



UNIVERSITY AREA JOINT AUTHORITY

A G E N D A
Regular Meeting - 4:00 p.m. – June 16, 2021

- 1. Call to Order**
- 2. Approval of the Minutes:** Regular Meeting- May 19, 2021
- 3. Public Comment**
 - 3.1 Other items not on the agenda
- 4. Old Business**
 - 4.1 Purchase of Vactor Sewer Cleaner
- 5. New Business**
 - 5.1 2020 Summation of Capacity Report Presentation
 - 5.2 Residential Solar Pilot Project
 - 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 – May 19, 2021

1. Call to Order

Mr. Lapinski, Chair, called the meeting to order at 4:00 p.m., Wednesday, May 19, 2021. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Auman, Guss, Kunkle, Miller; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Michele Aukerman, Rettew; Jason Wert, Rettew; David Gaines, Solicitor; C-NET; Ben Burns, HRG Consulting Engineer; Jeff Garrigan, HRG Consulting Engineer; and Jennifer Grove, Administrative Assistant. Those in attendance via Zoom were: Messrs. Daubert, Dempsey, Derr, Nucciarone; Kevin Mullen; Spenser McGrath, Maher Duessel; Brian McCall, Maher Duessel; and Corey Rilk, COG Planning.

2. Reading of the Minutes

UAJA Regular Meeting – April 21, 2021

**UAJA Meeting
Minutes Approved**

A motion was made by Mr. Miller, second by Mr. Guss, to approve the minutes of the UAJA meeting held on April 21, 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 or six years.

4. Old Business

4.1 2020 Audit

Included in your packet are the following:

Draft Financial Statements
Draft Communication to Those Charged with Governance letter
Draft Management letter

The Board Treasurer Dan Guss, Assistant Treasurer Matt Auman, Board Member Mark Kunkle, Cory Miller and Jason Brown met with Maher Duessel (via Zoom) on May 17th to review and comment on the 2020 Draft Audit. Brian McCall, a partner in Maher Duessel, will attend the meeting to review the 2020 Audit with the Board.

Recommendation: Approve the 2020 Audit

**2020 Audit
Accepted**

A motion was made by Mr. Guss, seconded by Mr. Kunkle to accept the 2020 Audit as presented. The motion passed unanimously.

***The meeting agenda for Reports of Officers and New Business were switched at the chairman’s discretion. When discussing New Business, Residential Solar Presentation and Requisitions were also switched at the chairman’s discretion.**

5. Reports of Officers

5.1 SCBWA Liaison

None.

5.2 Financial Report

The different cost centers of the YTD budget report for the period ending April 30, 2021 were reviewed with the Board by Jason Brown.

5.3 Chairman’s Report

None.

5.4 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>Nov. 2020</u>	<u>Dec. 2020</u>	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>	<u>Apr. 2021</u>
Production	797 cu/yds.	848 cu/yds.	716 cu/yds.	673 cu/yds.	897 cu/yds.	848 cu/yds.
YTD. Production	11,231cu/yds	12,079 cu/yds.	716 cu/yds.	1,389 cu/yds.	2,286cu/yds.	3,134 cu/yds.
Distribution	952cu/yds.	0 cu/yds.	120cu/yds.	11 cu/yds.	978 cu/yds.	963cu/yds.
YTD. Distribution	12,512cu/yds	12,512 cu/yds.	120 cu/yds.	131 cu/yds.	1,109 cu/yds.	2,072cu/yds.
Immediate Sale	892cu/yds.	1,684 cu/yds.	2,412 cu/yds.	3,117 cu/yds.	2,812 cu/yds.	2,746 cu/yds.
Currently in Storage	1,689 cu/yds.	2,532 cu/yds.	3,128 cu/yds.	3,790 cu/yds.	3,709 cu/yds.	3,594 cu/yds.

SEPTAGE OPERATIONS

	<u>Nov. 2020</u>	<u>Dec. 2020</u>	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>	<u>Apr. 2021</u>
Res./Comm.	68,500 gals.	78,350 gals.	55,000 gals.	57,530 gals.	71,300 gals.	74,400 gals.
CH/Potter	3,794.70 lbs/solids	5,041.53 lbs/solids	5,421.00 lbs/solids	3,923.97 lbs/solids	2,777.22 lbs/solids	0.00 lbs/solids
Port Matilda	1,367.76 lbs/solids	1,601.28 lbs/solids	834.00 lbs/solids	1,434.48 lbs/solids	1,684.68 lbs/solids	500.40 lbs/solids
Huston Twp.	1000.80 lbs/solids	733.92 lbs/solids	717.24 lbs/solids	617.16 lbs/solids	533.76 lbs/solids	600.48 lbs/solids

Total Flow	123,000 gals.	133,250 gals.	116,000 gals.	114,030gals.	113,800 gals.	88,400 gals.
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Plant Operation

The treatment plant is operating well with one exception. The 12-month rolling average flow for April was 3.22mgd with the average for the month being 4.21mgd. The average monthly **influent** flow was 5.34mgd.

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:

	Apr-21	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	32,000	78,000		
Centre Hills	1,190,000	1,190,000	Apr-21	Apr-21
Cintas	517,000	1,861,000	59.3	57.4
Red Line	586,000	2,203,000		
UAJA Wetland	6,244,000	14,162,000		
GDK Vault	17,233,000	78,526,000		
Kissingers	2,289,000	7,964,000		
Stewarts/M.C.	0	10,000		
TOTAL	24,696,000	105,994,000		

Plant Maintenance

- Replace vacuum pump for Headworks grit removal system.
- Replaced one of the VFD’s for the IPS.
- Replaced one of the VFD’s for plant drain Station.
- Repaired long auger on the screening unit at Headworks.
- Replaced a hydraulic hose on agitator #1 and conveyor chains on agitator #2.
- Installed clean-outs for the 8 inch drain line from Dewatering and Septage.
- Fabricated a new spool for MF #1.
- Serviced both HSP in AWT.
- CIP’ed RO #1.
- Installed a PRV at AWT to lower pressure inside building.

5.5 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:

Shiloh Pump Station Project – 700 ft of force main was completed and tied into the discharge manhole. Completed restoration on the Greenbriar project. Completed restoration on the Harris Reuse project. Main Line Televising – 4,834.7 ft televised - 34 manholes inspected. Equipment maintenance.

Lift Station Maintenance:

Cleaned check valves on all pumps at Big Hollow station. Cleaned (11) lift station wet wells.

Routine Maintenance.

Next Month Projects:

- Continue the Shiloh Rd. pump station upgrade project.
- Continue conduit project at Shiloh station.
- Install new lateral on Henzey street.
- Repair mainline on Dale street.
- Cleaning wet wells.
- Televise paving projects.

Inspection: Final As-Builts Approved: Patton Crossing Phase 1

Mainline Construction:

- a. Harner Farms – Construction is approximately (95%) complete.
- b. Grays Pointe phase 6 sec D.1 - Construction is approximately (20%) complete.

New Connections:

a. Single-Family Residential	10	c. Commercial	1
b. Multi-Family Residential	0	d. Non-Residential	0
TOTAL			11

PA One-Calls Responded to 04/1-30/21: 454

5.6 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)

- Assisted with the completion of capacity tables for Component 3 Planning Modules being prepared by developers.

Odor Control System Upgrades (R001178.0597)

- Contract No. 17-03: General Construction (Global Heavy Corporation) – Complaint against the UAJA and HRG.
- The Air Quality Plan Approval must be transitioned to an Operating Permit, which will require the identification and characterization of emissions from all sources at the facility.
- Providing any support necessary for the evaluation of the irrigation pump leaking issue.

Greenbriar Sanitary Sewer (R001178.0631)

- GeoDecisions provided a link to updated data. The record drawings will be finalized.

Shiloh Road Pump Station Upgrades (R001178.0632)

- HRG is available to assist with construction phase services.

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

- Contract 2020-02 (Ligonier) has completed the conventional bore crossing of SR 0322 near the Centre Hills Booster Station. A value of \$3,000.00 is being retained as a punch list item until restoration can be confirmed.
- The hydraulic model was updated, and field testing was conducted on April 15th. HRG provided a memo on the model results for the system pressures under initial service to Mountain View and

under future service to Tussey at full pump capacity.

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

- Final design and contact documents are being prepared.
- The PennDOT HOP for crossing Whitehall Road has been issued.
- Required signatures and fees for the Ferguson Township permits (Zoning, Lighting, Road Occupancy) were acquired and these permits were submitted for review and approval.
- Required signatures and fees for the NPDES permit and E&S approval were acquired and these permits were submitted for review and approval.
- Proposed easement exhibits have been prepared. These will be provided to the Authority’s solicitor to begin discussions with the identified property owners.

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

- The Special Study was updated and re-submitted to the Authority staff for review.

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.

Fiber Optic Conduit – (R001178.0687)

- Drawings were prepared for the Shiloh Road alignment to Premier Drive. The drawings were sent to Columbia Gas for review since a portion of the alignment is within their right-of-way.
- The College Township roadway occupancy permit for the crossing of Trout Road (Shiloh Road alignment) was issued.
- HRG and UAJA staff are working with Columbia Gas to determine if the conduit can occupy the same right-of-way as the gas utility. Columbia Gas responded that it will not permit UAJA to install the fiber optic conduit inside its right-of-way between Trout Road and Hartman Farm Lane.
- HRG coordinated with Columbia Gas to revise the Shiloh Road alignment drawings. Columbia Gas subsequently provided a letter of no objection for review and execution by the Authority.
- Drawings are being prepared for the second fiber optic conduit alignment (Trout Road to Hartman Farm Lane to Short Lane, near SR0026).

Entry Road Storm Water Improvements – (R001178.0681)

- The entry road design was reviewed with UAJA staff and updated based on specific comments.
- Permit applications have been prepared and submitted.
- A preliminary right-of-way exhibit was provided to the Authority’s solicitor to begin discussions with the property owner.
- Relocation of the utility poles is being coordinated with First Energy, which will require evidence of a right-of-way or an acknowledgement signature from the property owner.

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

- Field survey data was collected and a base map was prepared.
- HRG reviewed the alignment in the field with UAJA representatives.
- Due to the number of units and sequencing of connections, the system is proposed as two zones, consisting of 1.5 inch and 2 inch diameter low pressure sewer.
- Preliminary drawings have been prepared and will be used as the basis to prepare a Component 3M Sewage Facilities Planning Module.

Princeton Drive Sanitary Sewer Replacement – (R001178.0699)

- Sanitary sewer profiles were generated using field data and proposed drawings provided by Ferguson Township’s consultant. The proposed stream restoration improvements will remove any available cover on the existing sanitary line. As discussed, the sanitary line will need to be replaced at a lower slope in order to gain appropriate cover.

- Replacement of the sewer will require separate permitting, involving a GP-5 or GP-11.
- An engineering services agreement will be prepared.

Developer Plan Reviews

- The Contractor’s (GOH/Hawbaker Eng) as-built drawings for sanitary system associated with the PennDOT work in North Atherton St. were reviewed and returned for corrections; April 8, 2021 (1178.0686).

5.7 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.

Sludge Storage Tank Mixer (094612034)

- Definitive Certificate of Substantial Completion has been issued via separate cover for 4-M Construction Services LLC (2020-01). Definitive Certificate of Substantial Completion has been issued for Stelco, Inc. (2020-05).

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
2020-01			\$69,600.00	\$69,600.00	100.00%	\$0.00
2020-05	4-Final	\$5,230.93	\$29,380.14	\$29,380.14	100.00%	\$0.00
		\$5,230.93	\$98,980.14	\$98,980.14	100.00%	\$0.00

- Stelco, Inc. (2020-05) has submitted Application for Payment No. 4-Final and we are recommending final payment in the amount of \$5,230.93.

Aeration Line Improvements (094612035)

- Both contractors, GM McCrossin (2020-08) and HRI (2020-09), are providing submittals for review and have begun site work this month.

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			\$511,096.00		0.00%	\$511,096.00
2020-09	2	\$10,350.00	\$103,505.00	\$15,505.00	14.98%	\$89,550.50
		\$0.00	\$614,601.00	\$15,505.00	2.52%	\$599,096.00

- HRI, Inc. (2020-09) has submitted Application for Payment No. 2 and we are recommending payment in the amount of \$10,350.00.

Solar System – Phase II – Demolition and Site Prep (094612040)

- Fencing installation is now completed. Contractor to begin restoration efforts.
- A substantial completion inspection was held on May 7th. A tentative certificate of substantial completion was issued via separate cover.
- Stone Valley Construction (2020-10) has submitted Application for Payment No. 4 and we are

recommending payment in the amount of \$67,433.40.

Solar System- Phase II Project

- The Solar Array has been completed with minor punchlist items remaining. The Project Owner has requested Permission to Operate from First Energy/West Penn Power and it is anticipated to be operational within the next several weeks.

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
2020-10	4	\$67,433.40	\$265,908.00	\$265,908.00	100.00%	\$26,590.80
		\$67,433.40	\$265,908.00	\$265,908.00	100.00%	\$26,590.80

WWTP NPDES Permit – Phosphorus Study (094612027)

- Installation of the stream monitoring instruments will begin over the next month, with continuous monitoring of Spring Creek 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 application for a Water Quality Management Part II Permit has been submitted to the Pennsylvania Department of Environmental Protection for the use of ozone as the disinfectant of the plant effluent. We are in the process of completing final design for the addition of the ozone system.
- The Act 537 Plan Special Study has been prepared and distributed to the County and Regional Planning Agencies and Commissions. The Study is also undergoing a 30-day public comment period. Adoption is slated for Summer.
- RETTEW has begun final design activities and is targeting a July 2021 request for bids for the project.

Anaerobic Digestion Project (094612026)

- RETTEW is has completed the preliminary design of the proposed Biosolids Improvement project and has submitted the Water Quality Management Permit to the PA DEP.
- A separate Act 537 Plan Special Study has been prepared and distributed to the County and Regional Planning Agencies and Commissions.
- We have commenced final design activities, beginning with a comprehensive survey and geotechnical analysis of the project area.
- Negotiations have begun with several potential biosolids contributors, along with the Gas Utility for offtake of the Renewable Natural Gas.

High Voltage Switchgear and Cable Replacement (094612045)

- The contractor, Thoroughbred Construction Group, has begun site work, starting with the new ductbanks.

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			\$1,043,639.00		0.00%	\$1,043,639.00
		\$0.00	\$1,043,639.00	\$0.00	0.00%	\$1,043,639.00

Water Quality Instrumentation (094612033)

- We have assisted the Authority with the procurement, installation, and integration of several new instruments to monitor water quality throughout the Advance Water Treatment process. We anticipate these instruments will be online and continuously analyzing turbidity, pH, and conductivity at key points in the treatment process by the end of this month.

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.

5.8 Executive Director’s Report

None.

