



A G E N D A

Regular Meeting - 4:00 p.m. – March 18, 2020

- 1. Call to Order**
- 2. Approval of the Minutes** Regular Meeting – February 19, 2020
- 3. Public Comment**
 - 3.1 Other items not on the agenda
- 4. Old Business**
 - 4.1 Solar Phase 2 Project Update
 - 4.2 Contract UAJA 2020-01 Sludge Storage Tank Modifications
 - 4.3 Long Term Electricity Contract
 - 4.4 Contract 17-03 Global Heavy Corporation Change Proposal (Odor Control System)
 - 4.5 Contract 17-04 Hayden Power Group Change Order #1 (Odor Control System)
 - 4.6 Beneficial Reuse Service Area Draft Task Activity Report Comments
- 5. New Business**
 - 5.1 Requisitions
- 6. Reports of Officers**
 - 6.1 SCBWA Liaison
 - 6.2 Financial Report
 - 6.3 Chairman's Report
 - 6.4 Project Manager's Report
 - 6.5 Plant Superintendent's Report
 - 6.6 Collection Systems Superintendent's Report
 - 6.7 Consulting Engineer's Report
 - 6.8 Construction Engineer
 - 6.9 Executive Directors Report
- 7. Other Business**
 - 7.1
- 8. Adjournment**

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

Regular Meeting – February 19, 2020

1. Call to Order

Mr. Lapinski, Chairman, called the meeting to order at 4:04 p.m., Wednesday, February 19, 2020. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Auman, Daubert, Derr, Ebaugh, Guss and Lapinski; Cory Miller, Executive Director; Dave Smith, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Jason Brown, Project Manager; David Gaines, Solicitors; Ben Burns and Jeff Garrigan, HRG; Jason Wert, Michele Aukerman and Chris Harvey, RETTEW; Deb Hoag, State College Borough; Kevin Mullen; Tom Songer; Alice Wechsler Ball and Kathy Wheeler.

2. Reading of the Minutes

UAJA Regular Meeting – January 15, 2020

**UAJA
Meeting Minutes
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. Derr, to approve the minutes of the UAJA meeting held on January 15, 2020. The motion passed unanimously.

3. Public Comment

Mr. Mullen stated that he has four items to comment on. 1) What is the time limit per person to make public comments? 2) He has been over billed for several years. 3) When will Mr. Miller come over to reinspect his house? 4) Would like everyone to know that all Board members and executive director get discounted service to their property. Mr. Lapinski stated that Mr. Mullen needs to contact Patton Township as they are willing to work with him regarding the rental space that he has in his home.

Mr. Songer stated that he and Ms. Ball were in attendance to talk to the Board about the lot Ms. Ball just purchased. Ms. Ball summarized the discussion she had with Mr. Miller regarding getting a sewer connection permit for her lot. Mr. Songer then stated that he had nine of the 10 signatures required for the maintenance agreements for Springfield Commons. The Chairman will sign the agreements so that Mr. Songer can have them recorded. No permits will be issued for the Springfield Commons subdivision until the final agreement has been fully executed.

4. Old Business

4.1 Results of RFP – 2020 Bond Issue

PFM, our Financial Advisor, issued an RFP seeking underwriter services for our 2020 Bond Issue. Six firms responded to the RFP with RBC Capital Markets providing the winning proposal. The RFP results are included in your packet. On January 23, 2020 the bonds went to market and the result of the sale was a net savings to UAJA of \$576,712.17. The Bond Sale Document was included in the meeting packet. See Page 12 for the savings summary. Closing on the transaction is set for February 24, 2020.

4.2 2020 Rate Resolution

This item is an administrative requirement, since tapping fee rates were changed from 2019.

Those rates were approved in the budget process. The 2020 Rate Resolution with the Act 57 Tapping Fee Study attached is included in your packet.

**Potential Bond
Refunding Approved**

A motion was made by Mr. Derr, seconded by Mr. Guss, to a Adopt the 2020 Rate Resolution as presented. Motion passed unanimously.

4.3 Contract 2017-08 Biter Electrical Enterprises, Inc. Change Order #4 (FINAL)

This Change Order is the Final Change Order for this contract and will close the contract. It increases the contract price by \$23,711.84. Work completed is as follows:

- Completion of Work Change Directive #6 – valving on RO Skid #1 - **\$1,063.14**
- Completion of Work Change Directive #8 – elect. manhole MVH-1 modifications-**\$9,820.58**
- Additional light at Aeration Tanks (EC-013) - **\$2,394.86**
- Relocation of Chemical Feed Pumps per UAJA (EC-019) - **\$5,696.32**
- Remove conduit and reconnect to Ozone Unit (EC-022) - **\$4,736.94**

**Contract 2017-08 Biter
Electrical Enterprises, Inc.
Change Order #4 (FINAL)
Approved**

A motion was made by Mr. Daubert, seconded by Mr. Derr, to approve Change Order #4 (FINAL) for Contract 2017-08 Biter Electrical Enterprises for \$23,711.84. The motion passed unanimously.

5. New Business

5.1 Requisitions

Construction Fund #195	S & C Operations Harris Reuse trucking	\$5,163.75
Construction Fund #196	Pinnacle Erosion Control Harris Reuse Silt Sock	\$8,178.00
Construction Fund #197	Stitzer Crane Service Crane Rental Harris Reuse	\$3,175.00
Construction Fund #198	Rettew ENR/AWT Engineering	\$1,330.00
Construction Fund #199	Rettew ENR/AWT SCADA	\$5,128.75
Construction Fund #200	Bob Biter Electrical Enterprises ENR/AWT Electrical Pay App #13	\$85,686.74
Construction Fund #201	Hayden Power Group Odor Control Electrical Pay App #11	\$14,286.72
Subtotal #195-201		\$122,948.96

**Requisitions
Approved**

A motion was made by Mr. Derr, seconded by Mr. Auman, to approve the Construction Fund #195-201. The motion passed unanimously.

BRIF #405	Rettew Associates Sludge Storage Tank Mixer Proj.	\$624.00
BRIF #406	University Area Joint Authority Reimburse Revenue Fund for Capital Purchases made through AP in 2019	\$324,544.34
BRIF #407	Groff Tractor and Equipment Broom for Skid Steer – Collection	\$7,300.00
TOTAL BRIF		\$332,468.34

**Requisitions
Approved**

A motion was made by Mr. Daubert, seconded by Mr. Derr, to approve the Bond Redemption and Improvement Fund #405-407. The motion passed unanimously.

Revenue Fund #167	Debt Service, Operation and Maintenance Expenses	\$1,000,000
TOTAL REVENUE		\$1,000,000

**Requisitions
Approved**

A motion was made by Mr. Auman, seconded by Mr. Ebaugh, to approve the Revenue Fund #167. The motion passed unanimously.

6. Reports of Officers

6.1 SCBWA Liaison

None.

6.2 Financial Report

Mr. Smith reviewed with the Board the different cost centers of the YTD budget report for the period ending January 31, 2020.

6.3 Chairman's Report

No report.

6.4 Compost & Septage Operations Report

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

COMPOST PRODUCTION AND DISTRIBUTION

	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019	Jan. 2020
Production	954 cu/yds.	940 cu/yds.	1,190 cu/yds.	988 cu/yds.	1,188 cu/yds.	1,156 cu/yds.
YTD. Production	3,903 cu/yds.	4,843 cu/yds.	6,033 cu/yds.	7,021 cu/yds.	8,209 cu/yds.	1,156 cu/yds.
Distribution	223 cu/yds.	1,292 cu/yds.	861 cu/yds.	1,823 cu/yds.	328 cu/yds.	133 cu/yds.
YTD. Distribution	3,890 cu/yds.	5,182 cu/yds.	6,043 cu/yds.	7,866 cu/yds.	8,194 cu/yds.	133 cu/yds.
Immediate Sale	2,239 cu/yds.	1,909 cu/yds.	2,108 cu/yds.	1,475 cu/yds.	2,135 cu/yds.	3,177 cu/yds.
Currently in Storage	3,193 cu/yds.	2,849 cu/yds.	3,298 cu/yds.	2,463 cu/yds.	3,323 cu/yds.	4,333 cu/yds.

SEPTAGE OPERATIONS

	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019	Jan. 2020
Res./Comm.	23,050 gals.	20,730 gals.	19,200 gals.	17,150 gals.	4,050 gals.	7,800 gals.
CH/Potter	2,710.50 lbs/solids	3,361.02 lbs/solids	5,204.16 lbs/solids	4,553.64 lbs/solids	4,374.33 lbs/solids	7,948.02 lbs/solids
Port Matilda	914.40 lbs/solids	1,317.72 lbs/solids	166.80 lbs/solids	767.28 lbs/solids	1,017.48 lbs/solids	1,551.24 lbs/solids
Huston Twp.	667.20 lbs/solids	834.00 lbs/solids	366.96 lbs/solids	650.52 lbs/solids	517.08 lbs/solids	483.72 lbs/solids
Total Flow	52,050 gals.	60,230 gals.	61,700 gals.	63,650 gals.	51,550 gals.	87,800 gals.

6.5 Plant Superintendent's Report

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

Plant Operation

The treatment plant is operating well with no exceptions for the month of January 2020. The 12-month rolling average flow for January was 3.88mgd with the average for the month being 3.24mgd. The average monthly **influent** flow was 5.03mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Jan-20	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	30,000	30,000		
Centre Hills	0	0	Jan-20	Jan-20
Cintas	499,000	499,000	56.0	54.3
Red Line	466,000	466,000		
Uaja Wetland	6,266,000	6,266,000		
Wetland Vault	38,789,000	38,789,000		
Kissingers	1,303,000	1,303,000		

Stewarts/M.C.	2,000	2,000
TOTAL	47,355,000	47,355,000

REUSE TOTALS		
2019		394,565,500
2018		312,320,449
2017		328,702,910
2016		282,887,396
2015		248,280,380
2014		148,000,120
2013		89,951,200
2012		102,301,500
2011		88,411,500
2010		54,069,500
2009		42,818,000
2008		66,411,900
TOTAL		2,158,727,355

Plant Maintenance

- Rebuilt 2.4 hp Aeration train mixers.
- Unplugged Main Station pumps.
- Repaired water leak in Admin custodial closet.
- Replaced long belt scraper and started cleaning under the belt.
- Serviced VFD's plant wide(filters).
- Replaced belts on MAU 1304, repaired motor mounts, and cleaned flame rod on MAU 1302.
- Collections assisted plant personnel in cleaning rags out of #4 Primary Tank at D/W.
- Replaced transducer in #4 Primary Tank.
- Recalibrated Septage receiving tank level transducers.
- Replaced actuator AV15 and a collar on AV13 on MF#1.
- The heaters have been replaced in both CIP tanks.
- SWF Industrial was in to reweld stainless steel tank in AWT.

6.6 Collection System Superintendent's Report

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

Mainline Maintenance:

New Construction – Greenbriar – Installed (1,500 ft) of mainline – (480 ft) of lateral pipe – (1) Air Release.

Harris Reuse Project – Installed (840 ft) of 12" main, (32 ft) of 6" pipe.

Mainline Televising – (237 ft) televised – (2) manholes inspected.

Equipment maintenance.

Lift Station Maintenance:

Cleaned (4) lift station wet wells.

Replaced block heater at Graysdale 2B station.

Replaced telemetry radio at Outer station.

Ghaner station is now communicating through SCADA.
Routine maintenance.

NEXT MONTH PROJECTS:

Continue Greenbriar project.
Continue Harris Reuse project.
Cleaning wet wells.
Flushing mains.
New lateral on Kennard Rd and Trout Rd.

Inspection: Final As-Builts Approved: None.

Mainline Construction:

- a. The Cottages at State College – (90%) Complete.
- b. Village of PSU phase 9&10 – Awaiting As-Builts..
- c. Dreibelbis Street Hotel –Awaiting As-Builts..
- d. Morningside Nursing Home – Reviewing As-Builts.

New Connections:

a. Single-Family Residential	9	c. Commercial	1
b. Multi-Family Residential	0	d. Non-Residential	0
TOTAL			10

PA One-Calls Responded to 1/1-31/20: 251

6.7 Engineer's Report

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

Consulting Engineer Services

- The annual pump state capacity tables and sewer extension map are being prepared for the Chapter 94 Report.
- HRG is preparing an application for renewal of the Solid Waste Disposal and/or Processing Facility Permit.

Odor Control System Upgrades

Contract Times								
Contract No.	Notice to Proceed	Contract Time	Substantial Completion Date	Days Used*	Days Remaining	Final Completion	Percent of Time Remaining	Time Used
17-03	9/4/2018	320	7/21/2019	470	-213	9/4/2019	0%	100%
17-04	9/4/2018	320	7/21/2019	470	-213	9/4/2019	0%	100%

*As of date of board meeting (2/19/2020).

The Contactor has scheduled the biofilter manufacturer to be on-site between February 18th-20th for partial start-up.

Progress Meeting No. 17 was held on February 5, 2020. Minutes have been prepared.

Applications for Payment submitted by the Contractors are summarized in the following table.

Applications for Payment						
Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	% Monetary Complete	Balance to Finish
17-03	16	\$93,318.50	\$8,358,000.00	\$8,276,156.00	99.0	\$495,643.25
17-04	11	\$14,286.72	\$587,890.00	\$579,668	98.6	\$37,205.40

- The Contracts are 213 days beyond the date of Substantial Completion. Liquidated Damages in the amount of \$276,900.00 (\$1,300/day x 213 days) have accrued. The Owner is entitled to impose a set-off against payment to the Contractor for liquidated damages that have accrued. If a set-off is imposed, immediate notification must be provided stating the reason. Additional discussion will be provided at the meeting. Any imposed off-sets are not reflected in the aforementioned table.

Greenbriar Sanitary Sewer Design

- HRG is assisting with construction phase services as needed.

Shiloh Road Pump Station Upgrades

- The drawings and permit applications have been updated to reflect the changes to the pump station location and force main upgrades. A meeting is being scheduled with College Township to review the drawings prior to the submission of the planning module and permit applications.

Extension of Beneficial Reuse Water to Harris Township (1178.0637)

- Bidders were notified of the Authority's rejection of all bids.
- HRG is providing alignment and appurtenance stakeout for the project as needed.
- The drawings have been updated to illustrate open trench construction for three of the four highway crossings. The applications for permit amendments are ready to be submitted.

Scott Road Pump Station and Bristol Interceptor – Act 537 Plan Special Study

- A draft of the special study was submitted to staff for review.

Meeks Lane Pump Station – Act 537 Plan Special Study (1178.0663)

- HRG is working to complete the study.

Developer Plan Reviews:

- The Developer's as-built drawings for the Cottages by Toll Brothers were received on February 7, 2020 and are under review.

6.8 Construction Report

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

General Services Items Completed for the Authority:

Pump Station SCADA Integration

- RETTEW is currently transitioning the pump stations from the old SCADA to the new SCADA network. Scenery Park, Outer Drive, Harris Drive, and Scott Road are in process.

WWTP NPDES Permit – Phosphorus Study

- Comments have been received from the PA DEP on the proposed Plan of Study, the majority relating to the data collection effort. We are addressing their comments and will provide a revised Plan of Study incorporating any needed changes to the data collection.

Sludge Storage Tank Mixer

- RETTEW has prepared contract documents for the installation of a new submersible mixer in the Sludge Storage Tank, as well as modifications to the aeration system. We anticipate receiving bids for the Board's consideration in March.

Aeration System Leaks

- Recent investigations have uncovered several significant leaks in the underground aeration piping between the Administration Building and the Aeration Tanks. We are preparing recommendations to address this air loss, which will lead to decreased operation of the aeration blowers.

Nutrient Credit Offsets – Solar Installation

- The PA DEP has provided an initial response denying the Authority's request for approval of nutrient offsets generated by reductions in nitrous oxide emissions through the transition to solar power. However, we feel that there is strong case yet to be made in the Authority's favor and have appealed this decision. The PA DEP has suggested a meeting with the EPA's Chesapeake Bay Office to continue this discussion.

ENR/AWT Upgrade Project

- Both contractors, Contract UAJA 2017-06 (HRI) and Contract UAJA 2017-08 (Biter), are in the process of completing all punchlist items.
- We recommend execution of Change Order No. 4 (Final) to Contract UAJA 2017-08 (Biter) in the amount of \$23,711.84. Change Order encompasses all remaining Work Change Directives and required Contract adjustments.
- We recommend payment of Application for Payment No. 11-Final for Contract UAJA 2017-08 (Biter) in the amount of \$85,686.74. This final application for payment includes the work associated with Change Order No. 4 as well as release of retainage.

