



## **A G E N D A**

### **Regular Meeting - 4:00 p.m. – December 19, 2018**

- 1. Call to Order**
- 2. Approval of the Minutes Regular Meeting – November 14, 2018**
- 3. Public Comment**
  - 3.1 Other items not on the agenda
- 4. Old Business**
- 5. New Business**
  - 5.1 Halfmoon Township Development of Regional Importance (DRI)
  - 5.2 Final Design: Gray's Woods Planned Community – Phase 6, Section A
  - 5.3 Contract 2017-06 Change Order #1 (HRI)
  - 5.4 Contract 2017-08 Change Order #1 (Biter)
  - 5.5 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 Executive Session
- 8. Adjournment**

**MINUTES**  
**UNIVERSITY AREA JOINT AUTHORITY**  
**1576 SPRING VALLEY ROAD**  
**STATE COLLEGE, PA 16801**  
**Regular Meeting – November 14, 2018**

**1. Call to Order**

Mr. Lapinski, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, November 14, 2018. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Daubert, Dempsey, Dietz, Ebaugh, Guss, Lapinski, McShea and Nucciarone; 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; Jeff Garrigan and Ben Burns, Consulting Engineers; Jason Wert and Michele Aukerman, RETTEW; Brian Heiser, State College Borough Water Authority; Bernie Hoffnar, Liaison State College Borough Water Authority; Frank Pugliese; Greenbriar and Kathy Wheeler, Recording Secretary.

**2. Reading of the Minutes**

**2.1 UAJA Regular Meeting – October 17, 2018**

**UAJA**  
**Meeting Minutes**  
**Approved**

A motion was made by Mr. Daubert, seconded by Mr. Nucciarone, to approve the minutes of the UAJA meeting held on October 17, 2018. The motion passed unanimously.

**3. Public Comment**

None.

**4. Old Business**

**4.1 Columbia Gas Easement**

Columbia Gas intends to build a new transmission main to replace the main that is along Dreibelbis Street. The exiting transmission main cannot be upgraded, because it is too close to residential structures. Over a year ago, Columbia approached UAJA to ask for an easement to place the new transmission main on UAJA property along Trout Road. To accommodate the main, the house owned by UAJA that fronts on Trout Road (1315 Trout Rd) will be subdivided from the remainder of the UAJA property. The parcel containing the house will be 1.057 Acres. The subdivision plan and the gas transmission main easement were included in the meeting packet for the Board's review.

UAJA contracted for an appraisal for the easement, to compare to the appraisal obtained by Columbia. Columbia has agreed with the UAJA appraisal. If UAJA agrees to the easement, Columbia will demolish the barn along Trout Road as part of their project, and compensate UAJA \$81,000, which includes the value of the materials to be salvaged from the barn, and UAJA's cost of obtaining appraisals.

**Right of Way**  
**Agreement**  
**Approved**

A motion was made by Mr. Daubert, seconded by Mr. Dempsey, to approve the right of way agreement and the supplemental agreement between UAJA and Columbia Gas of Pennsylvania, Inc. The motion passed unanimously.

## **5. New Business**

### **5.1 Final Design: Grays Woods Planned Community (Lots 46A & 46B)**

Final design drawings for the Grays Woods Planned Community (Lots 46A & 46B) sewer extension (Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 2 EDUs of churches. The review comments have been addressed.

**Final Design: Grays  
Woods Planned  
Community  
(Lots 46A & 46B)  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the Final Design: Grays Woods Planned Community (Lots 46A & 46B). The motion passed unanimously.

### **5.2 Final Design: Centre Care, Inc.**

Final design drawings for the Centre Care, Inc. sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 88 EDUs for the personal care facility. The review comments have been addressed.

**Final Design: Centre  
Care, Inc.  
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Bridgers, to approve the Final Design: Centre Care, Inc. The motion passed unanimously.

### **5.3 Final Design: Oak Ridge Avenue (Lots 29 & 30)**

Final design drawings for the Oak Ridge Avenue (Lots 29 & 30) sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 2 EDUs for a single-family home. The review comments have been addressed.

**Final Design: Oak  
Ridge Avenue  
(Lots 29 & 30)  
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. McShea, to approve the Final Design: Final Design: Oak Ridge Avenue (Lots 29 & 30). The motion passed unanimously.

### **5.4 Final Effluent Ozone Disinfection**

UAJA and RETTEW have been evaluating the possibility of switching from ultraviolet light disinfection to ozone disinfection since shortly after installing the ozone system in the advanced water treatment building. Ozone has several advantages over other disinfection methods, particularly in further reducing endocrine disrupting compounds and reducing electrical demand. A report was completed in July which describes the economics and is included in the agenda report.

In the long run, ozone is less expensive and uses less power, but, since the existing UV system is performing adequately, staff decided it would be better to wait until the UV system needed to be replaced. The system was installed with the 2005 plant upgrade.

Recently, a slightly used ozone system has become available which would meet UAJA's needs. Assuming this system can be purchased at a significant discount over a new system, it might be close to the breakeven point to consider switching before the UV system has expired. With this possibility, staff decided it was time to brief the board on the ozone option.

The Board directed staff to get more information on the system for presentation at either the December or January and also to check with DEP to see what their thoughts are on an ozone system versus a UV for use as final disinfection.

## 5.5 Requisitions

Construction Fund #79	HRI ENR/AWT Pay App #6	\$626,544.56
Construction Fund #80	Biter Electrical ENR/AWT Pay App #2	\$64,779.31
Construction Fund #81	HRG Greenbriar Engineering	\$20,200.00
Construction Fund #82	HRG Odor Control Engineering	\$13,944.00
Construction Fund #83	HRG Harris Reuse Engineering	\$31,173.00
Construction Fund #84	Rettew Associates ENR/AWT SCADA	\$2,945.00
Construction Fund #85	Rettew Associates ENR/AWT Engineering	\$38,009.61
Construction Fund #86	The Howard Company Odor Control Elect Pay App #1	\$6,454.19
<b>TOTAL CONSTRUCTION FUND</b>		<b>\$804,049.67</b>

**Requisitions  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the Construction Fund #79-86. The motion passed unanimously.

BRIF #328	Golden Equipment Co. TV Rig Upgrade	\$104,212.00
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<b>TOTAL BRIF</b>	<b>\$104,212.00</b>
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**Requisitions  
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Daubert, to approve the Bond Redemption and Improvement Fund #328. The motion passed unanimously.

## 6. Reports of Officers

### 6.1 SCBWA Liaison

Mr. Hoffner stated again that he would like to see the Authorities work together for the mutual benefit of both.

### 6.2 Financial Report

Mr. Smith reviewed with the Board the different cost centers of the YTD budget report for the period ending October 31, 2018.

### 6.3 Chairman's Report

None.

### 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

	<u>May 2018</u>	<u>Jun. 2018</u>	<u>Jul. 2018</u>	<u>Aug. 2018</u>	<u>Sep. 2018</u>	<u>Oct. 2018</u>
<b>Production</b>	953 cu/yds.	860 cu/yds.	870 cu/yds.	875 cu/yds.	775 cu/yds.	870 cu/yds.
<b>YTD. Production</b>	4,548 cu/yds.	5,408 cu/yds.	6,278 cu/yds.	7,153 cu/yds.	7,928 cu/yds.	8,798 cu/yds.
<b>Distribution</b>	959 cu/yds.	939 cu/yds.	505 cu/yds.	968 cu/yds.	740 cu/yds.	2,006 cu/yds.
<b>YTD. Distribution</b>	5,770 cu/yds.	6,709 cu/yds.	7,214 cu/yds.	8,182 cu/yds.	8,922 cu/yds.	10,928 cu/yds.
<b>Immediate Sale</b>	1,829 cu/yds.	1,907 cu/yds.	2,309 cu/yds.	2,181 cu/yds.	2,318 cu/yds.	1,183 cu/yds.
<b>Currently in Storage</b>	2,782 cu/yds.	2,767 cu/yds.	3,179 cu/yds.	3,056 cu/yds.	3,093 cu/yds.	2,053 cu/yds.

#### SEPTAGE OPERATIONS

	<u>May 2018</u>	<u>Jun. 2018</u>	<u>Jul. 2018</u>	<u>Aug. 2018</u>	<u>Sep. 2018</u>	<u>Oct. 2018</u>
<b>Res./Comm.</b>	13,650 gals.	37,800 gals.	21,600 gals.	37,900 gals.	94,000 gals.	64,650 gals.
<b>CH/Potter</b>	6,624.46 lbs/solids	8,239.92 lbs/solids	4,119.96 lbs/solids	7,038.56 lbs/solids	1,680.51 lbs/solids	5,963.10 lbs/solids
<b>Port Matilda</b>	2,218.44 lbs/solids	1,467.84 lbs/solids	2,101.68 lbs/solids	1,134.24 lbs/solids	2,101.68 lbs/solids	1,267.68 lbs/solids
<b>Huston Twp.</b>	567.12 lbs/solids	567.12 lbs/solids	533.76 lbs/solids	617.16 lbs/solids	316.92 lbs/solids	567.12 lbs/solids
<b>Total Flow</b>	90,350 gals.	111,800 gals.	78,100 gals.	96,900 gals.	127,000 gals.	121,650 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 to our NPDES permits for the month of October 2018. The 12-month rolling average flow for October was 4.92mgd with the average for the month being 5.58mgd. The average monthly **influent** flow was 6.56mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Oct-18	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	19,000	302,000		
Centre Hills	2,004,000	21,814,000	Oct-18	Oct-18
Cintas	688,000	6,351,000	67.3	64.9
Red Line	246,000	3,616,000		
Uaja Wetland	4,677,000	49,459,000		
Wetland Vault	15,628,000	164,648,000		
Kissingers	1,440,000	14,313,000		
Stewarts	1000	10,449		
<b>TOTAL</b>	<b>26,552,069</b>	<b>235,810,449</b>		

### Plant Maintenance

- Changed out Aeration Tank Mixer NM503
- Checked and calibrated all Auma Valves on the aeration basins.
- Drained Aeration Tank #1 Zone 3B in advance of the upgrade work to be done.
- Replaced Singer valve on #2 non-potable water pump and put in service.
- Installed new water softener in Control building.
- Replaced several circuit boards in #2 VFD at the main Station.
- PBCI Allen was in to service MAU units at Compost.
- Replaced motor on Compost Agitator #2 at Compost.
- Worked on Compost lighting.
- Cleaned Primary Tank #5 at D/W. Several dumpsters were filled.
- Replaced spool on #3 M/F.

## 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:

Mainline Televising – (673' televised) – (3) manholes inspected.

Mainline Cleaning – (11,103 ft cleaned) – (73) manholes inspected.

Casting Repairs – (19).

Brushing of Mainline R.O.W.

Assisted with Jet Truck at Dewatering.

Received Tv Rigg with Camera upgrade, Training Scheduled.

### Lift Station Maintenance:

Cleaned (5) lift station wet wells.

Cleaned both sides of well at Big Hollow Station.

Oil changes and service completed on pumps and comminutors at all stations

Installed Telemetry unit at Big Hollow station.

**NEXT MONTH PROJECTS:**

Flushing mainlines in service area.  
Cleaning Wet Wells.  
Televise Big Hollow Interceptor.  
Brushing Interceptor R.O.W.  
Training on new TV Van upgrade.  
Equipment maintenance.

**Inspection:** Final As-Builts Approved: None

**Mainline Construction:**

- a. N. Atherton Street Project (Penn Dot) – (95%) Complete.
- b. Kaywood North – Started Construction – (90%) Complete.
- c. Helix Subdivision – Started Construction – (55%) Complete.
- d. Winfield Heights – Started Construction – (95%) Complete.
- e. Canterbury Crossing phase 4&5 – Started Construction – (80%) Complete.

**New Connections:**

- |                              |    |                    |   |
|------------------------------|----|--------------------|---|
| a. Single-Family Residential | 11 | c. Commercial      | 1 |
| b. Multi-Family Residential  | 2  | d. Non-Residential | 0 |

**TOTAL 14**

PA One-Calls Responded to 10/1-31/18: 393

**6.7 Engineer's Report**

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

**Retainer**

- Attended the November meeting of Public Services & Environmental Committee to hear discussions regarding the CRPA Draft Scope of the Centre Region Act 537 Plan Update.
- Collaborated with the UAJA pursuant to maintenance activities in the Compost Building. A Form 43 was completed and submitted.

**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	71	249	9/4/2019	78%	22%
17-04	9/4/2018	320	7/21/2019	71	249	9/4/2019	78%	22%

\*As of date of board meeting.

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	-	-	\$8,358,000.00	\$180,000	2.15	\$8,196,000.00
17-04	1	\$6,454.19	\$587,890.00	\$7,171.32	1.22	\$581,435.81



- Shop drawings are being processed and reviewed.
- The revised cast-in-place vessel design was reviewed and provided.
- Progress Meeting No. 2 was held on November 7, 2018. Minutes are attached.
- The Electrical Contractor intends to start on-site work on November 12<sup>th</sup>. The General Contractor intends to start on-site work on November 19<sup>th</sup> with the removal of the media from the existing biofilter.
- An odor minimization strategy during construction was developed and submitted to the PA DEP, Bureau of Air Quality, as requested.