6 New Business

6.1 Requisitions

BRIF #547	Groff Tractor Harris Reuse Project	\$528.00
BRIF #548	Wheatfield Nursery Harris Reuse Project	\$894.83
BRIF #549	Irvin Farms, LLC Harris Reuse Project	\$1,176.00
BRIF #550	Best Line Equipment Harris Reuse Project	\$2,895.00
BRIF #551	Siteone Landscape Supply Harris Reuse Project	\$2,187.13
BRIF #552	Mayer Electric Supply Shiloh Pump Station Upgrade	\$1,522.64
BRIF #553	Schaedler Yesco Shiloh Pump Station Upgrade	\$3,827.07
BRIF #554	YBC Shiloh Pump Station Upgrade	\$3,112.83
BRIF #555	Cooper Electric Shiloh Pump Station Upgrade	\$309.43
BRIF #556	Siteone Landscape Supply Greenbriar Project	\$2,480.27

BRIF #557	Ducken Tree Farm, LLC Greenbriar Project	\$5,284.00
BRIF #558	Stelco, Inc. Sludge Tank Project- Pay App. #4	\$5,230.93
BRIF #559	Stone Valley Construction Solar Phase II- Pay App. #4	\$67,433.40
TOTAL BRIF		\$96,881.53

**BRIF
Approved**

A motion was made by Mr. Guss, seconded by Mr. Daubert to approve BRIF #547, #548, #549, #550, #551, #552, #553, #554, #555, #556, #557, #558 and #559 in the amount of \$96,881.53. The motion passed unanimously.

Construction Fund #004	HRI Aeration Line- Pay App. #2	\$10,350.00
TOTAL 2020 A CONSTRUCTION FUND		\$10,350.00

**Construction Fund
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Auman to approve Construction Fund #004 in the amount of \$10,350.00. The motion passed unanimously.

Revenue Fund #177	Debt Service, Operation and Maintenance Expenses	\$1,000,000
TOTAL REVENUE FUND		\$1,000,000

**Revenue Fund
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Dempsey to approve Revenue Fund #177 in the amount of \$1,000,000.00. The motion passed unanimously.

6.2 Residential Solar Presentation

At the April Meeting it was suggested that a work session be held for the Residential Solar Project. Due to unforeseen circumstances, it was not possible to schedule the meeting. Recognizing there is still a lot of material to digest, and likely a lot of questions, a presentation has been prepared to go through the pilot project.

The presentation will cover the legal review, risk, financing, and a projected schedule. A work session can be scheduled for the week of May 24, or, if the Board wishes, the May meeting can be adjourned until that date so action can be considered.

As of the writing of this report, 212 property owners have expressed interest in the program, so there is no question that there is sufficient demand to fill the size of the pilot program.

Recommendation: At the end of the May meeting, adjourn the meeting to a date and time in the week of May 24 to allow for action. An alternative is to schedule a work session in the week of May 24 and wait for the regular June 16 meeting for action.

7 Other Business

Mr. Gaines asked for further clarification on the segregation of duties section of the audit report, page 80 to 83 of the May packet, as he did not realize that the same individual handles many different matters. Mr. Cory Miller said there are controls built in, but they are back-end controls not front-end controls. Anything that needs to have someone else doing the second half of the transaction is done by a different individual, usually consisting of Cory or Jason.

8 Adjournment

The meeting was adjourned at 5:10 p.m. via motion by Mr. Nucciarone and second by Mr. Guss.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

06/10/2021 11:36
jgrove

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

P 1
glytdbud

FOR 2021 05

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	-3,626,284.89	.00	-11,247,647.11	24.4%
1040420	REVENUE-SOLIDS	-74,000	0	-74,000	-55,835.58	.00	-18,164.42	75.5%
1040425	REVENUE-BU WATER	-25,000	0	-25,000	-10,394.00	.00	-14,606.00	41.6%
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	-382,569.52	.00	-731,509.48	34.3%
1040450	REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-15,910.97	.00	-24,089.03	39.8%
1040451	REVENUE-MISC. REIMBURSEMNT	-272,914	0	-272,914	-8,546.27	.00	-264,367.41	3.1%
1040470	INTEREST EARNINGS-CASH ACCT	-1,410	0	-1,410	-211.19	.00	-1,198.81	15.0%
1040472	INTEREST EARNINGS-PLIGIT	-375	0	-375	-1.02	.00	-373.98	.3%
1040474	INTEREST EARNINGS - TRUSTEE	-90,555	0	-90,555	-73,651.68	.00	-16,903.32	81.3%
1040480	REVENUES-MISCELLANEOUS	-95,000	0	-95,000	-14,390.35	.00	-80,609.65	15.1%
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	301,203.71	.00	1,769,296.29	14.5%
1045922	CIP-COLLECTION-CONST. EQUIP	379,776	0	379,776	.00	.00	379,776.00	.0%
1045924	CIP-WWTP-PHYSICAL PLANT	6,589,060	0	6,589,060	585,893.10	.00	6,003,166.90	8.9%
1045928	CIP-BENEFICIAL REUSE	242,250	0	242,250	271,542.80	.00	-29,292.80	112.1%
1045929	CIP-WWTP-DEWATERING FACILIT	0	0	0	47,155.59	.00	-47,155.59	100.0%
1045930	CIP-WWTP-COMPOST FACILITY	10,330,000	0	10,330,000	230,666.01	.00	10,099,333.99	2.2%
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	789,333.28	.00	968,293.72	44.9%
1050053	G & A - INFORMATION TECHNOL	94,265	0	94,265	10,614.83	.00	83,650.17	11.3%
1050054	G & A - FLEET/FUEL	197,000	0	197,000	75,743.22	.00	121,256.78	38.4%
1052052	DEBT SERVICE	6,655,882	0	6,655,882	1,597,627.44	.00	5,058,254.82	24.0%
1060019	WWTP - LABORATORY	323,063	0	323,063	123,324.78	.00	199,738.01	38.2%
1060022	TREATMENT PLANT MAINTENANCE	1,120,589	0	1,120,589	426,065.80	.00	694,523.20	38.0%
1060023	MAIN STATION	89,000	0	89,000	20,810.08	.00	68,189.92	23.4%
1060025	WWTP - IPP	117,018	0	117,018	42,337.76	.00	74,680.24	36.2%
1060028	WWTP - BENEFICIAL REUSE	848,408	0	848,408	326,002.69	.00	522,405.31	38.4%
1060029	WWTP - DEWATERING	476,278	0	476,278	140,567.11	.00	335,710.89	29.5%
1060030	WWTP - COMPOST	917,004	0	917,004	394,436.20	.00	522,567.80	43.0%
1060032	TREATMENT PLANT OPERATION	1,896,631	0	1,896,631	709,202.29	.00	1,187,428.71	37.4%
1070021	COLLECTION-MAINTENANCE	1,757,721	0	1,757,721	691,234.07	.00	1,066,486.93	39.3%
1070022	CONSTRUCT EQUIP MAINTENANCE	65,000	0	65,000	50,015.31	.00	14,984.69	76.9%
1070034	COLLECTION-INSPECTION	450,239	0	450,239	176,939.52	.00	273,299.48	39.3%
1070036	COLLECTION-PUMP STATION	157,600	0	157,600	30,648.68	.00	126,951.32	19.4%
TOTAL OPERATING FUND		20,087,346	0	20,087,346	2,783,978.23	.00	17,303,368.14	13.9%
TOTAL REVENUES		-16,652,265	0	-16,652,265	-4,271,219.97	.00	-12,381,044.71	
TOTAL EXPENSES		36,739,611	0	36,739,611	7,055,198.20	.00	29,684,412.85	

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<u>1040410 REVENUE-SEWER</u>							
1040410 4101 UAJA TOTAL SEWER R	-10,324,932	0	-10,324,932	-2,581,611.23	.00	-7,743,320.77	25.0%*
1040410 4102 BORO SEWER TOTAL R	-3,800,000	0	-3,800,000	-909,929.18	.00	-2,890,070.82	23.9%*
1040410 4103 PGM TOTAL SEWER RE	-379,000	0	-379,000	-84,244.24	.00	-294,755.76	22.2%*
1040410 4104 PSU TOTAL SEWER RE	-220,000	0	-220,000	-16,544.24	.00	-203,455.76	7.5%*
1040410 4105 SURCHARGES TOTAL R	-150,000	0	-150,000	-33,956.00	.00	-116,044.00	22.6%*
TOTAL REVENUE-SEWER	-14,873,932	0	-14,873,932	-3,626,284.89	.00	-11,247,647.11	24.4%
<u>1040420 REVENUE-SOLIDS</u>							
1040420 4201 N5001 NONTAXABLE	-45,000	0	-45,000	-18,037.50	.00	-26,962.50	40.1%*
1040420 4201 N5002 TAXABLE COMPO	-6,000	0	-6,000	-6,731.93	.00	731.93	112.2%
1040420 4203 SLUDGE DISPOSAL	-23,000	0	-23,000	-31,066.15	.00	8,066.15	135.1%
TOTAL REVENUE-SOLIDS	-74,000	0	-74,000	-55,835.58	.00	-18,164.42	75.5%
<u>1040425 REVENUE-BU WATER</u>							
1040425 4251 REVENUE-BU WATER	-25,000	0	-25,000	-10,394.00	.00	-14,606.00	41.6%*
TOTAL REVENUE-BU WATER	-25,000	0	-25,000	-10,394.00	.00	-14,606.00	41.6%
<u>1040430 MAINTENANCE</u>							
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%
<u>1040440 REVENUE-PERMIT/TAP FEES</u>							
1040440 4401 PERMIT/CONNECTION	-20,250	0	-20,250	-11,073.23	.00	-9,176.77	54.7%*
1040440 4402 TAP FEE-TREATMENT	-846,400	0	-846,400	-342,295.85	.00	-504,104.15	40.4%*

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1040440	4403	GHANER TAP FEE	-18,550	0	-18,550	-9,331.00	.00	-9,219.00	50.3%*
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	.00	.00	-4,750.00	.0%*
1040440	4409	WATER QUALITY MNGT	-500	0	-500	-200.00	.00	-300.00	40.0%*
1040440	4410	REPAIR PERMIT	-1,550	0	-1,550	-475.00	.00	-1,075.00	30.6%*
1040440	4411	TAP FEE - ROUTE 26	-109,850	0	-109,850	.00	.00	-109,850.00	.0%*
1040440	4412	CIRCLEVILLE TAP FE	-79,306	0	-79,306	-1,062.54	.00	-78,243.46	1.3%*
1040440	4413	VALLEY VISTA TAP F	-28,495	0	-28,495	-18,131.90	.00	-10,363.10	63.6%*
TOTAL REVENUE-PERMIT/TAP FEES		-1,114,079	0	-1,114,079	-382,569.52	.00	-731,509.48	34.3%	
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	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	-15,910.97	.00	-24,089.03	39.8%	
1040451 REVENUE-MISC. REIMBURSEMNT									
1040451	4503	EMPLOYEE GROUP INS	-22,914	0	-22,914	-8,546.27	.00	-14,367.41	37.3%*
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	-8,546.27	.00	-264,367.41	3.1%	
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	-45.54	.00	-354.46	11.4%*
1040470	4717	SWEEP CHECKING-INT	-1,000	0	-1,000	-165.65	.00	-834.35	16.6%*
TOTAL INTEREST EARNINGS-CASH ACCTS		-1,410	0	-1,410	-211.19	.00	-1,198.81	15.0%	
1040472 INTEREST EARNINGS-PLIGIT									
1040472	4703	PLIGIT-INTEREST EA	-30	0	-30	-.06	.00	-29.94	.2%*

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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	-.75	.00	-144.25	.5%*
TOTAL INTEREST EARNINGS-PLIGIT		-375	0	-375	-1.02	.00	-373.98	.3%
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1040474 INTEREST EARNINGS - TRUSTEE								
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1040474 4706	BOND REMP/IMP-INTE	-30,000	0	-30,000	-23,695.36	.00	-6,304.64	79.0%*
1040474 4707	BRIF/EMMAUS-INTERE	-555	0	-555	-4.48	.00	-550.52	.8%*
1040474 4724	INTEREST 93 DEBT S	-50,000	0	-50,000	-319,049.57	.00	269,049.57	638.1%
1040474 4725	INT 93 OPERATING E	-2,000	0	-2,000	-2,326.33	.00	326.33	116.3%
1040474 4726	INT 93 DEBT SERVIC	-5,000	0	-5,000	271,735.37	.00	-276,735.37	-5434.7%*
1040474 4727	INT REVENUE FUND	-3,000	0	-3,000	-61.52	.00	-2,938.48	2.1%*
1040474 4733	2020A CONSTRUCTION	0	0	0	-161.60	.00	161.60	100.0%
1040474 4734	2021 CONSTRUCTION	0	0	0	-88.19	.00	88.19	100.0%
TOTAL INTEREST EARNINGS - TRUSTEE		-90,555	0	-90,555	-73,651.68	.00	-16,903.32	81.3%
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1040480 REVENUES-MISCELLANEOUS								
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1040480 4899	MISCELLANEOUS RECE	-50,000	0	-50,000	609.65	.00	-50,609.65	-1.2%*
1040480 4909	SOLAR MAINTENANCE	-45,000	0	-45,000	-15,000.00	.00	-30,000.00	33.3%*
TOTAL REVENUES-MISCELLANEOUS		-95,000	0	-95,000	-14,390.35	.00	-80,609.65	15.1%
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1045919 CIP-WWTP-LAB								
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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%
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1045921 CIP-COLLECTION MAINT I&I								
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1045921 0021 6271	SHILOH RELOCAT	70,000	0	70,000	93,177.52	.00	-23,177.52	133.1%*
1045921 0021 6272	GREENBRIAR ENG	50,000	0	50,000	8,931.97	.00	41,068.03	17.9%