Solar System (Phase I/II)

- The Interconnection Application for the Phase II Solar Array is being prepared for submission to First Energy/West Penn Power. RETTEW has begun regulatory design packages (such as zoning and land development).

6.9 Executive Director's Report

Mr. Miller stated that during phase 1 of the solar project the board appointed a committee consisting of Mr. Lapinski, Mr. Dempsey and Mr. Deitz. For the second phase of the solar project committee will need to be appointed again. Mr. Lapinski stated that he would forego his

committee seat if another member would want to serve. Mr. Guss stated he would serve on this committee.

Mr. Miller stated that this would be the last board meeting that Mr. Smith would be attending as an employee. Mr. Smith has submitted a notice that he will be retiring on February 29, 2020. Mr. Miller wished Mr. Smith well and thanked him for his many years.

7. Other Business

7.1 Executive Session

**Executive Session
Approved**

A motion was made by Mr. Derr, seconded by Mr. Daubert, to adjourn to an executive session at 4:43 p.m. The motion passed unanimously.

**Executive Session
Approved**

A motion was made by Mr. Guss, seconded by Mr. Daubert, to adjourn the executive session and return to the regular meeting at 5:05 p.m. The motion passed unanimously.

Construction Fund #202

Global Heavy Corporation \$93,318.50
Odor Control Gen Pay App 16

**Requisitions
Approved**

A motion was made by Mr. Guss, seconded by Mr. Ebaugh, to set off payment for the full amount of Construction Fund Requisition #202 for potential liquidated damages. The motion passed unanimously.

8. Adjournment

The meeting was adjourned at 5:10 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

03/12/2020 11:28
kwheeler

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

P 1
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FOR 2020 02

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040410 REVENUE-SEWER	-15,152,692	0	-15,152,692	57,782.03	.00	-15,210,474.03	-.4%
1040420 REVENUE-SOLIDS	-74,000	0	-74,000	-4,777.77	.00	-69,222.23	6.5%
1040425 REVENUE-BU WATER	-25,000	0	-25,000	-5,874.00	.00	-19,126.00	23.5%
1040430 MAINTENANCE	-56,631	0	-56,631	-68,150.66	.00	11,519.66	120.3%
1040440 REVENUE-PERMIT/TAP FEES	-1,297,027	0	-1,297,027	-415,776.33	.00	-881,250.67	32.1%
1040450 REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-19,670.51	.00	-20,329.49	49.2%
1040451 REVENUE-MISC. REIMBURSEMENT	-127,358	0	-127,358	-892.79	.00	-126,465.21	.7%
1040470 INTEREST EARNINGS-CASH ACCT	-1,790	0	-1,790	-322.63	.00	-1,467.37	18.0%
1040472 INTEREST EARNINGS-PLIGIT	-375	0	-375	-8.81	.00	-366.19	2.3%
1040474 INTEREST EARNINGS - TRUSTEE	-119,600	0	-119,600	2,245.21	.00	-121,845.21	-1.9%
1040480 REVENUES-MISCELLANEOUS	-85,400	0	-85,400	-8,626.29	.00	-76,773.71	10.1%
1045921 CIP-COLLECTION MAINT I&I	1,061,500	0	1,061,500	63,429.66	.00	998,070.34	6.0%
1045922 CIP-COLLECTION-CONST. EQUIP	68,300	0	68,300	60,096.35	.00	8,203.65	88.0%
1045924 CIP-WWTP-PHYSICAL PLANT	365,800	0	365,800	28,932.09	.00	336,867.91	7.9%
1045928 CIP-BENEFICIAL REUSE	1,223,000	0	1,223,000	51,651.83	.00	1,171,348.17	4.2%
1045929 CIP-WWTP-DEWATERING FACILIT	95,000	0	95,000	624.00	.00	94,376.00	.7%
1045930 CIP-WWTP-COMPOST FACILITY	560,000	0	560,000	115,690.97	.00	444,309.03	20.7%
1050050 GENERAL & ADMINISTRATIVE	1,719,320	0	1,719,320	427,345.50	.00	1,291,974.50	24.9%
1050053 G & A - INFORMATION TECHNOL	71,000	0	71,000	1,991.29	.00	69,008.71	2.8%
1050054 G & A - FLEET/FUEL	160,500	0	160,500	28,975.85	.00	131,524.15	18.1%
1052052 DEBT SERVICE	6,373,458	0	6,373,458	92,827.49	.00	6,280,630.51	1.5%
1060019 WWTP - LABORATORY	303,620	0	303,620	58,749.49	.00	244,870.51	19.3%
1060022 TREATMENT PLANT MAINTENANCE	1,071,381	0	1,071,381	228,171.78	.00	843,209.22	21.3%
1060023 MAIN STATION	46,817	0	46,817	12,384.56	.00	34,432.44	26.5%
1060025 WWTP - IPP	111,987	0	111,987	20,761.03	.00	91,225.97	18.5%
1060028 WWTP - BENEFICIAL REUSE	795,430	0	795,430	155,398.48	.00	640,031.52	19.5%
1060029 WWTP - DEWATERING	402,847	0	402,847	62,366.82	.00	340,480.18	15.5%
1060030 WWTP - COMPOST	883,294	0	883,294	161,129.27	.00	722,164.73	18.2%
1060032 TREATMENT PLANT OPERATION	1,796,766	0	1,796,766	312,404.12	.00	1,484,361.88	17.4%
1070021 COLLECTION-MAINTENANCE	1,711,510	0	1,711,510	313,560.16	.00	1,397,949.84	18.3%
1070022 CONSTRUCT EQUIP MAINTENANCE	45,500	0	45,500	7,391.01	.00	38,108.99	16.2%
1070034 COLLECTION-INSPECTION	430,179	0	430,179	82,090.73	.00	348,088.27	19.1%
1070036 COLLECTION-PUMP STATION	135,250	0	135,250	34,502.03	.00	100,747.97	25.5%
TOTAL OPERATING FUND	2,452,586	0	2,452,586	1,856,401.96	.00	596,184.04	75.7%
TOTAL REVENUES	-16,979,873	0	-16,979,873	-464,072.55	.00	-16,515,800.45	
TOTAL EXPENSES	19,432,459	0	19,432,459	2,320,474.51	.00	17,111,984.49	

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kwheeler

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

P 1
glytdbud

FOR 2020 02

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
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1040410 REVENUE-SEWER	<hr/>						
1040410 4101 UAJA TOTAL SEWER R	-10,324,496	0	-10,324,496	-15,886.74	.00	-10,308,609.26	.2%*
1040410 4102 BORO SEWER TOTAL R	-4,018,120	0	-4,018,120	.00	.00	-4,018,120.00	.0%*
1040410 4103 PGM TOTAL SEWER RE	-379,200	0	-379,200	.00	.00	-379,200.00	.0%*
1040410 4104 PSU TOTAL SEWER RE	-244,508	0	-244,508	46,004.77	.00	-290,512.77	-18.8%*
1040410 4105 SURCHARGES TOTAL R	-186,368	0	-186,368	27,664.00	.00	-214,032.00	-14.8%*
TOTAL REVENUE-SEWER	-15,152,692	0	-15,152,692	57,782.03	.00	-15,210,474.03	-.4%
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1040420 REVENUE-SOLIDS	<hr/>						
1040420 4201 N5001 NONTAXABLE	-45,000	0	-45,000	-750.00	.00	-44,250.00	1.7%*
1040420 4201 N5002 TAXABLE COMPO	-6,000	0	-6,000	-122.63	.00	-5,877.37	2.0%*
1040420 4203 SLUDGE DISPOSAL	-23,000	0	-23,000	-3,905.14	.00	-19,094.86	17.0%*
TOTAL REVENUE-SOLIDS	-74,000	0	-74,000	-4,777.77	.00	-69,222.23	6.5%
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1040425 REVENUE-BU WATER	<hr/>						
1040425 4251 REVENUE-BU WATER	-25,000	0	-25,000	-5,874.00	.00	-19,126.00	23.5%*
TOTAL REVENUE-BU WATER	-25,000	0	-25,000	-5,874.00	.00	-19,126.00	23.5%
<hr/>							
1040430 MAINTENANCE	<hr/>						
1040430 4301 REVENUE-MAINT BORO	-56,631	0	-56,631	-68,150.66	.00	11,519.66	120.3%
TOTAL MAINTENANCE	-56,631	0	-56,631	-68,150.66	.00	11,519.66	120.3%
<hr/>							
1040440 REVENUE-PERMIT/TAP FEES	<hr/>						
1040440 4401 PERMIT/CONNECTION	-22,050	0	-22,050	-8,700.00	.00	-13,350.00	39.5%*
1040440 4402 TAP FEE-TREATMENT	-1,196,800	0	-1,196,800	-376,849.94	.00	-819,950.06	31.5%*

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1040440 4403 GHANER TAP FEE	-3,010	0	-3,010	-4,214.00	.00	1,204.00	140.0%
1040440 4404 TAP FEE-PGM COLLEC	-6,642	0	-6,642	.00	.00	-6,642.00	.0%*
1040440 4405 IPP USER FEES	-5,700	0	-5,700	.00	.00	-5,700.00	.0%*
1040440 4409 WATER QUALITY MNGT	-500	0	-500	.00	.00	-500.00	.0%*
1040440 4410 REPAIR PERMIT	-1,550	0	-1,550	-250.00	.00	-1,300.00	16.1%*
1040440 4411 TAP FEE - ROUTE 26	-14,125	0	-14,125	-5,650.00	.00	-8,475.00	40.0%*
1040440 4412 CIRCLEVILLE TAP FE	-40,800	0	-40,800	-11,923.79	.00	-28,876.21	29.2%*
1040440 4413 VALLEY VISTA TAP F	-5,850	0	-5,850	-8,188.60	.00	2,338.60	140.0%
TOTAL REVENUE-PERMIT/TAP FEES	-1,297,027	0	-1,297,027	-415,776.33	.00	-881,250.67	32.1%
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	-6,631.14	.00	6,631.14	100.0%
1040450 4407 B5458 OAKRIDGE AVE	0	0	0	-3,340.76	.00	3,340.76	100.0%
1040450 4407 B5460 MORNINGSIDE @	0	0	0	-1,893.93	.00	1,893.93	100.0%
1040450 4407 B5462 375 TROUT ROA	0	0	0	-2,931.73	.00	2,931.73	100.0%
1040450 4407 B5463 KENNARD RD 25	0	0	0	-4,872.95	.00	4,872.95	100.0%
TOTAL REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-19,670.51	.00	-20,329.49	49.2%
1040451 REVENUE-MISC. REIMBURSEMNT							
1040451 4501 EQUIPMENT USE	-1,000	0	-1,000	.00	.00	-1,000.00	.0%*
1040451 4502 ASSESSMENT	-1,000	0	-1,000	.00	.00	-1,000.00	.0%*
1040451 4503 EMPLOYEE GROUP INS	-6,300	0	-6,300	-892.79	.00	-5,407.21	14.2%*
1040451 4514 EMPLOYEE SHARE HEA	-119,058	0	-119,058	.00	.00	-119,058.00	.0%*
TOTAL REVENUE-MISC. REIMBURSEMNT	-127,358	0	-127,358	-892.79	.00	-126,465.21	.7%
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	-55.82	.00	-344.18	14.0%*
1040470 4717 SWEEP CHECKING-INT	-1,380	0	-1,380	-266.81	.00	-1,113.19	19.3%*
TOTAL INTEREST EARNINGS-CASH ACCTS	-1,790	0	-1,790	-322.63	.00	-1,467.37	18.0%
1040472 INTEREST EARNINGS-PLIGIT							

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1040472 4703 PLIGIT-INTEREST EA	-30	0	-30	-3.66	.00	-26.34	12.2%*
1040472 4711 PLIGIT-EMMAUS-INTE	-200	0	-200	-5.15	.00	-194.85	2.6%*
1040472 4719 PLIGIT PLUS - INTE	-145	0	-145	.00	.00	-145.00	.0%*
TOTAL INTEREST EARNINGS-PLIGIT	-375	0	-375	-8.81	.00	-366.19	2.3%
1040474 INTEREST EARNINGS - TRUSTEE							
1040474 4706 BOND REMP/IMP-INTE	-45,750	0	-45,750	2,926.08	.00	-48,676.08	-6.4%*
1040474 4707 BRIF/EMMAUS-INTE	-555	0	-555	-50.47	.00	-504.53	9.1%*
1040474 4724 INTEREST 93 DEBT S	-62,000	0	-62,000	8,666.15	.00	-70,666.15	-14.0%*
1040474 4725 INT 93 OPERATING E	-3,000	0	-3,000	430.41	.00	-3,430.41	-14.3%*
1040474 4726 INT 93 DEBT SERVIC	-4,320	0	-4,320	-6,522.95	.00	2,202.95	151.0%
1040474 4727 INT REVENUE FUND	-3,975	0	-3,975	-306.09	.00	-3,668.91	7.7%*
1040474 4732 2018 CONSTRUCTION	0	0	0	-2,897.92	.00	2,897.92	100.0%
TOTAL INTEREST EARNINGS - TRUSTEE	-119,600	0	-119,600	2,245.21	.00	-121,845.21	-1.9%
1040480 REVENUES-MISCELLANEOUS							
1040480 4899 MISCELLANEOUS RECE	-50,000	0	-50,000	-7,276.29	.00	-42,723.71	14.6%*
1040480 4902 MAYLIE FARM RENT	-5,400	0	-5,400	-1,350.00	.00	-4,050.00	25.0%*
1040480 4909 SOLAR MAINTENANCE	-30,000	0	-30,000	.00	.00	-30,000.00	.0%*
TOTAL REVENUES-MISCELLANEOUS	-85,400	0	-85,400	-8,626.29	.00	-76,773.71	10.1%
1045921 CIP-COLLECTION MAINT I&I							
1045921 0021 I & I COLLECTION	1,000	0	1,000	.00	.00	1,000.00	.0%
1045921 0021 6250 N ATHERTON PAD	150,000	0	150,000	.00	.00	150,000.00	.0%
1045921 0021 6268 PRINCETON BACK	20,000	0	20,000	.00	.00	20,000.00	.0%
1045921 0021 6271 SHILOH RELOCAT	413,000	0	413,000	.00	.00	413,000.00	.0%
1045921 0021 6272 GREENBRIAR ENG	100,000	0	100,000	27,548.66	.00	72,451.34	27.5%
1045921 5405 6235 GRAYSWOODS ENG	35,000	0	35,000	1,035.00	.00	33,965.00	3.0%
1045921 5405 6271 SHILOH RELOCAT	7,500	0	7,500	10,846.00	.00	-3,346.00	144.6%*
1045921 5405 6272 GREENBRIAR ENG	10,000	0	10,000	.00	.00	10,000.00	.0%
1045921 5405 6300 SCOTT ROAD UPG	175,000	0	175,000	24,000.00	.00	151,000.00	13.7%

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1045921 5405 6301 FUTURE SEPTIC	35,000	0	35,000	.00	.00	35,000.00	.0%
1045921 ER01 6271 SHILOH RELOCAT	5,000	0	5,000	.00	.00	5,000.00	.0%
1045921 PV01 6271 SHILOH TRENCH	25,000	0	25,000	.00	.00	25,000.00	.0%
1045921 PV01 6272 PAVING CONTRAC	35,000	0	35,000	.00	.00	35,000.00	.0%
1045921 PV02 6271 SHILOH BIKE PA	50,000	0	50,000	.00	.00	50,000.00	.0%
TOTAL CIP-COLLECTION MAINT I&I	1,061,500	0	1,061,500	63,429.66	.00	998,070.34	6.0%
1045922 CIP-COLLECTION-CONST. EQUIPM							
1045922 0021 6288 NEW COLLECTION	20,000	0	20,000	20,000.00	.00	.00	100.0%
1045922 0021 6289 NEW COLLECTION	15,900	0	15,900	16,402.86	.00	-502.86	103.2%*
1045922 0021 6290 NEW UNIT 4	15,900	0	15,900	16,393.49	.00	-493.49	103.1%*
1045922 0021 6302 BROOM SKID STE	7,500	0	7,500	7,300.00	.00	200.00	97.3%
1045922 0021 6303 LATERAL CAMERA	9,000	0	9,000	.00	.00	9,000.00	.0%
TOTAL CIP-COLLECTION-CONST. EQUIPM	68,300	0	68,300	60,096.35	.00	8,203.65	88.0%
1045924 CIP-WWTP-PHYSICAL PLANT							
1045924 0024 6291 ENR/AWT SCADA	0	0	0	8,351.00	.00	-8,351.00	100.0%*
1045924 0024 6294 NEW TRUCK PLAN	15,300	0	15,300	15,300.00	.00	.00	100.0%
1045924 0024 6304 AERATION SYSTE	300,000	0	300,000	2,170.65	.00	297,829.35	.7%
1045924 0024 6305 SCISSORS LIFT	20,000	0	20,000	.00	.00	20,000.00	.0%
1045924 0024 6306 HEADWORKS HEAT	7,500	0	7,500	.00	.00	7,500.00	.0%
1045924 0024 6307 VFD'S DRAIN ST	23,000	0	23,000	.00	.00	23,000.00	.0%
1045924 5405 6256 ENR/AWT ENGINE	0	0	0	3,110.44	.00	-3,110.44	100.0%*
TOTAL CIP-WWTP-PHYSICAL PLANT	365,800	0	365,800	28,932.09	.00	336,867.91	7.9%
1045928 CIP-BENEFICIAL REUSE							
1045928 0028 6239 MF MEMBRANE RE	81,000	0	81,000	.00	.00	81,000.00	.0%
1045928 0028 6262 WATERLINE PH 2	1,000,000	0	1,000,000	25,577.01	.00	974,422.99	2.6%
1045928 0028 6299 GDK INSTRUMENT	0	0	0	10,310.57	.00	-10,310.57	100.0%*
1045928 0028 6308 AWT CHEMICAL P	12,000	0	12,000	.00	.00	12,000.00	.0%
1045928 5405 6261 WATERLINE PH 2	45,000	0	45,000	358.00	.00	44,642.00	.8%
1045928 ER05 6262 HARRIS REUSE T	85,000	0	85,000	15,406.25	.00	69,593.75	18.1%