### **Greenbriar Sanitary Sewer Design**

- The Sewage Facilities Application Mailer (request for exemption) and an Application for NPDES Permit for Stormwater Discharges Associated with Construction Activities have been prepared and will be submitted.
- A Pave-Cut and Road Occupancy Permit Application has been prepared for Ferguson Township. A meeting was held on November 6<sup>th</sup> in conjunction with Columbia Gas to coordinate facility locations and discuss permitting requirements.
- A Tree Permit will be required for trees within the Township right-of-way that will be impacted by the sanitary sewer construction.

### **Extension of Beneficial Reuse Water to Harris Township**

- Drawings were revised to illustrate an alternate alignment through the Aikens property, which follows an existing AT&T easement. The route affects wetlands; however, fewer trees will be impacted and the UAJA Construction Crew believes this route will be easier to construct.
- Communications are ongoing with PennDOT to acquire a formal license to install the permanent facilities. It appears that dead tree removal can be completed in lieu of a continuing license fee.
- Environmental permit applications have been prepared and will be coordinated for submission once final wetland delineation points are captured and incorporated.
- A riparian forest buffer mitigation plan was developed and reviewed with representatives of Mountain View. Mountain View, via Sweetland Engineering, has stated that they are ready to provide a letter of support for the riparian forest buffer enhancement. A sample letter was provided for their use.
- Coordination with Harris Township is ongoing regarding the removal of buffer trees along Spring Creek. Harris Township has requested a formal plan to replace all of the trees that are removed.

### **Developer Plan Reviews:**

- Three (3) Developer Plan submissions have been active since the last report.
- The design plans for Grace Hills Church (Gray's Woods Lots 46A & 46B) were reviewed and recommended to Staff for Approval on October 23, 2018 (1178.0651).
- The design plans for Oak Ridge Avenue – Lots 29 and 30 were reviewed and recommended to Staff for Approval on October 29, 2018 (1178.0653).



- Revised design plans for Gray's Woods Planned Community Phase 6, Section A were reviewed and were returned to the Developer for additional corrections on November 4, 2018 (1178.0650).
- The developer's engineer has made no submissions for the Pine Hall Traditional Town Development following the meeting with Staff on October 9, 2018 (1178.0652).
- Shop drawings are being processed and reviewed for The Cottages by Toll Brothers (1178.0567).

## 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:

### *NPDES Permit*

- RETTEW submitted the Final NPDES Permit Application on November 22, 2017. We await the review of the document by the PA Department of Environmental Protection (DEP).

### *RO Membrane Replacement*

- DOW (Light Environmental Inc. and Avista Technologies, Inc.) began replacement of the membranes Monday, November 5<sup>th</sup> and continued on November 6<sup>th</sup>. Expected startup and recommissioning is slated for AM on November 7<sup>th</sup>.

### ENR/AWT Upgrade Project (094612009)

Contract Number	Notice Proceed	Contract Time	Substantial Completion Date	Contract Times		Final Completion	Percent of Time Remaining	Time Used
				Days Used	Days Remaining			
2017-06	5/23/2018	365	5/23/2019	175	190	6/22/2019	52%	48%
2017-07	5/23/2018	365	5/23/2019	175	190	6/22/2019	52%	48%
2017-08	5/23/2018	365	5/23/2019	175	190	6/22/2019	52%	48%

- Shop drawings and RFIs continue to be processed and reviewed.
- Job Conference No. 5 was held Wednesday, October 31<sup>st</sup>, meeting minutes are attached.
- Contract UAJA 2017-06 (HRI) has submitted Application for Payment No. 6 in the amount of \$626,544.56. RETTEW has reviewed the payment application and recommends payment in the amount of \$626,544.56 to HRI for Contract UAJA 2017-06.
- Contract UAJA 2017-07 (Myco) no application has been submitted for this month.
- Contract UAJA 2017-08 (Biter) has submitted Application for Payment No. 2 in the amount of \$64,779.31. RETTEW has reviewed the payment application and recommends payment in the amount of \$64,779.31 to Bob Biter Electrical Enterprises for Contract UAJA 2017-08.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work Completed to Date	% Monetarily Complete	Balance of Contract Amount incld/retainage
2017-06	6	\$626,544.56	\$8,375,000.00	\$2,387,507.77	28.51%	\$6,226,243.01
2017-07		\$0.00	\$39,900.00	\$25,164.20	63.07%	\$17,252.22
2017-08	2	\$64,779.31	\$1,025,700.00	\$181,367.32	17.68%	\$862,469.42
		\$691,323.87	\$9,440,600.00	\$2,594,039.29	27.48%	\$7,105,964.65

#### Outfall Project (094612015)

- The Water Quality Management Part II Permit and a GP-11 General Permit (replacement of water obstruction) have been submitted to the PA DEP and are currently under review. RETTEW has addressed the minor erosion/sedimentation control comments on the GP-11 General Permit. We anticipate completion of the final plans and specifications in November and soliciting pricing at that time.

#### Update on Battery Energy Storage System

- Transformer and Switchgear have arrived and been installed in final configuration. Commissioning occurred on November 5<sup>th</sup> and 6<sup>th</sup>.
- All interconnection wiring, controls and telecommunications are in place, with final commissioning completed.
- First Energy/West Penn Power is slated to cut in site power on November 7<sup>th</sup>.
- Batteries arrive to site November 19<sup>th</sup>. Battery module installation should take 2 days after which battery commissioning will immediately commence.
- Viridity's (Design Build Prime Contractor) goal is to be ready for grid testing and configuration by week of November 26<sup>th</sup>.

### **6.9 Executive Director's Report**

The following comments are as presented to the Board by Cory Miller, Executive Director.

#### **Testing**

The results from the EDC-PPCP-UCMR analysis have been received and will be provided to the Board.

### **7. Other Business**

No other business.

### **8. Adjournment**

The meeting was adjourned at 4:54 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

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Secretary/Assistant Secretary

12/10/2018 15:34  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 1  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040410 REVENUE-SEWER	-14,309,936	.00	-14,309,936.00	-11,105,529.19	.00	-3,204,406.81	77.6%
1040420 REVENUE-SOLIDS	-81,934	.00	-81,934.00	-103,954.97	.00	22,020.97	126.9%
1040425 REVENUE-BU WATER	-24,000	.00	-24,000.00	-24,554.00	.00	554.00	102.3%
1040430 MAINTENANCE	-52,391	.00	-52,391.00	-71,747.51	.00	19,356.51	136.9%
1040440 REVENUE-PERMIT/TAP FEES	-1,197,776	.00	-1,197,776.00	-3,362,353.88	.00	2,164,577.88	280.7%
1040450 REVENUE-ADVCD. CONSTRC FEE	-40,000	.00	-40,000.00	-108,209.96	.00	68,209.96	270.5%
1040451 REVENUE-MISC. REIMBURSEMNT	-108,902	.00	-108,902.00	-1,669.81	.00	-107,232.19	1.5%
1040470 INTEREST EARNINGS-CASH ACC	-660	.00	-660.00	-1,256.86	.00	596.86	190.4%
1040472 INTEREST EARNINGS-PLGIT	-100	.00	-100.00	-294.94	.00	194.94	294.9%
1040474 INTEREST EARNINGS - TRUSTE	-76,450	.00	-76,450.00	-240,832.58	.00	164,382.58	315.0%
1040480 REVENUES-MISCELLANEOUS	-56,000	.00	-56,000.00	-24,668.15	.00	-31,331.85	44.1%
1045919 CIP-WWTP-LAB	13,250	.00	13,250.00	9,286.95	.00	3,963.05	70.1%
1045921 CIP-COLLECTION MAINT I&I	414,500	.00	414,500.00	191,943.20	.00	222,556.80	46.3%
1045922 CIP-COLLECTION-CONST. EQUI	163,200	.00	163,200.00	235,478.28	.00	-72,278.28	144.3%
1045924 CIP-WWTP-PHYSICAL PLANT	8,794,800	.00	8,794,800.00	2,864,681.88	.00	5,930,118.12	32.6%
1045928 CIP-BENEFICIAL REUSE	1,800,000	.00	1,800,000.00	417,359.16	.00	1,382,640.84	23.2%
1045929 CIP-WWTP-DEWATERING FACILI	18,000	.00	18,000.00	12,115.54	.00	5,884.46	67.3%
1045930 CIP-WWTP-COMPOST FACILITY	7,189,000	.00	7,189,000.00	278,193.01	.00	6,910,806.99	3.9%
1045950 CIP-GENERAL & ADMINISTRATI	40,000	.00	40,000.00	28,956.85	.00	11,043.15	72.4%
1050050 GENERAL & ADMINISTRATIVE	1,588,882	.00	1,588,882.00	1,524,121.32	.00	64,760.68	95.9%
1050053 G & A - INFORMATION TECHNO	66,000	.00	66,000.00	57,880.03	.00	8,119.97	87.7%
1050054 G & A - FLEET/FUEL	123,000	.00	123,000.00	118,556.56	.00	4,443.44	96.4%
1052052 DEBT SERVICE	7,667,579	.00	7,667,579.00	7,795,539.84	.00	-127,960.84	101.7%
1060019 WWTP - LABORATORY	301,036	.00	301,036.00	266,856.57	.00	34,179.43	88.6%
1060022 TREATMENT PLANT MAINTENANC	976,359	.00	976,359.00	809,352.33	.00	167,006.67	82.9%
1060023 MAIN STATION	37,000	.00	37,000.00	70,522.69	.00	-33,522.69	190.6%
1060025 WWTP - IPP	107,431	.00	107,431.00	89,154.99	.00	18,276.01	83.0%
1060028 WWTP - BENEFICIAL REUSE	671,255	.00	671,255.00	583,428.43	.00	87,826.57	86.9%
1060029 WWTP - DEWATERING	383,599	.00	383,599.00	339,652.03	.00	43,946.97	88.5%
1060030 WWTP - COMPOST	864,416	.00	864,416.00	764,640.21	.00	99,775.79	88.5%
1060032 TREATMENT PLANT OPERATION	1,959,940	.00	1,959,940.00	1,700,955.24	.00	258,984.76	86.8%
1070021 COLLECTION-MAINTENANCE	1,266,963	.00	1,266,963.00	1,219,395.52	.00	47,567.48	96.2%
1070022 CONSTRUCT EQUIP MAINTENANC	35,000	.00	35,000.00	11,796.24	.00	23,203.76	33.7%
1070034 COLLECTION-INSPECTION	381,499	.00	381,499.00	377,850.70	.00	3,648.30	99.0%
1070036 COLLECTION-PUMP STATION	133,000	.00	133,000.00	86,034.38	.00	46,965.62	64.7%
TOTAL OPERATING FUND	19,047,560	.00	19,047,560.00	4,808,680.10	.00	14,238,879.90	25.2%
TOTAL REVENUES	-15,948,149	.00	-15,948,149.00	-15,045,071.85	.00	-903,077.15	
TOTAL EXPENSES	34,995,709	.00	34,995,709.00	19,853,751.95	.00	15,141,957.05	

12/10/2018 15:32  
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UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 1  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040410 REVENUE-SEWER							
1040410 4101 UAJA TOTAL SEWER REVE	-10,145,200	.00	-10,145,200.00	-7,532,318.84	.00	-2,612,881.16	74.2%*
1040410 4102 BORO SEWER TOTAL REVE	-3,500,000	.00	-3,500,000.00	-3,045,999.59	.00	-454,000.41	87.0%*
1040410 4103 PGM TOTAL SEWER REVEN	-353,920	.00	-353,920.00	-253,680.08	.00	-100,239.92	71.7%*
1040410 4104 PSU TOTAL SEWER REVEN	-92,000	.00	-92,000.00	-149,510.68	.00	57,510.68	162.5%
1040410 4105 SURCHARGES TOTAL REVE	-218,816	.00	-218,816.00	-124,020.00	.00	-94,796.00	56.7%*
TOTAL REVENUE-SEWER	-14,309,936	.00	-14,309,936.00	-11,105,529.19	.00	-3,204,406.81	77.6%
1040420 REVENUE-SOLIDS							
1040420 4201 N5001 NONTAXABLE	-48,605	.00	-48,605.00	-54,727.00	.00	6,122.00	112.6%
1040420 4201 N5002 TAXABLE COMPOST	-3,089	.00	-3,089.00	-5,032.85	.00	1,943.85	162.9%
1040420 4203 SLUDGE DISPOSAL	-30,240	.00	-30,240.00	-44,195.12	.00	13,955.12	146.1%
TOTAL REVENUE-SOLIDS	-81,934	.00	-81,934.00	-103,954.97	.00	22,020.97	126.9%
1040425 REVENUE-BU WATER							
1040425 4251 REVENUE-BU WATER	-24,000	.00	-24,000.00	-24,554.00	.00	554.00	102.3%
TOTAL REVENUE-BU WATER	-24,000	.00	-24,000.00	-24,554.00	.00	554.00	102.3%
1040430 MAINTENANCE							
1040430 4301 REVENUE-MAINT BORO	-52,391	.00	-52,391.00	-71,747.51	.00	19,356.51	136.9%
TOTAL MAINTENANCE	-52,391	.00	-52,391.00	-71,747.51	.00	19,356.51	136.9%
1040440 REVENUE-PERMIT/TAP FEES							
1040440 4401 PERMIT/CONNECTION FEE	-22,050	.00	-22,050.00	-38,336.00	.00	16,286.00	173.9%
1040440 4402 TAP FEE-TREATMENT PLA	-1,142,460	.00	-1,142,460.00	-3,284,183.93	.00	2,141,723.93	287.5%