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ACCOUNTS FOR: 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1045921	0021 6285	WHITEHALL ROAD	35,000	0	35,000	.00	35,000.00	.0%
1045921	0021 6300	CAPITAL IN PRO	516,000	0	516,000	.00	516,000.00	.0%
1045921	0021 6312	HAYMARKET PROJ	35,000	0	35,000	.00	35,000.00	.0%
1045921	0021 6315	UAJA CONDUIT P	91,000	0	91,000	67,126.27	23,873.73	73.8%
1045921	5405 6235	GRAYSWOODS ENG	15,000	0	15,000	.00	15,000.00	.0%
1045921	5405 6271	SHILOH RELOCAT	5,000	0	5,000	998.45	4,001.55	20.0%
1045921	5405 6272	GREENBRIAR ENG	10,000	0	10,000	7,237.50	2,762.50	72.4%
1045921	5405 6300	SCOTT ROAD UPG	177,000	0	177,000	82,775.00	94,225.00	46.8%
1045921	5405 6310	WHITEHALL ROAD	19,200	0	19,200	5,200.00	14,000.00	27.1%
1045921	5405 6313	HAYMARKET ENGI	16,800	0	16,800	.00	16,800.00	.0%
1045921	5405 6316	UAJA CONDUIT E	24,000	0	24,000	35,087.00	-11,087.00	146.2%*
1045921	5505 6300	PUMP STATION M	749,000	0	749,000	.00	749,000.00	.0%
1045921	ER01 6271	SHILOH RELOCAT	5,000	0	5,000	670.00	4,330.00	13.4%
1045921	ER05 6300	RENTAL-TRUCK	75,000	0	75,000	.00	75,000.00	.0%
1045921	PV01 6271	SHILOH TRENCH	25,000	0	25,000	.00	25,000.00	.0%
1045921	PV01 6300	PAVING CONTRAC	30,000	0	30,000	.00	30,000.00	.0%
1045921	PV01 6311	WHITEHALL ROAD	15,000	0	15,000	.00	15,000.00	.0%
1045921	PV01 6314	HAYMARKET TREN	17,500	0	17,500	.00	17,500.00	.0%
1045921	PV01 6317	UAJA CONDUIT T	25,000	0	25,000	.00	25,000.00	.0%
1045921	PV02 6271	SHILOH BIKE PA	65,000	0	65,000	.00	65,000.00	.0%
TOTAL CIP-COLLECTION MAINT I&I		2,070,500	0	2,070,500	301,203.71	.00	1,769,296.29	14.5%
1045922 CIP-COLLECTION-CONST. EQUIPM								
1045922	0021 6288	NEW COLLECTION	20,000	0	20,000	.00	20,000.00	.0%
1045922	0021 6328	NEW UNIT 22	11,821	0	11,821	.00	11,821.00	.0%
1045922	0021 6329	NEW T-TAG	20,860	0	20,860	.00	20,860.00	.0%
1045922	0021 6330	NEW JET TRUCK	172,095	0	172,095	.00	172,095.00	.0%
1045922	0021 6331	NEW STORAGE BU	155,000	0	155,000	.00	155,000.00	.0%
TOTAL CIP-COLLECTION-CONST. EQUIPM		379,776	0	379,776	.00	.00	379,776.00	.0%
1045924 CIP-WWTP-PHYSICAL PLANT								
1045924	0024 6256	ENR/AWT PROJEC	0	0	170,542.58	.00	-170,542.58	100.0%*
1045924	0024 6260	SOLAR PROJECT	98,000	0	98,000	97,097.79	902.21	99.1%
1045924	0024 6294	NEW TRUCK PLAN	15,300	0	15,300	.00	15,300.00	.0%
1045924	0024 6304	AERATION SYSTE	725,000	0	725,000	25,844.75	699,155.25	3.6%
1045924	0024 6320	5000 LB FORKLI	10,083	0	10,083	.00	10,083.00	.0%

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1045924	0024 6321	22,773	0	22,773	.00	.00	22,773.00	.0%
1045924	0024 6322	350,404	0	350,404	2,100.00	.00	348,304.00	.6%
1045924	0024 6323	22,500	0	22,500	17,784.55	.00	4,715.45	79.0%
1045924	0024 6324	115,000	0	115,000	49,462.25	.00	65,537.75	43.0%
1045924	0024 6325	4,050,000	0	4,050,000	8,078.09	.00	4,041,921.91	.2%
1045924	0024 6333	180,000	0	180,000	130,657.45	.00	49,342.55	72.6%
1045924	0024 6334	1,000,000	0	1,000,000	84,325.64	.00	915,674.36	8.4%
TOTAL CIP-WWTP-PHYSICAL PLANT		6,589,060	0	6,589,060	585,893.10	.00	6,003,166.90	8.9%
1045928 CIP-BENEFICIAL REUSE								
1045928	0028 6239	90,000	0	90,000	74,080.00	.00	15,920.00	82.3%
1045928	0028 6262	20,000	0	20,000	178,331.79	.00	-158,331.79	891.7%*
1045928	0028 6332	110,000	0	110,000	10,016.36	.00	99,983.64	9.1%
1045928	5405 6261	7,250	0	7,250	3,721.90	.00	3,528.10	51.3%
1045928	5405 6332	15,000	0	15,000	4,585.25	.00	10,414.75	30.6%
1045928	ER05 6262	0	0	0	807.50	.00	-807.50	100.0%*
TOTAL CIP-BENEFICIAL REUSE		242,250	0	242,250	271,542.80	.00	-29,292.80	112.1%
1045929 CIP-WWTP-DEWATERING FACILITY								
1045929	0029 6309	0	0	0	47,155.59	.00	-47,155.59	100.0%*
TOTAL CIP-WWTP-DEWATERING FACILITY		0	0	0	47,155.59	.00	-47,155.59	100.0%
1045930 CIP-WWTP-COMPOST FACILITY								
1045930	0030 6245	0	0	0	29,648.50	.00	-29,648.50	100.0%*
1045930	0030 6295	40,000	0	40,000	.00	.00	40,000.00	.0%
1045930	0030 6326	690,000	0	690,000	199,735.01	.00	490,264.99	28.9%
1045930	0030 6327	9,600,000	0	9,600,000	.00	.00	9,600,000.00	.0%
1045930	5405 6245	0	0	0	1,282.50	.00	-1,282.50	100.0%*
TOTAL CIP-WWTP-COMPOST FACILITY		10,330,000	0	10,330,000	230,666.01	.00	10,099,333.99	2.2%
1045950 CIP-GENERAL & ADMINISTRATIVE								
1045950	0050 6043	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	86,773.43	.00	169,643.57	33.8%
1050050	5002 REGULAR LABOR	355,201	0	355,201	109,922.83	.00	245,278.17	30.9%
1050050	5006 VACATION	0	0	0	23,879.55	.00	-23,879.55	100.0%*
1050050	5007 SICK	0	0	0	2,375.04	.00	-2,375.04	100.0%*
1050050	5008 PERSONAL	0	0	0	4,051.91	.00	-4,051.91	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	9,335.43	.00	-9,335.43	100.0%*
1050050	5101 FICA EXPENSE	37,920	0	37,920	14,777.87	.00	23,142.13	39.0%
1050050	5102 MEDICARE EXPENSE	8,868	0	8,868	3,456.02	.00	5,411.98	39.0%
1050050	5201 UNEMPLOYMENT EXPEN	23,000	0	23,000	16,226.24	.00	6,773.76	70.5%
1050050	5202 GROUP HEALTH INSUR	154,661	0	154,661	55,396.36	.00	99,264.64	35.8%
1050050	5203 PENSION (401) UAJA	86,804	0	86,804	22,049.34	.00	64,754.66	25.4%
1050050	5205 COBRA EMPLOYEE INS	10,000	0	10,000	6,885.76	.00	3,114.24	68.9%
1050050	5207 GROUP LIFE INSURAN	80,400	0	80,400	43,368.62	.00	37,031.38	53.9%
1050050	5208 HEALTH DEDUCTIBLE	175,000	0	175,000	46,512.59	.00	128,487.41	26.6%
1050050	5301 OFFICE SUPPLIES	15,000	0	15,000	11,650.50	.00	3,349.50	77.7%
1050050	5302 POSTAGE/SHIPPING	30,000	0	30,000	13,679.45	.00	16,320.55	45.6%
1050050	5303 JANITORIAL SUPPLIE	7,000	0	7,000	2,894.33	.00	4,105.67	41.3%
1050050	5307 PETTY CASH EXPENDI	200	0	200	17.98	.00	182.02	9.0%
1050050	5401 ADVERTISING	3,000	0	3,000	1,066.33	.00	1,933.67	35.5%
1050050	5402 AUDIT	23,000	0	23,000	22,310.30	.00	689.70	97.0%
1050050	5405 ENGINEERING-RETAIN	20,000	0	20,000	10,326.01	.00	9,673.99	51.6%
1050050	5406 LEGAL	60,000	0	60,000	27,310.00	.00	32,690.00	45.5%
1050050	5408 INSURANCE - COMMER	280,000	0	280,000	198,915.00	.00	81,085.00	71.0%
1050050	5499 MISCELLANEOUS OUTS	15,000	0	15,000	9,394.50	.00	5,605.50	62.6%
1050050	5501 1054 O & M - COPIER	5,000	0	5,000	2,464.72	.00	2,535.28	49.3%
1050050	5601 COMMUNICATIONS	40,000	0	40,000	15,243.47	.00	24,756.53	38.1%
1050050	5701 TRAINING, SEMINARS	5,000	0	5,000	800.00	.00	4,200.00	16.0%
1050050	5702 MEMBERSHIPS, SUBSC	6,500	0	6,500	6,695.00	.00	-195.00	103.0%*
1050050	5703 UNIFORMS-BOOTS-GLO	18,000	0	18,000	5,604.12	.00	12,395.88	31.1%
1050050	5704 VACCINATIONS	1,500	0	1,500	.00	.00	1,500.00	.0%
1050050	5706 EMPLOYEE/EMPLOYER	2,500	0	2,500	830.80	.00	1,669.20	33.2%
1050050	5707 MEAL ALLOWANCE	500	0	500	.00	.00	500.00	.0%
1050050	5708 SAFETY EQUIPMENT	8,000	0	8,000	1,519.15	.00	6,480.85	19.0%
1050050	5709 SAFETY TRAINING	3,000	0	3,000	.00	.00	3,000.00	.0%
1050050	5710 DRUG/ALCOHOL TESTI	500	0	500	293.00	.00	207.00	58.6%

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ACCOUNTS FOR: 10	OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1050050	6006	MISCELLANEOUS EXPE	1,000	0	1,000	.00	.00	1,000.00 .0%
1050050	6015	WATER-CTWA	6,000	0	6,000	1,814.00	.00	4,186.00 30.2%
1050050	6017	GARBAGE	10,000	0	10,000	5,172.89	.00	4,827.11 51.7%
1050050	6019	CNET	8,656	0	8,656	4,306.50	.00	4,349.50 49.8%
TOTAL GENERAL & ADMINISTRATIVE		1,757,627	0	1,757,627	789,333.28	.00	968,293.72	44.9%
1050053 G & A - INFORMATION TECHNOLOGY								
1050053	IT71	INTERNET SERVICE	5,000	0	5,000	1,516.32	.00	3,483.68 30.3%
1050053	IT72	HARDWARE-DATA PROC	18,365	0	18,365	.00	.00	18,365.00 .0%
1050053	IT73	SOFTWARE-DATA PROC	69,900	0	69,900	9,098.51	.00	60,801.49 13.0%
1050053	IT74	TRAINING-DATA PROC	1,000	0	1,000	.00	.00	1,000.00 .0%
TOTAL G & A - INFORMATION TECHNOLOGY		94,265	0	94,265	10,614.83	.00	83,650.17	11.3%
1050054 G & A - FLEET/FUEL								
1050054	5502	VEHICLE MAINTENANC	75,000	0	75,000	18,205.50	.00	56,794.50 24.3%
1050054	5603	1006 GASOLINE.	35,000	0	35,000	14,527.39	.00	20,472.61 41.5%
1050054	5603	1008 DIESEL FUEL	87,000	0	87,000	43,010.33	.00	43,989.67 49.4%
TOTAL G & A - FLEET/FUEL		197,000	0	197,000	75,743.22	.00	121,256.78	38.4%
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%
1052052	6125	TRUSTEE FESS 2017A	1,750	0	1,750	.00	.00	1,750.00 .0%
1052052	6126	TRUSTEE FEE 2017B	2,520	0	2,520	.00	.00	2,520.00 .0%

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1052052	6127 TRUSTEE FEE 2018	1,650	0	1,650	.00	.00	1,650.00	.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	1,597,627.44	.00	5,058,254.82	24.0%
1060019 WWTP - LABORATORY								
1060019	5001 SUPERVISOR LABOR	82,847	0	82,847	29,590.44	.00	53,256.14	35.7%
1060019	5002 REGULAR LABOR	140,638	0	140,638	43,276.57	.00	97,361.64	30.8%
1060019	5003 OVERTIME LABOR	500	0	500	401.17	.00	98.83	80.2%
1060019	5006 VACATION	0	0	0	1,300.17	.00	-1,300.17	100.0%*
1060019	5007 SICK	0	0	0	6,502.34	.00	-6,502.34	100.0%*
1060019	5008 PERSONAL DAY	0	0	0	367.74	.00	-367.74	100.0%*
1060019	5010 HOLIDAY	0	0	0	2,547.51	.00	-2,547.51	100.0%*
1060019	5101 FICA EXPENSE	14,000	0	14,000	5,283.28	.00	8,716.72	37.7%
1060019	5102 MEDICARE EXPENSE	3,241	0	3,241	1,235.27	.00	2,005.73	38.1%
1060019	5202 GROUP HEALTH INSUR	41,270	0	41,270	16,865.47	.00	24,404.53	40.9%
1060019	5203 PENSION (401) UAJA	15,317	0	15,317	5,684.21	.00	9,632.79	37.1%
1060019	5305 SMALL EQUIPMT/TOOL	250	0	250	42.74	.00	207.26	17.1%
1060019	5306 LAB SUPPLIES	22,000	0	22,000	8,520.93	.00	13,479.07	38.7%
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	123,324.78	.00	199,738.01	38.2%
1060022 TREATMENT PLANT MAINTENANCE								
1060022	5001 SUPERVISOR LABOR	37,815	0	37,815	13,876.56	.00	23,938.44	36.7%
1060022	5002 REGULAR LABOR	462,062	0	462,062	126,998.76	.00	335,063.24	27.5%
1060022	5003 OVERTIME LABOR	5,000	0	5,000	3,285.37	.00	1,714.63	65.7%
1060022	5006 VACATION	0	0	0	32,345.95	.00	-32,345.95	100.0%*
1060022	5007 SICK	0	0	0	17,784.70	.00	-17,784.70	100.0%*
1060022	5008 PERSONAL DAY	0	0	0	8,963.65	.00	-8,963.65	100.0%*
1060022	5009 JURY/CIVIL/VOLUNTE	0	0	0	256.18	.00	-256.18	100.0%*
1060022	5010 HOLIDAY	0	0	0	5,766.11	.00	-5,766.11	100.0%*
1060022	5101 FICA EXPENSE	31,000	0	31,000	10,669.71	.00	20,330.29	34.4%
1060022	5102 MEDICARE EXPENSE	7,250	0	7,250	2,495.33	.00	4,754.67	34.4%
1060022	5202 GROUP HEALTH INSUR	98,577	0	98,577	41,954.96	.00	56,622.04	42.6%
1060022	5203 PENSION (401) UAJA	26,885	0	26,885	9,051.59	.00	17,833.41	33.7%
1060022	5304 OPERATIONAL SUPPLI	5,000	0	5,000	1,388.71	.00	3,611.29	27.8%
1060022	5305 SMALL EQUIPMT/TOOL	14,000	0	14,000	4,298.71	.00	9,701.29	30.7%