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TOTAL CIP-BENEFICIAL REUSE	1,223,000	0	1,223,000	51,651.83	.00	1,171,348.17	4.2%
1045929 CIP-WWTP-DEWATERING FACILITY							
1045929 0029 6309 BIG BERTHA MIX	95,000	0	95,000	624.00	.00	94,376.00	.7%
TOTAL CIP-WWTP-DEWATERING FACILITY	95,000	0	95,000	624.00	.00	94,376.00	.7%
1045930 CIP-WWTP-COMPOST FACILITY							
1045930 0030 6245 ODOR CONTROL	500,000	0	500,000	71,490.97	.00	428,509.03	14.3%
1045930 0030 6295 NEW COMPOST LO	40,000	0	40,000	40,000.00	.00	.00	100.0%
1045930 5405 6245 ODOR CONTROL E	20,000	0	20,000	4,200.00	.00	15,800.00	21.0%
TOTAL CIP-WWTP-COMPOST FACILITY	560,000	0	560,000	115,690.97	.00	444,309.03	20.7%
1050050 GENERAL & ADMINISTRATIVE							
1050050 5001 SUPERVISOR LABOR	263,347	0	263,347	48,788.70	.00	214,558.30	18.5%
1050050 5002 REGULAR LABOR	442,013	0	442,013	66,377.32	.00	375,635.68	15.0%
1050050 5006 VACATION	0	0	0	22,509.22	.00	-22,509.22	100.0%*
1050050 5007 SICK	0	0	0	30,797.03	.00	-30,797.03	100.0%*
1050050 5008 PERSONAL	0	0	0	2,316.76	.00	-2,316.76	100.0%*
1050050 5010 HOLIDAY	0	0	0	10,825.60	.00	-10,825.60	100.0%*
1050050 5101 FICA EXPENSE	43,733	0	43,733	8,658.28	.00	35,074.72	19.8%
1050050 5102 MEDICARE EXPENSE	10,228	0	10,228	2,024.97	.00	8,203.03	19.8%
1050050 5201 UNEMPLOYMENT EXPEN	19,000	0	19,000	644.75	.00	18,355.25	3.4%
1050050 5202 GROUP HEALTH INSUR	118,743	0	118,743	27,404.98	.00	91,338.02	23.1%
1050050 5203 PENSION (401) UAJA	70,536	0	70,536	13,532.06	.00	57,003.94	19.2%
1050050 5205 COBRA EMPLOYEE INS	6,300	0	6,300	97.02	.00	6,202.98	1.5%
1050050 5207 GROUP LIFE INSURAN	63,500	0	63,500	6,544.88	.00	56,955.12	10.3%
1050050 5208 HEALTH DEDUCTIBLE	175,000	0	175,000	32,111.50	.00	142,888.50	18.3%
1050050 5301 OFFICE SUPPLIES	15,000	0	15,000	4,927.95	.00	10,072.05	32.9%
1050050 5302 POSTAGE/SHIPPING	30,000	0	30,000	7,931.72	.00	22,068.28	26.4%
1050050 5303 JANITORIAL SUPPLIE	7,000	0	7,000	2,429.69	.00	4,570.31	34.7%
1050050 5307 PETTY CASH EXPENDI	200	0	200	23.31	.00	176.69	11.7%
1050050 5401 ADVERTISING	3,000	0	3,000	81.21	.00	2,918.79	2.7%

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1050050 5402 AUDIT	22,000	0	22,000	.00	.00	22,000.00	.0%
1050050 5403 6107 MAYLIE PROPERT	3,000	0	3,000	.00	.00	3,000.00	.0%
1050050 5405 ENGINEERING-RETAIN	15,000	0	15,000	.00	.00	15,000.00	.0%
1050050 5406 LEGAL	25,000	0	25,000	9,488.10	.00	15,511.90	38.0%
1050050 5408 INSURANCE - COMMER	253,000	0	253,000	95,637.00	.00	157,363.00	37.8%
1050050 5499 MISCELLANEOUS OUTS	15,000	0	15,000	4,528.50	.00	10,471.50	30.2%
1050050 5501 1054 O & M - COPIER	8,850	0	8,850	4,867.09	.00	3,982.91	55.0%
1050050 5601 COMMUNICATIONS	40,000	0	40,000	12,056.90	.00	27,943.10	30.1%
1050050 5701 TRAINING, SEMINARS	5,000	0	5,000	765.00	.00	4,235.00	15.3%
1050050 5702 MEMBERSHIPS, SUBSC	6,500	0	6,500	1,072.00	.00	5,428.00	16.5%
1050050 5703 UNIFORMS-BOOTS-GLO	18,000	0	18,000	6,778.29	.00	11,221.71	37.7%
1050050 5704 VACCINATIONS	3,000	0	3,000	.00	.00	3,000.00	.0%
1050050 5705 RECRUITING EXPENSE	100	0	100	.00	.00	100.00	.0%
1050050 5706 EMPLOYEE/EMPLOYER	1,000	0	1,000	741.85	.00	258.15	74.2%
1050050 5707 MEAL ALLOWANCE	500	0	500	.00	.00	500.00	.0%
1050050 5708 SAFETY EQUIPMENT	7,500	0	7,500	394.32	.00	7,105.68	5.3%
1050050 5709 SAFETY TRAINING	3,000	0	3,000	.00	.00	3,000.00	.0%
1050050 5710 DRUG/ALCOHOL TESTI	500	0	500	.00	.00	500.00	.0%
1050050 6006 MISCELLANEOUS EXPE	1,000	0	1,000	.00	.00	1,000.00	.0%
1050050 6007 BANK FEES/CHARGES	100	0	100	.00	.00	100.00	.0%
1050050 6008 BAD DEBT/WRITE OFF	100	0	100	.00	.00	100.00	.0%
1050050 6015 WATER-CTWA	5,000	0	5,000	1,097.38	.00	3,902.62	21.9%
1050050 6017 GARBAGE	10,000	0	10,000	1,892.12	.00	8,107.88	18.9%
1050050 6019 CNET	8,570	0	8,570	.00	.00	8,570.00	.0%
TOTAL GENERAL & ADMINISTRATIVE	1,719,320	0	1,719,320	427,345.50	.00	1,291,974.50	24.9%
1050053 G & A - INFORMATION TECHNOLOGY							
1050053 IT71 INTERNET SERVICE	5,000	0	5,000	555.47	.00	4,444.53	11.1%
1050053 IT72 HARDWARE-DATA PROC	5,000	0	5,000	.00	.00	5,000.00	.0%
1050053 IT73 SOFTWARE-DATA PROC	60,000	0	60,000	1,435.82	.00	58,564.18	2.4%
1050053 IT74 TRAINING-DATA PROC	1,000	0	1,000	.00	.00	1,000.00	.0%
TOTAL G & A - INFORMATION TECHNOLOGY	71,000	0	71,000	1,991.29	.00	69,008.71	2.8%
1050054 G & A - FLEET/FUEL							
1050054 5502 VEHICLE MAINTENANC	45,000	0	45,000	7,126.42	.00	37,873.58	15.8%
1050054 5603 1006 GASOLINE.	49,500	0	49,500	6,961.40	.00	42,538.60	14.1%

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1050054 5603 1008 DIESEL FUEL	66,000	0	66,000	14,888.03	.00	51,111.97	22.6%
TOTAL G & A - FLEET/FUEL	160,500	0	160,500	28,975.85	.00	131,524.15	18.1%
1052052 DEBT SERVICE							
1052052 5801 INTEREST PAID-1993	2,261,980	0	2,261,980	.00	.00	2,261,980.00	.0%
1052052 5802 INTEREST PAID - EM	5,000	0	5,000	92,827.49	.00	-87,827.49	1856.5%*
1052052 5901 PRINCIPAL PAID-199	4,003,000	0	4,003,000	.00	.00	4,003,000.00	.0%
1052052 5903 PRINCIPAL PAID-EMM	90,000	0	90,000	.00	.00	90,000.00	.0%
1052052 6106 TRUSTEE FEES EMMAU	1,800	0	1,800	.00	.00	1,800.00	.0%
1052052 6120 TRUSTEE FEE 12	1,778	0	1,778	.00	.00	1,778.00	.0%
1052052 6122 2015 TRUSTEE FEES	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6123 TRUSTEE FEE 2016	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6124 TRUSTEE FEE 2017	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6125 TRUSTEE FESS 2017A	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6126 TRUSTEE FEE 2017B	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6127 TRUSTEE FEE 2018	1,650	0	1,650	.00	.00	1,650.00	.0%
TOTAL DEBT SERVICE	6,373,458	0	6,373,458	92,827.49	.00	6,280,630.51	1.5%
1060019 WWTP - LABORATORY							
1060019 5001 SUPERVISOR LABOR	79,088	0	79,088	14,442.31	.00	64,645.69	18.3%
1060019 5002 REGULAR LABOR	137,233	0	137,233	19,760.57	.00	117,472.43	14.4%
1060019 5003 OVERTIME LABOR	500	0	500	388.78	.00	111.22	77.8%
1060019 5006 VACATION	0	0	0	2,896.07	.00	-2,896.07	100.0%*
1060019 5007 SICK	0	0	0	1,007.02	.00	-1,007.02	100.0%*
1060019 5009 JURY/CIVIL/VOLUNTE	0	0	0	583.17	.00	-583.17	100.0%*
1060019 5010 HOLIDAY	0	0	0	2,480.44	.00	-2,480.44	100.0%*
1060019 5101 FICA EXPENSE	13,442	0	13,442	2,626.30	.00	10,815.70	19.5%
1060019 5102 MEDICARE EXPENSE	3,144	0	3,144	614.37	.00	2,529.63	19.5%
1060019 5202 GROUP HEALTH INSUR	28,692	0	28,692	6,957.02	.00	21,734.98	24.2%
1060019 5203 PENSION (401) UAJA	14,771	0	14,771	2,839.95	.00	11,931.05	19.2%
1060019 5305 SMALL EQUIPMT/TOOL	250	0	250	.00	.00	250.00	.0%
1060019 5306 LAB SUPPLIES	23,000	0	23,000	4,153.49	.00	18,846.51	18.1%
1060019 5501 EQUIPMENT MAINTENA	3,500	0	3,500	.00	.00	3,500.00	.0%
TOTAL WWTP - LABORATORY	303,620	0	303,620	58,749.49	.00	244,870.51	19.3%
1060022 TREATMENT PLANT MAINTENANCE							
1060022 5001 SUPERVISOR LABOR	36,895	0	36,895	6,406.77	.00	30,488.23	17.4%

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1060022 5002 REGULAR LABOR	448,768	0	448,768	67,247.07	.00	381,520.93	15.0%
1060022 5003 OVERTIME LABOR	4,000	0	4,000	71.77	.00	3,928.23	1.8%
1060022 5006 VACATION	0	0	0	6,672.06	.00	-6,672.06	100.0%*
1060022 5007 SICK	0	0	0	2,555.81	.00	-2,555.81	100.0%*
1060022 5008 PERSONAL DAY	0	0	0	1,309.54	.00	-1,309.54	100.0%*
1060022 5009 JURY/CIVIL/VOLUNTE	0	0	0	746.98	.00	-746.98	100.0%*
1060022 5010 HOLIDAY	0	0	0	5,424.06	.00	-5,424.06	100.0%*
1060022 5101 FICA EXPENSE	30,111	0	30,111	5,736.62	.00	24,374.38	19.1%
1060022 5102 MEDICARE EXPENSE	7,042	0	7,042	1,341.61	.00	5,700.39	19.1%
1060022 5202 GROUP HEALTH INSUR	88,937	0	88,937	16,030.68	.00	72,906.32	18.0%
1060022 5203 PENSION (401) UAJA	26,128	0	26,128	4,430.93	.00	21,697.07	17.0%
1060022 5304 OPERATIONAL SUPPLI	5,500	0	5,500	16,098.95	.00	-10,598.95	292.7%*
1060022 5305 SMALL EQUIPMT/TOOL	14,000	0	14,000	6,746.69	.00	7,253.31	48.2%
1060022 5501 EQUIPMENT MAINTENA	190,000	0	190,000	25,379.97	.00	164,620.03	13.4%
1060022 5501 6174 SCADIA MAINT	40,000	0	40,000	15,955.57	.00	24,044.43	39.9%
1060022 5501 6175 UV MAINT	40,000	0	40,000	20,474.29	.00	19,525.71	51.2%
1060022 5501 6283 SOLAR MAINTENA	30,000	0	30,000	978.40	.00	29,021.60	3.3%
1060022 5503 BUILDING & GROUND	40,000	0	40,000	4,527.18	.00	35,472.82	11.3%
1060022 5508 GRIT REMOVAL-PLANT	20,000	0	20,000	9,239.39	.00	10,760.61	46.2%
1060022 5603 FUEL, OIL, LUBRICA	15,000	0	15,000	10,797.44	.00	4,202.56	72.0%
1060022 7511 LANDSCAPE	35,000	0	35,000	.00	.00	35,000.00	.0%
TOTAL TREATMENT PLANT MAINTENANCE	1,071,381	0	1,071,381	228,171.78	.00	843,209.22	21.3%
1060023 MAIN STATION							
1060023 5002 B5001 REGULAR LABOR	0	0	0	4,345.08	.00	-4,345.08	100.0%*
1060023 5101 B5001 FICA EXPENSE	0	0	0	269.42	.00	-269.42	100.0%*
1060023 5102 B5001 MEDICARE EXPE	0	0	0	63.02	.00	-63.02	100.0%*
1060023 5202 B5001 GROUP HEALTH	0	0	0	608.59	.00	-608.59	100.0%*
1060023 5203 B5001 PENSION (401)	0	0	0	212.45	.00	-212.45	100.0%*
1060023 5505 B5001 PUMP STATION	7,500	0	7,500	3,841.56	.00	3,658.44	51.2%
1060023 5602 B5001 O&M MAIN STAT	39,317	0	39,317	3,044.44	.00	36,272.56	7.7%
TOTAL MAIN STATION	46,817	0	46,817	12,384.56	.00	34,432.44	26.5%
1060025 WWTP - IPP							
1060025 5001 SUPERVISOR LABOR	79,088	0	79,088	14,430.60	.00	64,657.40	18.2%
1060025 5006 VACATION	0	0	0	291.54	.00	-291.54	100.0%*