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 2  
glytdbud

FOR 2018 11

ACCOUNTS 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040440	4403 GHANER TAP FEE	-602	.00	-602.00	.00	.00	-602.00	.0%*
1040440	4404 TAP FEE-PGM COLLECTIO	-4,428	.00	-4,428.00	-13,284.00	.00	8,856.00	300.0%
1040440	4405 IPP USER FEES	-6,650	.00	-6,650.00	-4,750.00	.00	-1,900.00	71.4%*
1040440	4409 WATER QUALITY MNGT PE	-500	.00	-500.00	-600.00	.00	100.00	120.0%
1040440	4409 B5447 WINFIELD HEIGHTS	0	.00	.00	-100.00	.00	100.00	100.0%
1040440	4409 B5449 LAWNWOOD	0	.00	.00	-100.00	.00	100.00	100.0%
1040440	4410 REPAIR PERMIT	-1,500	.00	-1,500.00	-1,225.00	.00	-275.00	81.7%*
1040440	4412 CIRCLEVILLE TAP FEE	-17,586	.00	-17,586.00	-18,605.15	.00	1,019.15	105.8%
1040440	4413 VALLEY VISTA TAP FEE	-2,000	.00	-2,000.00	-1,169.80	.00	-830.20	58.5%*
TOTAL REVENUE-PERMIT/TAP FEES		-1,197,776	.00	-1,197,776.00	-3,362,353.88	.00	2,164,577.88	280.7%
1040450 REVENUE-ADVCD. CONSTRC FEE								
1040450	4407 INSPECTION FEES	-40,000	.00	-40,000.00	-23.54	.00	-39,976.46	.1%*
1040450	4407 B5241 STEARNS CROSSING	0	.00	.00	-1,318.05	.00	1,318.05	100.0%
1040450	4407 B5295 FIELDSTONE II	0	.00	.00	-3,053.19	.00	3,053.19	100.0%
1040450	4407 B5374 INSPECTION FEES	0	.00	.00	-3,781.24	.00	3,781.24	100.0%
1040450	4407 B5428 INSPECTION FEES	0	.00	.00	-2,438.06	.00	2,438.06	100.0%
1040450	4407 B5430 THE CROSSING	0	.00	.00	-1,542.37	.00	1,542.37	100.0%
1040450	4407 B5434 INSPECTION FEES	0	.00	.00	-2,178.37	.00	2,178.37	100.0%
1040450	4407 B5435 INSPECTION FEES	0	.00	.00	-3,450.70	.00	3,450.70	100.0%
1040450	4407 B5436 AEROPONTE	0	.00	.00	-4,955.72	.00	4,955.72	100.0%
1040450	4407 B5437 MT VIEW COUNTRY	0	.00	.00	-4,060.99	.00	4,060.99	100.0%
1040450	4407 B5441 THE STATION	0	.00	.00	-26,803.24	.00	26,803.24	100.0%
1040450	4407 B5442 THE GATES PH4	0	.00	.00	-2,600.31	.00	2,600.31	100.0%
1040450	4407 B5446 INSPECTION FEES	0	.00	.00	-5,566.52	.00	5,566.52	100.0%
1040450	4407 B5451 SCIENCE PARK PLA	0	.00	.00	-2,928.21	.00	2,928.21	100.0%
1040450	4407 B5452 INSPECTION FEES	0	.00	.00	-18,206.00	.00	18,206.00	100.0%
1040450	4407 B5454 INSPECTION FEES	0	.00	.00	-4,303.68	.00	4,303.68	100.0%
1040450	4407 B5455 INSPECTION FEES	0	.00	.00	-11,202.38	.00	11,202.38	100.0%
1040450	4407 B5456 INSPECTION FEES	0	.00	.00	-9,797.39	.00	9,797.39	100.0%
TOTAL REVENUE-ADVCD. CONSTRC F		-40,000	.00	-40,000.00	-108,209.96	.00	68,209.96	270.5%
1040451 REVENUE-MISC. REIMBURSEMNT								
1040451	4501 EQUIPMENT USE	-1,000	.00	-1,000.00	.00	.00	-1,000.00	.0%*
1040451	4502 ASSESSMENT	-1,000	.00	-1,000.00	.00	.00	-1,000.00	.0%*
1040451	4503 EMPLOYEE GROUP INSURA	-1,000	.00	-1,000.00	-194.04	.00	-805.96	19.4%*

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 3  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040451 4509 PA ONE CALL	0	.00	.00	-1,466.60	.00	1,466.60	100.0%
1040451 4512 JURY DUTY	0	.00	.00	-9.17	.00	9.17	100.0%
1040451 4514 EMPLOYEE SHARE HEALTH	-105,902	.00	-105,902.00	.00	.00	-105,902.00	.0%*
TOTAL REVENUE-MISC. REIMBURSEM	-108,902	.00	-108,902.00	-1,669.81	.00	-107,232.19	1.5%
1040470 INTEREST EARNINGS-CASH ACCTS							
1040470 4701 GENERAL CHECKING-INTE	-10	.00	-10.00	.00	.00	-10.00	.0%*
1040470 4702 PAYROLL-INTEREST EARN	-150	.00	-150.00	-286.77	.00	136.77	191.2%
1040470 4717 SWEEP CHECKING-INTERE	-500	.00	-500.00	-970.09	.00	470.09	194.0%
TOTAL INTEREST EARNINGS-CASH A	-660	.00	-660.00	-1,256.86	.00	596.86	190.4%
1040472 INTEREST EARNINGS-PLIGIT							
1040472 4703 PLIGIT-INTEREST EARNE	-10	.00	-10.00	-21.15	.00	11.15	211.5%
1040472 4711 PLIGIT-EMMAUS-INTERES	-50	.00	-50.00	-174.87	.00	124.87	349.7%
1040472 4719 PLIGIT PLUS - INTERES	-40	.00	-40.00	-98.92	.00	58.92	247.3%
TOTAL INTEREST EARNINGS-PLIGIT	-100	.00	-100.00	-294.94	.00	194.94	294.9%
1040474 INTEREST EARNINGS - TRUSTEE							
1040474 4706 BOND REMP/IMP-INTERES	-25,000	.00	-25,000.00	-40,333.81	.00	15,333.81	161.3%
1040474 4707 BRIF/EMMAUS-INTEREST	-250	.00	-250.00	486.14	.00	-736.14	-194.5%*
1040474 4724 INTEREST 93 DEBT SERV	-40,000	.00	-40,000.00	-60,132.45	.00	20,132.45	150.3%
1040474 4725 INT 93 OPERATING EXPE	-1,700	.00	-1,700.00	-3,878.10	.00	2,178.10	228.1%
1040474 4726 INT 93 DEBT SERVICE F	-2,500	.00	-2,500.00	-6,988.74	.00	4,488.74	279.5%
1040474 4727 INT REVENUE FUND	-2,000	.00	-2,000.00	-3,653.96	.00	1,653.96	182.7%
1040474 4731 2017 CONSTRUCTION FUN	-5,000	.00	-5,000.00	-59,053.92	.00	54,053.92	1181.1%
1040474 4732 2018 CONSTRUCTION FUN	0	.00	.00	-67,277.74	.00	67,277.74	100.0%
TOTAL INTEREST EARNINGS - TRUS	-76,450	.00	-76,450.00	-240,832.58	.00	164,382.58	315.0%
1040480 REVENUES-MISCELLANEOUS							
1040480 4899 MISCELLANEOUS RECEIPT	-35,000	.00	-35,000.00	-14,255.25	.00	-20,744.75	40.7%*

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 4  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1040480 4901 SALES TAX COLLECTED	0	.00	.00	-162.90	.00	162.90	100.0%
1040480 4902 MAYLIE FARM RENT	-21,000	.00	-21,000.00	-10,250.00	.00	-10,750.00	48.8%*
TOTAL REVENUES-MISCELLANEOUS	-56,000	.00	-56,000.00	-24,668.15	.00	-31,331.85	44.1%
1045919 CIP-WWTP-LAB							
1045919 0019 6275 COMPOSITE SAMPLER	6,500	.00	6,500.00	5,955.00	.00	545.00	91.6%
1045919 0019 6276 BOOSTER STATION A	6,750	.00	6,750.00	3,331.95	.00	3,418.05	49.4%
TOTAL CIP-WWTP-LAB	13,250	.00	13,250.00	9,286.95	.00	3,963.05	70.1%
1045921 CIP-COLLECTION MAINT I&I							
1045921 0021 I & I COLLECTION	1,000	.00	1,000.00	.00	.00	1,000.00	.0%
1045921 0021 6234 BRANCH ROAD BRIDG	17,000	.00	17,000.00	18,154.94	.00	-1,154.94	106.8%*
1045921 0021 6250 N ATHERTON PADOT	150,000	.00	150,000.00	.00	.00	150,000.00	.0%
1045921 0021 6251 TOFTREES INT-PSU	10,000	.00	10,000.00	.00	.00	10,000.00	.0%
1045921 0021 6268 PRINCETON BACKLOT	30,000	.00	30,000.00	14,218.45	.00	15,781.55	47.4%
1045921 0021 6269 HARRIS PUMP	82,000	.00	82,000.00	68,844.81	.00	13,155.19	84.0%
1045921 0021 6270 HAYMARKET PUMPS	17,000	.00	17,000.00	.00	.00	17,000.00	.0%
1045921 5405 6235 GRAYSWOODS ENGINE	5,000	.00	5,000.00	.00	.00	5,000.00	.0%
1045921 5405 6271 SHILOH RELOCATION	52,500	.00	52,500.00	.00	.00	52,500.00	.0%
1045921 5405 6272 GREENBRIAR ENG	50,000	.00	50,000.00	90,725.00	.00	-40,725.00	181.5%*
TOTAL CIP-COLLECTION MAINT I&I	414,500	.00	414,500.00	191,943.20	.00	222,556.80	46.3%
1045922 CIP-COLLECTION-CONST. EQUIPM							
1045922 0021 6252 DOOSAN TRACKHOE	78,400	.00	78,400.00	78,360.45	.00	39.55	99.9%
1045922 0021 6253 MINI EXCAVATOR	32,800	.00	32,800.00	32,421.88	.00	378.12	98.8%
1045922 0021 6273 BACKHOE TRAILER	22,000	.00	22,000.00	20,483.95	.00	1,516.05	93.1%
1045922 0021 6274 TV RIG CAMERA	30,000	.00	30,000.00	104,212.00	.00	-74,212.00	347.4%*
TOTAL CIP-COLLECTION-CONST. EQ	163,200	.00	163,200.00	235,478.28	.00	-72,278.28	144.3%
1045924 CIP-WWTP-PHYSICAL PLANT							
1045924 0024 6256 ENR/AWT PROJECT	8,000,000	.00	8,000,000.00	2,421,757.43	.00	5,578,242.57	30.3%



12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 5  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1045924 0024 6257 ADMIN/COMPOST GAR	0	.00	.00	44,136.00	.00	-44,136.00	100.0%*
1045924 0024 6260 SOLAR PROJECT	0	.00	.00	73,876.75	.00	-73,876.75	100.0%*
1045924 0024 6277 OUTFALL CASCADE	600,000	.00	600,000.00	.00	.00	600,000.00	.0%
1045924 0024 6278 CONTROL BUILDING	18,000	.00	18,000.00	.00	.00	18,000.00	.0%
1045924 0024 6279 SNOW PLOW	6,000	.00	6,000.00	.00	.00	6,000.00	.0%
1045924 0024 6291 ENR/AWT SCADA	0	.00	.00	4,512.50	.00	-4,512.50	100.0%*
1045924 5405 6256 ENR/AWT ENGINEERI	112,200	.00	112,200.00	282,409.20	.00	-170,209.20	251.7%*
1045924 5405 6277 OUTFALL CASCADE E	58,600	.00	58,600.00	37,990.00	.00	20,610.00	64.8%
TOTAL CIP-WWTP-PHYSICAL PLANT	8,794,800	.00	8,794,800.00	2,864,681.88	.00	5,930,118.12	32.6%
1045928 CIP-BENEFICIAL REUSE							
1045928 0028 6239 MF MEMBRANE REPLA	90,000	.00	90,000.00	273,100.32	.00	-183,100.32	303.4%*
1045928 0028 6242 GREEN INFRASTRUCT	10,000	.00	10,000.00	.00	.00	10,000.00	.0%
1045928 0028 6262 WATERLINE PH 2B C	1,500,000	.00	1,500,000.00	1,920.00	.00	1,498,080.00	.1%
1045928 5405 6261 WATERLINE PH 2B E	200,000	.00	200,000.00	142,338.84	.00	57,661.16	71.2%
TOTAL CIP-BENEFICIAL REUSE	1,800,000	.00	1,800,000.00	417,359.16	.00	1,382,640.84	23.2%
1045929 CIP-WWTP-DEWATERING FACILITY							
1045929 0029 6280 PUMP VFD REPLACE	18,000	.00	18,000.00	12,115.54	.00	5,884.46	67.3%
TOTAL CIP-WWTP-DEWATERING FACI	18,000	.00	18,000.00	12,115.54	.00	5,884.46	67.3%
1045930 CIP-WWTP-COMPOST FACILITY							
1045930 0030 6245 ODOR CONTROL	6,975,000	.00	6,975,000.00	194,249.01	.00	6,780,750.99	2.8%
1045930 0030 6281 INTERNAL BELT REP	27,000	.00	27,000.00	.00	.00	27,000.00	.0%
1045930 5405 6245 ODOR CONTROL ENGI	187,000	.00	187,000.00	83,944.00	.00	103,056.00	44.9%
TOTAL CIP-WWTP-COMPOST FACILIT	7,189,000	.00	7,189,000.00	278,193.01	.00	6,910,806.99	3.9%
1045950 CIP-GENERAL & ADMINISTRATIVE							
1045950 0050 6213 GIS UPGRADE	40,000	.00	40,000.00	28,956.85	.00	11,043.15	72.4%