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1060022	5501 EQUIPMENT MAINTENA	190,000	0	190,000	63,243.18	.00	126,756.82	33.3%
1060022	5501 6174 SCADIA MAINT	40,000	0	40,000	19,673.06	.00	20,326.94	49.2%
1060022	5501 6175 UV MAINT	55,000	0	55,000	4,879.14	.00	50,120.86	8.9%
1060022	5501 6283 SOLAR MAINTENA	21,000	0	21,000	18,383.50	.00	2,616.50	87.5%
1060022	5503 BUILDING & GROUND	52,000	0	52,000	14,892.26	.00	37,107.74	28.6%
1060022	5508 GRIT REMOVAL-PLANT	22,000	0	22,000	15,008.76	.00	6,991.24	68.2%
1060022	5603 FUEL, OIL, LUBRICA	18,000	0	18,000	8,344.61	.00	9,655.39	46.4%
1060022	7511 LANDSCAPE	35,000	0	35,000	2,505.00	.00	32,495.00	7.2%
TOTAL TREATMENT PLANT MAINTENANCE		1,120,589	0	1,120,589	426,065.80	.00	694,523.20	38.0%
1060023 MAIN STATION								
1060023	5002 B5001 REGULAR LABOR	0	0	0	6,444.81	.00	-6,444.81	100.0%*
1060023	5101 B5001 FICA EXPENSE	0	0	0	399.56	.00	-399.56	100.0%*
1060023	5102 B5001 MEDICARE EXPE	0	0	0	93.46	.00	-93.46	100.0%*
1060023	5202 B5001 GROUP HEALTH	0	0	0	1,012.50	.00	-1,012.50	100.0%*
1060023	5203 B5001 PENSION (401)	0	0	0	322.18	.00	-322.18	100.0%*
1060023	5505 B5001 PUMP STATION	50,000	0	50,000	.00	.00	50,000.00	.0%
1060023	5602 B5001 O&M MAIN STAT	39,000	0	39,000	12,537.57	.00	26,462.43	32.1%
TOTAL MAIN STATION		89,000	0	89,000	20,810.08	.00	68,189.92	23.4%
1060025 WWTP - IPP								
1060025	5001 SUPERVISOR LABOR	81,347	0	81,347	29,563.70	.00	51,783.30	36.3%
1060025	5006 VACATION	0	0	0	96.38	.00	-96.38	100.0%*
1060025	5010 HOLIDAY	0	0	0	406.73	.00	-406.73	100.0%*
1060025	5101 FICA EXPENSE	5,044	0	5,044	1,864.20	.00	3,179.80	37.0%
1060025	5102 MEDICARE EXPENSE	1,180	0	1,180	436.10	.00	743.90	37.0%
1060025	5202 GROUP HEALTH INSUR	17,162	0	17,162	6,952.07	.00	10,209.93	40.5%
1060025	5203 PENSION (401) UAJA	8,135	0	8,135	3,006.60	.00	5,128.40	37.0%
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	.00	.00	3,500.00	.0%
1060025	5501 EQUIPMENT MAINTENA	500	0	500	.00	.00	500.00	.0%
TOTAL WWTP - IPP		117,018	0	117,018	42,337.76	.00	74,680.24	36.2%
1060028 WWTP - BENEFICIAL REUSE								
1060028	5001 SUPERVISOR LABOR	37,815	0	37,815	13,876.56	.00	23,938.44	36.7%

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1060028	5006	VACATION	0	0	96.38	.00	-96.38	100.0%*
1060028	5010	HOLIDAY	0	0	406.73	.00	-406.73	100.0%*
1060028	5101	FICA EXPENSE	2,345	2,345	891.60	.00	1,453.40	38.0%
1060028	5102	MEDICARE EXPENSE	548	548	208.60	.00	339.40	38.1%
1060028	5202	GROUP HEALTH INSUR	7,918	7,918	3,303.76	.00	4,614.24	41.7%
1060028	5203	PENSION (401) UAJA	3,782	3,782	1,437.90	.00	2,344.10	38.0%
1060028	5304	OPERATIONAL SUPPLI	15,000	15,000	1,304.37	.00	13,695.63	8.7%
1060028	5304	1065 OPERATIONAL SU	375,000	375,000	160,405.21	.00	214,594.79	42.8%
1060028	5305	SMALL EQUIPMT/TOOL	1,000	1,000	.00	.00	1,000.00	.0%
1060028	5410	LAB ANALYSIS	15,000	15,000	8,806.02	.00	6,193.98	58.7%
1060028	5501	EQUIPMENT MAINTENA	125,000	125,000	54,636.07	.00	70,363.93	43.7%
1060028	5602	1064 POWER	200,000	200,000	68,177.39	.00	131,822.61	34.1%
1060028	5605	CTWA REIMBURSE	65,000	65,000	12,452.10	.00	52,547.90	19.2%
TOTAL WWTP - BENEFICIAL REUSE		848,408	0	848,408	326,002.69	.00	522,405.31	38.4%
1060029 WWTP - DEWATERING								
1060029	5001	SUPERVISOR LABOR	37,815	37,815	13,873.62	.00	23,941.38	36.7%
1060029	5002	REGULAR LABOR	134,339	134,339	44,787.72	.00	89,551.28	33.3%
1060029	5003	OVERTIME LABOR	2,000	2,000	279.39	.00	1,720.61	14.0%
1060029	5004	SHIFT LABOR	0	0	8.88	.00	-8.88	100.0%*
1060029	5006	VACATION	0	0	1,586.49	.00	-1,586.49	100.0%*
1060029	5007	SICK	0	0	1,522.94	.00	-1,522.94	100.0%*
1060029	5008	PERSONAL	0	0	412.47	.00	-412.47	100.0%*
1060029	5010	HOLIDAY	0	0	1,400.14	.00	-1,400.14	100.0%*
1060029	5101	FICA EXPENSE	10,674	10,674	4,001.95	.00	6,672.05	37.5%
1060029	5102	MEDICARE EXPENSE	2,496	2,496	935.99	.00	1,560.01	37.5%
1060029	5202	GROUP HEALTH INSUR	24,956	24,956	15,086.02	.00	9,869.98	60.5%
1060029	5203	PENSION (401) UAJA	10,498	10,498	3,897.94	.00	6,600.06	37.1%
1060029	5304	OPERATIONAL SUPPLI	500	500	34.47	.00	465.53	6.9%
1060029	5304	1036 POLYMER	55,000	55,000	19,040.00	.00	35,960.00	34.6%
1060029	5501	EQUIPMENT MAINTENA	125,000	125,000	2,709.37	.00	122,290.63	2.2%
1060029	5602	1042 POWER-DEWATERI	73,000	73,000	30,989.72	.00	42,010.28	42.5%
TOTAL WWTP - DEWATERING		476,278	0	476,278	140,567.11	.00	335,710.89	29.5%
1060030 WWTP - COMPOST								
1060030	5001	SUPERVISOR LABOR	37,815	37,815	13,873.62	.00	23,941.38	36.7%

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1060030	5002	REGULAR LABOR	258,231	0	258,231	84,159.74	.00	174,071.26	32.6%
1060030	5003	OVERTIME LABOR	10,000	0	10,000	9,168.09	.00	831.91	91.7%
1060030	5006	VACATION	0	0	0	6,034.87	.00	-6,034.87	100.0%*
1060030	5007	SICK	0	0	0	1,436.23	.00	-1,436.23	100.0%*
1060030	5008	PERSONAL	0	0	0	352.78	.00	-352.78	100.0%*
1060030	5010	HOLIDAY	0	0	0	3,924.43	.00	-3,924.43	100.0%*
1060030	5101	FICA EXPENSE	18,355	0	18,355	7,495.83	.00	10,859.17	40.8%
1060030	5102	MEDICARE EXPENSE	4,293	0	4,293	1,753.11	.00	2,539.89	40.8%
1060030	5202	GROUP HEALTH INSUR	82,230	0	82,230	18,901.05	.00	63,328.95	23.0%
1060030	5203	PENSION (401) UAJA	16,693	0	16,693	6,168.90	.00	10,524.10	37.0%
1060030	5304	OPERATIONAL SUPPLI	2,000	0	2,000	172.37	.00	1,827.63	8.6%
1060030	5304	1038 COMPOST AMEND	120,000	0	120,000	17,132.50	.00	102,867.50	14.3%
1060030	5305	SMALL EQUIPMT/TOOL	2,500	0	2,500	400.77	.00	2,099.23	16.0%
1060030	5409	LICENSE & FEES	5,500	0	5,500	1,263.25	.00	4,236.75	23.0%
1060030	5410	LAB ANALYSIS	11,500	0	11,500	2,880.00	.00	8,620.00	25.0%
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	16,702.89	.00	33,297.11	33.4%
1060030	5506	1032 SKID STEER 184	5,000	0	5,000	676.20	.00	4,323.80	13.5%
1060030	5506	1033 FRONT END LOAD	10,000	0	10,000	534.32	.00	9,465.68	5.3%
1060030	5506	1055 STREET SWEEPER	4,000	0	4,000	1,866.30	.00	2,133.70	46.7%
1060030	5506	1062 CAT SKID STEER	7,500	0	7,500	11,701.08	.00	-4,201.08	156.0%*
1060030	5506	1071 LOADER MAINT 6	10,000	0	10,000	3,406.98	.00	6,593.02	34.1%
1060030	5506	1072 TROMMEL	5,000	0	5,000	7,160.39	.00	-2,160.39	143.2%*
1060030	5602	1041 POWER-COMPOST	131,000	0	131,000	55,781.51	.00	75,218.49	42.6%
1060030	5603	1007 NATURAL GAS -	120,000	0	120,000	116,602.49	.00	3,397.51	97.2%
TOTAL WWTP - COMPOST		917,004	0	917,004	394,436.20	.00	522,567.80	43.0%	
1060032 TREATMENT PLANT OPERATION									
1060032	5001	SUPERVISOR LABOR	37,815	0	37,815	13,873.62	.00	23,941.38	36.7%
1060032	5002	REGULAR LABOR	623,915	0	623,915	201,150.77	.00	422,764.23	32.2%
1060032	5003	OVERTIME LABOR	60,000	0	60,000	14,426.43	.00	45,573.57	24.0%
1060032	5004	SHIFT LABOR	12,000	0	12,000	4,375.27	.00	7,624.73	36.5%
1060032	5006	VACATION	0	0	0	11,198.24	.00	-11,198.24	100.0%*
1060032	5007	SICK	0	0	0	7,779.42	.00	-7,779.42	100.0%*
1060032	5008	PERSONAL DAY	0	0	0	4,010.16	.00	-4,010.16	100.0%*
1060032	5009	JURY/CIVIL/VOLUNTE	0	0	0	480.49	.00	-480.49	100.0%*
1060032	5010	HOLIDAY	0	0	0	9,131.24	.00	-9,131.24	100.0%*
1060032	5101	FICA EXPENSE	41,027	0	41,027	16,643.48	.00	24,383.52	40.6%
1060032	5102	MEDICARE EXPENSE	9,595	0	9,595	3,892.45	.00	5,702.55	40.6%

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1060032	5202	GROUP HEALTH INSUR	174,552	0	174,552	80,366.03	.00	94,185.97	46.0%
1060032	5203	PENSION (401) UAJA	34,977	0	34,977	10,867.30	.00	24,109.70	31.1%
1060032	5304	OPERATION SUPPLIES	500	0	500	.00	.00	500.00	.0%
1060032	5304	1034 ALUM	200,000	0	200,000	86,745.61	.00	113,254.39	43.4%
1060032	5304	1070 CARBON SUPPLEM	225,000	0	225,000	47,295.36	.00	177,704.64	21.0%
1060032	5405	1053 STREAM MONITOR	14,250	0	14,250	.00	.00	14,250.00	.0%
1060032	5409	LICENSE & FEES	9,000	0	9,000	2,800.00	.00	6,200.00	31.1%
1060032	5410	ANALYSIS	10,000	0	10,000	17,225.82	.00	-7,225.82	172.3%*
1060032	5499	MISCELLANEOUS OUTS	40,000	0	40,000	21,992.00	.00	18,008.00	55.0%
1060032	5602	1043 POWER-PLANT	404,000	0	404,000	154,948.60	.00	249,051.40	38.4%
TOTAL TREATMENT PLANT OPERATION			1,896,631	0	1,896,631	709,202.29	.00	1,187,428.71	37.4%
1070021 COLLECTION-MAINTENANCE									
1070021	5001	SUPERVISOR LABOR	133,058	0	133,058	44,667.33	.00	88,390.67	33.6%
1070021	5002	REGULAR LABOR	1,008,605	0	1,008,605	51,548.10	.00	957,056.90	5.1%
1070021	5002	6172 REGULAR LABOR	0	0	0	37,324.40	.00	-37,324.40	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	114,216.04	.00	-114,216.04	100.0%*
1070021	5002	6272 REGULAR LABOR	0	0	0	12,193.32	.00	-12,193.32	100.0%*
1070021	5002	6315 REGULAR LABOR	0	0	0	10,418.11	.00	-10,418.11	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	3,279.47	.00	-3,279.47	100.0%*
1070021	5002	B5003 REGULAR LABOR	0	0	0	3,239.21	.00	-3,239.21	100.0%*
1070021	5002	B5004 REGULAR LABOR	0	0	0	2,767.88	.00	-2,767.88	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	9,495.27	.00	5,504.73	63.3%
1070021	5006	VACATION	0	0	0	18,928.76	.00	-18,928.76	100.0%*
1070021	5007	SICK	0	0	0	24,301.56	.00	-24,301.56	100.0%*
1070021	5008	PERSONAL	0	0	0	3,499.10	.00	-3,499.10	100.0%*
1070021	5009	JURY/CIVIL/VOLUNTE	0	0	0	387.48	.00	-387.48	100.0%*
1070021	5010	HOLIDAY	0	0	0	20,418.05	.00	-20,418.05	100.0%*
1070021	5101	FICA EXPENSE	70,803	0	70,803	25,078.70	.00	45,724.30	35.4%
1070021	5101	6172 FICA EXPENSE	0	0	0	2,314.10	.00	-2,314.10	100.0%*
1070021	5101	B5001 FICA-O & M MA	0	0	0	3.97	.00	-3.97	100.0%*
1070021	5102	MEDICARE EXPENSE	16,554	0	16,554	5,865.16	.00	10,688.84	35.4%
1070021	5102	6172 MEDICARE EXPEN	0	0	0	541.38	.00	-541.38	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	134,145.56	.00	198,319.44	40.3%
1070021	5202	6172 GROUP HEALTH I	0	0	0	14,108.55	.00	-14,108.55	100.0%*
1070021	5202	B5001 GRP HEALTH IN	0	0	0	20.92	.00	-20.92	100.0%*