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1060025 5010 HOLIDAY	0	0	0	396.28	.00	-396.28	100.0%*
1060025 5101 FICA EXPENSE	4,903	0	4,903	937.35	.00	3,965.65	19.1%
1060025 5102 MEDICARE EXPENSE	1,147	0	1,147	219.19	.00	927.81	19.1%
1060025 5202 GROUP HEALTH INSUR	14,740	0	14,740	2,974.17	.00	11,765.83	20.2%
1060025 5203 PENSION (401) UAJA	7,909	0	7,909	1,511.90	.00	6,397.10	19.1%
1060025 5305 SMALL EQUIPMT/TOOL	200	0	200	.00	.00	200.00	.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	111,987	0	111,987	20,761.03	.00	91,225.97	18.5%
1060028 WWTP - BENEFICIAL REUSE							
1060028 5001 SUPERVISOR LABOR	36,895	0	36,895	6,406.77	.00	30,488.23	17.4%
1060028 5006 VACATION	0	0	0	291.54	.00	-291.54	100.0%*
1060028 5010 HOLIDAY	0	0	0	396.28	.00	-396.28	100.0%*
1060028 5101 FICA EXPENSE	2,287	0	2,287	439.85	.00	1,847.15	19.2%
1060028 5102 MEDICARE EXPENSE	535	0	535	102.84	.00	432.16	19.2%
1060028 5202 GROUP HEALTH INSUR	5,398	0	5,398	1,406.81	.00	3,991.19	26.1%
1060028 5203 PENSION (401) UAJA	3,690	0	3,690	709.50	.00	2,980.50	19.2%
1060028 5304 OPERATIONAL SUPPLI	15,000	0	15,000	10,215.24	.00	4,784.76	68.1%
1060028 5304 1065 OPERATIONAL SU	325,000	0	325,000	62,391.91	.00	262,608.09	19.2%
1060028 5305 SMALL EQUIPMT/TOOL	1,000	0	1,000	.00	.00	1,000.00	.0%
1060028 5410 LAB ANALYSIS	15,000	0	15,000	2,535.41	.00	12,464.59	16.9%
1060028 5501 EQUIPMENT MAINTENA	125,000	0	125,000	26,172.17	.00	98,827.83	20.9%
1060028 5602 1064 POWER	200,625	0	200,625	29,038.73	.00	171,586.27	14.5%
1060028 5605 CTWA REIMBURSE	65,000	0	65,000	15,291.43	.00	49,708.57	23.5%
TOTAL WWTP - BENEFICIAL REUSE	795,430	0	795,430	155,398.48	.00	640,031.52	19.5%
1060029 WWTP - DEWATERING							
1060029 5001 SUPERVISOR LABOR	36,895	0	36,895	6,405.26	.00	30,489.74	17.4%
1060029 5002 REGULAR LABOR	114,000	0	114,000	8,895.77	.00	105,104.23	7.8%
1060029 5003 OVERTIME LABOR	2,000	0	2,000	660.35	.00	1,339.65	33.0%
1060029 5006 VACATION	0	0	0	1,991.76	.00	-1,991.76	100.0%*
1060029 5007 SICK	0	0	0	91.08	.00	-91.08	100.0%*
1060029 5008 PERSONAL	0	0	0	485.78	.00	-485.78	100.0%*
1060029 5010 HOLIDAY	0	0	0	1,367.84	.00	-1,367.84	100.0%*
1060029 5101 FICA EXPENSE	9,479	0	9,479	1,253.45	.00	8,225.55	13.2%

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1060029 5102 MEDICARE EXPENSE	2,217	0	2,217	293.15	.00	1,923.85	13.2%
1060029 5202 GROUP HEALTH INSUR	27,412	0	27,412	2,987.03	.00	24,424.97	10.9%
1060029 5203 PENSION (401) UAJA	9,390	0	9,390	1,316.55	.00	8,073.45	14.0%
1060029 5304 OPERATIONAL SUPPLI	500	0	500	8.47	.00	491.53	1.7%
1060029 5304 1036 POLYMER	53,000	0	53,000	18,400.00	.00	34,600.00	34.7%
1060029 5501 EQUIPMENT MAINTENA	75,000	0	75,000	5,010.91	.00	69,989.09	6.7%
1060029 5602 1042 POWER-DEWATERI	72,954	0	72,954	13,199.42	.00	59,754.58	18.1%
TOTAL WWTP - DEWATERING	402,847	0	402,847	62,366.82	.00	340,480.18	15.5%
1060030 WWTP - COMPOST							
1060030 5001 SUPERVISOR LABOR	36,895	0	36,895	6,405.26	.00	30,489.74	17.4%
1060030 5002 REGULAR LABOR	256,590	0	256,590	40,043.39	.00	216,546.61	15.6%
1060030 5003 OVERTIME LABOR	7,500	0	7,500	5,370.65	.00	2,129.35	71.6%
1060030 5006 VACATION	0	0	0	2,237.68	.00	-2,237.68	100.0%*
1060030 5007 SICK	0	0	0	1,680.54	.00	-1,680.54	100.0%*
1060030 5008 PERSONAL	0	0	0	806.30	.00	-806.30	100.0%*
1060030 5009 JURY/CIVIL/VOLUNTE	0	0	0	261.56	.00	-261.56	100.0%*
1060030 5010 HOLIDAY	0	0	0	4,286.52	.00	-4,286.52	100.0%*
1060030 5101 FICA EXPENSE	18,661	0	18,661	3,787.66	.00	14,873.34	20.3%
1060030 5102 MEDICARE EXPENSE	4,365	0	4,365	885.83	.00	3,479.17	20.3%
1060030 5202 GROUP HEALTH INSUR	63,102	0	63,102	14,224.73	.00	48,877.27	22.5%
1060030 5203 PENSION (401) UAJA	16,519	0	16,519	3,189.61	.00	13,329.39	19.3%
1060030 5304 OPERATIONAL SUPPLI	1,000	0	1,000	865.83	.00	134.17	86.6%
1060030 5304 1038 COMPOST AMEND	120,000	0	120,000	.00	.00	120,000.00	.0%
1060030 5305 SMALL EQUIPMT/TOOL	2,500	0	2,500	580.53	.00	1,919.47	23.2%
1060030 5409 LICENSE & FEES	5,500	0	5,500	274.95	.00	5,225.05	5.0%
1060030 5410 LAB ANALYSIS	11,500	0	11,500	916.00	.00	10,584.00	8.0%
1060030 5413 MARKETING	1,000	0	1,000	.00	.00	1,000.00	.0%
1060030 5415 VECTOR CONTROL	5,843	0	5,843	5,842.59	.00	.41	100.0%
1060030 5501 EQUIPMENT MAINTENA	50,000	0	50,000	40.32	.00	49,959.68	.1%
1060030 5506 1032 SKID STEER 184	5,000	0	5,000	.00	.00	5,000.00	.0%
1060030 5506 1055 STREET SWEEPER	4,000	0	4,000	172.79	.00	3,827.21	4.3%
1060030 5506 1062 CAT SKID STEER	5,000	0	5,000	1,984.93	.00	3,015.07	39.7%
1060030 5506 1071 LOADER MAINT 6	10,000	0	10,000	.00	.00	10,000.00	.0%
1060030 5506 1072 TROMMEL	7,000	0	7,000	55.32	.00	6,944.68	.8%
1060030 5602 1041 POWER-COMPOST	131,319	0	131,319	23,758.96	.00	107,560.04	18.1%
1060030 5603 1007 NATURAL GAS -	120,000	0	120,000	43,457.32	.00	76,542.68	36.2%
TOTAL WWTP - COMPOST	883,294	0	883,294	161,129.27	.00	722,164.73	18.2%
1060032 TREATMENT PLANT OPERATION							
1060032 5001 SUPERVISOR LABOR	36,895	0	36,895	6,405.26	.00	30,489.74	17.4%

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1060032 5002 REGULAR LABOR	627,336	0	627,336	100,327.08	.00	527,008.92	16.0%
1060032 5003 OVERTIME LABOR	60,000	0	60,000	8,016.18	.00	51,983.82	13.4%
1060032 5004 SHIFT LABOR	12,000	0	12,000	2,211.12	.00	9,788.88	18.4%
1060032 5006 VACATION	0	0	0	5,195.19	.00	-5,195.19	100.0%*
1060032 5007 SICK	0	0	0	4,194.41	.00	-4,194.41	100.0%*
1060032 5008 PERSONAL DAY	0	0	0	1,373.92	.00	-1,373.92	100.0%*
1060032 5010 HOLIDAY	0	0	0	9,809.54	.00	-9,809.54	100.0%*
1060032 5101 FICA EXPENSE	45,646	0	45,646	8,592.44	.00	37,053.56	18.8%
1060032 5102 MEDICARE EXPENSE	10,675	0	10,675	2,009.53	.00	8,665.47	18.8%
1060032 5202 GROUP HEALTH INSUR	145,634	0	145,634	30,763.13	.00	114,870.87	21.1%
1060032 5203 PENSION (401) UAJA	35,057	0	35,057	5,318.15	.00	29,738.85	15.2%
1060032 5304 OPERATION SUPPLIES	500	0	500	-125.00	.00	625.00	-25.0%
1060032 5304 1034 ALUM	160,000	0	160,000	41,720.51	.00	118,279.49	26.1%
1060032 5304 1070 CARBON SUPPLEM	225,000	0	225,000	6,211.05	.00	218,788.95	2.8%
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	.00	.00	9,000.00	.0%
1060032 5410 ANALYSIS	10,000	0	10,000	7,924.00	.00	2,076.00	79.2%
1060032 5499 MISCELLANEOUS OUTS	40,000	0	40,000	6,460.50	.00	33,539.50	16.2%
1060032 5602 1043 POWER-PLANT	364,773	0	364,773	65,997.11	.00	298,775.89	18.1%
TOTAL TREATMENT PLANT OPERATION	1,796,766	0	1,796,766	312,404.12	.00	1,484,361.88	17.4%
1070021 COLLECTION-MAINTENANCE							
1070021 5001 SUPERVISOR LABOR	130,130	0	130,130	20,405.58	.00	109,724.42	15.7%
1070021 5002 REGULAR LABOR	973,383	0	973,383	16,681.55	.00	956,701.45	1.7%
1070021 5002 6172 REGULAR LABOR	0	0	0	14,340.18	.00	-14,340.18	100.0%*
1070021 5002 6262 WATERLINE PH 2	0	0	0	56,757.64	.00	-56,757.64	100.0%*
1070021 5002 6272 REGULAR LABOR	0	0	0	59,761.38	.00	-59,761.38	100.0%*
1070021 5002 B5002 REGULAR LABOR	0	0	0	1,387.05	.00	-1,387.05	100.0%*
1070021 5002 B5003 REGULAR LABOR	0	0	0	1,387.05	.00	-1,387.05	100.0%*
1070021 5002 B5004 REGULAR LABOR	0	0	0	1,387.05	.00	-1,387.05	100.0%*
1070021 5002 B5462 375 TROUT ROA	0	0	0	1,138.06	.00	-1,138.06	100.0%*
1070021 5002 B5463 KENNARD RD 25	0	0	0	1,138.04	.00	-1,138.04	100.0%*
1070021 5003 OVERTIME LABOR	15,000	0	15,000	3,401.64	.00	11,598.36	22.7%
1070021 5003 6172 OVERTIME LABOR	0	0	0	68.20	.00	-68.20	100.0%*
1070021 5003 6262 WATERLINE PH 2	0	0	0	42.93	.00	-42.93	100.0%*
1070021 5003 6272 OVERTIME LABOR	0	0	0	206.09	.00	-206.09	100.0%*
1070021 5006 VACATION	0	0	0	12,220.29	.00	-12,220.29	100.0%*
1070021 5007 SICK	0	0	0	6,179.91	.00	-6,179.91	100.0%*
1070021 5008 PERSONAL	0	0	0	3,484.25	.00	-3,484.25	100.0%*
1070021 5009 JURY/CIVIL/VOLUNTE	0	0	0	945.48	.00	-945.48	100.0%*

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1070021 5010 HOLIDAY	0	0	0	18,876.93	.00	-18,876.93	100.0%*
1070021 5101 FICA EXPENSE	68,418	0	68,418	12,875.75	.00	55,542.25	18.8%
1070021 5101 6172 FICA EXPENSE	0	0	0	893.33	.00	-893.33	100.0%*
1070021 5102 MEDICARE EXPENSE	16,001	0	16,001	3,011.24	.00	12,989.76	18.8%
1070021 5102 6172 MEDICARE EXPEN	0	0	0	208.91	.00	-208.91	100.0%*
1070021 5202 GROUP HEALTH INSUR	287,396	0	287,396	56,901.06	.00	230,494.94	19.8%
1070021 5202 6172 GROUP HEALTH I	0	0	0	4,792.80	.00	-4,792.80	100.0%*
1070021 5203 PENSION (401) UAJA	61,682	0	61,682	9,523.42	.00	52,158.58	15.4%
1070021 5203 6172 PENSION (401)	0	0	0	447.62	.00	-447.62	100.0%*
1070021 5304 OPERATION SUPPLIES	0	0	0	53.50	.00	-53.50	100.0%*
1070021 5305 SMALL EQUIPMT/TOOL	16,000	0	16,000	824.94	.00	15,175.06	5.2%
1070021 5504 SEWER LINE MAINTEN	120,000	0	120,000	4,218.29	.00	115,781.71	3.5%
1070021 ER01 RENTAL OF EQUIPMEN	1,000	0	1,000	.00	.00	1,000.00	.0%
1070021 ER14 RENTAL LOWBOY	2,500	0	2,500	.00	.00	2,500.00	.0%
1070021 PV01 TRENCH PAVING-CONT	20,000	0	20,000	.00	.00	20,000.00	.0%
TOTAL COLLECTION-MAINTENANCE	1,711,510	0	1,711,510	313,560.16	.00	1,397,949.84	18.3%
1070022 CONSTRUCT EQUIP MAINTENANCE							
1070022 5501 SMALL EQUIPMENT MA	5,500	0	5,500	232.92	.00	5,267.08	4.2%
1070022 5506 LG. CONSTRC. EQUIP	40,000	0	40,000	7,158.09	.00	32,841.91	17.9%
TOTAL CONSTRUCT EQUIP MAINTENANCE	45,500	0	45,500	7,391.01	.00	38,108.99	16.2%
1070034 COLLECTION-INSPECTION							
1070034 5001 SUPERVISOR LABOR	130,130	0	130,130	20,405.64	.00	109,724.36	15.7%
1070034 5002 REGULAR LABOR	203,504	0	203,504	28,726.12	.00	174,777.88	14.1%
1070034 5002 B5422 REGULAR LABOR	0	0	0	664.16	.00	-664.16	100.0%*
1070034 5003 OVERTIME LABOR	10,000	0	10,000	2,124.51	.00	7,875.49	21.2%
1070034 5006 VACATION	0	0	0	5,675.62	.00	-5,675.62	100.0%*
1070034 5007 SICK	0	0	0	388.78	.00	-388.78	100.0%*
1070034 5008 PERSONAL	0	0	0	954.69	.00	-954.69	100.0%*
1070034 5010 HOLIDAY	0	0	0	3,851.81	.00	-3,851.81	100.0%*
1070034 5101 FICA EXPENSE	20,685	0	20,685	3,932.73	.00	16,752.27	19.0%
1070034 5102 MEDICARE EXPENSE	4,838	0	4,838	919.76	.00	3,918.24	19.0%
1070034 5202 GROUP HEALTH INSUR	35,834	0	35,834	7,204.78	.00	28,629.22	20.1%
1070034 5203 PENSION (401) UAJA	23,188	0	23,188	4,128.71	.00	19,059.29	17.8%
1070034 5304 OPERATIONAL SUPPLI	1,500	0	1,500	119.00	.00	1,381.00	7.9%

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1070034 5305 SMALL EQUIPMT/TOOL	500	0	500	.00	.00	500.00	.0%
1070034 5507 SEWER LINE INSPEC/	0	0	0	204.47	.00	-204.47	100.0%*
1070034 5507 B5192 VILLAGE AT PE	0	0	0	933.10	.00	-933.10	100.0%*
1070034 5507 B5444 INSPECTION EN	0	0	0	696.70	.00	-696.70	100.0%*
1070034 5507 B5460 MORNINGSIDE @	0	0	0	627.05	.00	-627.05	100.0%*
1070034 5507 B5464 RHODES LANE	0	0	0	533.10	.00	-533.10	100.0%*
TOTAL COLLECTION-INSPECTION	430,179	0	430,179	82,090.73	.00	348,088.27	19.1%
1070036 COLLECTION-PUMP STATION							
1070036 5305 SMALL EQUIPMT/TOOL	1,000	0	1,000	.00	.00	1,000.00	.0%
1070036 5501 EQUIPMENT MAINTENA	12,000	0	12,000	47.53	.00	11,952.47	.4%
1070036 5505 O & M PUMP STATION	70,000	0	70,000	21,711.74	.00	48,288.26	31.0%
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	50,000	0	50,000	12,481.18	.00	37,518.82	25.0%
1070036 5602 B5002 POWER-CLASTER	500	0	500	57.25	.00	442.75	11.5%
1070036 5602 B5004 POWER-SOUTH M	150	0	150	79.69	.00	70.31	53.1%
1070036 5603 PUMP STATION PROPA	1,000	0	1,000	124.64	.00	875.36	12.5%
TOTAL COLLECTION-PUMP STATION	135,250	0	135,250	34,502.03	.00	100,747.97	25.5%
TOTAL OPERATING FUND	2,452,586	0	2,452,586	1,856,401.96	.00	596,184.04	75.7%
TOTAL REVENUES	-16,979,873	0	-16,979,873	-464,072.55	.00	-16,515,800.45	
TOTAL EXPENSES	19,432,459	0	19,432,459	2,320,474.51	.00	17,111,984.49	