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 6  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
TOTAL CIP-GENERAL & ADMINISTRA	40,000	.00	40,000.00	28,956.85	.00	11,043.15	72.4%
1050050 GENERAL & ADMINISTRATIVE							
1050050 5001 SUPERVISOR LABOR	255,691	.00	255,691.00	198,660.28	.00	57,030.72	77.7%
1050050 5002 REGULAR LABOR	419,189	.00	419,189.00	317,088.83	.00	102,100.17	75.6%
1050050 5006 VACATION	0	.00	.00	58,279.28	.00	-58,279.28	100.0%*
1050050 5007 SICK	0	.00	.00	15,905.11	.00	-15,905.11	100.0%*
1050050 5008 PERSONAL	0	.00	.00	5,583.93	.00	-5,583.93	100.0%*
1050050 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	537.52	.00	-537.52	100.0%*
1050050 5010 HOLIDAY	0	.00	.00	23,116.15	.00	-23,116.15	100.0%*
1050050 5101 FICA EXPENSE	46,366	.00	46,366.00	38,339.85	.00	8,026.15	82.7%
1050050 5102 MEDICARE EXPENSE	9,786	.00	9,786.00	8,978.02	.00	807.98	91.7%
1050050 5201 UNEMPLOYMENT EXPENSE	20,000	.00	20,000.00	16,935.14	.00	3,064.86	84.7%
1050050 5202 GROUP HEALTH INSURANC	121,112	.00	121,112.00	94,881.40	.00	26,230.60	78.3%
1050050 5203 PENSION (401) UAJA CO	67,488	.00	67,488.00	61,917.17	.00	5,570.83	91.7%
1050050 5205 COBRA EMPLOYEE INSURA	1,000	.00	1,000.00	355.74	.00	644.26	35.6%
1050050 5207 GROUP LIFE INSURANCE	51,000	.00	51,000.00	43,021.43	.00	7,978.57	84.4%
1050050 5208 HEALTH DEDUCTIBLE	150,000	.00	150,000.00	179,666.21	.00	-29,666.21	119.8%*
1050050 5301 OFFICE SUPPLIES	15,000	.00	15,000.00	14,046.13	.00	953.87	93.6%
1050050 5302 POSTAGE/SHIPPING	35,000	.00	35,000.00	23,872.39	.00	11,127.61	68.2%
1050050 5303 JANITORIAL SUPPLIES	5,000	.00	5,000.00	7,200.85	.00	-2,200.85	144.0%*
1050050 5307 PETTY CASH EXPENDITUR	500	.00	500.00	121.37	.00	378.63	24.3%
1050050 5313 COG PLANNING	5,000	.00	5,000.00	1,666.67	.00	3,333.33	33.3%
1050050 5401 ADVERTISING	3,000	.00	3,000.00	2,979.39	.00	20.61	99.3%
1050050 5402 AUDIT	21,000	.00	21,000.00	21,115.00	.00	-115.00	100.5%*
1050050 5403 6107 MAYLIE PROPERTY	3,000	.00	3,000.00	-1,295.47	.00	4,295.47	-43.2%
1050050 5405 ENGINEERING-RETAINER	20,000	.00	20,000.00	11,342.38	.00	8,657.62	56.7%
1050050 5406 LEGAL	25,000	.00	25,000.00	35,743.36	.00	-10,743.36	143.0%*
1050050 5408 INSURANCE - COMMERICA	220,000	.00	220,000.00	250,313.00	.00	-30,313.00	113.8%*
1050050 5499 MISCELLANEOUS OUTSIDE	15,000	.00	15,000.00	18,975.23	.00	-3,975.23	126.5%*
1050050 5501 1054 O & M - COPIERS	2,000	.00	2,000.00	5,458.21	.00	-3,458.21	272.9%*
1050050 5601 COMMUNICATIONS	20,000	.00	20,000.00	23,107.02	.00	-3,107.02	115.5%*
1050050 5701 TRAINING, SEMINARS &	12,000	.00	12,000.00	9,813.35	.00	2,186.65	81.8%
1050050 5702 MEMBERSHIPS, SUBSCRIP,	6,500	.00	6,500.00	3,612.90	.00	2,887.10	55.6%
1050050 5703 UNIFORMS-BOOTS-GLOVES	10,000	.00	10,000.00	5,931.67	.00	4,068.33	59.3%
1050050 5704 VACCINATIONS	500	.00	500.00	470.00	.00	30.00	94.0%
1050050 5705 RECRUITING EXPENSES	100	.00	100.00	.00	.00	100.00	.0%
1050050 5706 EMPLOYEE/EMPLOYER REL	1,000	.00	1,000.00	452.41	.00	547.59	45.2%
1050050 5707 MEAL ALLOWANCE	500	.00	500.00	6.50	.00	493.50	1.3%
1050050 5708 SAFETY EQUIPMENT	6,000	.00	6,000.00	17,648.75	.00	-11,648.75	294.1%*

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 7  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1050050 5709 SAFETY TRAINING	5,000	.00	5,000.00	1,225.00	.00	3,775.00	24.5%
1050050 5710 DRUG/ALCOHOL TESTING	500	.00	500.00	.00	.00	500.00	.0%
1050050 5906 UAJA FLOW TO PSU PLAN	8,250	.00	8,250.00	.00	.00	8,250.00	.0%
1050050 6006 MISCELLANEOUS EXPENSE	1,000	.00	1,000.00	250.00	.00	750.00	25.0%
1050050 6007 BANK FEES/CHARGES	100	.00	100.00	37.00	.00	63.00	37.0%
1050050 6008 BAD DEBT/WRITE OFF	100	.00	100.00	.00	.00	100.00	.0%
1050050 6015 WATER-CTWA	4,000	.00	4,000.00	3,567.40	.00	432.60	89.2%
1050050 6017 GARBAGE	2,200	.00	2,200.00	3,194.75	.00	-994.75	145.2%*
TOTAL GENERAL & ADMINISTRATIVE	1,588,882	.00	1,588,882.00	1,524,121.32	.00	64,760.68	95.9%
1050053 G & A - INFORMATION TECHNOLOGY							
1050053 IT71 INTERNET SERVICE	10,000	.00	10,000.00	529.57	.00	9,470.43	5.3%
1050053 IT72 HARDWARE-DATA PROCESS	10,000	.00	10,000.00	.00	.00	10,000.00	.0%
1050053 IT73 SOFTWARE-DATA PROCESS	45,000	.00	45,000.00	57,350.46	.00	-12,350.46	127.4%*
1050053 IT74 TRAINING-DATA PROCESS	1,000	.00	1,000.00	.00	.00	1,000.00	.0%
TOTAL G & A - INFORMATION TECH	66,000	.00	66,000.00	57,880.03	.00	8,119.97	87.7%
1050054 G & A - FLEET/FUEL							
1050054 5502 VEHICLE MAINTENANCE	38,000	.00	38,000.00	33,287.57	.00	4,712.43	87.6%
1050054 5603 1006 GASOLINE.	35,000	.00	35,000.00	35,819.48	.00	-819.48	102.3%*
1050054 5603 1008 DIESEL FUEL	50,000	.00	50,000.00	49,449.51	.00	550.49	98.9%
TOTAL G & A - FLEET/FUEL	123,000	.00	123,000.00	118,556.56	.00	4,443.44	96.4%
1052052 DEBT SERVICE							
1052052 5801 INTEREST PAID-1993 BO	2,503,844	.00	2,503,844.00	2,440,349.98	.00	63,494.02	97.5%
1052052 5802 INTEREST PAID - EMMAU	12,035	.00	12,035.00	7,572.56	.00	4,462.44	62.9%
1052052 5804 BOND ISSUANCE COSTS	0	.00	.00	247,439.42	.00	-247,439.42	100.0%*
1052052 5901 PRINCIPAL PAID-1993 B	5,060,000	.00	5,060,000.00	5,010,000.00	.00	50,000.00	99.0%
1052052 5903 PRINCIPAL PAID-EMMAUS	80,000	.00	80,000.00	80,000.00	.00	.00	100.0%
1052052 6106 TRUSTEE FEES EMMAUS L	1,800	.00	1,800.00	1,800.00	.00	.00	100.0%
1052052 6120 TRUSTEE FEE 12	1,650	.00	1,650.00	1,777.88	.00	-127.88	107.8%*
1052052 6122 2015 TRUSTEE FEES	1,650	.00	1,650.00	1,650.00	.00	.00	100.0%

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 8  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1052052 6123 TRUSTEE FEE 2016	1,650	.00	1,650.00	1,650.00	.00	.00	100.0%
1052052 6124 TRUSTEE FEE 2017	1,650	.00	1,650.00	1,650.00	.00	.00	100.0%
1052052 6125 TRUSTEE FESS 2017A	1,650	.00	1,650.00	1,650.00	.00	.00	100.0%
1052052 6126 TRUSTEE FEE 2017B	1,650	.00	1,650.00	.00	.00	1,650.00	.0%
TOTAL DEBT SERVICE	7,667,579	.00	7,667,579.00	7,795,539.84	.00	-127,960.84	101.7%
1060019 WWTP - LABORATORY							
1060019 5001 SUPERVISOR LABOR	75,153	.00	75,153.00	62,674.84	.00	12,478.16	83.4%
1060019 5002 REGULAR LABOR	130,346	.00	130,346.00	105,244.30	.00	25,101.70	80.7%
1060019 5003 OVERTIME LABOR	500	.00	500.00	561.08	.00	-61.08	112.2%*
1060019 5006 VACATION	0	.00	.00	8,937.71	.00	-8,937.71	100.0%*
1060019 5007 SICK	0	.00	.00	3,423.50	.00	-3,423.50	100.0%*
1060019 5008 PERSONAL DAY	0	.00	.00	1,010.50	.00	-1,010.50	100.0%*
1060019 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	883.76	.00	-883.76	100.0%*
1060019 5010 HOLIDAY	0	.00	.00	5,354.87	.00	-5,354.87	100.0%*
1060019 5101 FICA EXPENSE	12,771	.00	12,771.00	11,808.59	.00	962.41	92.5%
1060019 5102 MEDICARE EXPENSE	2,987	.00	2,987.00	2,761.53	.00	225.47	92.5%
1060019 5202 GROUP HEALTH INSURANC	32,247	.00	32,247.00	24,883.00	.00	7,364.00	77.2%
1060019 5203 PENSION (401) UAJA CO	14,032	.00	14,032.00	12,842.02	.00	1,189.98	91.5%
1060019 5305 SMALL EQUIPMT/TOOL PU	500	.00	500.00	.00	.00	500.00	.0%
1060019 5306 LAB SUPPLIES	29,000	.00	29,000.00	20,583.37	.00	8,416.63	71.0%
1060019 5501 EQUIPMENT MAINTENANCE	3,500	.00	3,500.00	5,887.50	.00	-2,387.50	168.2%*
TOTAL WWTP - LABORATORY	301,036	.00	301,036.00	266,856.57	.00	34,179.43	88.6%
1060022 TREATMENT PLANT MAINTENANCE							
1060022 5001 SUPERVISOR LABOR	34,985	.00	34,985.00	25,498.78	.00	9,486.22	72.9%
1060022 5002 REGULAR LABOR	425,769	.00	425,769.00	312,375.72	.00	113,393.28	73.4%
1060022 5003 OVERTIME LABOR	4,000	.00	4,000.00	5,896.05	.00	-1,896.05	147.4%*
1060022 5006 VACATION	0	.00	.00	24,822.00	.00	-24,822.00	100.0%*
1060022 5007 SICK	0	.00	.00	12,273.93	.00	-12,273.93	100.0%*
1060022 5008 PERSONAL DAY	0	.00	.00	4,568.90	.00	-4,568.90	100.0%*
1060022 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	2,302.87	.00	-2,302.87	100.0%*
1060022 5010 HOLIDAY	0	.00	.00	13,478.69	.00	-13,478.69	100.0%*
1060022 5101 FICA EXPENSE	28,815	.00	28,815.00	24,983.99	.00	3,831.01	86.7%
1060022 5102 MEDICARE EXPENSE	6,739	.00	6,739.00	5,843.25	.00	895.75	86.7%
1060022 5202 GROUP HEALTH INSURANC	94,765	.00	94,765.00	65,296.80	.00	29,468.20	68.9%