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

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FOR 2021 05

ACCOUNTS FOR: 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1070021	5203 PENSION (401) UAJA	63,736	0	63,736	20,415.54	.00	43,320.46	32.0%
1070021	5203 6172 PENSION (401)	0	0	0	1,672.93	.00	-1,672.93	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	2,312.00	.00	10,688.00	17.8%
1070021	5504 SEWER LINE MAINTEN	90,000	0	90,000	43,554.85	.00	46,445.15	48.4%
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	3,736.75	.00	-236.75	106.8%*
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	691,234.07	.00	1,066,486.93	39.3%
1070022 CONSTRUCT EQUIP MAINTENANCE								
1070022	5501 SMALL EQUIPMENT MA	5,000	0	5,000	2,571.61	.00	2,428.39	51.4%
1070022	5506 LG. CONSTRC. EQUIP	60,000	0	60,000	47,443.70	.00	12,556.30	79.1%
TOTAL CONSTRUCT EQUIP MAINTENANCE		65,000	0	65,000	50,015.31	.00	14,984.69	76.9%
1070034 COLLECTION-INSPECTION								
1070034	5001 SUPERVISOR LABOR	133,058	0	133,058	44,667.49	.00	88,390.51	33.6%
1070034	5002 REGULAR LABOR	208,723	0	208,723	55,896.58	.00	152,826.42	26.8%
1070034	5002 B5026 GRAYSWOODS	0	0	0	1,701.96	.00	-1,701.96	100.0%*
1070034	5002 B5387 CANTERBURY CR	0	0	0	33.13	.00	-33.13	100.0%*
1070034	5002 B5466 HARNER FARM S	0	0	0	2,467.84	.00	-2,467.84	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	3,131.63	.00	7,868.37	28.5%
1070034	5006 VACATION	0	0	0	2,938.19	.00	-2,938.19	100.0%*
1070034	5007 SICK	0	0	0	9,841.45	.00	-9,841.45	100.0%*
1070034	5008 PERSONAL	0	0	0	1,009.32	.00	-1,009.32	100.0%*
1070034	5009 JURY/CIVIL/VOLUNTE	0	0	0	787.76	.00	-787.76	100.0%*
1070034	5010 HOLIDAY	0	0	0	3,940.90	.00	-3,940.90	100.0%*
1070034	5101 FICA EXPENSE	21,190	0	21,190	8,070.33	.00	13,119.67	38.1%
1070034	5102 MEDICARE EXPENSE	4,956	0	4,956	1,887.45	.00	3,068.55	38.1%
1070034	5202 GROUP HEALTH INSUR	45,470	0	45,470	19,669.87	.00	25,800.13	43.3%
1070034	5203 PENSION (401) UAJA	23,742	0	23,742	8,599.15	.00	15,142.85	36.2%
1070034	5304 OPERATIONAL SUPPLI	1,600	0	1,600	206.50	.00	1,393.50	12.9%
1070034	5305 SMALL EQUIPMT/TOOL	500	0	500	30.20	.00	469.80	6.0%
1070034	5507 SEWER LINE INSPEC/	0	0	0	1,143.93	.00	-1,143.93	100.0%*
1070034	5507 B5026 GRAYSWOODS	0	0	0	1,566.50	.00	-1,566.50	100.0%*

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

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FOR 2021 05

ACCOUNTS FOR: 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
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 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	176,939.52	.00	273,299.48	39.3%
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	.00	.00	22,000.00	.0%
1070036	5505 O & M PUMP STATION	70,000	0	70,000	8,086.80	.00	61,913.20	11.6%
1070036	5505 B5002 O & M CLASTER	200	0	200	.00	.00	200.00	.0%
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	.00	.00	200.00	.0%
1070036	5602 POWER	62,000	0	62,000	21,588.82	.00	40,411.18	34.8%
1070036	5602 B5002 POWER-CLASTER	500	0	500	35.06	.00	464.94	7.0%
1070036	5602 B5004 POWER-SOUTH M	500	0	500	241.63	.00	258.37	48.3%
1070036	5603 PUMP STATION PROPA	1,000	0	1,000	453.06	.00	546.94	45.3%
TOTAL COLLECTION-PUMP STATION		157,600	0	157,600	30,648.68	.00	126,951.32	19.4%
TOTAL OPERATING FUND		20,087,346	0	20,087,346	2,783,978.23	.00	17,303,368.14	13.9%
TOTAL REVENUES		-16,652,265	0	-16,652,265	-4,271,219.97	.00	-12,381,044.71	
TOTAL EXPENSES		36,739,611	0	36,739,611	7,055,198.20	.00	29,684,412.85	



UNIVERSITY AREA JOINT AUTHORITY

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

Cash Accounts

General Checking	\$384,168.01
Payroll Checking	\$5,915.24
PLIGIT Checking	\$1,521.28
Petty Cash	\$99.56

Revenue Fund Accounts

Revenue Sweep	\$67,044.77
Revenue Trustee	\$4,264,944.73

Savings Accounts

PLIGIT Plus	\$8,486.35
93 BRIF	\$6,234,956.45
Emmaus BRIF	\$217,095.38

TOTAL LIQUID ASSETS **\$11,185,055.98**

Dedicated Accounts

2015 DSF	\$237.90
2016 DSF	\$0.00
2017 DSF	\$160.57
2017A DSF	\$154.72
2017 B & C DSF	\$761.72
2018 DSF	\$302.55
2020 DSF	\$6,526.27
2020A DSF	\$0.86
2021 DSF	\$0.33
2021A DSF	\$1,011.41
2020A Construction Fund	\$8,996,129.59
2021 Construction Fund	\$8,818,690.87
2020A Capitalized Interest Fund	\$354,231.82
2021 Capitalized Interest Fund	\$452,829.46

TOTAL DEDICATED ASSETS **\$18,631,038.07**

Restricted Accounts

93 Oper. Expense Reserve	\$305,608.45
93 Debt Service Reserve	\$6,730,084.97

\$7,035,693.42

Receivables Outstanding (1st quarter 2021)

UAJA Sewer	\$266,011.05
UAJA Surcharge	\$52.00
Borough Sewer	\$0.00
PGM Sewer	\$17,226.56
PSU Sewer	\$0.00

TOTAL OUTSTANDING



COMPOST & SEPTAGE OPERATIONS REPORT

May 2021

COMPOST PRODUCTION AND DISTRIBUTION

	<u>Dec. 2020</u>	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>	<u>Apr. 2021</u>	<u>May 2021</u>
Production	848 cu/yds.	716 cu/yds.	673 cu/yds.	897 cu/yds.	848 cu/yds.	1,004 cu/yds.
YTD. Production	12,079 cu/yds.	716 cu/yds.	1,389 cu/yds.	2,286cu/yds.	3,134 cu/yds.	4,138cu/yds.
Distribution	0 cu/yds.	120cu/yds.	11 cu/yds.	978 cu/yds.	963cu/yds.	2,132cu/yds.
YTD. Distribution	12,512 cu/yds.	120 cu/yds.	131 cu/yds.	1,109 cu/yds.	2,072cu/yds.	4,204cu/yds.
Immediate Sale	1,684 cu/yds.	2,412 cu/yds.	3,117 cu/yds.	2,812 cu/yds.	2,746 cu/yds.	1,462cu/yds.
Currently in Storage	2,532 cu/yds.	3,128 cu/yds.	3,790 cu/yds.	3,709 cu/yds.	3,594 cu/yds.	2,466 cu/yds.

SEPTAGE OPERATIONS

	<u>Dec. 2020</u>	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>	<u>Apr. 2021</u>	<u>May 2021</u>
Res./Comm.	78,350 gals.	55,000 gals.	57,530 gals.	71,300 gals.	74,400 gals.	69,800 gals.
CH/Potter	5,041.53 lbs/solids	5,421.00 lbs/solids	3,923.97 lbs/solids	2,777.22 lbs/solids	0.00 lbs/solids	0.00 lbs/solids
Port Matilda	1,601.28 lbs/solids	834.00 lbs/solids	1,434.48 lbs/solids	1,684.68 lbs/solids	500.40 lbs/solids	1,434.48 lbs/solids
Huston Twp.	733.92 lbs/solids	717.24 lbs/solids	617.16 lbs/solids	533.76 lbs/solids	600.48 lbs/solids	683.88 lbs/solids
Total Flow	133,250 gals.	116,000 gals.	114,030gals.	113,800 gals.	88,400 gals.	95,800 gals.



SUPERINTENDENT'S REPORT

June 10, 2021
Arthur G. Brant

PLANT OPERATION

The treatment plant is operating well with one exception. The 12-month rolling average flow for May was 3.22mgd with the average for the month being 3.09mgd. The average monthly **influent** flow was 4.87mgd. Treatment units online are as follows: primary clarifiers #1, #5 and #6; aeration basins #1 and #3; secondary clarifiers #1, #2, #3 and #4; all eight tertiary filters are online.

Below is the chart for Reuse Distribution and Temperature Data:

	May-21	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	30,000	108,000		
Centre Hills	4,685,000	5,875,000	May-21	May-21
Cintas	482,000	2,343,000	62.4	62.1
Red Line	616,000	2,819,000		
Uaja Wetland	5,486,000	19,648,000		
GDK Vault	33,534,000	112,060,000		
Kissingers	1,879,000	9,843,000		
Stewarts/M.C.	2,000	12,000		
TOTAL	46,714,000	152,708,000		

PLANT MAINTENANCE

- Replaced wiring for limit switches on all 6 primary tanks. All were tested.
- Changed oil in #2 Primary air compressor.
- Re-installed Landia mixers in #2 Aeration basin.
- Bearing is noisy in Main Station Pump #1. RAM was in to inspect and replace bearing under warranty.
- Repaired lighting and conduit that was damaged in bunker of Compost (corrosion).
- Replaced hydraulic hose on 621E loader.
- Replaced faulty thermal couplers in zones 8C, 9D, and 10D.
- Made an entry into Primary tank #5 to clean out duck-bills on aeration lines.
- CIP on both RO's.
- Replaced fuel pump and filter on 98 service truck.



COLLECTION SYSTEM SUPERINTENDENT'S REPORT
Activities for the month of May 2021
Mark Harter, Superintendent

MAINLINE MAINTENANCE:

Shiloh Pump Station Project – Installed fence, poured concrete curb, started restoration.
Conduit Project – 2,904 ft of conduit, 23,550 ft of interduct, and 23 pull boxes were installed.
Completed restoration at the Solar fields project.
Installed new lateral at – 743 Henszey street.
Mainline repair – 262 Dale street.
Main Line Televising – 5,724 ft televised - 32 manholes inspected.
Mainline Cleaning – 1,996 ft cleaned – 13 manholes inspected.

LIFT STATION MAINTENANCE

Replaced transducer at Outer drive station.
Replaced off float at Haymarket station.
Repalced contact and relay at Persia station.
Cleaned (8) lift station wet wells.

NEXT MONTH PROJECTS:

Complete the Shiloh Rd. pump station upgrade project.
Complete phase 1 of the conduit project.
Casting adjustments for Township paving projects.
Cleaning wet wells.
Start the Scott road upgrade project.

INSPECTION: Final As-Built Approved: None

Mainline Construction:

- a. Harner Farms – Awaiting As-Built.
- b. Grays Pointe phase 6 sec D.1 – Constuction is approximately (80%) complete.
- c. Canterbury Crossing 4&5 phase 1C – Construction is approximately (80%) complete.

New Connections:

a.	Single-Family Residential	5	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Non-Residential	0

TOTAL 5

PA One-Calls Responded to 05/1-31/21: 394

ENGINEER'S REPORT

University Area Joint Authority

June 16, 2021

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

Consulting Engineer Services (R001178.0693)

- The annual inspection was completed for discharges of stormwater.

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 is being compiled as required by DEP to transition from an air quality plan approval to an operating permit.
- It has been discovered that the spare recirculation pump was returned to Global Heavy and not to the site. The return of the pump is being coordinated by the Authority's solicitor.

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

- Contract 2020-02 (Ligonier) - A value of \$3,000.00 is being retained as a punch list item until restoration can be confirmed. The Contractor is scheduled to complete the restoration requirements on June 12th.

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

- Final design and contract documents have been prepared.
- Ferguson Township provided review comments to the Zoning Permit submission. A variance requested will need to be made to be presented to the Zoning Hearing Board. The request must be submitted by the fourth Monday of June to be heard on the fourth Tuesday of July.
- The NPDES permit was submitted.
- Proposed Easement Exhibits have been prepared and were provided to the Authority's solicitor.

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

- A meeting with staff to establish project goals, discuss updates to the plan and develop a schedule for coordinate with Centre Region Planning Agency is scheduled for June 16th.

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.

Fiber Optic Conduit – (R001178.0687)

- Columbia Gas provided a letter of no objection which was executed by the Authority for encroachment in the right-of-way near Premier Drive. An easement exhibit was prepared and provided to the Authority's solicitor.
- Drawings are being prepared for the second fiber optic conduit alignment (Trout Road to Hartman Farm Lane to Short Lane, near SR 0026).

Entry Road Storm Water Improvements – (R001178.0688)

- Permit applications have been prepared and submitted.
- A preliminary right-of-way exhibit was provided to the Authority's solicitor to begin discussions with the property owner.
- Relocation of the utility poles is being coordinated with First Energy, which will require evidence of a right-of-way or an acknowledgement signature from the property owner.

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

- Preliminary design drawings have been prepared. The system is proposed as two zones, consisting of 1.5 inch and 2-inch diameter low pressure sewer.
- A Component 3M Sewage Facilities Planning Module is being prepared.

Princeton Drive Sanitary Sewer Replacement – (R001178.0699)

- Sanitary sewer profiles were generated using field data and proposed drawings provided by Ferguson Township's consultant. The proposed stream restoration improvements will remove any available cover on the existing sanitary line. As discussed, the sanitary line will need to be replaced at a lower slope in order to gain appropriate cover.
- Replacement of the sewer will require separate permitting, involving a GP-5 or GP-11.
- An engineering services agreement will be prepared.

Developer Plan Reviews:

- The Contractor's (GOH/Hawbaker Eng) as-built drawings for the sanitary system associated with the PennDOT work in North Atherton St. was recommended to Staff; May 11, 2021 (1178.0686).
- There are no Developer plans under review at this time.

Respectfully Submitted,

HERBERT, ROWLAND & GRUBIC, INC.



Benjamin R. Burns, P.E.
Team Leader | Water & Wastewater

**University Area Joint Authority
 Summation of Project Activities**

June 2021

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.

Sludge Storage Tank Mixer (094612034)

- Final closeout document packages have been issued to 4-M Construction Services LLC (2020-01) and Stelco, Inc. (2020-05) under separate cover.

Aeration Line Improvements (094612035)

- Construction is proceeding with both contractors, GM McCrossin (2020-08) and HRI (2020-09). The pipe bridge is expected to begin the week of June 21st.

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	1	\$47,917.63	\$511,096.00	\$57,722.28	11.29%	\$463,178.37
2020-09	3	\$22,950.00	\$103,505.00	\$41,005.00	39.62%	\$66,600.50
		\$70,867.63	\$614,601.00	\$98,727.28	16.06%	\$515,873.72

- GM McCrossin (2020-08) has submitted Application for Payment No. 1 and we are recommending payment in the amount of \$47,917.63.
- HRI, Inc. (2020-09) has submitted Application for Payment No. 3 and we are recommending payment in the amount of \$22,950.00.

Solar System – Phase II – Demolition and Site Prep (094612040)

- Stone Valley Construction (2020-10) has completed all punchlist items and has submitted Application for Payment No. 5-Final. We are recommending payment in the amount of \$26,590.80.

Solar System – Phase II Project

- We are working with West Penn Power to obtain approval to begin operation of the second phase of the solar array. We expect the new battery to be operational by mid-July.

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
2020-10	5-Final	\$26,590.80	\$265,908.00	\$265,908.00	100.00%	\$0.00
		\$26,590.80	\$265,908.00	\$265,908.00	100.00%	\$0.00

WWTP NPDES Permit – Phosphorus Study (094612027)

- Installation of the stream monitoring instruments and data collection has begun, with continuous monitoring of Spring Creek 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)

- RETTEW is completing final design activities and is targeting a July 2021 request for bids for the project, pending approval of the Act 537 Special Study and issuance of the Water Quality Management Permit by the DEP.