UNIVERSITY AREA JOINT AUTHORITY

To: UAJA Board

From: Jason Brown

Re: Financial Report - End of February 29, 2020

Cash Accounts

General Checking	\$312,298.03
Payroll Checking	\$6,675.08
PLIGIT Checking	\$1,517.31
Petty Cash	\$79.78

Revenue Fund Accounts

Revenue Sweep	\$73,200.97
Revenue Trustee	\$303,524.20

Savings Accounts

PLIGIT Plus	\$8,437.64
93 BRIF	\$9,498,537.04
Emmaus BRIF	\$217,070.37

TOTAL LIQUID ASSETS

\$10,431,564.12

Dedicated Accounts

PLIGIT Emmaus	\$747.34
2012 DSF	\$998.86
2015 DSF	\$236.66
2016 DSF	\$67.38
2017 DSF	\$158.23
2017A DSF	\$149.63
2017 B & C DSF	\$730.04
2018 DSF	\$295.68
2020 DSF	\$6,522.27
2018 Construction Fund	\$1,210,089.26

TOTAL DEDICATED ASSETS

\$1,219,995.35

Restricted Accounts

93 Oper. Expense Reserve	\$300,478.62
93 Debt Service Reserve	\$6,353,122.87

\$6,653,601.49

Receivables Outstanding (3rd quarter 2019)

UAJA Sewer	\$179,826.70
UAJA Surcharge	\$1,300.00
Borough Sewer	\$0.00
PGM Sewer	\$11,041.87
PSU Sewer	\$0.00

TOTAL OUTSTANDING



COMPOST & SEPTAGE OPERATIONS REPORT
February, 2020
Jason D. Brown, Project Manager

COMPOST PRODUCTION AND DISTRIBUTION

	<u>Sep. 2019</u>	<u>Oct. 2019</u>	<u>Nov. 2019</u>	<u>Dec. 2019</u>	<u>Jan. 2020</u>	<u>Feb. 2020</u>
Production	940 cu/yds.	1,190 cu/yds.	988 cu/yds.	1,188 cu/yds.	1,156 cu/yds.	983 cu/yds.
YTD. Production	4,843 cu/yds.	6,033 cu/yds.	7,021 cu/yds.	8,209 cu/yds.	1,156 cu/yds.	2,139 cu/yds.
Distribution	1,292 cu/yds.	861 cu/yds.	1,823 cu/yds.	328 cu/yds.	133 cu/yds.	1,391 cu/yds.
YTD. Distribution	5,182 cu/yds.	6,043 cu/yds.	7,866 cu/yds.	8,194 cu/yds.	133 cu/yds.	1,524 cu/yds.
Immediate Sale	1,909 cu/yds.	2,108 cu/yds.	1,475 cu/yds.	2,135 cu/yds.	3,177 cu/yds.	2,902 cu/yds.
Currently in Storage	2,849 cu/yds.	3,298 cu/yds.	2,463 cu/yds.	3,323 cu/yds.	4,333 cu/yds.	3,885 cu/yds.

SEPTAGE OPERATIONS

	<u>Sep. 2019</u>	<u>Oct. 2019</u>	<u>Nov. 2019</u>	<u>Dec. 2019</u>	<u>Jan. 2020</u>	<u>Feb. 2020</u>
Res./Comm.	20,730 gals.	19,200 gals.	17,150 gals.	4,050 gals.	7,800 gals.	4,550 gals.
CH/Potter	3,361.02 lbs/solids	5,204.16 lbs/solids	4,553.64 lbs/solids	4,374.33 lbs/solids	7,948.02 lbs/solids	5,066.55 lbs/solids
Port Matilda	1,317.72 lbs/solids	166.80 lbs/solids	767.28 lbs/solids	1,017.48 lbs/solids	1,551.24 lbs/solids	1,467.84 lbs/solids
Huston Twp.	834.00 lbs/solids	366.96 lbs/solids	650.52 lbs/solids	517.08 lbs/solids	483.72 lbs/solids	417.00 lbs/solids
Total Flow	60,230 gals.	61,700 gals.	63,650 gals.	51,550 gals.	87,800 gals.	62,550 gals.

I am available to answer any questions you may have concerning the operation of the compost or septage receival facility.



SUPERINTENDENT'S REPORT

March 10, 2020

Arthur G. Brant

PLANT OPERATION

The treatment plant is operating well with no exceptions for the month of February 2020. The 12-month rolling average flow for February was 3.69mgd with the average for the month being 3.70mgd. The average monthly **influent** flow was 5.77mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Feb-20	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	21,000	51,000		
Centre Hills	0	0	Feb-20	Feb-20
Cintas	601,000	1,100,000	58.3	56.8
Red Line	445,000	911,000		
Uaja Wetland	2,287,000	8,553,000		
GDK Vault	46,511,000	85,300,000		
Kissingers	2,944,000	4,247,000		
Stewarts/M.C.	2,000	4,000		
TOTAL	52,811,000	100,166,000		

PLANT MAINTENANCE

- Unplugged Main Station pumps.
- Changed oil in Continental Blowers #2 and #4.
- Rebuilt several Dezurik valve bonnets in Primary.
- Removed gate off Knight Mixer. Will be rebuilt and re-installed.
- Worked on Polymer System PLC and programming issues.
- Rebuilt Centrifuge #1 with assistance from Alfa Laval. Re-installed and are currently running it.
- Hauled chips as needed.
- CIP #1 RO unit.
- Rebuilt and replaced leaking piping on #2 MF.
- Changed oil in Atlas Copco compressor in AWT. Still having issues with dump valve and reported that to Rettew for warranty.
- Found air solenoid stuck on valve 1674 on RO #1. Was turned in under warranty.
- Constructing walkways between MF's to allow ease for the maintenance crew.



COLLECTION SYSTEM SUPERINTENDENT'S REPORT
Activities for the month of February 2020
Mark Harter, Superintendent

MAINLINE MAINTENANCE:

New Construction – Greenbriar – Installed (1,350 ft) of mainline – (372 ft) of lateral pipe – (1) Air Release.
Harris Reuse Project – Installed (1,924 ft) of 12" main.
Mainline Televising – (4,566 ft) televised – (16) manholes inspected.
Mainline Repair – (1) 215 Pike Street.
Mainline Cleaning – (282ft) cleaned – (2) manholes inspected.
New Laterals installed – (2) – 375 Trout Rd. / Kennard Rd.
Equipment maintenance.

LIFT STATION MAINTENANCE:

Cleaned (12) lift station wet wells.
Replaced control board on generator at Big Hollow station.
Replaced block heater on generator at Ghaner station.
Routine maintenance.

NEXT MONTH PROJECTS:

Continue Greenbriar project.
Continue Harris Reuse project.
Cleaning wet wells.
Flushing mains.

INSPECTION:

Final As-Builts Approved: None

Mainline Construction:

- a. The Cottages at State College – Reviewing As-Builts.

New Connections:

a.	Single-Family Residential	14	c.	Commercial	1
b.	Multi-Family Residential	0	d.	Non-Residential	0

TOTAL 15

PA One-Calls Responded to 2/1-29/20: 230



AN EMPLOYEE-OWNED COMPANY

2568 Park Center Boulevard
State College, PA 16801
814.238.7117
Fax 814.238.7126
www.hrg-inc.com

March 18, 2020

Cory R. Miller, Executive Director
University Area Joint Authority
1576 Spring Valley Road
State College, PA 16801-8499

Re: ENGINEER'S REPORT

Dear Mr. Miller:

The following summarizes our recent activities on behalf of the University Area Joint Authority.

Consulting Engineer Services (1178.0676)

- The annual pump station capacity tables and sewer extension map were prepared for the Chapter 94 Report.
- HRG coordinated with the UAJA Project Manager to prepare and submit an application for the renewal of the Solid Waste Disposal and/or Processing Facility Permit.
- The annual inspection for Discharges of Stormwater Associated with Industrial Activities was completed and the forms were provided to the Plant Superintendent.
- A Consulting Engineer's Certificate was prepared in connection with the issuance of Bonds (Nineteenth Supplemental Indenture, February 24, 2020).

Odor Control System Upgrades (1178.0597)

Contract Times								
Contract No.	Notice to Proceed	Contract Time	Substantial Completion Date	Days Used*	Days Remaining	Final Completion	Percent of Time Remaining	Time Used
17-03	9/4/2018	320	7/21/2019	561	-241	9/4/2019	0%	100%
17-04	9/4/2018	320	7/21/2019	561	-241	9/4/2019	0%	100%

*As of date of board meeting (03/18/2020).

- Partial start-up of the biofilter occurred on February 20th. Air ventilated from the Compost Building is passing through the biofilter, which is in the acclimation stage. Complete start-up is scheduled for the week of March 30th.
- Progress Meeting No. 18 was held on March 11, 2020. Minutes have been prepared.
- Applications for Payment submitted by the Contractors are summarized in the following table.

Applications for Payment						
Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	% Monetary Complete	Balance to Finish Plus Retainage
17-03	17	\$47,547.50	\$8,358,000.00	\$8,326,215.00	99.6	\$448,095.75
17-04	12	\$4,865.90	\$587,890.00	\$584,790.00	99.5	\$32,339.50

- The Contracts are 241 days beyond the date of Substantial Completion. Liquidated Damages in the amount of \$313,300.00 (\$1,300/day x 241 days) have accrued. The Owner is entitled to impose a set-off against payment to the Contractor for liquidated damages that have accrued. If a set-off is imposed, immediate notification must be provided stating the reason. Additional discussion will be provided at the meeting. Any imposed off-sets are not reflected in the aforementioned table.
- A Change Proposal was submitted by Contract No. 17-03: General Construction (Global Heavy Corporation). The Change Proposal includes extensions to five duct supports for exhaust ducts connecting the Compost Building to the Biofilter and will be presented to the Authority Board at the meeting.
- Changer Order No. 1 for Contract No. 17-04 to decrease the Contract Price by \$2,691.00 with no change to the Contract Times is recommended. The change includes the elimination of repairs to the ceiling foam coat impacted by the installation of conduit hangers in the Compost Building. The Authority completed the repairs using a different Contractor already working to repair other areas of the ceiling.

Shiloh Road Pump Station Upgrades (1178.0632)

- A meeting has held with College Township to review the drawings prior to the submission of the planning module and permit applications.

Extension of Beneficial Reuse Water to Harris Township (1178.0637)

- Alignment stake-out is being coordinated with the UAJA construction crew.
- Permit amendments have been submitted to PennDOT and to the PA DEP to change three of the four highway/stream crossings from conventional bore installation to open cut. The HOP supplement has been issued. HRG has been responding to comments submitted by the PA DEP.
- Contract drawings have been revised to account for two contracts. There will be one contract for the conventional bore and one contract for the three open cut crossings.

Scott Road Pump Station and Bristol Interceptor – Act 537 Plan Special Study (1178.0661)

- HRG is evaluating and addressing comments provided by Authority staff.

Meeks Lane Pump Station – Act 537 Plan Special Study (1178.0663)

- HRG is working to complete the study.

Beneficial Reuse Service Area Designation – Act 537 Plan Special Study (1178.0666)

- The CPRA provided a list of questions and comments on the Draft Task Activity Report. HRG is coordinating with Authority staff to provide and review responses.

Developer Plan Reviews:

- The Developer's as-built drawings for The Yards at Old State (The Cottages) by Toll Brothers were recommended to Staff on February 25, 2020 (1178.0678).
- The Developer's design drawings for Harner Farm Subdivision Lots 1-4, Sanitary Design were received on March 3, 2020. The plans have been reviewed and corrections have been provided to the Developer's Engineer. This project will not be submitted to the Board for consideration until the April meeting (1178.0679).

Very truly yours,
Herbert, Rowland & Grubic, Inc.



Benjamin R. Burns, P.E.
Water and Wastewater

PROGRESS MEETING MINUTES

Project: Biological Odor Control Report Number: 18
Contract No. 17-03 and Contract No. 17-04 HRG Project Number: R001178.0597
Owner: University Area Joint Authority (UAJA) Meeting Location: Site
Re: Progress Meeting Meeting Date: March 11, 2020 Time: 9AM

This confirms and records our interpretation of the discussions that occurred and our understanding reached during this meeting.

ATTENDEES:

Ben Burns - HRG
Jason Brown - UAJA
Shelby McVey - HRG
Tony Curreri - The Howard Company (17-04)
Andy Breon - UAJA

Art Brant - UAJA
Mike Webb - Global Heavy Corp. (17-03)
Jeff Garrigan - HRG
Greg Maynard - Global Heavy Corp. (17-03)
Cory Miller - UAJA

Note: All attendees were reminded to sign in. All attendees were advised the meeting was being recorded.

Contract Times								
Contract No.	Notice to Proceed	Contract Time	Substantial Completion Date	Days Used*	Days Remaining	Final Completion	Percent of Time Remaining	Time Used
17-03	9/4/2018	320	7/21/2019	554	-234	9/4/2019	0%	100%
17-04	9/4/2018	320	7/21/2019	554	-234	9/4/2019	0%	100%

*As of date of Progress Meeting.

1. PREVIOUS MEETING

The previous meeting was Progress Meeting No. 17 held on February 5, 2020. Meeting minutes were distributed prior to Progress Meeting No. 18 and the attendees offered no corrections or outstanding issues from that meeting.

2. REVIEW OF WORK PROGRESS

Contract No. 17-03

Mr. Webb summarized the work progress for Contract 17-03.

- Removed former Exhaust Fan No. 1
- Interconnected two exhaust ducts from Compost Building into the intake manifold
- Installed the remainder of the duct supports and saddles
- Partial start-up and preliminary training on February 18th-20th
- Attempted start-up of Dewatering Building make-up-air unit
- Installed louver control panel in dewatering

Upcoming work was stated to include:

- Finish inlet duct connections and coordinate interconnection of inlet manifold to inlet plenum on the Pre-Conditioning Chamber.
- Full start-up and BIOREM full training week of March 30th (i.e. on-site Tuesday-Thursday)
- Insulate duct
- Complete miscellaneous outstanding items

Mr. Webb asked the Owner if it would be acceptable to make the final interconnection to the Pre-Conditioning Chamber next Wednesday (March 18th). This will require a temporary shutdown of the system to allow field welding and curing of the fiberglass components. It was originally discussed that this work must occur on a weekend when the Compost Building is unoccupied. However, Mr. Webb believes that the work can be completed after the Operators leave on leave on Wednesday and before they start on Thursday. This was reviewed with the Owner. The Owner provided tentative approval and would coordinate work schedules to accommodate; however, they desired to review the sequence with the Compost Building Operators.

Contract No. 17-04

Mr. Curreri, the on-site lead for Contract No. 17-04 summarized work completed:

- Last VFD [recirculation pump] set and ready for pump start-up
- Assisted with start-up
- Installed conduits to instruments and dampers

Upcoming work was stated to include:

- Wire dampers and sensors/instruments
- Follow behind Contract No. 17-03

3. SCHEDULES

It was discussed that BIOREM would be returning to the site the week of March 30th to finalize full start-up of the biofilter facility and provide full classroom training. Mr. Webb anticipates that BIOREM will arrive on-site on April 1st. It was discussed that Mr. Webb would provide more specific updates as the date approaches.

4. FIELD OBSERVATIONS, PROBLEMS, AND DECISIONS

There were no field observations discussed. Although, at some point in the meeting, Mr. Brown noted that there have been no odor complaints filed since February 19th [day before partial start-up].

5. IDENTIFICATION OF PROBLEMS

There was nothing discussed.

RFI – Clarifications

A response was provided to all RFIs.

Field Orders (FO) - Work Change Directives (WCD)

None

Change Orders/Change Proposals

It was discussed that Contract No. 17-04 submitted Change Proposal No. 4 (associated with existing compost building duct supports). This Change Proposal will be discussed with the Owner and a response will be provided.

Claims

See Change Orders/Change Proposals

6. SUBMITTALS

There was nothing discussed.

7. COORDINATION

Mr. Burns commended the Contractors for their coordination efforts and encouraged this to continue as work progresses and a heightened level of coordination will be beneficial.

