$ 66.00	\$ 66.00
Collection Charge per EDU						
Portion of Attributed to Collection	2,706,600	2,872,194	3,017,693	3,021,527	3,083,901	3,137,333
Less Non Rate Collection Income	(358,949)	(358,949)	(358,949)	(358,949)	(358,949)	(358,949)
Total Revenue Needed from Collection Rate	2,347,651	2,513,245	2,658,744	2,662,578	2,724,952	2,778,384
Delinquencies (assumes %5)	\$ (117,383)	\$ (125,662)	\$ (132,937)	\$ (133,129)	\$ (136,248)	\$ (138,919)
Total to be recovered by Collection Rate/EDU	\$ 2,230,269	\$ 2,387,583	\$ 2,525,807	\$ 2,529,449	\$ 2,588,705	\$ 2,639,465
Total Number of EDUs provided Collection	26,071	26,071	26,071	26,071	26,071	26,071
Annual Rate Applicable to Wholesale	\$ 86	\$ 92	\$ 97	\$ 97	\$ 99	\$ 101
Calculated Quarterly Rate for Collection	\$ 21.39	\$ 22.90	\$ 24.22	\$ 24.26	\$ 24.82	\$ 25.31
Recommended Quarterly Collection Rate		\$ 24.40	\$ 24.40	\$ 24.40	\$ 24.40	\$ 24.40
Rate Recommendations:						
Quarterly Wholesale Rate/EDU		\$ 66.00				

University Area Joint Authority
Sewer System Rate Study
Table B2 -BOD Based EDU Calculation

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A. Determination of Conversion Factor Based Upon Historic UAJA Loadings

Avg. Historic BOD Loading (Years 2016 - 2020) (Per Chapter 94 Report)

0.3432 lb/day/EDU

2.91 EDUs/1 lb BOD

B. Verification of Above Conversion Factor Based Upon Industry Standards

BOD = 0.17 lb/day/capita

(Per DEP Domestic Wastewater Facilities Manual)

Capita per Household = 2.44

(Analysis of 2019 Census Data Statistics for UAJA's Service Area)

Lbs/day/EDU = 0.17 lb/day/cap * 2.44 people per household =

0.41 lb/day/EDU

2.41 EDUs/1 lb BOD