Anaerobic Digestion Project (094612026)

- The Act 537 Special Study for Biosolids is working its way through the planning agency review and public comment periods.
- The Water Quality Management Part II Permit is under review by the DEP.
- RETTEW has begun final design of the proposed improvements to biosolids handling and treatment and will begin requesting bids later this fall.

High Voltage Switchgear Replacement (094612045)

- Thoroughbred Construction Group has been installing new high voltage manholes and ductbanks in anticipation of the new switchgear. We have provided a Work Change Directive with an estimated cost of \$16,000 due to the relocation of the service to the AWT Building. The routing of this feed to the building's transformer was not as shown on the plant's record drawings and was subsequently located directly beneath the main West Penn Power feed serving the plant. Due to the hazard associated with intercepting these existing conduits to pull new wires, a new conduit routing will be placed through the parking lot, next to the AWT Building.
- Thoroughbred Construction Group (2020-11) has submitted Application for Payment No. 1 and we are recommending payment in the amount of \$150,318.00.

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	1	\$150,318.00	\$1,043,639.00	\$167,020.00	16.00%	\$893,321.00
		\$150,318.00	\$1,043,639.00	\$167,020.00	16.00%	\$893,321.00

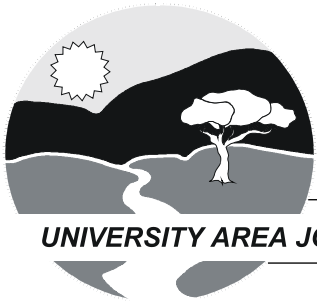
Water Quality Instrumentation (094612033)

- We have completed the integration of several new instruments to monitor water quality throughout the Advance Water Treatment process. The instruments are now online and continuously analyzing turbidity, pH, and conductivity at key points in the treatment process.

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.

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EXECUTIVE DIRECTOR'S REPORT

June 16, 2021

ACTION ITEMS

3. Public Comment

3.1 Other items not on the agenda

4. Old Business

4.1 Purchase of Vactor Sewer Cleaner

Staff proposes to purchase a 2100i Vactor Sewer Cleaner with Hydrostatic Vacuum System Truck for \$471,541.44 from A&H Equipment. The price includes a trade in value of \$45,000.00 for our existing sewer cleaner. The equipment is under the State contract, so no bids are required. UAJA has over 20 years of experience with our current sewer cleaner, as well as an inventory of parts and equipment that matches the new cleaner.

Recommendation: Purchase the sewer cleaner from A&H Equipment for \$471,541.44, including a credit of \$45,000 for the existing sewer cleaner.

5. New Business

5.1 2020 Summation of Capacity Report Presentation

Each year after the Chapter 94 Report is approved, RETTEW updates the Summation of Capacity Report. The Summation of Capacity Report provides much more detail and adds effluent hydraulic capacity and nutrient capacity to the analysis. It is an important document for both UAJA and the Centre Region Municipalities for tracking the allocation of capacity and being aware of what is the limiting factor to capacity, as well as what potential threats exist to the capacity.

A representative of RETTEW will present a summary of the report.

Recommendation: Presentation, no action required.

5.2 Residential Solar Pilot Project

UAJA continues to work through the remaining legal issues for the residential solar pilot project. It is apparent that it may take a long time, possibly a year, to resolve the issues, which may require legislative action. Therefore, staff recommends notifying all of the property owners that have expressed interest that it may be a long time before we solve the problem, and that they may want to consider more traditional financing options.

Recommendation: Instruct staff to notify property owners of the legal delay and the possible need for legislative action.

5.3 Requisitions

BRIF #560	Rettew Phosphorus Study	\$2,521.79
BRIF #561	Rettew AWT Control Panel Upgrade	\$22,469.97
BRIF #562	Rettew Switchgear Replacement Project	\$7,032.25
BRIF #563	Rettew AWT Instrumentation	\$6,718.92
BRIF #564	Rettew Sludge Storage Tank Project	\$1,567.50
BRIF #565	HRG Entry Road Project	\$2,009.31
BRIF #566	Mayer Electric Supply Co. Conduit Project	\$1,962.41
BRIF #567	Siteone Landscape Supply Conduit Project	\$980.43
BRIF #568	Glossner's Concrete Shiloh Pump Station Upgrade	\$1,195.00
BRIF #569	Stone Valley Construction Pay App. No. 5- Solar Phase II	\$26,590.80
BRIF #570	Thoroughbred Construction Pay App. No. 1- Switchgear Project	\$150,318.00
TOTAL BRIF		\$223,366.38
Construction Fund #005	HRI Pay App. No. 3- Aeration Line Project	\$22,950.00
Construction Fund #006	G.M. McCrossin Pay App. No. 1- Aeration Line Project	\$47,917.63
Construction Fund #007	Rettew Aeration Line Project	\$2,140.00

Construction Fund #008	Rettew Biosolids Upgrade Project	\$36,864.99
Construction Fund #009	Rettew Ozone Disinfection Project	\$36,258.25
TOTAL 2020 A CONSTRUCTION FUND		\$146,130.87
Revenue Fund #178	Debt Service, Operation and Maintenance Expenses	\$1,000,000
TOTAL REVENUE FUND		\$1,000,000

6. Reports of Officers

7. Other Business

8. Adjournment

CAPACITY SUMMATION

FOR

SPRING CREEK POLLUTION CONTROL FACILITY

UNIVERSITY AREA JOINT AUTHORITY
CENTRE COUNTY, PENNSYLVANIA

RETTEW Project No. 094612050
JUNE 2021



Prepared by
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EXECUTIVE SUMMARY

To assist the Authority, and outside agencies that may rely upon planning estimations, this report summarizes the Authority’s capacity limitations at the existing Spring Creek Pollution Control Facility (“Facility”). The report reviews the four major capacity limitations at the Facility:

- Influent Hydraulic Capacity – Capacity for the Facility to treat the liquid portion of the wastewater
- Effluent Hydraulic Capacity – Capacity for the facility to discharge the treated water to the environment
- Organic Capacity – Capacity for the Facility to remove the organic fraction of the wastewater
- Nutrient Capacity – Capacity for the Facility to remove the nutrient fraction of the wastewater

The following report outlines the various capacity components, current conditions, and calculates the remaining capacity in consideration of the physical assets (tankage, equipment, etc.), but also reasonable assumptions on operations and regulatory requirements. A detailed review of the following report provides context to the numbers presented below. All figures are converted to Equivalent Dwelling Units (“EDU’s”) to be consistent with Authority and Regional Planning figures.

RETTEW estimates that the remaining Authority capacity for the Spring Creek Pollution Control Facility is currently limited by Effluent Hydraulic Capacity and is reflective of approximately 14,087 EDUs, which includes a safety factor for the Authority to have a greater chance of operating within its permit limits.

The future capacity is as likely to be limited by nutrient capacity, specifically, nitrogen. The Phase III Watershed Improvements Plan provided by the PA DEP and actual water quality indicators project that Pennsylvania will not meet the 2025 requirements for the Chesapeake Bay TMDL, which increases the likelihood of backstop limits being imposed by EPA that would affect the Authority’s maximum discharge. Based on the 2020 loadings to the plant, the remaining capacity under this scenario is 15,921 EDU’s. Since it is not possible to further improve treatment to increase this capacity, the Centre Region and Authority should begin planning for significant environmental projects to produce the future nutrient capacity needed to support the current zoning within the sewer service area.

The table below shows each of the types of capacity and the theoretical remaining capacity. The table accounts for an already allocated capacity for approved developments which have not yet connected to the sewer system. The Authority tracks the allocated capacity for College, Ferguson, Harris and Patton Townships. The Authority does not track allocated EDUs in the State College Borough sewer system. As of January 2021, there were 653 EDUs in progress.



CATEGORY	REMAINING TOTAL EDUs	REMAINING EDUs w/ RESERVED CAPACITY	REMAINING EDUs w/ 10% OPERATIONAL SAFETY FACTOR FOR WATER QUALITY PRESERVATION
Influent Hydraulic Capacity	27,257	26,605	23,944
Effluent Hydraulic Capacity	16,305	15,652	14,087
Effluent Hydraulic Capacity w/ Reduced GDK Meadow Discharge (1.50 MGD)	13,985	13,332	11,999
Organic Capacity	89,178	88,525	79,673
Total Nitrogen Capacity	28,514	27,862	25,076
Total Nitrogen Capacity at EPA Backstop Levels	18,343	17,690	15,921

INTRODUCTION

The University Area Joint Authority (“Authority”) provides sanitary sewage collection, treatment, reuse and biosolids stabilization for the Centre Region, comprising the Townships of College, Ferguson, Harris and Patton, along with portions of the Borough of State College and the Pennsylvania State University. The current Authority facility, the Spring Creek Pollution Control Facility, has been operational since the late 1960’s, and underwent significant upgrades in 2005 and 2019. These upgrades significantly modified the biological process and incorporated water reuse into the facility.

In 2008, the PA Department of Environmental Protection (“Department”) issued annual, mass based effluent limits to the Authority that required the management of Total Nitrogen and Total Phosphorus in the facility discharge. Having effluent phosphorus limits since the 1970’s, the Authority can manage the Total Phosphorus discharge and routinely sells Total Phosphorus Credits on the open market. Total Nitrogen limits however are challenging and much of the facility operations focus on managing the Total Nitrogen Mass Load.

Continued growth and regulatory tightening have created conditions where it is foreseeable that the Authority could be severely limited under the Total Nitrogen Mass Load. As such, the Authority has been proactively planning for methods and capital upgrades to increase the available nutrient capacity of the facility or increase performance for Total Nitrogen removal. Construction of these most recent improvements at the Authority’s facility were completed in 2019, which added denitrification filters and



doubled the water reuse capacity. However, it should be noted that the Authority has also pursued and constructed several non-point source improvements within the watershed and looked to collaborate on nutrient best management practices that would result in offsets to the treatment facility. Some examples of this include the elimination of septic systems (Greenbriar Project), installation of solar generation at the wastewater plant (NOx reductions), and various stormwater BMPs as part of collection system improvements. There are regulatory hurdles to this approach and the Authority continues to work with the PA DEP and Environmental Protection Agency (EPA) to attempt to get a pilot program in place. The Authority prefers to invest in environmentally beneficial projects within the watershed that improve the health and resilience of the watershed, rather than just meet the Chesapeake Bay requirements through engineered improvements at the treatment facility that are complex, costly, and difficult to operate at the low levels required for discharge. The nutrient credit market provides an alternative, but pricing and availability remain volatile, reducing its effectiveness as a tool for long-term compliance and any improvements in water quality are conducted outside the region.

To assist the Authority, and outside agencies that may rely upon planning estimations, this report summarizes the Authority's capacity limitations at the existing Spring Creek Pollution Control Facility ("Facility"). The report reviews the four major capacity limitations at the Facility:

- Influent Hydraulic Capacity – Capacity for the Facility to treat the liquid portion of the wastewater
- Effluent Hydraulic Capacity – Capacity for the facility to produce and discharge treated water to the environment
- Organic Capacity – Capacity for the Facility to remove the organic fraction of the wastewater
- Nutrient Capacity – Capacity for the Facility to remove the nutrient fraction of the wastewater

Also, to aid Policy Makers and Influencers, the report also has converted the capacity figures to relevant Equivalent Dwelling Units ("EDUs") based upon the Authority's historic planning figures:

- 175 gallons per day wastewater per EDU
- 0.4 lbs of organic load (BOD₅) per day per EDU
- 25 lbs of Nitrogen per year per EDU
- 3 lbs of Phosphorus per year per EDU

COMMITTED CAPACITY

The figures presented below in the various capacity sections are representative of the current conditions at the Authority's facility. However, the Centre Region Municipalities and the Authority have made existing commitments to developers and property owners throughout the Centre Region and there are a significant number of committed but "unconnected" EDUs. These are planned community expansions, future phases of existing developments, or projects already under construction. The Authority estimates there are approximately 653 EDUs that are unconnected but have reserved capacity with the Authority. This does not include committed capacity EDU's from within the Borough of State College.



COMMENTARY ON OPERATIONAL PREDICTIONS

The treatment and reuse of wastewater is a complex, interrelated series of processes that rely upon a combination of science, engineering and operations expertise to achieve the stringent regulatory goals imposed upon the Authority by local, state and federal agencies. The capacity figures, and predictions of remaining capacity, are dependent upon these processes and operations meeting the Authority's standards and procedures. There are events (climate, precipitation, water temperature, equipment failures, etc.) that influence operational decisions and can inevitably impact water quality and capacities at the Authority's facilities.

Notably, in 2020, the impact of the COVID-19 pandemic was felt at the treatment facility due to decreased influent flows and organic loadings because of lower University student populations in the Centre Region between March and September. The "stay at home" aspect of the past year further contributed to decreased loadings as people did not travel to the Centre Region for work, restaurants were closed or reduced service, and major events within the region were canceled.

In addition, as the facility approaches its capacity limits, the treatment and operations are less forgiving, and at the low levels the Authority is required to meet for compliance, the combination of factors can be very challenging to meet consistently. Lastly, several of the newer improvements have only recently been completed and are currently undergoing system optimization. Though the initial performance data have been very promising in terms of total nitrogen discharged to the stream, the actual long-term performance of these systems (such as the Denitrification Filters) is unknown and will have a significant impact on the capacity of the Authority's facility as the plant performance is optimized.

As a planning document, these factors must be considered in evaluating the remaining capacity of the Authority's facilities. While this current capacity summation utilizes the best available information, no prudent operation should choose to operate consistently above 80% of available capacity without considering capacity improvements or expansions. The figures presented below do not contain a marginal safety factor or other modification and are representative of current operations and known regulatory environment. The summary table included in the executive summary suggests a ten percent environmental safety factor to help protect the watershed from the impact of operational events.

INFLUENT AND EFFLUENT HYDRAULIC CAPACITY

The Authority's facilities are unique in that the hydraulic capacity of the Facility varies by influent and effluent measurement. Most wastewater treatment facilities would cite the facility capacity as the amount of wastewater hydraulically or organically that can be accepted through the influent sewer system to the facility. However, in the case of the Authority and the regulatory process that culminated in the 316A Temperature Study and Beneficial Reuse Project, the Authority has separate capacity limitations for influent and effluent wastewater hydraulic flow. These are:



Influent Capacity (As Measured as Maximum Monthly Average Flow)	10.56 MGD
Effluent Capacity (As Measured as Annual 365 Day Average)	6.00 MGD

Wastewater is measured through several different mechanisms at the Authority, but all are meters that measure volume of flow. Pollutant concentrations are also measured at various locations, and, when combined with the flow measurements, result in pollutant loadings. The community and Authority utilize EDUs for evaluating growth and capacity limitations. The flow and pollutant concentrations are converted to an EDU basis to ensure commonality.