It was discussed that Contract No. 17-04 would coordinate certain work requirements with shut-downs promulgated by work of Contract No. 17-03, specifically the re-wiring of VFDs for recirculation pumps and the transfer of existing make-up-air units to the new Biofilter Control Panel. This will be coordinated with shutdown on Wednesday, March 18th.

8. MAINTENANCE OF QUALITY AND WORK STANDARDS

It was discussed that the Contractors should review quality of work standards, specifically testing requirements and Centre Region Code inspections.

Mr. Burns referenced specific requirements for system balancing and duct inspections.

9. APPLICATIONS FOR PAYMENT

It was discussed that:

Contract No. 17-03 submitted Application for Payment No. 17. This was reviewed and comments were emailed back to the Contractor.

Mr. Maynard asked..."where are we with money". Mr. Miller stated that the Authority Board meets on March 18th and that is where any discussions and decisions will be made.

Contract No. 17-04 would be submitting an application for payment.

10. CERTIFIED PAYROLL

Mr. Burns reminded all Contracts that certified payrolls were required and commended each for their efforts to keep them updated. No work certifications will be required.

11. COMMENTS

Mr. Maynard – asked when the board meeting was. Mr. Miller responded with March 18th at 4PM and advised that it was open to the public. Mr. Maynard stated that the money needs to get worked out.

Mr. Brown – thanked Mike, Tony and Ben for looking into a suspected issue on a Sunday morning.

12. NEXT MEETING:

The next meeting is scheduled for 9:00 AM, Wednesday, April 8, 2020 at the UAJA Conference Room. All attendees indicated that this date and time was acceptable.

☒ Attachments

- Sign-in Sheet
- Agenda and Attachments

Submitted by: Benjamin R. Burns



Date: 03/12/20

Copies: ☒ Participants ☒ OWNER ☐ _____ ☐ _____ ☒ File _____

SIGN-IN SHEET
PROGRESS MEETING No. 18
MARCH 11, 2020
BIOLOGICAL ODOR CONTROL PROJECT

NAME (Please Print)	COMPANY	CONTACT INFORMATION
Ben Burns	HRG	Phone: 814 238-7117 Fax: 814 238-7126 E-Mail: bburns@hrg-inc.com
CORY MILLER	VITA	Phone: Fax: E-Mail:
JEFF GARRIGAN	HRG	Phone: Fax: E-Mail:
Greg Maynard	Global	Phone: Fax: E-Mail:
Mike Webb	Global	Phone: 814-659-6350 Fax: E-Mail: MWebb@GlobalHenryCorp.com
Andy Breon	VITA	Phone: 814-238-5361 Fax: E-Mail: abreon@vita.org
Jason Brown	UASA	Phone: Fax: E-Mail: jbrown@uasr.org
Art Brown	UASA	Phone: 814-238-5361 Fax: E-Mail: abrant@uasr.org
Shelby Mcvey	HRG	Phone: Fax: E-Mail: smcvey@hrg-inc.com

SIGN-IN SHEET
PROGRESS MEETING No. 18
MARCH 11, 2020
BIOLOGICAL ODOR CONTROL PROJECT

NAME (Please Print)	COMPANY	CONTACT INFORMATION
Tony Curreri	Hayden Power Grp	Phone: 40-382-5603
		Fax:
		E-Mail
		Phone:
		Fax:
		E-Mail
		Phone:
		Fax:
		E-Mail
		Phone:
		Fax:
		E-Mail
		Phone:
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AGENDA PROGRESS MEETING No. 18

OWNER: PROJECT: CONTRACTS: JOB No. DATE: TIME: OFFICE OF RECORD: PROJECT MANAGER:	University Area Joint Authority Biological Odor Control Project Contract 17-03 – General Construction Contract 17-04 – Electrical Construction R001178.0597 March 11, 2020 9:00 AM HRG State College Benjamin R. Burns
--	---

1. Previous Meeting Minutes
2. Review of Work Progress
3. Schedule

Contract Times								
Contract No.	Notice to Proceed	Contract Time	Substantial Completion Date	Days Used*	Days Remaining	Final Completion	Percent of Time Remaining	Time Used
17-03	9/4/2018	320	7/21/2019	554	-234	9/4/2019	0%	100%
17-04	9/4/2018	320	7/21/2019	554	-234	9/4/2019	0%	100%

*As of Progress Meeting date

4. Field observations, problems, and decisions
5. Identification of problems
6. Submittals
7. Coordination
8. Maintenance of quality and work standards
9. Applications for Payment
10. Certified Payroll
11. Comments
12. Next Meeting

**University Area Joint Authority
Summation of Project Activities****March 2020**General Services (094612024)*Pump Station SCADA Integration*

- RETTEW is currently transitioning the pump stations from the old SCADA to the new SCADA network. Scenery Park, Outer Drive, Harris Drive, and Scott Road are in process.

WWTP NPDES Permit – Phosphorus Study

- Comments have been received from the PA DEP on the proposed Plan of Study, the majority relating to the data collection effort. A meeting will be held with the PA DEP in mid-April to review their comments and any revisions to the Plan of Study.

Sludge Storage Tank Mixer

- Bids were received March 12th. See separate correspondence for the Bid Results and Recommendations.
- The submittal for the Mixer has been received and is under review.

Aeration System Leaks

- Recent investigations have uncovered several significant leaks in the underground aeration piping between the Administration Building and the Aeration Tanks. We are preparing recommendations to address this air loss, which will lead to decreased operation of the aeration blowers.

Nutrient Credit Offsets – Solar Installation

- A meeting was held with the PA DEP on March 6th to review the Authority's request for approval of nutrient offsets generated by reductions in nitrous oxide emissions through the transition to solar power, and the PA DEP's subsequent denial. An update will be provided at the Board meeting.

ENR/AWT Upgrade Project (094612009)

- The contractor for Contract UAJA 2017-06 (HRI) is in the process of completing all punchlist and warranty items.
- The contractor for Contract UAJA 2017-08 (Biter) has completed the work authorized under the final change order to repair the high voltage manhole. This contract is now complete.

Solar System (Phase I/II)

- The Interconnection Application has been submitted to First Energy/West Penn Power. RETTEW continues regulatory design packages (such as zoning and land development).
- Geophysical investigation field work for Phase II was completed the week of March 9th. The attached figure depicts the initial results of an electromagnetic terrain conductivity survey, which helps to identify areas that may include shallow rock.



330 Innovation Blvd., Suite 104, State College, PA 16803 • Phone: (800) 738-8395
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March 12, 2020

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

RE: Sludge Storage Tank Modifications
Contract UAJA 2020-01
Contract Award Recommendation
RETTEW Project No. 094612024

Dear Mr. Miller:

On March 12, 2020, bids were received from five (5) prospective contractors, for the Sludge Storage Tank Modifications Project. A tabulation of the bid results is attached to this letter for your reference and use.

It appears that all bidders were responsive, with all bids submitted in proper format. Additionally, the bids received were consistent with the budgetary estimates for the project and the Engineer's Estimate of Probable Construction Cost.

Based on the information submitted, we recommend the following Contractor be provided with Notice of Intent to Award:

- 4-M Construction Services LLC.....\$39,250.00

Upon receipt of executed Contract Documents, including suitable Performance and Payment Bonds, RETTEW recommends the Authority execute the Agreement and issue the Notice to Proceed. This is anticipated to occur in late April 2020.

Should you have any questions, or require additional information, please contact me at any time.

Sincerely,

Michele Aukerman, PE
Project Manager

Enclosure

Z:\Shared\Projects\09461\094612024 General Services 2019\EE\05 Bidding\Award Recommendation\2020-03-12_
Ltr_UAJA_Bid Recommendation.docx

CERTIFIED BID TABULATION

University Area Joint Authority
Sludge Storage Tank Modifications
Contract UAJA 2020-01

Date of Bids: March 12, 2020

Time of Bids: 10:00 AM

Bids received via the PennBid website

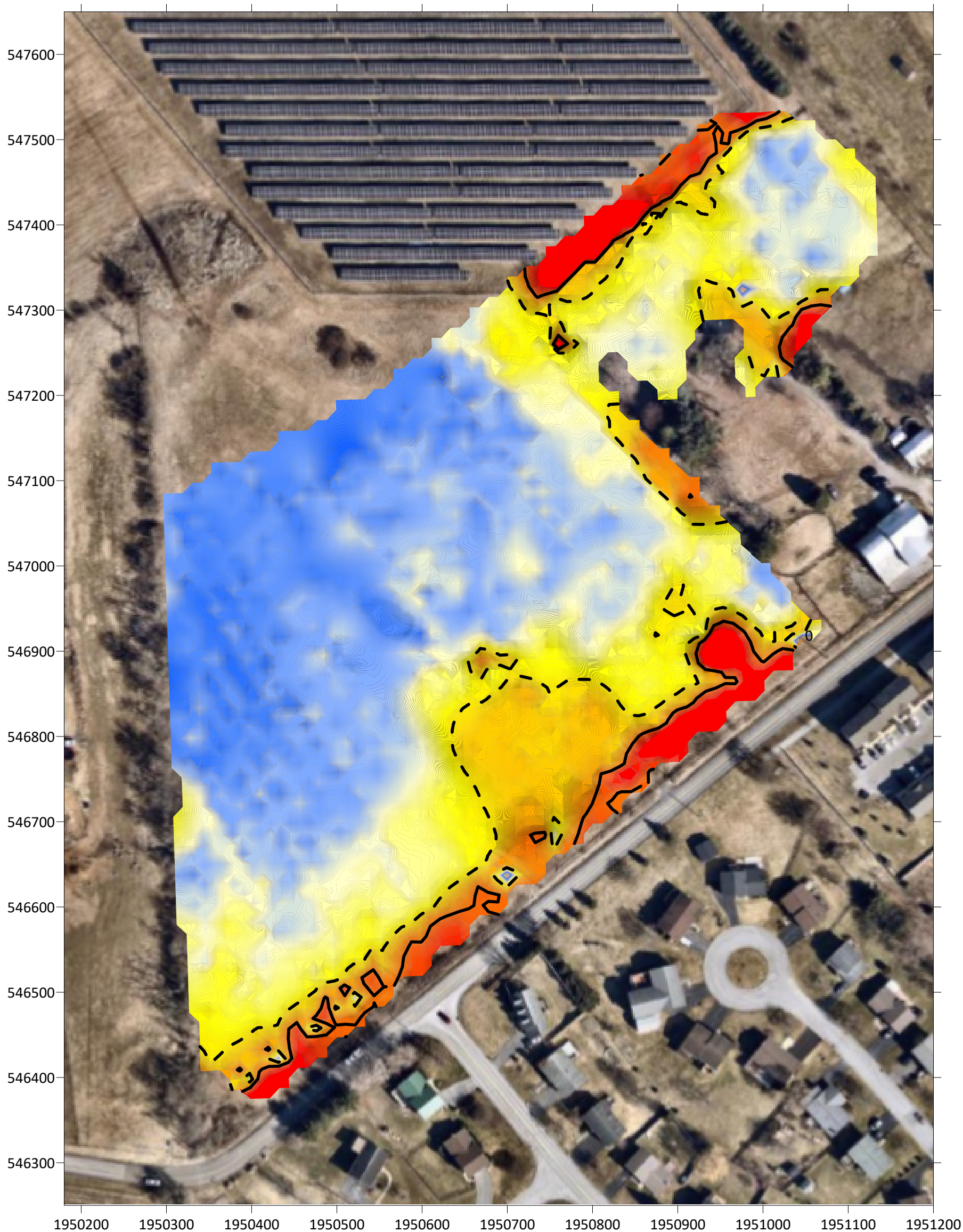
COMPANY	Addendum Acknowledgment	BID BOND	NON-COLLUSIVE AFFIDAVIT	PUBLIC WORKS EMPLOYMENT VERIFICATION FORM	BASE BID
	NONE ISSUED THIS BID				
UAJA 2020-01					
4-M Construction Services, LLC 2417 William Penn HWY Mifflintown, PA 17059		✓	✓	✓	\$39,250.00
Hickes Associates, Inc. 8253 Old Route 22 Alexandria, PA 16693		✓	✓	✓	\$48,432.00
Derstine Company, LLC 320 Cowpath Road Souderton, PA 18964		✓	✓	✓	\$48,800.00
JP Environmental, LLC 2693 Lower Road Shamokin, PA 17872		✓	✓	✓	\$57,500.00
Greenland Construction, Inc. 8908 Clearfield Curwensville Highway Clearfield, PA 16830		✓	✓	✓	\$65,050.00

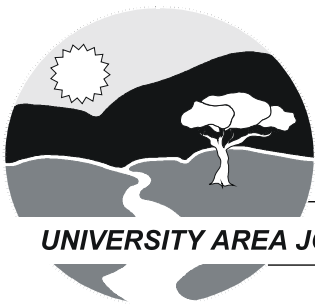
I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT TABULATION OF BIDS
RECEIVED March 12, 2020.

Michael A. Aukerman, PE
Project Manager

Michael A. Aukerman
Signature

RETTEW
SM





EXECUTIVE DIRECTOR'S REPORT

March 18, 2020

INFORMATION ITEMS

ACTION ITEMS

3. Public Comment

3.1 Other items not on the agenda

4. Old Business

4.1 Solar Phase 2 Project Update

The second phase solar array project is close to being ready for installation. Some things have changed since the project began. The changes do not affect the project budget, but they are significant enough to warrant a short presentation.

RETTEW will present the update.

Recommendation: No action, information only

4.2 Contract UAJA 2020-01 Sludge Storage Tank Modifications

Bids were received on March 12, 2020 for Contract 2020-01, Sludge Storage Tank Modifications. Five bids were received. The low bidder is 4M Construction Services, LLC. The bid tabulation is below.

4 M Construction Services LLC	\$39,250
Hickes Associates, Inc.	\$48,432
Derstine Company, LLC	\$48,800
JP Environmental , LLC	\$57,500
Greenland Construction, Inc.	\$65,050

Recommendation: Award Contract 2020-01 to 4M Construction Services LLC in the amount of \$39,250.

4.3 Long Term Electricity Contract

UAJA's long term Electricity contract expires in December 2020. EMEX will be conducting an online reverse auction at 11:00 AM March 18, 2020. The results will be available for action at the board meeting.

Recommendation: Staff will recommend an action at the meeting.

4.4 Contract 17-03 Global Heavy Corporation Change Proposal (Odor Control System)

A change proposal was submitted for Contract 17-03 (Global Heavy Construction). The change proposal includes extensions to five duct supports for exhaust ducts connecting the Compost Building to the Odor Control System. HRG will present an update.

Recommendation: Discuss and consider approval of the change proposal.

4.5 Contract 17-04 Hayden Power Group Change Order #1 (Odor Control System)

Hayden Power Group has submitted a deductive change order in the amount of \$2,691.00 with no change to the contract time. The change includes the elimination of repairs to the ceiling foam coat impacted by the installation of conduit hangers in the Compost Building. UAJA completed the repairs using a different contractor already working to repair other areas of the ceiling.

Recommendation: Approve the deductive Change Order #1 for \$2,691.00

4.6 Beneficial Reuse Service Area Draft Task Activity Report Comments

The Centre Region Planning Agency has collected 19 pages of comments for the Beneficial Reuse Service Area draft TAR. The comments are included in the agenda report. Due to the magnitude of comments, staff has not completed the draft response in time for including in the agenda report. The draft response will be emailed separately.

Recommendation: Discuss the comments.