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 9  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1060022 5203 PENSION (401) UAJA CO	24,786	.00	24,786.00	21,259.71	.00	3,526.29	85.8%
1060022 5304 OPERATIONAL SUPPLIES	5,500	.00	5,500.00	3,565.87	.00	1,934.13	64.8%
1060022 5305 SMALL EQUIPMT/TOOL PU	18,000	.00	18,000.00	13,566.38	.00	4,433.62	75.4%
1060022 5501 EQUIPMENT MAINTENANCE	175,000	.00	175,000.00	159,318.98	.00	15,681.02	91.0%
1060022 5501 6174 SCADIA MAINT	25,000	.00	25,000.00	5,142.00	.00	19,858.00	20.6%
1060022 5501 6175 UV MAINT	30,000	.00	30,000.00	6,774.47	.00	23,225.53	22.6%
1060022 5503 BUILDING & GROUND MAI	35,000	.00	35,000.00	39,849.76	.00	-4,849.76	113.9%*
1060022 5508 GRIT REMOVAL-PLANT	18,000	.00	18,000.00	26,279.49	.00	-8,279.49	146.0%*
1060022 5603 FUEL, OIL, LUBRICANTS	15,000	.00	15,000.00	1,012.39	.00	13,987.61	6.7%
1060022 7511 LANDSCAPE	35,000	.00	35,000.00	35,242.30	.00	-242.30	100.7%*
TOTAL TREATMENT PLANT MAINTENA	976,359	.00	976,359.00	809,352.33	.00	167,006.67	82.9%
1060023 MAIN STATION							
1060023 5001 B5001 SUPERVISOR LABOR	0	.00	.00	102.45	.00	-102.45	100.0%*
1060023 5002 B5001 REGULAR LABOR	0	.00	.00	22,051.23	.00	-22,051.23	100.0%*
1060023 5003 B5001 OVERTIME LABOR	0	.00	.00	229.72	.00	-229.72	100.0%*
1060023 5101 B5001 FICA EXPENSE	0	.00	.00	1,381.47	.00	-1,381.47	100.0%*
1060023 5102 B5001 MEDICARE EXPENSE	0	.00	.00	322.99	.00	-322.99	100.0%*
1060023 5202 B5001 GROUP HEALTH INS	0	.00	.00	3,101.81	.00	-3,101.81	100.0%*
1060023 5203 B5001 PENSION (401) UA	0	.00	.00	1,075.71	.00	-1,075.71	100.0%*
1060023 5505 B5001 PUMP STATION MAI	5,000	.00	5,000.00	7,230.39	.00	-2,230.39	144.6%*
1060023 5602 B5001 O&M MAIN STATION	32,000	.00	32,000.00	35,026.92	.00	-3,026.92	109.5%*
TOTAL MAIN STATION	37,000	.00	37,000.00	70,522.69	.00	-33,522.69	190.6%
1060025 WWTP - IPP							
1060025 5001 SUPERVISOR LABOR	75,153	.00	75,153.00	62,623.44	.00	12,529.56	83.3%
1060025 5006 VACATION	0	.00	.00	1,925.14	.00	-1,925.14	100.0%*
1060025 5007 SICK	0	.00	.00	1,456.36	.00	-1,456.36	100.0%*
1060025 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	136.37	.00	-136.37	100.0%*
1060025 5010 HOLIDAY	0	.00	.00	855.22	.00	-855.22	100.0%*
1060025 5101 FICA EXPENSE	4,659	.00	4,659.00	4,153.71	.00	505.29	89.2%
1060025 5102 MEDICARE EXPENSE	1,090	.00	1,090.00	971.41	.00	118.59	89.1%
1060025 5202 GROUP HEALTH INSURANC	15,964	.00	15,964.00	9,833.50	.00	6,130.50	61.6%
1060025 5203 PENSION (401) UAJA CO	7,515	.00	7,515.00	6,699.84	.00	815.16	89.2%
1060025 5305 SMALL EQUIPMT/TOOL PU	250	.00	250.00	.00	.00	250.00	.0%
1060025 5410 ANALYSIS	1,800	.00	1,800.00	500.00	.00	1,300.00	27.8%

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 10  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1060025 5501 EQUIPMENT MAINTENANCE	1,000	.00	1,000.00	.00	.00	1,000.00	.0%
TOTAL WWTP - IPP	107,431	.00	107,431.00	89,154.99	.00	18,276.01	83.0%
1060028 WWTP - BENEFICIAL REUSE							
1060028 5001 SUPERVISOR LABOR	35,686	.00	35,686.00	25,498.78	.00	10,187.22	71.5%
1060028 5006 VACATION	0	.00	.00	1,925.14	.00	-1,925.14	100.0%*
1060028 5007 SICK	0	.00	.00	1,456.36	.00	-1,456.36	100.0%*
1060028 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	136.37	.00	-136.37	100.0%*
1060028 5010 HOLIDAY	0	.00	.00	855.22	.00	-855.22	100.0%*
1060028 5101 FICA EXPENSE	2,213	.00	2,213.00	1,851.97	.00	361.03	83.7%
1060028 5102 MEDICARE EXPENSE	517	.00	517.00	433.12	.00	83.88	83.8%
1060028 5202 GROUP HEALTH INSURANC	6,631	.00	6,631.00	4,486.56	.00	2,144.44	67.7%
1060028 5203 PENSION (401) UAJA CO	3,569	.00	3,569.00	2,987.28	.00	581.72	83.7%
1060028 5304 OPERATIONAL SUPPLIES	8,000	.00	8,000.00	4,322.92	.00	3,677.08	54.0%
1060028 5304 1065 OPERATIONAL SUPPL	280,000	.00	280,000.00	277,849.88	.00	2,150.12	99.2%
1060028 5305 SMALL EQUIPMT/TOOL PU	2,000	.00	2,000.00	.00	.00	2,000.00	.0%
1060028 5410 LAB ANALYSIS	18,000	.00	18,000.00	23,735.42	.00	-5,735.42	131.9%*
1060028 5501 EQUIPMENT MAINTENANCE	75,000	.00	75,000.00	34,809.02	.00	40,190.98	46.4%
1060028 5602 1064 POWER	169,139	.00	169,139.00	140,475.02	.00	28,663.98	83.1%
1060028 5605 CTWA REIMBURSE	70,500	.00	70,500.00	62,605.37	.00	7,894.63	88.8%
TOTAL WWTP - BENEFICIAL REUSE	671,255	.00	671,255.00	583,428.43	.00	87,826.57	86.9%
1060029 WWTP - DEWATERING							
1060029 5001 SUPERVISOR LABOR	34,985	.00	34,985.00	25,493.97	.00	9,491.03	72.9%
1060029 5002 REGULAR LABOR	120,487	.00	120,487.00	80,285.79	.00	40,201.21	66.6%
1060029 5003 OVERTIME LABOR	3,000	.00	3,000.00	1,314.25	.00	1,685.75	43.8%
1060029 5006 VACATION	0	.00	.00	11,255.11	.00	-11,255.11	100.0%*
1060029 5007 SICK	0	.00	.00	10,744.67	.00	-10,744.67	100.0%*
1060029 5008 PERSONAL	0	.00	.00	1,516.29	.00	-1,516.29	100.0%*
1060029 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	830.06	.00	-830.06	100.0%*
1060029 5010 HOLIDAY	0	.00	.00	5,012.61	.00	-5,012.61	100.0%*
1060029 5101 FICA EXPENSE	9,825	.00	9,825.00	8,898.40	.00	926.60	90.6%
1060029 5102 MEDICARE EXPENSE	2,298	.00	2,298.00	2,081.13	.00	216.87	90.6%
1060029 5202 GROUP HEALTH INSURANC	26,101	.00	26,101.00	25,602.70	.00	498.30	98.1%
1060029 5203 PENSION (401) UAJA CO	9,522	.00	9,522.00	8,554.75	.00	967.25	89.8%
1060029 5304 OPERATIONAL SUPPLIES	500	.00	500.00	283.06	.00	216.94	56.6%

12/10/2018 15:32  
kwheeler

UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 11  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1060029 5304 1036 POLYMER	50,000	.00	50,000.00	52,800.00	.00	-2,800.00	105.6%*
1060029 5305 SMALL EQUIPMT/TOOL PU	0	.00	.00	103.97	.00	-103.97	100.0%*
1060029 5501 EQUIPMENT MAINTENANCE	50,000	.00	50,000.00	41,022.95	.00	8,977.05	82.0%
1060029 5602 1042 POWER-DEWATERING	76,881	.00	76,881.00	63,852.32	.00	13,028.68	83.1%
TOTAL WWTP - DEWATERING	383,599	.00	383,599.00	339,652.03	.00	43,946.97	88.5%
1060030 WWTP - COMPOST							
1060030 5001 SUPERVISOR LABOR	34,985	.00	34,985.00	25,493.97	.00	9,491.03	72.9%
1060030 5002 REGULAR LABOR	242,531	.00	242,531.00	195,173.03	.00	47,357.97	80.5%
1060030 5003 OVERTIME LABOR	23,000	.00	23,000.00	11,853.82	.00	11,146.18	51.5%
1060030 5006 VACATION	0	.00	.00	19,062.93	.00	-19,062.93	100.0%*
1060030 5007 SICK	0	.00	.00	5,364.30	.00	-5,364.30	100.0%*
1060030 5008 PERSONAL	0	.00	.00	3,228.83	.00	-3,228.83	100.0%*
1060030 5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	1,106.54	.00	-1,106.54	100.0%*
1060030 5010 HOLIDAY	0	.00	.00	9,324.03	.00	-9,324.03	100.0%*
1060030 5101 FICA EXPENSE	18,632	.00	18,632.00	16,777.57	.00	1,854.43	90.0%
1060030 5102 MEDICARE EXPENSE	4,358	.00	4,358.00	3,923.82	.00	434.18	90.0%
1060030 5202 GROUP HEALTH INSURANC	76,101	.00	76,101.00	56,200.57	.00	19,900.43	73.8%
1060030 5203 PENSION (401) UAJA CO	15,625	.00	15,625.00	11,477.97	.00	4,147.03	73.5%
1060030 5304 OPERATIONAL SUPPLIES	1,000	.00	1,000.00	517.95	.00	482.05	51.8%
1060030 5304 1038 COMPOST AMENDMEN	80,000	.00	80,000.00	82,900.00	.00	-2,900.00	103.6%*
1060030 5305 SMALL EQUIPMT/TOOL PU	2,500	.00	2,500.00	1,400.02	.00	1,099.98	56.0%
1060030 5409 LICENSE & FEES	5,500	.00	5,500.00	1,623.84	.00	3,876.16	29.5%
1060030 5410 LAB ANALYSIS	11,500	.00	11,500.00	8,090.00	.00	3,410.00	70.3%
1060030 5413 MARKETING	1,000	.00	1,000.00	.00	.00	1,000.00	.0%
1060030 5415 VECTOR CONTROL	5,300	.00	5,300.00	5,289.66	.00	10.34	99.8%
1060030 5501 EQUIPMENT MAINTENANCE	50,000	.00	50,000.00	69,835.54	.00	-19,835.54	139.7%*
1060030 5506 1032 SKID STEER 1845-C	2,500	.00	2,500.00	3,033.76	.00	-533.76	121.4%*
1060030 5506 1033 FRONT END LOADER	18,000	.00	18,000.00	11,054.48	.00	6,945.52	61.4%
1060030 5506 1055 STREET SWEEPER-CO	3,500	.00	3,500.00	4,247.49	.00	-747.49	121.4%*
1060030 5506 1062 CAT SKID STEER MA	5,000	.00	5,000.00	5,861.71	.00	-861.71	117.2%*
1060030 5506 1071 LOADER MAINT 621	18,000	.00	18,000.00	13,326.62	.00	4,673.38	74.0%
1060030 5506 1072 TROMMEL	7,000	.00	7,000.00	2,225.66	.00	4,774.34	31.8%
1060030 5602 1041 POWER-COMPOST	138,384	.00	138,384.00	114,934.14	.00	23,449.86	83.1%
1060030 5603 1007 NATURAL GAS - COM	100,000	.00	100,000.00	81,311.96	.00	18,688.04	81.3%
TOTAL WWTP - COMPOST	864,416	.00	864,416.00	764,640.21	.00	99,775.79	88.5%
1060032 TREATMENT PLANT OPERATION							
1060032 5001 SUPERVISOR LABOR	34,985	.00	34,985.00	38,347.22	.00	-3,362.22	109.6%*



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UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 12  
glytdbud