The Authority reports to the PA DEP the Influent Capacity situation through an annual regulatory document known as the Chapter 94 Report. This report summarizes influent flow measurement and organic loading at the facility over a five-year period. The Authority’s most recent annual Chapter 94 Report determined a five-year average flow per EDU of 132 gpd and a Total Estimated EDU’s of 36,612 for the entire Authority system for Calendar Year 2020 (the lowest number calculated in more than 10 years). The Authority utilizes a stable rate of 175 gpd per EDU as the planning figure for capacity as the annual Chapter 94 Report varies with climate and age of infrastructure. For example, the figure was over 150 gpd per EDU in 2018 (a 22% variance year of year).

Based upon the Water Quality Management Permits issued for the Facility (including the Facility Re-Rate conducted in 2014) that establishes the influent capacity and the Peak Month Flow for 2020, the Facility has the following influent hydraulic conditions:

Influent Flow (As Measured as Maximum Monthly Average Flow)	5.79 MGD
Influent Capacity (As Measured as Maximum Monthly Average Flow)	10.56 MGD
Facility Loading	54.8%
Remaining Total EDU Capacity	27,257 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	26,605 EDUs

The Authority reports to the PA DEP the Effluent Capacity situation through a monthly regulatory document known as the Discharge Monitoring Report (“DMR”). To assist the Authority in evaluation of effluent capacity, the Authority Staff provide a summation monthly to the Authority Board. Based on the March 2021 Report, the Facility has the following effluent hydraulic conditions:

Effluent Flow (As Measured as Rolling Average of Previous 12 Months)	3.15 MGD
Effluent Capacity (As Measured as Annual 365 Day Average)	6.00 MGD
Facility Loading	52.4%
Remaining Total EDU Capacity	16,305 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	15,652 EDUs



It should be noted that the Facility Effluent Capacity is interlinked to the Beneficial Reuse Process and the production and reuse of the beneficial reuse water in the Centre Region. With the ENR/AWT Capital Project completed in 2019, the Authority expanded the Beneficial Reuse System to a total capacity of 2.0 MGD (As Measured as Annual 365 Day Average). This allows for increased reuse water distribution to environmental augmentation sites such as the Gordon D. Kissinger Meadow and Constructed Wetland. This also increases operational “uptime” as the Authority installed a second Reverse Osmosis Unit which allows for cleaning and maintenance while still operating at a reduced flow of 1.0 MGD. In 2020, the Authority distributed an average of 1.55 MGD of reuse water to the system.

It must be highlighted that the May 22, 2019 NPDES Permit for the environmental augmentation sites at the Gordon D. Kissinger Meadow and Constructed Wetland contains new hydraulic limitations (reduction of 0.9 MGD to a total of 2.1 MGD) and a requirement for DEP to conduct a study to review the stream classification and resulting temperature limitations that might be imposed on beneficial reuse water. This limits the Authority’s primary year-round reuse site to slightly more than the ENR/AWT Project Capacity and if the study finds a negative effect from temperature, further potential limitations could restrict or curtail reuse water use at that location. Combined, these detrimentally impact the effluent capacity of the Authority’s facilities. The DEP’s initial draft recommendations include the redesignation of the entire Slab Cabin Run basin to High Quality stream from the basin source to the confluence with Spring Creek. DEP anticipates the study being finalized in 2021.

There is ongoing litigation between the Pennsylvania Fish and Boat Commission and PA DEP that may result in temperature limits being imposed upon the GDK Meadow immediately upon completion of the litigation. Should this happen, the remaining EDU capacity could be affected as follows, assuming a hypothetical reduced discharge limit of 1.5 MGD, current average non-GDK (i.e. uses that are unrelated to the GDK wetland discharge) Beneficial Reuse usage of 0.259 MGD, and a projected annual usage of 0.094 MGD at the Mountainview facilities (to be connected in 2021):

Estimated Effluent Flow without GDK Discharge Reduction	3.15 MGD
Loss of Beneficial Reuse Flow at GDK with a theoretical 1.5 MGD limit	0.50 MGD
Estimated Net Beneficial Reuse Loss with GDK Limit and Mountainview	0.41 MGD
Estimated Effluent Flow after Limitations at GDK	3.55 MGD
Effluent Capacity (As Measured as Annual 365 Day Average)	6.00 MGD
Facility Loading	59.2%
Remaining Total EDU Capacity	13,985 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	13,332 EDUs

The example above is solely dependent on the results of the on-going litigation. If the limit is reduced beyond 1.5 MGD, then the corresponding effluent capacity would be further reduced.



ORGANIC CAPACITY

The Authority’s facilities were rerated for Organic Capacity in 2013 and took effect in 2014. Similar to the Influent Hydraulic Capacity, the Authority reports the current Organic Capacity and Loading in its Annual Chapter 94 Report. Based on the 2020 Chapter 94 Report, summarizing the calendar years of 2016 - 2020, the Facility has the following organic conditions:

Organic Loading (As Measured as Peak Monthly Average)	14,329 lbs/day
Organic Capacity (As Measured as Peak Monthly Average)	50,000 lbs/day
Facility Loading	28.7%
Remaining Total EDU Capacity	89,178 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	88,525 EDUs

The above figures illustrate that the Authority’s facility is carbon deficient for Nutrient Removal and necessitates the addition of a carbon supplement to meet discharge limitations. Carbon addition has a detrimental impact to the operation of the Authority facility and the addition of higher strength organic wastewaters within the Authority customer base would have long-term benefits. Given the operational impact of carbon supplementation, the above figures should be considered approximate given the current carbon-nitrogen ratio within the Authority influent wastewater.

Additionally, the above organic loading further demonstrates the impact the COVID-19 pandemic had on the plant as the organic loading during 2020 was the lowest in 12 years. As the Centre Region’s typical population returns in 2021, the remaining organic capacity is in actuality much less than that shown above.

NUTRIENT CAPACITY

Nutrient limits are unique at the Authority’s Facility as they are the only pollutants that has a permanent, mass cap load that is independent of the actual facility effluent flow. As the community grows, the concentrations of nitrogen and phosphorus become more stringent as the total mass of nutrients that the Authority can discharge remains unchanged as a result of the Chesapeake Bay Tributary Strategy. All major wastewater treatment facilities in the Susquehanna River Basin struggle with this limitation, but many were significantly underloaded at the time of the regulatory change, providing decades of nutrient capacity with limited growth in the service area.

The impact of nutrient limits on the Authority Facility have been the subject of several separate reports (for example, see May 2016 “Summation of Nutrient Management Alternatives” for University Area Joint Authority prepared by RETTEW) and is a complex subject. Prior to the initiation of the ENR/AWT Upgrade Capital Project by the Authority, the impact of the nutrient loading and current operational constraints would have limited the Authority to an influent flow of approximately 7.65 MGD (reduction of 28% over



current Influent Hydraulic Capacity). However, with the completion of the construction of the improved biological process, denitrification filters, and AWT expansion for further Beneficial Reuse, the Authority anticipates having sufficient nutrient capacity to coincide with its Influent and Effluent Hydraulic constraints (See Commentary on Operational Predictions).

Operation of the Denitrification Filters began in summer 2019, with effluent total nitrogen concentrations reported in the range of 1.97 to 5.34 mg/L, with an average of 3.82 mg/L from mid-July to mid-August of that year, confirming that the improvements completed during the ENR/AWT Upgrade result in the capability to achieve 5 mg/l of Total Nitrogen concentration year-round. This capability will be further verified through on-going performance optimization of the denitrification process by UAJA Staff. Assuming a 5.0 mg/L TN concentration year-round and that 1.8 MGD of Reuse Water was distributed to the community on an annual average basis, the facility would have the following capacity for Total Nitrogen:

Total Nitrogen Capacity (As Measured as Annual Mass Loading)	164,381 lbs/yr
Maximum Effluent Flow to Spring Creek at Capacity (Annual Average)	6.00 MGD*
*Limited by NPDES Permit (See Hydraulic Capacity Section)	
Maximum Influent Flow to Facility (Based on Actual Performance)	10.78 MGD
2020 Influent Flow (As Measured as Maximum Monthly Average Flow)	5.79 MGD
Remaining Total EDU Capacity	28,514 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	27,862 EDUs

With continued development of the denitrification process, a 4.0 mg/L TN concentration year-round is achievable to result in the following capacity for Total Nitrogen:

Total Nitrogen Capacity (As Measured as Annual Mass Loading)	164,381 lbs/yr
Maximum Effluent Flow to Spring Creek at Capacity (Annual Average)	6.00 MGD*
*Limited by NPDES Permit (See Hydraulic Capacity Section)	
Maximum Influent Flow to Facility (Based on Predicted Performance)	13.5 MGD
Remaining Total EDU Capacity	44,057 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	43,405 EDUs

This level of Total Nitrogen Removal will require a significant volume of carbon supplementation to meet these requirements year-round. Based upon the historical Carbon to Nitrogen ratio needed in the Aeration Tanks and the results of the Pilot Testing of the Denitrification Filters, it is estimated that annual carbon supplementation will be approximately \$670,000 (at a prevailing price of \$2.00 per gal of glycerin equivalent). If considering current EDU volume and carbon costs versus future volumes, the approximate cost in carbon supplementation is \$11.90 per year per new EDU added to the system.



However, it should be again noted that this is dependent upon the successful optimization of the technology and the current regulatory framework of an annual average mass limitation based upon a Total Nitrogen concentration of 6.0 mg/l and a Total Phosphorus concentration of 0.8 mg/l. The PA DEP released the Chesapeake Bay Tributary Strategy Phase III Watershed Improvement Plan in April 2019, and while current indications are that no further reductions from the wastewater sector will be required by the PA DEP, this will require US EPA approval. The improvements in the ENR/AWT Upgrade Project allow the Authority to remove Total Nitrogen and Total Phosphorus down to levels that would be consistent with a further reduction in mass loading limits, however, these improvements are both operational and hydraulically sensitive. If there are further tightening of nutrient limits beyond the current levels, it will have an impact on the Authority’s Nutrient Capacity and related Hydraulic and Organic Capacities.

For example, if a mass based limit was implemented that resulted in a Total Nitrogen concentration of 4.0 mg/l at Design Flow (109,588 lbs/year), the resulting remaining capacity for the Authority Facility is as follows:

Total Nitrogen Capacity (As Measured as Annual Mass Loading)	109,588 lbs/yr
Maximum Effluent Flow to Spring Creek at Capacity (Annual Average)	6.00 MGD*
*Limited by NPDES Permit (See Hydraulic Capacity Section)	
Maximum Influent Flow to Facility (Based on Predicted Performance)	9.00 MGD
2020 Influent Flow (As Measured as Maximum Monthly Average Flow)	5.79 MGD
Remaining Total EDU Capacity	18,343 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	17,690 EDUs



CONCLUSIONS

The summation of the various capacities and remaining EDUs of the University Area Joint Authority Spring Creek Pollution Control Facility are as follows:

CATEGORY	REMAINING TOTAL EDUs	REMAINING EDUs w/ RESERVED CAPACITY	REMAINING EDUs w/ 10% OPERATIONAL SAFETY FACTOR FOR WATER QUALITY PRESERVATION
Influent Hydraulic Capacity	27,257	26,605	23,944
Effluent Hydraulic Capacity	16,305	15,652	14,087
Effluent Hydraulic Capacity w/ Reduced GDK Meadow Discharge	13,985	13,332	11,999
Organic Capacity	89,178	88,525	79,673
Total Nitrogen Capacity	28,514	27,862	25,076
Total Nitrogen Capacity at EPA Backstop Levels	18,343	17,690	15,921

¹The Authority adjusts Carbon Supplementation to meet the limits required. Remaining EDU capacity is based on estimated year-round full utilization of various processes to optimize the lowest value of Total Nitrogen.

RETTEW estimates that the remaining Authority capacity for the Spring Creek Pollution Control Facility is currently limited by Effluent Capacity and is reflective of approximately 14,087 EDUs. This is a direct correlation of usage of Beneficial Reuse water for Customers and Environmental Enhancement and the expanded capacity of the Advanced Water Treatment Process. If the regulatory litigation at the GDK Wetland and Meadow reduces the available environmental reuse capacity of the site, the overall capacity of the Authority system will also be correspondingly reduced.

Aside from Effluent Capacity, Nutrient Capacity (specifically Nitrogen) remains the long-term challenge. The Authority currently has more capacity in Nutrient Load than Effluent Hydraulic Capacity, however, solutions remain to expand Effluent Hydraulic Capacity easily. If the PA Chesapeake Bay requirements are not met and EPA backstop nutrient limits are imposed, capacity will be limited by nitrogen, resulting in the effective remaining capacity of 15,921 EDUs. Pennsylvania’s continued non-compliance with the TMDL increases the likelihood of the implementation of the backstops and limitation on the Authority’s nutrient capacity.

To add additional nutrient capacity, either credits must be purchased annually, or watershed projects which produce nutrient credits must be constructed and managed, with the resulting credits transferred



to Authority. There are regulatory hurdles to this approach and the Authority continues to work with the PA DEP to attempt to get a pilot program in place. The Authority prefers to invest in Spring Creek watershed projects that produce nutrient credits as opposed to purchasing credits from the market that have no benefit to the Spring Creek Watershed.

It should be noted that the Influent, Effluent, and Organic Capacity are figures that can be altered through capital upgrades to the facility, including a third expansion to Beneficial Reuse Project to produce 3.0 MGD of Reuse Water. The Total Nitrogen Capacity is more limited, with the Authority approaching the limit of current technology through the ENR/AWT Project. As noted earlier, the long-term performance of this system, is undergoing optimization, and assuming successful removal levels consistent with those in this report, these capacity estimates represent long-term limitations to the capacity of the facility that are not easily altered under current regulatory limits or through further capital upgrades.

Lastly, as this has become a continuing document for the Authority to provide policy makers and stakeholders with guidance for remaining capacity at the Spring Creek Pollution Control Facility. Weather, precipitation, new developments, and operational changes can impact these figures and RETTEW has provided a summation table that summarizes the remaining EDU Capacity by Category and Year to illustrate the changing conditions within the region. This also provides a leveled analysis with the ability to trend these changes in future years.