5. New Business

5.1 Requisitions

Construction Fund #203	Rettew ENR/AWT SCADA	\$15,757.04
Construction Fund #204	HRG Harris Reuse Engineering	\$2,325.00
Construction Fund #205	Hayden Power Group Odor Control Elec. Pay App. #12	\$4,865.90
Construction Fund #206	Global Heavy Corporation Odor Control Gen. Pay App. #17	\$47,547.50

TOTAL CONSTRUCTION FUND

\$70,495.44

BRIF #408	HRG Shiloh Pump Station Replacement	\$5,393.00
BRIF #409	HRG Scott Road/Bristol 537 Study	\$1,600.00
BRIF #410	HRG Meeks Lane 537 Study	\$2,415.00
BRIF #411	Rettew Sludge Storage Tank Mixer Proj.	\$6,848.50
BRIF #412	Rettew GDK Instrumentation Project	\$18,049.05
TOTAL BRIF		\$34,305.55

6. Reports of Officers

7. Other Business

8. Adjournment

MEMORANDUM

Date: March 6, 2020

To: Cory Miller, UAJA Executive Director

From: Jim May, AICP
Director
Centre Regional Planning Agency

RE: BENEFICIAL REUSE SERVICE AREA DESIGNATION – DRAFT TAR

On December 19, 2019, the Centre Regional Planning Agency (CRPA) received a Special Study Draft Activity Report – Beneficial Reuse Service Area Designation (TAR). The draft TAR proposes to include the entire Centre Region as the Beneficial Reuse Service Area. The TAR was distributed to the following organizations/entities for comments and questions:

- State College Borough Water Authority
- College Township Water Authority
- The Pennsylvania State University
- CRPA
- ClearWater Conservancy

The Spring Creek Chapter of Trout Unlimited and the Nittany Valley Environmental Coalition were not included on the distribution list, but did provide comments for consideration. The TAR will be discussed at the March 25, 2020, Source Water Protection – Project Management Team meeting. Please prepare a response to the supplied questions and comments and return them by noon on March 20, 2020. The CRPA will include the UAJA response in the agenda for the March 25, 2020, meeting.

cc: Corey Rilk, Senior Planner, Centre Region Planning Agency
Mark Boeckel, Principal Planner, Centre Regional Planning Agency
Brian Heiser, State College Borough Water Authority (Executive Director)
Adam Brumbaugh, College Township Manager
David Swisher, PSU Wastewater Utility Engineer
Deb Nardone, ClearWater Conservancy (Executive Director)

March 6, 2020

Cory Miller
Executive Director
University Area Joint Authority
1576 Spring Valley Road
State College, PA 16801

**RE: DRAFT TAR - BENEFICIAL REUSE SERVICE AREA DESIGNATION –
CRPA INITIAL COMMENTS**

Dear Mr. Miller:

On December 19, 2019, the Centre Regional Planning Agency (CRPA) received a Special Study Draft Activity Report – Beneficial Reuse Service Area Designation (TAR). CRPA has reviewed the TAR and has listed questions and comments for clarification below:

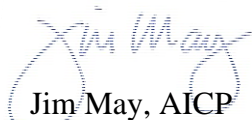
1. Why is the capacity/demand increasing at the University Area Joint Authority (UAJA)?
2. It appears that commercial and industrial processes currently account for less than 2% of beneficial reuse water. Presumably, future proposed commercial and industrial would need to be plumbed for beneficial reuse water. Has the cost of doing this been considered?
 - a. How much could this expect to increase the beneficial reuse demand?
 - b. Are the proposed future uses of beneficial reuse water allowed under the current Source Water Protection Agreement?
3. Groundwater recharge has historically been opposed for multiple reasons. How quickly would this water mix with source water? Is that timeframe acceptable using the Pennsylvania Department of Environmental Protection's (PADEP) Beneficial Reuse Guidelines? Is groundwater recharge another name for direct injection? Please clarify.
4. The draft TAR appears to give the UAJA the flexibility to put beneficial reuse water anywhere in the Centre Region. Is this correct?
5. Why is it necessary to designate the entire Centre Region as a beneficial reuse service area?
 - a. Have environmentally sensitive areas where beneficial reuse should not be allowed been identified?
 - b. What additional areas should be exempt?

6. Explain how demand for projects will be calculated?
7. How will new environmental enhancement opportunities be determined?
8. Chapter 5 – This task appears to indicate that the UAJA will want to install mains and potentially plumb existing and future buildings for beneficial reuse water. Is this correct?
9. Chapter 6 – States that an evaluation of alternatives is not be assessed. Certain areas listed within the proposed beneficial reuse service area are considered to be environmentally sensitive. Environmentally sensitive areas should be designated such and not be listed within the beneficial reuse service area.
10. Chapter 7 – If the institution evaluation is conducted, it should be completed by a 3rd party consultant and with participation and approval from any institutions that would be part of any such study. It appears that this is positioning the Region for potential consolidation of water authorities and the sewer authority. Is that correct? If so, are stormwater authorities included?
11. Please demonstrate the need for the study prior to submitting it to PADEP.

This item will be placed on the March 25, 2020, Source Water Protection – Project Management Team Agenda for discussion.

Please call or e-mail if you have questions, or if you require additional information.

Sincerely,



Jim May, AICP
Director

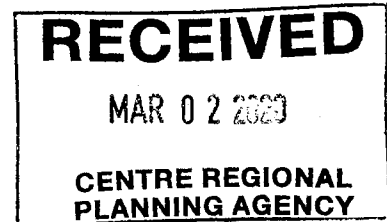
cc: Corey Rilk, Senior Planner, Centre Region Planning Agency
Mark Boeckel, Principal Planner, Centre Regional Planning Agency
Brian Heiser, State College Borough Water Authority (Executive Director)
Adam Brumbaugh, College Township Manager
David Swisher, PSU Wastewater Utility Engineer
Deb Nardone, ClearWater Conservancy (Executive Director)

COLLEGE TOWNSHIP WATER AUTHORITY

1481 East College Avenue, State College . PA 16801 . Phone (814) 231-3021 . Fax (814) 231-3020

February 25, 2020

Mr. Jim May, AICP
Director
Centre Region Planning Agency
2643 Gateway Drive, Suite #4
State College, PA 16801



Re: Act 537 Plan update; Special Study Draft Task Activity Report - Beneficial Reuse Service Area Designation

Dear Mr. May:

The College Township Water Authority (CTWA) has discussed the above captioned topic over several meetings in January and February, 2020 and provides the following comments:

Technical comments:

1. Page 2 of the letter states one of the beneficial reuse opportunities within the proposed beneficial reuse service area includes "Groundwater Recharge – Nonpotable (sic) Reuse". It is not stated whether this would be by infiltration or direct injection.

If UAJA is contemplating groundwater recharge by direct injection, they should be prepared to satisfy the CTWA that there will be no potential for degradation of the water quality in aquifers that we use as potable water sources.

Before any beneficial reuse water is permitted to flow into the groundwater for the purpose of groundwater discharge, such discharge must meet the requirements of all current PA DEP and US EPA regulations dealing with safe drinking water and injection of waste water/effluent into the groundwater/aquifer. Furthermore, such discharge locations must be examined in light of any surrounding municipal well sites and the effect on water quality. The uptake of water from those wells must also be studied and this information shared with the affected municipal water authorities.

The promulgation of beneficial reuse opportunities, including administrative contractual, and economic impacts should incorporate impacts (reduced groundwater demand, potential revenue losses) to area water systems.

2. **We recommend that the TAR specifically state that any alternative considered should be reviewed for consistency with the October 17, 2017 Amended and Restated Source Water Protection Agreement (Agreement).** Note that provisions for this review may reference the TAR Checklist, Section VI. C. that states, "Evaluate alternatives identified in Section V of this checklist with respect to applicable water quality standards, effluent limitations or other technical, legislative or legal requirements."
3. **Where within the report will UAJA evaluate the discharge quality of beneficial reuse water?** The Project management Team (PMT) has delayed sampling of all sources to allow UAJA to complete their AWT upgrades. Those upgrades incorporate redundancies to reduce spikes in discharge pollutants (during backwash) and eliminate the previously "most vulnerable" discharge.

Has UAJA completed these upgrades, and is UAJA prepared to move forward with sampling? The allowance of beneficial reuse discharge/recharge should incorporate evaluations of both natural water quality in the environment and the water quality from the AWT at its most sensitive discharge.

In the case of beneficial reuse groundwater discharge, an annual/semiannual report should be issued detailing the pharmaceuticals and other contaminants, and at what levels, that remain in the water after the filtering and treatment process.

4. **Is the allowance of beneficial reuse to be restricted to just UAJA's beneficial reuse region-wide or is Penn State University's (PSU) planned beneficial reuse also being afforded access to end users, waterway augmentation, etc.?**
5. The 2001 study offered – and PA DEP approved – a socio-economic justification (SEJ) for beneficial reuse. **Will this study expand upon the DEP-approved SEJ?** Will UAJA incorporate a water quality standard/threshold into their SEJ argument?

A cost-benefit analysis should be prepared and discussed. Currently, the development of the beneficial reuse water program has provided some entities with beneficial reuse water and has provided for stream augmentation in areas such as G.D. Kissinger Meadow. These improvements have been borne on the backs of the existing ratepayers and have been an expensive proposition.

What monetary benefit, if any, will the rate payers expect from any future expansion? Will sewer rates and connection fees be reduced or remain the same?

Other comments:

1. Will automatic shutdown of surface or subsurface discharge be put in place to ensure out-of-specification discharges do not occur? How will these systems operate?

2. Any “new” customer of the proposed beneficial reuse expansion must be reviewed in conjunction with new customer requirements in the Agreement.
As presently exists within the Agreement, the water authorities should have the opportunity to review any proposed beneficial reuse service area proposed by UAJA. Should an expansion of beneficial reuse occur, either the existing Agreement must be followed and/or the authorities should have the right to develop agreements stipulating that certain costs related to maintenance of the water system and provision of water can be recovered from any customer who wishes to use beneficial reuse water.
3. Effected parties – water authorities, PSU, CRPA/COG – must have the opportunity to review and comment on any revision to the Act 537 plan. Do the administrative organizations contemplated within the Task Activity Report include local entities? At what juncture in the TAR process are those conversation going to occur?

CTWA is an interested party to the UAJA’s proposed Act 537 Special Study – Task Activity Report; Beneficial Reuse Service Area Designation. As such, it is the expectation of CTWA that CRPA and/or UAJA will provide frequent and continued contact as this matter is discussed, researched, reviewed and – potentially – implemented.

On behalf of CTWA, thank you for the opportunity to provide comment on the proposed TAR. CTWA representatives are happy to meet to further discuss.

Sincerely,

A handwritten signature in black ink, appearing to read 'Adam', followed by a long, sweeping horizontal stroke.

Adam Brumbaugh
Manager

C: College Township Water Authority
Michael Daschbach, PE, ENTECH Engineering
Jere Northridge, PE, College Township

February 20, 2020

Mr. Jim May, AICP
Director
Centre Region Planning Agency
2643 Gateway Drive, Suite #4
State College, PA 16801

Re: Act 537 Plan update, special study draft Task Activity Report beneficial reuse service area designation

Dear Mr. May:

The State College Borough Water Authority (SCBWA) Facilities Planning Committee (committee) and staff have carefully reviewed the Act 537 Special Study Task Activity Report (TAR) for a beneficial reuse service area. The SCBWA committee has prepared the following comments and shared them with the entire Board for their review and approval. The SCBWA Board has several areas of concern with the proposed TAR.

1. The SCBWA, Centre Region Planning Agency (CRPA), College Township Water Authority (CTWA), and University Area Joint Authority (UAJA) updated and entered into a revised source water protection agreement in 2017. Paragraph 2 stipulates that UAJA must prove to COG's satisfaction that there is justification for expansion of the beneficial reuse system. Paragraphs 9 and 12 of the agreement provide SCBWA and CTWA the ability to approve or decline a request for beneficial reuse water (BRW) service in the Water Authority's respective service areas. Paragraph 7 provides for SCBWA and CTWA the ability to recover revenues lost as a result of BRW being used in place of potable water. The agreement goes on to define the rates at which the revenue can be recovered. Any form of an ACT 537 update that defines a BRW service area should not nullify any portions of this 2017 agreement or any future versions of the agreement. Act 537 updates that could potentially nullify any portions of this agreement should in fact contain language that protects and preserves the agreement by legally binding the agreement to the Act 537 update.
2. The BRW is a high-quality water; however, several compounds of concern were previously identified. These included Nicotine, Lopressor, and Primidone. Is there any research being conducted to determine long-term impairments to the receiving waters? While these compounds have been detected in very low concentrations (parts per trillion), potential impacts should be investigated. If the volume of BRW is

proportionally high compared to the natural stream flow in the receiving stream, can it potentially create negative impacts in the receiving stream?

3. Current DEP regulations do not permit treated wastewater effluent including BRW to be used for residential applications. While that regulation may be changed at some point in the future, is it appropriate, at this time, to include residential areas in a beneficial reuse service area? Before including residential areas in the service area should UAJA check with DEP to see if there are any plans to change this regulation?
4. The TAR states a possible use for BRW may be groundwater recharge. It doesn't define the groundwater recharge as direct injection or infiltration. What methods does UAJA intend to use to prove that DEP Guidance Manual's recommendations of 9 months detention time for infiltration and 12 months detention time for direct injection methods are maintained? How and by whom will studies be made to determine if an area is too vulnerable to permit groundwater recharge activities? Those vulnerabilities may include sinkhole formations and potential contamination of the groundwater.

SCBWA applauds UAJA's efforts to better manage and more efficiently use the region's effluent, be it traditional effluent or BRW. The Centre Region and immediate areas downstream have an abundant quantity of high-quality source water; therefore, all efforts, including thoroughly studying alternative BRW discharges, must be employed to protect it. It may be better to define a smaller area where appropriate zoning exists that allows for businesses that can utilize a significant volume of BRW. These areas or sites could be promoted to secure users while continuing to ensure protection of the region's water resources and continuing to follow the 2017 agreement. SCBWA greatly appreciates the process the CRPA uses to review TAR's. Included with this letter is a letter from Aqualith Technologies that SCBWA would also like included as part of our response to the TAR. Thank you for your time and consideration of our comments.

Respectfully,



Brian C Heiser
Executive Director

Attachment: 1

AQUALITH TECHNOLOGIES, LLC

February 19, 2020

Mr. Brian Heiser
State College Borough Water Authority
1201 West Branch Road
State College, PA 16801

Re: Beneficial Reuse Environmental Recharge Considerations

Dear Brian:

Efficient and cost-effective management of Spring Creek's water resources is paramount for long-term, environmentally sustainable population and economic growth within the region. The University Area Joint Authority's (UAJA) beneficial reuse of treated municipal wastewater for industrial, commercial and environmental applications offers many potential advantages. As this project evolves and additional applications for beneficial reuse are proposed, the State College Borough Water Authority (SCBWA) should consider source water protection implications where aquifer or surface recharge is proposed. Per PaDEP wastewater reuse guidance (2012), Class A+ wastewater can be directly injected into an aquifer used for public water supply, however must have a subsurface residence time of greater than 12 months. Class A wastewater can be used to recharge an aquifer via infiltration basins with a subsurface residence time of greater than 9 months.

A primary concern for introduction of beneficial reuse water into the region's aquifer is geologic uncertainty and potential source water impacts. The karst aquifer that SCBWA relies upon for the majority of its supply presents a complex geologic setting for beneficial reuse aquifer recharge scenarios due to the highly variable soil thicknesses and hydraulic conductivity values of the bedrock. The presence of voids and conduits in the carbonate bedrock can allow subsurface hydraulic flow at rates of 1000s of feet per day. For example, dye trace testing conducted by SCBWA indicated that Wellfields 1 and 3 were partially recharged by Slab Cabin Run and thus are hydraulically connected to the stream with travel times measured in scales of hours to days. Other regional wellfields are more distant from surface waters, thus less susceptible to direct surface water influence, however potential travel times from groundwater recharge points to wells can vary widely. Using Wellfield 4 as an example, the estimated hydraulic conductivities from pumping test data vary by nearly 25 fold from approximately 2 to 50 feet/day, creating significant uncertainty in fluid travel times through the aquifer. The hydrogeologic variability of the region's karst aquifer makes it difficult to confidently establish a 9- to 12-month subsurface residence time for beneficial reuse water.



A second concern with introduction of beneficial reuse water into the region's aquifer is the potential for inadequate treatment to cause adverse groundwater quality impacts. The utilization of micro-filtration and reverse-osmosis for wastewater treatment has been demonstrated to be very effective at removal of regulated contaminants. Emerging contaminants such as pharmaceuticals and personal care products represent classes of compounds that are not regularly tested, and are not 100% effectively removed during even advanced treatment processes, thus resulting in trace levels (typically in parts per trillion) of these types of compounds in treated municipal effluent. The potential for breakthrough of contaminants due to mechanical breakdown of treatment media should also be considered as a potential scenario for introduction of contaminants into the region's groundwater resources. If a breakdown in treatment occurred then the introduction of effluent containing elevated levels of contaminants could occur for an elongated period of time prior to discovery, thus introducing contaminants into drinking water sources.

The state of the science of understanding the human health impacts from trace levels of pharmaceuticals, personal care products, endocrine disruptors and other contaminants in treated municipal effluent is currently not well understood, especially when considering there are likely multiple compounds simultaneously present in the effluent. Analytical methods for these emerging contaminants are still being developed in many cases, therefore accurate quantification of concentrations in samples and fate and transport studies may not be currently possible. Penn State's Living Filter project has been extensively studied for impacts to groundwater from spray irrigation of secondarily-treated effluent, where a variety of relatively common pharmaceuticals and personal care products were detected in multiple monitoring wells at part per trillion to part per billion concentration levels in site groundwater monitoring wells (Ayers et al., 2017). It should be noted that the Living Filter project involves secondary wastewater treatment, therefore these effluent contaminant levels are likely higher than in UAJA's beneficial reuse effluent. Additionally, recharge at the Living Filter occurs through a significant soil cover thickness, which appears to decrease some contaminant levels (Ayers et al., 2017). The ability of the contaminants to persist in the environment and potentially build up in aquatic life and humans depends on the influent concentrations, treatment efficiency, method of environmental application, half-life of the contaminant, and presence of exposure pathways, such as ingestion of drinking water.