FOR 2018 11

ACCOUNTS 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1060032	5002 REGULAR LABOR	629,629	.00	629,629.00	477,179.00	.00	152,450.00	75.8%
1060032	5003 OVERTIME LABOR	60,000	.00	60,000.00	65,472.96	.00	-5,472.96	109.1%*
1060032	5004 SHIFT LABOR	12,000	.00	12,000.00	11,641.30	.00	358.70	97.0%
1060032	5006 VACATION	0	.00	.00	43,849.92	.00	-43,849.92	100.0%*
1060032	5007 SICK	0	.00	.00	28,760.29	.00	-28,760.29	100.0%*
1060032	5008 PERSONAL DAY	0	.00	.00	8,529.38	.00	-8,529.38	100.0%*
1060032	5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	2,765.32	.00	-2,765.32	100.0%*
1060032	5010 HOLIDAY	0	.00	.00	24,610.36	.00	-24,610.36	100.0%*
1060032	5101 FICA EXPENSE	44,926	.00	44,926.00	43,597.34	.00	1,328.66	97.0%
1060032	5102 MEDICARE EXPENSE	10,507	.00	10,507.00	10,196.22	.00	310.78	97.0%
1060032	5202 GROUP HEALTH INSURANC	170,164	.00	170,164.00	128,775.41	.00	41,388.59	75.7%
1060032	5203 PENSION (401) UAJA CO	34,979	.00	34,979.00	29,312.70	.00	5,666.30	83.8%
1060032	5304 OPERATION SUPPLIES	500	.00	500.00	-123.96	.00	623.96	-24.8%
1060032	5304 1034 ALUM	160,000	.00	160,000.00	122,890.50	.00	37,109.50	76.8%
1060032	5304 1070 CARBON SUPPLEMENT	360,000	.00	360,000.00	284,087.51	.00	75,912.49	78.9%
1060032	5405 1053 STREAM MONITORING	14,250	.00	14,250.00	14,250.00	.00	.00	100.0%
1060032	5409 LICENSE & FEES	9,000	.00	9,000.00	4,470.00	.00	4,530.00	49.7%
1060032	5410 ANALYSIS	9,600	.00	9,600.00	9,491.00	.00	109.00	98.9%
1060032	5499 MISCELLANEOUS OUTSIDE	25,000	.00	25,000.00	33,591.23	.00	-8,591.23	134.4%*
1060032	5602 1043 POWER-PLANT	384,400	.00	384,400.00	319,261.54	.00	65,138.46	83.1%
TOTAL TREATMENT PLANT OPERATIO		1,959,940	.00	1,959,940.00	1,700,955.24	.00	258,984.76	86.8%

1070021 COLLECTION-MAINTENANCE

1070021	5001 SUPERVISOR LABOR	88,303	.00	88,303.00	71,019.34	.00	17,283.66	80.4%
1070021	5002 REGULAR LABOR	711,841	.00	711,841.00	425,477.87	.00	286,363.13	59.8%
1070021	5002 6172 REGULAR LABOR	0	.00	.00	71,392.41	.00	-71,392.41	100.0%*
1070021	5002 6245 REGULAR LABOR	0	.00	.00	3,132.27	.00	-3,132.27	100.0%*
1070021	5002 6256 REGULAR LABOR	0	.00	.00	13,813.60	.00	-13,813.60	100.0%*
1070021	5002 6269 REGULAR LABOR	0	.00	.00	7,676.04	.00	-7,676.04	100.0%*
1070021	5002 B5001 REGULAR LABOR	0	.00	.00	58.53	.00	-58.53	100.0%*
1070021	5002 B5002 REGULAR LABOR	0	.00	.00	7,144.17	.00	-7,144.17	100.0%*
1070021	5002 B5003 REGULAR LABOR	0	.00	.00	7,144.16	.00	-7,144.16	100.0%*
1070021	5002 B5004 REGULAR LABOR	0	.00	.00	7,144.16	.00	-7,144.16	100.0%*
1070021	5002 B5446 REGULAR LABOR	0	.00	.00	1,501.28	.00	-1,501.28	100.0%*
1070021	5002 B5451 SCIENCE PK PLAZA	0	.00	.00	1,140.99	.00	-1,140.99	100.0%*
1070021	5002 B5452 VILL OF PSU LATE	0	.00	.00	3,763.75	.00	-3,763.75	100.0%*
1070021	5002 B5454 REGULAR LABOR	0	.00	.00	1,225.00	.00	-1,225.00	100.0%*
1070021	5002 B5455 REGULAR LABOR	0	.00	.00	2,189.87	.00	-2,189.87	100.0%*
1070021	5002 B5456 GIANT STORE HILL	0	.00	.00	2,339.36	.00	-2,339.36	100.0%*
1070021	5003 OVERTIME LABOR	15,000	.00	15,000.00	18,402.08	.00	-3,402.08	122.7%*

12/10/2018 15:32  
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UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 13  
glytdbud

FOR 2018 11

ACCOUNTS 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1070021	5003 6172 OVERTIME LABOR	0	.00	.00	127.49	.00	-127.49	100.0%*
1070021	5006 VACATION	0	.00	.00	53,542.03	.00	-53,542.03	100.0%*
1070021	5007 SICK	0	.00	.00	27,616.74	.00	-27,616.74	100.0%*
1070021	5008 PERSONAL	0	.00	.00	11,177.31	.00	-11,177.31	100.0%*
1070021	5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	1,326.63	.00	-1,326.63	100.0%*
1070021	5010 HOLIDAY	0	.00	.00	31,069.99	.00	-31,069.99	100.0%*
1070021	5101 FICA EXPENSE	50,539	.00	50,539.00	44,024.76	.00	6,514.24	87.1%
1070021	5101 6172 FICA EXPENSE	0	.00	.00	4,434.19	.00	-4,434.19	100.0%*
1070021	5101 B5001 FICA-O & M MAIN	0	.00	.00	3.63	.00	-3.63	100.0%*
1070021	5102 MEDICARE EXPENSE	11,820	.00	11,820.00	10,296.05	.00	1,523.95	87.1%
1070021	5102 6172 MEDICARE EXPENSE	0	.00	.00	1,036.89	.00	-1,036.89	100.0%*
1070021	5102 B5001 MEDICARE-O & M M	0	.00	.00	.85	.00	-.85	100.0%*
1070021	5202 GROUP HEALTH INSURANC	193,038	.00	193,038.00	136,621.29	.00	56,416.71	70.8%
1070021	5202 6172 GROUP HEALTH INSU	0	.00	.00	16,971.35	.00	-16,971.35	100.0%*
1070021	5202 B5001 GRP HEALTH INSUR	0	.00	.00	9.60	.00	-9.60	100.0%*
1070021	5203 PENSION (401) UAJA CO	44,422	.00	44,422.00	37,038.92	.00	7,383.08	83.4%
1070021	5203 6172 PENSION (401) UAJ	0	.00	.00	3,199.67	.00	-3,199.67	100.0%*
1070021	5203 B5001 PENSION-O&M MAIN	0	.00	.00	2.93	.00	-2.93	100.0%*
1070021	5305 SMALL EQUIPMT/TOOL PU	9,500	.00	9,500.00	6,826.23	.00	2,673.77	71.9%
1070021	5504 SEWER LINE MAINTENANC	100,000	.00	100,000.00	160,825.33	.00	-60,825.33	160.8%*
1070021	ER01 RENTAL OF EQUIPMENT	1,000	.00	1,000.00	418.50	.00	581.50	41.9%
1070021	ER14 RENTAL LOWBOY	1,500	.00	1,500.00	833.75	.00	666.25	55.6%
1070021	PV01 TRENCH PAVING-CONTR 2	40,000	.00	40,000.00	27,426.51	.00	12,573.49	68.6%
TOTAL COLLECTION-MAINTENANCE		1,266,963	.00	1,266,963.00	1,219,395.52	.00	47,567.48	96.2%
1070022 CONSTRUCT EQUIP MAINTENANCE								
1070022	5501 SMALL EQUIPMENT MAINT	5,000	.00	5,000.00	1,085.81	.00	3,914.19	21.7%
1070022	5506 LG. CONSTRC. EQUIP MA	30,000	.00	30,000.00	10,710.43	.00	19,289.57	35.7%
TOTAL CONSTRUCT EQUIP MAINTENA		35,000	.00	35,000.00	11,796.24	.00	23,203.76	33.7%
1070034 COLLECTION-INSPECTION								
1070034	5001 SUPERVISOR LABOR	88,303	.00	88,303.00	71,019.48	.00	17,283.52	80.4%
1070034	5002 REGULAR LABOR	193,436	.00	193,436.00	133,049.45	.00	60,386.55	68.8%
1070034	5002 B5387 CANTERBURY CROSS	0	.00	.00	791.25	.00	-791.25	100.0%*
1070034	5002 B5431 REGULAR LABOR	0	.00	.00	1,171.19	.00	-1,171.19	100.0%*
1070034	5002 B5436 REGULAR LABOR	0	.00	.00	855.70	.00	-855.70	100.0%*

12/10/2018 15:32  
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UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 14  
glytdbud

FOR 2018 11

ACCOUNTS 10	FOR: OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1070034	5002 B5437 REGULAR LABOR	0	.00	.00	1,529.70	.00	-1,529.70	100.0%*
1070034	5002 B5441 THE STATION	0	.00	.00	5,885.61	.00	-5,885.61	100.0%*
1070034	5002 B5442 THE GATES PH 4	0	.00	.00	1,054.33	.00	-1,054.33	100.0%*
1070034	5002 B5445 REGULAR LABOR	0	.00	.00	1,525.11	.00	-1,525.11	100.0%*
1070034	5002 B5447 REGULAR LABOR	0	.00	.00	1,924.53	.00	-1,924.53	100.0%*
1070034	5002 B5448 REGULAR LABOR	0	.00	.00	3,157.82	.00	-3,157.82	100.0%*
1070034	5003 OVERTIME LABOR	10,000	.00	10,000.00	10,454.45	.00	-454.45	104.5%*
1070034	5006 VACATION	0	.00	.00	14,381.70	.00	-14,381.70	100.0%*
1070034	5007 SICK	0	.00	.00	4,245.41	.00	-4,245.41	100.0%*
1070034	5008 PERSONAL	0	.00	.00	2,060.08	.00	-2,060.08	100.0%*
1070034	5009 JURY/CIVIL/VOLUNTEER/	0	.00	.00	2,385.15	.00	-2,385.15	100.0%*
1070034	5010 HOLIDAY	0	.00	.00	8,296.24	.00	-8,296.24	100.0%*
1070034	5101 FICA EXPENSE	18,088	.00	18,088.00	16,404.49	.00	1,683.51	90.7%
1070034	5102 MEDICARE EXPENSE	4,230	.00	4,230.00	3,836.43	.00	393.57	90.7%
1070034	5202 GROUP HEALTH INSURANC	46,940	.00	46,940.00	30,412.34	.00	16,527.66	64.8%
1070034	5203 PENSION (401) UAJA CO	18,502	.00	18,502.00	16,432.33	.00	2,069.67	88.8%
1070034	5304 OPERATIONAL SUPPLIES	1,500	.00	1,500.00	694.09	.00	805.91	46.3%
1070034	5305 SMALL EQUIPMT/TOOL PU	500	.00	500.00	64.38	.00	435.62	12.9%
1070034	5507 SEWER LINE INSPEC/CON	0	.00	.00	3,228.32	.00	-3,228.32	100.0%*
1070034	5507 B5026 GRAYSWOODS	0	.00	.00	1,513.60	.00	-1,513.60	100.0%*
1070034	5507 B5370 PINE HALL TTD	0	.00	.00	393.30	.00	-393.30	100.0%*
1070034	5507 B5374 THE GATES	0	.00	.00	594.22	.00	-594.22	100.0%*
1070034	5507 B5387 CANTERBURY CROSS	0	.00	.00	499.22	.00	-499.22	100.0%*
1070034	5507 B5422 INSPECTION ENGIN	0	.00	.00	709.42	.00	-709.42	100.0%*
1070034	5507 B5431 INSPECTION ENGIN	0	.00	.00	1,074.91	.00	-1,074.91	100.0%*
1070034	5507 B5435 INSPECTION ENGIN	0	.00	.00	793.12	.00	-793.12	100.0%*
1070034	5507 B5436 INSPECTION ENGIN	0	.00	.00	1,281.90	.00	-1,281.90	100.0%*
1070034	5507 B5437 INSPECTION ENGIN	0	.00	.00	1,160.50	.00	-1,160.50	100.0%*
1070034	5507 B5441 INSPECTION ENGIN	0	.00	.00	3,223.42	.00	-3,223.42	100.0%*
1070034	5507 B5444 INSPECTION ENGIN	0	.00	.00	645.90	.00	-645.90	100.0%*
1070034	5507 B5447 INSPECTION ENGIN	0	.00	.00	1,789.51	.00	-1,789.51	100.0%*
1070034	5507 B5448 INSPECTION ENGIN	0	.00	.00	7,866.28	.00	-7,866.28	100.0%*
1070034	5507 B5449 INSPECTION ENGIN	0	.00	.00	700.61	.00	-700.61	100.0%*
1070034	5507 B5450 INSPECTION ENGIN	0	.00	.00	15,794.77	.00	-15,794.77	100.0%*
1070034	5507 B5453 CENTRE CARE INC.	0	.00	.00	1,508.82	.00	-1,508.82	100.0%*
1070034	5507 B5457 GRACE HILLS CHUR	0	.00	.00	2,103.02	.00	-2,103.02	100.0%*
1070034	5507 B5458 OAKRIDGE AVE LOT	0	.00	.00	1,338.60	.00	-1,338.60	100.0%*
TOTAL COLLECTION-INSPECTION		381,499	.00	381,499.00	377,850.70	.00	3,648.30	99.0%
1070036 COLLECTION-PUMP STATION								
1070036	5304 OPERATIONAL SUPPLIES	0	.00	.00	19.99	.00	-19.99	100.0%*