CATEGORY	REMAINING EDU CAPACITY w/ 10% OPERATIONAL SAFETY FACTOR FOR WATER QUALITY PRESERVATION			
	2018	2019	2020	2018 - 2020 Average
Influent Hydraulic Capacity	12,983	16,111	23,944	17,679
Effluent Hydraulic Capacity	7,223	13,877	14,087	11,729
Organic Capacity	73,779	68,030	79,673	73,827
Total Nitrogen Capacity	14,114	17,242	25,076	18,811
Total Nitrogen Capacity at EPA Backstop Levels	4,960	8,088	15,921	9,656

Appendix A
Excerpt from Authority 2020 Chapter 94 Report

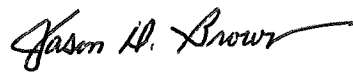
**UNIVERSITY AREA JOINT AUTHORITY
CENTRE COUNTY, PENNSYLVANIA
2020 ANNUAL CHAPTER 94
WASTELOAD MANAGEMENT REPORT**

Submitted by:



**Cory R. Miller
Executive Director**

Prepared by:



**Jason D. Brown
Assistant Executive Director**

Exhibit A

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity: MGD
 Upgrade Planned in Next 5 Years? Year:
 Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: lbs BOD5/day
 Upgrade Planned in Next 5 Years? Year:
 Future Organic Design Capacity: lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2016	2017	2018	2019	2020
January	5.55	4.99	5.07	7.08	5.03
February	6.36	5.33	6.71	7.27	5.79
March	5.44	5.08	5.72	6.72	5.17
April	5.6	5.72	6.24	6.67	5.02
May	4.78	5.46	5.51	6.22	4.88
June	4.06	4.8	5.26	5.58	4.69
July	3.87	4.49	5.41	4.94	4.27
August	4.49	4.44	6.95	4.85	4.39
September	5.11	4.91	7.84	5.6	5.15
October	5.17	4.97	6.57	5.5	5.01
November	4.53	4.98	6.61	4.91	4.62
December	4.5	4.08	6.35	5.04	5.23

Annual Avg	4.96	4.94	6.19	5.87	4.94
Max 3-Mo Avg	5.8	5.42	7.12	7.02	5.33
Max : Avg Ratio	1.17	1.10	1.15	1.20	1.08
Existing EDUs	43,472.0	45,441.0	40,058.0	42,822.0	33,612.0
Flow/EDU (GPD)	114.1	108.7	154.5	137.1	147.0
Flow/Capita (GPD)	32.6	31.1	44.2	39.2	42.0
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

	2021	2022	2023	2024	2025
New EDUs	220.0	220.0	220.0	220.0	220.0
New EDU Flow	0.0291	0.0291	0.0291	0.0291	0.0291
Proj. Annual Avg	5.41	5.4391	5.4682	5.4973	5.5264
Proj. Max 3-Mo Avg	6.16	6.19	6.22	6.26	6.29
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

Month	2016	2017	2018	2019	2020
January	2.38	3.11	2.61	4.66	2.27
February	3.23	2.01	5.86	3.91	2.41
March	1.35	3.44	1.93	2.34	4.93
April	1.63	4.31	3.88	3.55	4.3
May	3.85	6.31	4.17	6.22	3.58
June	1.94	3.81	5.4	3.61	4.94
July	2.03	5.06	9.37	2.51	1.38
August	6.13	2.56	7.37	2.64	2.03
September	2.97	1.87	8.99	1.87	2.27
October	3.23	6.32	4.27	4.5	3.3
November	0.82	2.17	5.41	2.64	3.2
December	3.16	1.22	4.49	3.05	4.49

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

Month	2016	2017	2018	2019	2020
January	14,367	17,150	13,148	17,925	11,703
February	15,145	14,427	14,922	19,067	13,795
March	15,406	12,771	13,578	18,131	11,825
April	15,628	13,766	16,094	19,405	10,070
May	13,858	13,004	13,837	14,644	9,829
June	13,078	12,461	12,599	16,639	10,540
July	12,014	11,622	12,979	13,464	10,525
August	11,673	11,645	14,257	13,988	12,475
September	14,415	13,897	16,762	15,860	14,329
October	14,769	15,675	16,036	17,816	12,293
November	14,285	14,562	16,186	15,807	10,938
December	13,318	12,187	15,458	12,107	12,830

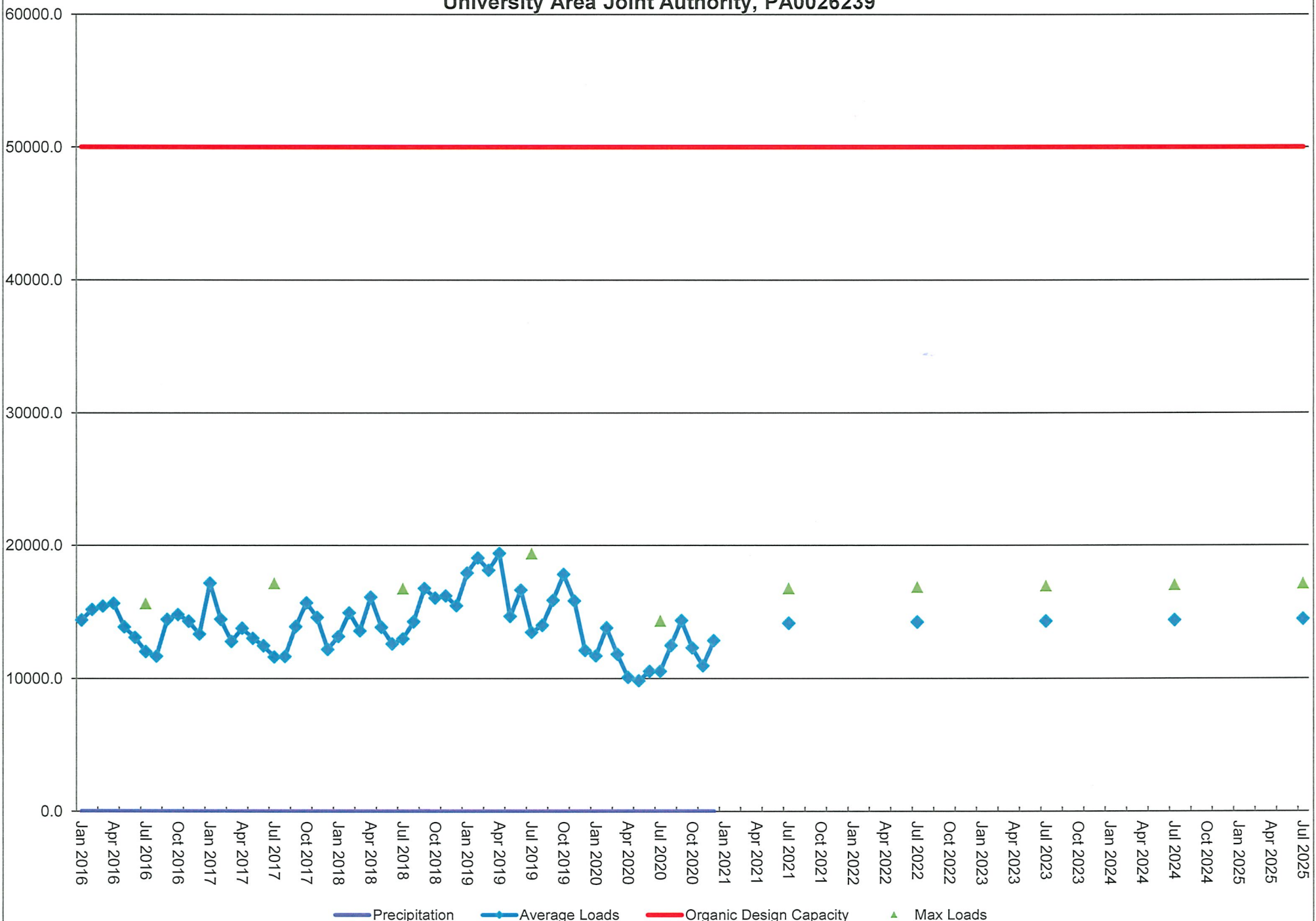
Annual Avg	13,996	13,597	14,655	16,238	11,763
Max Mo Avg	15,628	17,150	16,762	19,405	14,329
Max : Avg Ratio	1.12	1.26	1.14	1.20	1.22
Existing EDUs	43,472	45,441	40,058	42,822	33,612
Load/EDU	0.322	0.299	0.366	0.379	0.350
Load/Capita	0.092	0.085	0.105	0.108	0.100
Exist. Overload?	NO	NO	NO	NO	NO

Projected BOD5 Loads for Next Five Years (lbs/day)

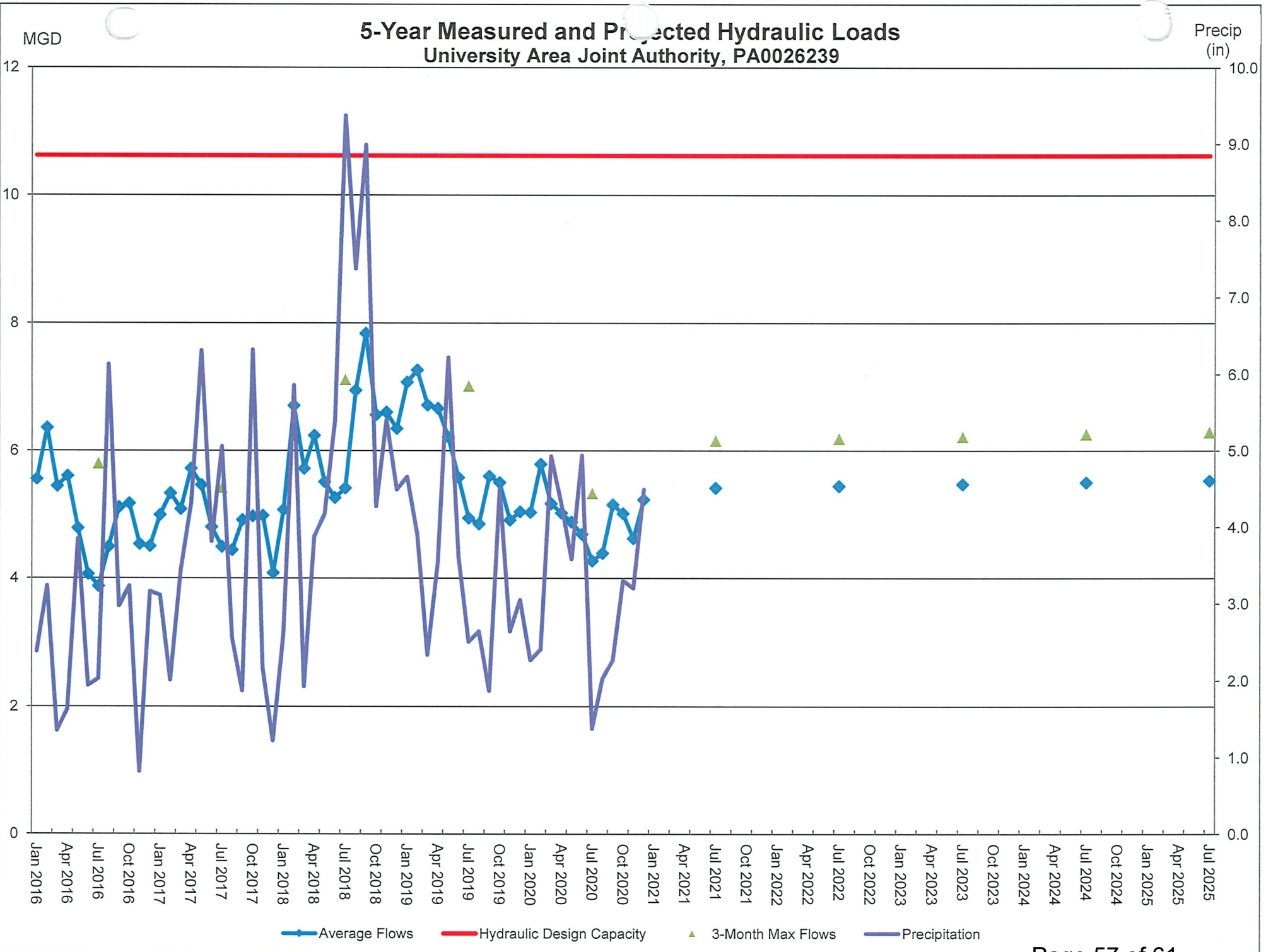
	2021	2022	2023	2024	2025
New EDUs	220	220	220	220	220
New EDU Load	75.512	75.512	75.512	75.512	75.512
Proj. Annual Avg	14,125	14,201	14,276	14,352	14,427
Proj. Max Avg	16,766	16,856	16,946	17,035	17,125
Proj. Overload?	NO	NO	NO	NO	NO

5-Year Measured and Projected Organic Loads

University Area Joint Authority, PA0026239



5-Year Measured and Projected Hydraulic Loads University Area Joint Authority, PA0026239



Monthly Total Precipitation for STATE COLLEGE, PA

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2016	2.38	3.23	1.35	1.63	3.85	1.94	2.03	6.13	2.97	3.23	0.82	3.16	32.72
2017	3.11	2.01	3.44	4.31	6.31	3.81	5.06	2.56	1.87	6.32	2.17	1.22	42.19
2018	2.61	5.86	1.93	3.88	4.17	5.40	9.37	7.37	8.99	4.27	5.41	4.49	63.75
2019	4.66	3.91	2.34	3.55	6.22	3.61	2.51	2.64	1.87	4.50	2.64	3.05	41.50
2020	2.27	2.41	4.93	4.30	3.58	4.94	1.38	2.03	2.27	3.30	3.20	4.49	39.10
2021	1.40	M	M	M	M	M	M	M	M	M	M	M	M
Mean	2.74	3.48	2.80	3.53	4.83	3.94	4.07	4.15	3.59	4.32	2.85	3.28	43.85
Max	4.66 2019	5.86 2018	4.93 2020	4.31 2017	6.31 2017	5.40 2018	9.37 2018	7.37 2018	8.99 2018	6.32 2017	5.41 2018	4.49 2018	63.75 2018
Min	1.40 2021	2.01 2017	1.35 2016	1.63 2016	3.58 2020	1.94 2016	1.38 2020	2.03 2020	1.87 2019	3.23 2016	0.82 2016	1.22 2017	32.72 2016

Exhibit B

Facility Name: University Area Joint Authority

Permit No.: PA0026239

Persons/EDU: 3.5

Existing Hydraulic Design Capacity: 10.62 MGD
 Upgrade Planned in Next 5 Years? YES Year: 2020
 Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: 50,000 lbs BOD5/day
 Upgrade Planned in Next 5 Years? YES Year: 2020
 Future Organic Design Capacity: 50,000 lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2016	2017	2018	2019	2020
January	5.55	4.99	5.07	7.08	5.03
February	6.36	5.33	6.71	7.27	5.79
March	5.44	5.08	5.72	6.72	5.17
April	5.6	5.72	6.24	6.67	5.02
May	4.78	5.46	5.51	6.22	4.88
June	4.06	4.8	5.26	5.58	4.69
July	3.87	4.49	5.41	4.94	4.27
August	4.49	4.44	6.95	4.85	4.39
September	5.11	4.91	7.84	5.6	5.15
October	5.17	4.97	6.57	5.5	5.01
November	4.53	4.98	6.61	4.91	4.62
December	4.5	4.08	6.35	5.04	5.23
Annual Avg	4.96	4.94	6.19	5.87	4.94
Max 3-Mo Avg	5.8	5.42	7.12	7.02	5.33
Max : Avg Ratio	1.17	1.10	1.15	1.20	1.08
Existing EDUs	43,472.0	45,441.0	40,058.0	42,822.0	33,612.0
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Load/Capita	0.092	0.085	0.105	0.108	0.100
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Proj. Max 3-Mo Avg	6.16	6.19	6.22	6.26	6.29
Proj. Overload?	NO	NO	NO	NO	NO

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New EDU Load	75.512	75.512	75.512	75.512	75.512
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Proj. Max Avg	16,766	16,856	16,946	17,035	17,125
Proj. Overload?	NO	NO	NO	NO	NO

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5-Year Measured and Projected Organic Loads

University Area Joint Authority, PA0026239