The SCBWA's existing source water quality is excellent, and should be benchmarked against beneficial reuse water quality prior to any consideration of aquifer recharge projects. There may be areas within the watershed that would be suitable for aquifer recharge that would not have any impact on regional drinking water resources. Selection of suitable groundwater recharge sites would require careful site characterization prior to consideration. A pilot scale study of beneficial reuse recharge at a carefully selected site including extensive environmental monitoring and testing should also be considered prior to full-scale implementation. Beneficial



reuse has the significant advantage of utilizing this treated wastewater for a variety of non-potable uses, thus preserving potable drinking water, however must be implemented to be protective of source water quality. Consumer confidence is a significant factor that must be factored into the beneficial reuse decision-making process to ensure water quality is safe. It is difficult to confidently endorse any full-scale aquifer recharge projects with beneficial reuse water, especially in a complex karst watershed, until the science on fate and transport of emerging contaminants in wastewater and related health impacts are better understood.

Thank you for the opportunity to provide this information, if you have any questions please contact Dave Yoxtheimer at (814) 280-6433 or yoxtheimer.dave@gmail.com.

Sincerely,



David Yoxtheimer, Ph.D., P.G.
Hydrogeologist

February 26, 2020

Jim May, AICP
Director, Centre Regional Planning Agency
2643 Gateway Drive, Suite 4
State College, PA 16801

RE: **Review Comments – draft Task Activity Report for the UAJA “Beneficial Reuse Service Area Designation Project”**

Dear Jim,

Penn State has reviewed the above-referenced draft task activity report (TAR) dated December 2019 to prepare an Act 537 Plan Special Study. In general, Penn State is highly supportive of the thoughtful development of a UAJA Beneficial Reuse Service Area to serve commercial, industrial and irrigation opportunities, but would have reservations with environmental discharges unless they are thoroughly evaluated and studied. With that in mind, we have prepared the following comments for consideration.

1. The establishment of a beneficial reuse service area should be carefully considered. Approving such a service area through an amendment to the Centre Region Act 537 Plan would significantly limit the ability of the Centre Region municipalities, planning agencies, public water suppliers and community to review and comment on future expansions and discharges of beneficial reuse water within the service area.
2. As you are aware, the Centre Region has a number of environmentally important and sensitive areas such as special protection streams and waterways, wetlands, riparian buffer zones and public water supply source water protection areas. The Special Study should include a thorough analysis on potential impacts to any environmentally sensitive areas within the Study Area.
3. Environmental Enhancement through discharges to surface water sources such as wetlands and streams is listed as a potential beneficial reuse opportunity. Surface water discharges should not be considered as an allowable use for beneficial reuse without detailed engineering and scientific investigations on each specific proposed discharge location. For example, in 2016 an environmental discharge of UAJA beneficial reuse water was proposed at the head waters of the Big Hollow, which is located in the Zone 2 Wellhead Protection Area of the University's Big Hollow Well Field. No engineering or scientific investigations were conducted to determine potential impacts to the University's drinking water supply. As such, the University requested that the proposed discharge be removed from consideration in a memo to the Centre Region Planning Agency dated 12/15/16.

Due to the level of investigation that is needed for surface water discharges, it would not be appropriate to include Environmental Enhancement areas as an allowable use within a general UAJA Beneficial Reuse Service Area. Environmental Enhancement areas should require separate sewage facilities planning on a case-by-case basis.



4. Groundwater Recharge is listed as a potential beneficial reuse opportunity. Groundwater recharge should not be considered as an allowable use for beneficial reuse without detailed engineering and scientific investigations on each specific proposed recharge location. Groundwater recharge methods such as infiltration and direct injection in karst geology could cause short circuiting within the aquifer and inadvertently lead to direct impacts to public water supplies. We recall dye trace studies done in the Pine Grove Mills area that showed travel times from the infiltration point to the well heads near Slab Cabin Run was two or three days. Due to the level of investigation that is needed for groundwater recharge, it would not be appropriate to include groundwater recharge as an allowable use within a general UAJA Beneficial Reuse Service Area. Groundwater recharge projects should require separate sewage facilities planning on a case-by-case basis.
5. The Special Study should provide a list of specific uses that are permitted within the general UAJA Beneficial Reuse Service Area. Any uses that are not specifically identified in the Special Study should require separate sewage facilities planning on a case-by-case basis.
6. Due to potential impacts to public drinking water supplies, we strongly recommend that the development of the Special Study is closely coordinated with all public water suppliers within the Centre Region. Participation from these public water suppliers should be solicited prior to the draft plan being advertised for public comment. The Special Study should also give consideration to Source Water Protection Plans that have been established within the Centre Region as well as impacts to other non-public water supply systems.
7. For planning consistency purposes, the Special Study should identify Penn State University's future reclaimed water system on the University Park Campus. The University's future reclaimed water system is outlined in the Act 537 Special Study that was approved by the Centre Region COG on June 16, 2016 and by PA DEP on September 8, 2016.
8. It is recommended that the Special Study include an evaluation of short-term and long-term wastewater flow projections to UAJA's wastewater treatment plant. Those flow projections should be compared to UAJA's current permitted discharge capacity. This information would be useful to provide perspective on the point at which UAJA's flows would reach their current permitted discharge capacity, which, in turn, could require UAJA to acquire additional discharge capacity or find permanent uses for the beneficial reuse water.
9. The Special Study should include a consistency evaluation with existing applicable agreements and ordinances that could impact the expansion of the UAJA beneficial reuse system. These documents include the Amended and Restated Source Water Protection Agreement from October 2017 as well as the Ferguson Township Source Water Protection Ordinance.

Thank you for the opportunity to review the draft task activity report and provide comments.

Rob Cooper,
Director of Energy and Engineering



March 4, 2020

Centre Regional Planning Agency
Attention Jim May
2643 Gateway Drive, Suite 4
State College, PA 16801

RE: Act 537 Plan Update, Special Study on Beneficial Reuse of Wastewater

Dear Mr. May,

This letter provides ClearWater Conservancy's comments on the Act 537 Special Study, Draft Task Activity Report (TAR) for designating a Beneficial Reuse Service Area for the University Area Joint Authority (UAJA).

ClearWater Conservancy is an accredited land trust and conservation organization working in central Pennsylvania since 1980. We devote our time to conserving and restoring the natural resources through land conservation, watershed stewardship and engagement of our community in the outdoors. The Spring Creek Watershed has been a primary focus of our work over those 40 years. We understand the value and importance of clean, healthy drinking water and streams to sustain our growing community. We appreciate the opportunity to review and provide comments on the scope of the Act 537 Sewage Facilities Plan update.

- This Special Study Task Activity Report (TAR) must effectively and explicitly define the "project". Chapter 6 and Chapter 8 define the "project" as two different things:
 - Chapter 6 - Evaluation of Alternatives - claims that no consideration of alternatives is required, as the "project" is simply a delineation of the service area.
 - Chapter 8 - Recommended Technical & Institutional Alternative(s) - includes estimates of costs and schedule to expand. This is much more than just a consideration of service area expansion; it's a study to actually implement the expansion.

The project should be explicitly defined. It cannot be two different things. A rigorous public process to review potential expansion, different expansion alternatives, and their benefits and impacts should come before costs and schedule to expand are evaluated.

- The Beneficial Reuse of Wastewater Study Area has traditionally mirrored the Regional Growth Boundary / Sewer Service Area. What is the rationale to expand this area? Why is the proposed expansion by political jurisdiction rather than watersheds or groundwater basins?



2555 North Atherton Street ♦ State College, Pennsylvania 16803 ♦ (814) 237-0400
www.clearwaterconservancy.org ♦ contactus@clearwaterconservancy.org



- The study should consider an evaluation of alternatives which includes not expanding the Beneficial Reuse Wastewater program - a no-action alternative.
- We are concerned that groundwater recharge is listed as a possible wastewater reuse opportunity. Direct groundwater injection within our aquifers comes with risk, particularly with contaminants of emerging concern (CEC's) that are not removed through the treatment process¹. The study identifies potential use for injection of wastewater in non-potable aquifers. The proposed study should outline how this is defined and where 'non-potable' aquifers exist in this region.
- The UAJA should be monitoring beneficial reuse wastewater for contaminants of emerging concern and make the data, data analysis and monitoring protocols available. Additionally, data and research from Penn State's Living Filter should be made available for reference during development of this study. The development of a long-term monitoring plan to collect rigorous baseline water quality data, of both surface and groundwater for emerging contaminants of concern² will be important. Lastly, current and relevant studies and experts should be consulted during this process.
- The study should review what impacts supplemental flow will have on water quantity. With more intense and frequent rain storms due to climate change, along with increasing stormwater surges due to development, supplementing flow to either surface or groundwater can adversely impact ecosystems and may increase downstream flood risk. How will that be studied, analyzed and mitigated as part of this study?
- What studies will be conducted to assess potential thermal impacts from supplemental stream flow to our High Quality Cold Water Fisheries (HQ-CWF) and Exceptional Value (EV) streams in the Spring Creek Watershed?

Thank you for considering our comments. We look forward to hearing more about this public process moving forward. Please contact Deborah Nardone for any additional questions or follow up at deb@clearwaterconservancy.org.

All the best,



Deb Nardone
Executive Director



Kevin McGarry
President

Copies by email:

- Cory Miller, UAJA
- Brian Heiser, SCBWA
- Corey Rilk, CRPA

¹ <https://cfpub.epa.gov/ncer/abstracts/index.cfm/fuseaction/display.publications/abstract/10498>

² <https://www.epa.gov/wqc/contaminants-emerging-concern-including-pharmaceuticals-and-personal-care-products>



Spring Creek Chapter of Trout Unlimited

Conserving, protecting, and restoring Spring Creek's coldwater fishery and watershed

www.springcreektu.org

VIA: EMAIL

February 3, 2020

Centre Regional Planning Agency
Attention: Jim May
2643 Gateway Drive, Suite 4
State College, PA 16801

Re:

Act 537 Plan Update, Special Study
Draft Task Activity Report
Beneficial Reuse Service Area Designation,
University Area Joint Authority

Dear Mr. May,

This letter provides the Chapter's comments on the above referenced Act 537 Special Study, Draft Task Activity Report (TAR) for Designating a Beneficial Reuse Service Area for the University Area Joint Authority (UAJA).

The Spring Creek Chapter of Trout Unlimited is an all-volunteer conservation organization devoted to water quality and stream health along the 22 miles of Spring Creek and within its watershed. The Spring Creek watershed provides water and recreation to our community. Spring Creek is recognized as a world class "destination" fly-fishing stream, as such, the chapter is interested in any activity, which will impact the quality or quantity of water in the watershed. It is requested that the Chapter be given the opportunity to participate in the review of the above referenced special study, and any proposals to establish a beneficial reuse service area for UAJA.

By way of background, the Chapter has been generally supportive of UAJA's beneficial reuse program including discharging reuse water into Slab Cabin Run or a wetland. We feel that discharging cool, high quality treated water back into the watershed, relatively far upstream, is good for the watershed's ecosystem. The large size of the proposed service area and number of possible additional reuse opportunities outlined in the draft TAR are of interest to the Chapter.

Some preliminary observations:

The draft TAR identifies a number of beneficial reuse opportunities, which the Chapter is especially interested in learning more about. Currently UAJA is permitted to discharge about 2 mgd of reuse water into Slab Cabin Run. It will be concerning to the Chapter if this volume of water would be reduced by substituting other "reuse opportunities".

Ground water recharge is listed as a possible reuse opportunity. We support ground water recharge because it will benefit streamflow; however, we recognize that ground water recharge in proximity to water supply wells must be carefully evaluated.

Finally, some of the proposed service area is outside of the Spring Creek watershed, so the Chapter will be concerned if reuse water leaves the watershed.

Thank you for considering including our Chapter in the review process. If you have any questions on this letter please contact Ford Stryker, Vice President, Spring Creek Chapter Trout (vpres@springcreektu.org), 814-777-4402.

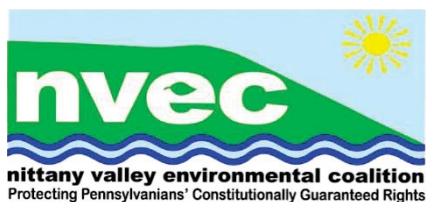
Sincerely,

Jamie SanFilippo

Jamie SanFilippo, President
Spring Creek Chapter of Trout Unlimited
pres@springcreektu.org

Copies by email:

- University Area Joint Authority Attn: Cory Miller
- Penn State University, Attn: Rob Cooper
- ClearWater Conservancy, Attn: Deb Nardone
- State College Borough Water Authority, Attn: Brian Heiser



Nittany Valley Environmental Coalition
539 East Foster Avenue
State College, PA 16801

March 3, 2020

Jim May
Centre Regional Planning Agency
2643 Gateway Drive, Suite 4
State College, PA 16801

RE: 2019 Act 537 Plan Update concerning beneficial reuse

Dear Mr. May,

Nittany Valley Environmental Coalition is a 501(c)4 non-profit that was formed with the goal of augmenting citizen voices on behalf of air, water and the beautiful Centre Region environment. Our members have been following the rapid growth of the Spring Creek Watershed and have ongoing concerns about managing this growth in the face of climate change. Thank you for allowing us to add our comments on the Special Study Task-Activity Report on beneficial reuse as follows.

I. EPA Guidelines Directing Beneficial Reuse May Be Outdated

UAJA plans to rely on the following documents, both from 2012, to guide the study and the subsequent implementation of their plans:

United States Environmental Protection Agency (US EPA) (2012) Guidelines for Water Reuse. EPA/600/R-12/618.

Pennsylvania Department of Environmental Protection (PA DEP) (2012) Reuse of Treated Wastewater Guidance Manual. 385-2188-002

However, EPA guidelines may be out of date with respect to research on contaminants of emerging concerns (CECs). For example, a search of the EPA website yielded the following: https://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display/publications/abstract/10498. These peer-reviewed scientific publications support a very recent EPA Grant Award. Each of these publications is dated well after 2012, and delineate the concerns about contaminants of emerging concern in agriculture. Can and should UAJA exceed these EPA and DEP guidelines when it comes to protecting our water, by following current research while planning to expand beneficial reuse? Anything less is inadequate, particularly as the science is advancing rapidly.

II. The Centre Region Beneficial Reuse System Needs More Public Transparency

Beneficial reuse is not a new concept, nor is it a new concept for our area. However, a significant expansion is proposed. At the very least, transparency to the public **before, during, and after the study** should increase with respect to the following:

- 1) **METHODS:** The public deserves to know and understand the ways in which our water is cleaned. What methods are used? What is the effectiveness of these methods?
- 2) **MONITORING:** What will be the extent of monitoring? This monitoring plan should be posted in advance of any change to the introduction of new sites for beneficial reuse. Who will pay for enhanced monitoring and remediation in the event that problems arise?
- 3) **CONTAMINANTS and ENVIRONMENTAL IMPACT:** What contaminants are measured? Are CECs measured? Is anyone following up on impacts on our ecosystems? Test data should be posted along with schedules of testing, right on UAJA's website.
- 4) **ONGOING APPLICATION OF NOVEL RESEARCH:** What peer-reviewed research is UAJA consulting in efforts to study the expansion of the beneficial reuse area and protect our water and its dependent ecosystems? Can we be proactive in addressing this new information, explaining it to the public in a way they can comprehend?
- 5) **USE OF LOCAL EXPERTISE:** Since local research on the Living Filter at PSU is ongoing, and represents the impact of Centre Region reuse water on Centre Region land, how could this research data be put to use in the service of the UAJA plan? It should be used because the data most closely reflect our particular ecosystems. The public should be informed as to how we are taking advantage of local, relevant science.

All of the above should be placed front and center in a new section on beneficial reuse on UAJA's website. NVEC will continue to advocate for this public transparency, and by extension, UAJA accountability, throughout the process of study of expanding the beneficial reuse system.

We appreciate the opportunity to comment.

Sincerely,

Dorothy Blair, President

Mike Costello, Vice President

Dave Stone, Treasurer

Terry Melton, Secretary

Cc via email to: Cory Miller (UAJA), Brian Heiser (SCBWA), Corey Rilk (CRPA)