12/10/2018 15:32  
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UNIVERSITY AREA JOINT AUTHORITY - LIVE  
YTD BUDGET REPORT

P 15  
glytdbud

FOR 2018 11

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1070036 5305 SMALL EQUIPMT/TOOL PU	1,000	.00	1,000.00	367.40	.00	632.60	36.7%
1070036 5501 EQUIPMENT MAINTENANCE	12,000	.00	12,000.00	7,278.67	.00	4,721.33	60.7%
1070036 5505 O & M PUMP STATIONS	70,000	.00	70,000.00	39,345.78	.00	30,654.22	56.2%
1070036 5505 B5002 O & M CLASTER'S	500	.00	500.00	.00	.00	500.00	.0%
1070036 5505 B5003 O & M NORTH METE	100	.00	100.00	31.82	.00	68.18	31.8%
1070036 5505 B5004 O & M SOUTH METE	100	.00	100.00	.00	.00	100.00	.0%
1070036 5602 POWER	42,700	.00	42,700.00	37,767.75	.00	4,932.25	88.4%
1070036 5602 B5002 POWER-CLASTERS	500	.00	500.00	269.14	.00	230.86	53.8%
1070036 5602 B5004 POWER-SOUTH METE	100	.00	100.00	142.11	.00	-42.11	142.1%*
1070036 5603 FUEL, OIL, LUBRICANTS	6,000	.00	6,000.00	811.72	.00	5,188.28	13.5%
TOTAL COLLECTION-PUMP STATION	133,000	.00	133,000.00	86,034.38	.00	46,965.62	64.7%
TOTAL OPERATING FUND	19,047,560	.00	19,047,560.00	4,808,680.10	.00	14,238,879.90	25.2%
TOTAL REVENUES	-15,948,149	.00	-15,948,149.00	-15,045,071.85	.00	-903,077.15	
TOTAL EXPENSES	34,995,709	.00	34,995,709.00	19,853,751.95	.00	15,141,957.05	



UNIVERSITY AREA JOINT AUTHORITY

To: UAJA Board

From: Dave Smith

Re: Financial Report - End of November 30, 2018

**Cash Accounts**

General Checking	\$257,048.99
Payroll Checking	\$7,179.19
PLIGIT Checking	\$1,480.45
Petty Cash	\$148.34

**Revenue Fund Accounts**

Revenue Sweep	\$17,796.99
Revenue Trustee	\$246,645.01

**Savings Accounts**

PLIGIT Plus	\$8,213.35
93 BRIF	\$8,718,941.11
Emmaus BRIF	\$216,445.54

***TOTAL LIQUID ASSETS***

**\$9,484,122.67**

**Dedicated Accounts**

PLIGIT Emmaus	\$7,013.13
2012 DSF	\$1,669.70
2015 DSF	\$113.74
2016 DSF	\$18.34
2017 DSF	\$93.76
2017A DSF	\$314.34
2017 B & C DSF	\$1,206.31
2018 DSF	\$90.33
2017 Construction Fund	\$5,018,472.13
2018 Construction Fund	\$13,676,009.64

***TOTAL DEDICATED ASSETS***

**\$18,705,001.42**

**Restricted Accounts**

93 Oper. Expense Reserve	\$302,439.43
93 Debt Service Reserve	\$6,633,831.07

**\$6,936,270.50**

**Receivables Outstanding (2nd quarter 2018)**

UAJA Sewer	\$183,861.10
UAJA Surcharge	\$832.00
Borough Sewer	\$0.00
PGM Sewer	\$9,758.66
PSU Sewer	\$0.00

***TOTAL OUTSTANDING***

**Page 27 of 67**



**COMPOST & SEPTAGE OPERATIONS REPORT**  
**November, 2018**  
**Jason D. Brown, Project Manager**

**COMPOST PRODUCTION AND DISTRIBUTION**

	<u><b>Jun. 2018</b></u>	<u><b>Jul. 2018</b></u>	<u><b>Aug. 2018</b></u>	<u><b>Sep. 2018</b></u>	<u><b>Oct. 2018</b></u>	<u><b>Nov. 2018</b></u>
<b>Production</b>	860 cu/yds.	870 cu/yds.	875 cu/yds.	775 cu/yds.	870 cu/yds.	851 cu/yds.
<b>YTD. Production</b>	5,408 cu/yds.	6,278 cu/yds.	7,153 cu/yds.	7,928 cu/yds.	8,798 cu/yds.	9,649 cu/yds.
<b>Distribution</b>	939 cu/yds.	505 cu/yds.	968 cu/yds.	740 cu/yds.	2,006 cu/yds.	517 cu/yds.
<b>YTD. Distribution</b>	6,709 cu/yds.	7,214 cu/yds.	8,182 cu/yds.	8,922 cu/yds.	10,928 cu/yds.	11,445 cu/yds.
<b>Immediate Sale</b>	1,907 cu/yds.	2,309 cu/yds.	2,181 cu/yds.	2,318 cu/yds.	1,183 cu/yds.	1,611 cu/yds.
<b>Currently in Storage</b>	2,767 cu/yds.	3,179 cu/yds.	3,056 cu/yds.	3,093 cu/yds.	2,053 cu/yds.	2,462 cu/yds.

**SEPTAGE OPERATIONS**

	<u><b>Jun. 2018</b></u>	<u><b>Jul. 2018</b></u>	<u><b>Aug. 2018</b></u>	<u><b>Sep. 2018</b></u>	<u><b>Oct. 2018</b></u>	<u><b>Nov. 2018</b></u>
<b>Res./Comm.</b>	37,800 gals.	21,600 gals.	37,900 gals.	94,000 gals.	64,650 gals.	15,955 gals.
<b>CH/Potter</b>	8,239.92 lbs/solids	4,119.96 lbs/solids	7,038.56 lbs/solids	1,680.51 lbs/solids	5,963.10 lbs/solids	5,475.21 lbs/solids
<b>Port Matilda</b>	1,467.84 lbs/solids	2,101.68 lbs/solids	1,134.24 lbs/solids	2,101.68 lbs/solids	1,267.68 lbs/solids	1,601.28 lbs/solids
<b>Huston Twp.</b>	567.12 lbs/solids	533.76 lbs/solids	617.16 lbs/solids	316.92 lbs/solids	567.12 lbs/solids	683.88 lbs/solids
<b>Total Flow</b>	111,800 gals.	78,100 gals.	96,900 gals.	127,000 gals.	121,650 gals.	76,955 gals.

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



## SUPERINTENDENT'S REPORT

December 11, 2018

Arthur G. Brant

### PLANT OPERATION

The treatment plant is operating well with no exceptions to our NPDES permits for the month of November 2018. The 12-month rolling average flow for November was 5.04mgd with the average for the month being 5.63mgd. The average monthly **influent** flow was 6.60mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Nov-18	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	19,000	321,000		
Centre Hills	480,000	22,294,000	Nov-18	Nov-18
Cintas	635,000	6,986,000	61.0	57.6
Red Line	277,000	3,843,000		
Uaja Wetland	4,145,000	53,604,000		
GDK Vault	13,123,000	177,771,000		
Kissingers	1,412,000	15,725,000		
Stewarts/M.C.	1000	11,449		
<b>TOTAL</b>	<b>18,630,000</b>	<b>280,555,449</b>		

### PLANT MAINTENANCE

- Replaced Headworks Screening spray nozzles.
- Changed oil in Primary air compressors.
- Plant and Main Station generators were serviced.
- Rebuilt Headworks Indeeco heater.
- Rebuilt several MAC boxes for the primary pumps.
- Replaced diaphragm on #9 Primary pump.
- Serviced Secondary clarifiers and replaced skimmer arm scrappers.
- Greased and tightened belts on Bio-fans at Compost.
- Replaced a paddle on #1 agitator in Compost.
- Worked on snow removal.
- Replaced #120 chain on Knight mixer.





**COLLECTION SYSTEM SUPERINTENDENT'S REPORT**  
**Activities for the month of November 2018**  
**Mark Harter, Superintendent**

**MAINLINE MAINTENANCE:**

Mainline Televising – (2,052.7' televised) – (16) manholes inspected.  
Mainline Cleaning – (7,011 ft cleaned) – (40) manholes inspected.  
Casting Repairs – (2).  
Received training on Tv Rigg with Camera upgrade.  
Assisted with brush grinding.

**LIFT STATION MAINTENANCE:**

Cleaned (3) lift station wet wells.  
Serviced all pump station generators.  
Routine maintenance.  
Sent a 100 series KSB pump from Big Hollow station out for repair.  
Replaced under current monitor at Ghaner station.  
Replaced pump impellers and valutes at Ghaner station.  
Repaired (1) E-One pump core.

**NEXT MONTH PROJECTS:**

Flushing and televising of mainlines in service area.  
Cleaning Wet Wells.  
Televis Big Hollow Interceptor.  
Equipment maintenance.

**INSPECTION:** Final As-Builts Approved: None

**Mainline Construction:**

- a. N. Atherton Street Project (Penn Dot) – (95%) Complete.
- b. Kaywood North – Started Construction – (90%) Complete.
- c. Helix Subdivision – Started Construction – (85%) Complete.
- d. Winfield Heights – Complete awaiting as- builds.
- e. Canterbury Crossing phase 4&5 – Complete awaiting as-builts.

**New Connections:**

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

**TOTAL      2**

PA One-Calls Responded to 11/1-30/18: 248

December 19, 2018

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.

**Retainer (1178.0001)**

- Attended the November meeting of Public Services & Environmental Committee to hear discussions regarding the CRPA Draft Scope of the Centre Region Act 537 Plan Update.
- Collaborated with the UAJA pursuant to maintenance activities in the Compost Building. Form 43 approval was granted from the PA DEP.

**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	106	214	9/4/2019	67%	33%
17-04	9/4/2018	320	7/21/2019	106	214	9/4/2019	67%	33%

\*As of date of board meeting.

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	2	\$58,500.00	\$8,358,000.00	\$245,000.00	2.9	\$8,137,500.00
17-04	2	\$123,210.00	\$587,890.00	\$144,071.32	24.5	\$458,225.81

- Shop drawings are being processed and reviewed.
- Cast-in-place design was approved as corrected.

- Progress Meeting No. 3 was held on December 5, 2018. Minutes are attached.
- The existing biofilter was removed from service. Both contractors have mobilized and work is progressing.

#### **Greenbriar Sanitary Sewer Design**

- The Sewage Facilities Application Mailer (request for exemption) and an Application for NPDES Permit for Stormwater Discharges Associated with Construction Activities were submitted.
- The Ferguson Township Pave-Cut and Road Occupancy Permit was issued with conditions.
- A Permit Application for Municipal Tree Work was submitted to Ferguson Township.
- The PA DEP has determined that a Water Quality Management Permit is required for the project. HRG is preparing the application package.
- Easements and grinder pump agreements are being coordinated with the Authority's solicitor.
- A detailed quantity take-off (material list) has been developed.

#### **Extension of Beneficial Reuse Water to Harris Township (1178.0637)**

- Easement exhibits are being finalized for use by the Authority's solicitor.
- Environmental permit applications have been submitted. Comments issued for the NPDES Permit Application were addressed and a response was provided.
- Coordination with Mountain View is ongoing to acquire a letter of support for the riparian forest buffer plan.
- Coordination with Harris Township is ongoing regarding the removal of buffer trees along Spring Creek. Harris Township has requested a formal plan to replace all of the trees that are removed.
- A detailed quantity take-off is being developed.

#### **Developer Plan Reviews:**

- Three (3) Developer Plan submissions have been active since the last report.
- The developer's engineer has made no submissions for the Pine Hall Traditional Town Development following the meeting with Staff on October 9, 2018 (1178.0652).
- Revised design plans for Gray's Woods Planned Community Phase 6, Section A were reviewed and were recommended to Staff for Approval on November 30, 2018 (1178.0650).
- The As-Built Plans for Canterbury Crossing Phases IV-V, Lot 33 Phase 2 were returned to the Developer for additional corrections on December 11, 2018 (1178.0654).

- Shop drawings continue to be processed and reviewed for The Cottages by Toll Brothers (1178.0567).

Very truly yours,

**Herbert, Rowland & Grubic, Inc.**



Benjamin R. Burns  
Water and Wastewater

BRB//dlp  
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## PROGRESS MEETING MINUTES

Project: Biological Odor Control  
Contracts No. 17-03 and Contract No. 17-04  
Owner: University Area Joint Authority (UAJA)  
Re: Progress Meeting

Report Number: 3  
HRG Project Number: R00178.0597  
Meeting Location: Site  
Meeting Date: December 5, 2018 Time: 9AM

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

### ATTENDEES:

Ben Burns - HRG  
David A. Smith - UAJA  
Jason Brown - UAJA  
Art Brant - UAJA  
Manny Criado - Howard Company (17-04)  
Perry Mason - UAJA

Andy Breon - UAJA  
Lonnie Nolen - College Township  
Mike Webb - Global Heavy Corp. (17-03)  
Jim Kachonik - Global Heavy Corp. (17-03)  
Jeff Garrigan - HRG

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	92	228	9/4/2019	72%	28%
17-04	9/4/2018	320	7/21/2019	92	228	9/4/2019	72%	28%

\*As of date of Progress Meeting.

### 1. PREVIOUS MEETING

The previous meeting was Progress Meeting No. 2 held on November 7, 2018. Meeting minutes were distributed prior to Progress Meeting No. 3 and the attendees offered no corrections or outstanding issues from that meeting.

### 2. REVIEW OF WORK PROGRESS

#### Contract No. 17-03

Mr. Kachonik summarized the work progress for Contract 17-03. The Contractor has mobilized and commenced establishment of E&S controls. Survey has been completed.

Mr. Kachonik provide a review of upcoming work, which included disassembling the exhaust fans and hauling away the mulch [existing biofilter media].

Mr. Webb further discussed the disassembling of the exhaust fans, asking if the Owner would lock out and tag out the equipment that was to be demolished. Mr. Breon responded that the Owner would.

The balancing of air and ventilation inside the composting building was discussed as the Owner had concerns that disassembling the fans could negatively affect conditions inside the building. It was discussed that the Contractor

would need to coordinate closely with the owner to ensure that damage does not occur to the building. It was discussed that the building ventilation system may need to be re-balanced to prevent damage.

Mr. Webb stated that fans 2 and 3 would be maintained on-site in the event that they were need if failure of the operating fans occurs. Mr. Breon stated that he would provide a location for the fans and convey this to the Contractor.

Mr. Webb asked about additional storage area. It was discussed and agreed that the Contractor could use the area on the opposite of the access road to the north of the site. Mr. Burns cautioned that there were buried utilities just outside of the roadway and that these utilities would need to be protected.

Mr. Kachonik asked if the UAJA had a preference for the location of the live streaming camera. This was discussed and it was concluded that the camera could be mounted from the UAJA Maintenance Building (east of the work area). Mr. Smith stated that damage to existing building or structures is not acceptable.

Mr. Webb requested as-built drawings, specifically identifying vertical depths, for the force main that traverses the project area. Mr. Breon to coordinate.

#### Contract No. 17-04

Mr. Criado explained that Contract No. 17-04 was installing feeders [conduits] in the moisture area [compost process area]. He noted that the VFD submittal was resubmitted and requested a prompt turnaround.

It was discussed that the conduit work would be completed by the end of December and then demolition would occur in January. The demolition of the soft starts was discussed and concluded that Fan No. 2 is not working and that the starters will generally need to be replaced as one-for-one. It was iterated that this work must be coordinated with the requirements of Contract 17-03 to maintain three fans throughout construction.

### **3. SCHEDULES**

The Contractor did not present an updated schedule at the meeting.

The recognized holidays of the Authority (Christmas, day after Christmas, New Year's Day) were discussed and it was stated that each Contractor must coordinate work activities around the holidays with the Owner.

### **4. FIELD OBSERVATIONS, PROBLEMS, AND DECISIONS**

Mr. Kachonik requested use of the UAJA fill storage area for temporarily storing mulch and backfill material. The Engineer and Owner advised that this request should be submitted as an RFI.

### **5. IDENTIFICATION OF PROBLEMS**

There were no problems identified.

#### **RFI – Clarifications**

Responses have been provided for all RFIs, and none are pending.

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

There were no FOs or WCDs. Although, it was stated that a field order will be issued to Contract No. 17-03 to lower the vertical wall access door and eliminate the short ladder. The returned submittal was marked-up accordingly.

## **Change Orders**

There are no Change Orders.

## **Claims**

No claims were noted by the Owner or Contractors.

## **6. SUBMITTALS**

Mr. Burns stated the submittals were being received, processed and reviewed. It was discussed that the Cast-in-Place Concrete Design was approved as corrected and that the design was sent to the Centre Region Code Agency for review.

Refer to Section 2 for Contract No. 17-04's request for prompt turn-around of the VFD submittal.

## **7. COORDINATION**

It was noted that Contract No. 17-03 is ultimately responsible for coordination of work at the site. Mr. Burns commended the Contractors for their apparent onset coordination efforts.

## **8. MAINTENANCE OF QUALITY AND WORK STANDARDS**

It was discussed that the Contractors should review quality of work standards, specifically testing requirements. It was discussed that Contract No. 17-03 will need to coordinate for the special inspection of the subbase for the concrete vessels.

## **9. APPLICATIONS FOR PAYMENT**

It was discussed that:

Contract No. 17-03 submitted Application for Payment No. 2.

Contract No. 17-04 submitted Application for Payment No. 2.

Both applications for payment were reviewed and it was requested that each contractor submit signed copies for presentation to the Owner.

## **10. CERTIFIED PAYROLL**

Mr. Burns reminded all Contracts that certified payrolls were required once work on-site has commenced. No work certifications will be required.

## **11. COMMENTS**

There were none.

## **12. NEXT MEETING:** The next meeting is scheduled for 9:00 AM, Wednesday, January 2, 2019 at UAJA Conference Room. All attendees indicated that this date and time was acceptable.



- Sign-in Sheet
- Agenda and Attachments

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Submitted by: Benjamin R. Burns



Date: 12/14/18

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Copies: ☒ Participants ☒ OWNER ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☒ File \_\_\_\_\_

**SIGN-IN SHEET**  
**PROGRESS MEETING**  
**DECEMBER 5, 2018**  
**BIOLOGICAL ODOR CONTROL PROJECT**

NAME (Please Print)	COMPANY	CONTACT INFORMATION
Ben Burns	HLG	Phone: 814 238-7117 Fax: 814 238-7126 E-Mail: bburns@hlg-inc.com
Jim Kachonik	Global Heavy Corp	Phone: 412 691-5968 Fax: - E-Mail: JKachonik@GlobalHeavyCorp.com
Mike Webb	Global Heavy Corp	Phone: 814-659-6350 Fax: - E-Mail: MWebb@GlobalHeavyCorporation.com
Manny Criado	The Howard Co.	Phone: 570-336-0537 Fax: - E-Mail: MCriado@HowardCo.com
Lennie Nolen	College Township	Phone: 814-231-3021 Fax: 814-231-3020 E-Mail: LNolen@CollegeTownship.org
Perry Mason	UAJA	Phone: 814-238-5361 Fax: - E-Mail: pmason@uaja.org
Andy Breon	UAJA	Phone: 814-238-5361 Fax: - E-Mail: abreon@uaja.org
DA SMITH	U	Phone: - Fax: - E-Mail: youknowit.ORG
Jason Brown	UAJA	Phone: - Fax: - E-Mail: jbrown@uaja.org

**SIGN-IN SHEET**  
**PROGRESS MEETING**  
**DECEMBER 5, 2018**  
**BIOLOGICAL ODOR CONTROL PROJECT**

NAME (Please Print)	COMPANY	CONTACT INFORMATION
JEFF GARRIGAN	HRG	Phone:
		Fax:
		E-Mail jgarrigan@hrg-inc.com
Art Bennett	U.A.J.A.	Phone:
		Fax:
		E-Mail
		Phone:
		Fax:
		E-Mail
		Phone:
		Fax:
		E-Mail
		Phone:
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## AGENDA PROGRESS MEETING No. 3

<b>OWNER:</b> <b>PROJECT:</b>  <b>CONTRACTS:</b>  <b>JOB No.</b>  <b>DATE:</b> <b>TIME:</b>  <b>OFFICE OF RECORD:</b> <b>PROJECT MANAGER:</b>	<b>University Area Joint Authority</b> <b>Biological Odor Control Project</b>  <b>Contract 17-03 – General Construction</b> <b>Contract 17-04 – Electrical Construction</b>  <b>R001178.0597</b>  <b>December 5, 2018</b> <b>9:00 AM</b>  <b>HRG State College</b> <b>Benjamin R. Burns</b>
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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	92	228	9/4/2019	72%	28%
17-04	9/4/2018	320	7/21/2019	92	228	9/4/2019	72%	28%

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



## **EXECUTIVE DIRECTOR'S REPORT**

December 19, 2018

## **INFORMATION ITEMS**

### **ACTION ITEMS**

#### **3. Public Comment**

##### **3.1 Other items not on the agenda**

#### **4. Old Business**

#### **5. New Business**

##### **5.1 Halfmoon Township Development of Regional Importance (DRI)**

UAJA received a request to provide comments concerning a Development of Regional Impact (DRI) for Eastern Halfmoon Township. The request is included in the agenda report. The proposed development would add 935 acres in Halfmoon Township to the UAJA sewer service area, which amounts to 2,200 EDUs at 65 percent of the land being available for actual EDUs.

The Centre Region Planning Agency has placed a deadline of January 4, 2019 on our reply so that it can be included in the DRI application for discussion by the Halfmoon Township Board of Supervisors on January 24, 2019. The Centre Region DRI process requires the host municipality to review and recommend the proposed change to the Regional Growth Boundary (RGB) and/or Sewer Service Area (SSA).

While it is possible for UAJA to speculate on the ability to serve a particular area, allocation of capacity and determining how service to a particular area might occur are determined through the Act 537 sewage Facilities Plan, which is the responsibility of the municipalities.

In May 2018, RETTEW completed the "Capacity Summation for the Spring Creek Pollution Control Facility", which was presented to the Board in June 2018. For reference, it is included in the printed package. The capacity summation indicates that there is influent hydraulic and organic capacity for this development. It also indicates that there is effluent hydraulic capacity assuming that the existing G.D. Kissinger Meadow stream augmentation is not adversely impacted by regulatory action. Even if the stream augmentation is adversely affected by regulatory action, it is possible for the Centre region municipalities to significantly increase beneficial reuse by encouraging or mandating the use of beneficial reuse water in place of potable drinking water.

The biggest capacity question that cannot be answered is the nutrient capacity. As is pointed out in the capacity summation report, nutrient capacity is a mass limit, which cannot be increased by adding treatment at the plant. Nutrient capacity can only be increased through non-point source best management practices (BMPs). Nutrient capacity is also the responsibility of the municipalities to allocate through the Act 537 Plan. Currently, since it is not addressed in the plan, UAJA continues to allocate the capacity on a first come, first served basis.

Since it appears likely that Pennsylvania will not meet its Chesapeake Bay requirements, the Centre Region municipalities should plan for the reduced nutrient mass limits which would result from EPA applying the backstop limits in 2025 or sooner as described in the capacity summation report.

The property proposed for development is difficult to serve because of the configuration of the sewer service boundary. Most of the time, the Centre Region municipalities oppose sewer lines being located outside of the SSA. In this case, the best way to serve this area likely would result in sewers being located outside of the sewer service area. How the area is to be served is determined by the municipalities through the Act 537 planning process.

The area to be served is not within the municipalities currently served by UAJA. The municipalities which formed UAJA should consider what Halfmoon Township's relationship to UAJA should be.

In summary, UAJA speculates that service to this area is possible. However, the determination of answers to the concerns listed above would be determined through a full Act 537 Plan update, which is currently anticipated by CRPA to begin in 2020, with completion most likely in 2021.

**Recommendation:** The Board should consider the above staff comments and provide guidance to the Executive Director on preparing a response to the request.

## **5.2 Final Design: Gray's Woods Planned Community- Phase 6, Section A**

Final design drawings for the Gray's Woods Planned Community- Phase 6, Section A sewer extension (Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 43 EDUs of townhomes and single family lots. The review comments have been addressed.

**Recommendation:** Approve the drawings as submitted.

## **5.3 Contract 2017-06 Change Order #1 (HRI)**

HRI has been instructed to add the following to the contract:

- Roof drainage system on the EQ Tank
- Guardrails and handrails on the EQ Tank
- Additional connection to each O3 Contact Tank
- Two (2) 6-inch butterfly valves in AWT process piping
- Three (3) 12-inch gate valves in UV Tank drain piping

Jason Wert of Rettew will be available to explain and answer questions.

**Recommendation:** Approve an increase of \$40,622.06 to the contract price.

## **5.4 Contract 2017-08 Change Order #1 (Biter)**

Biter Electrical has been instructed to make the following changes to the contract:

- Provide power and install equipment for proposed UV equipment in AWT
- Provide and install VFD drives for post aeration blowers
- Changes per RFI-4 response
- Install neutral feed to MCC13 per RFI-01
- Changes to Chem Feed Control Panel per RFI-16 response
- Add circuit breaker per RFI-14 response
- Remove RVSS from MCC1502 from project per RFI-12 response
- Provide and install materials and equipment for power and controls to MOV-1401
- Provide and install materials and equipment for disconnecting/reconnecting Air Scour Vent Actuator in Tertiary Building

Jason Wert of Rettew will be available to explain and answer questions.

**Recommendation:** Approve an increase of \$76,742.66 to the contract price.

## 5.5 Requisitions

Construction Fund #87	The Howard Company Odor Control Elec. Pay App #2	\$123,210.00
Construction Fund #88	Global Heavy Corp Odor Control Gen. Pay App #2	\$58,000.00
Construction Fund #89	HRI ENR/AWT Gen. Pay App #7	\$414,891.23
Construction Fund #90	Biter Electrical ENR/AWT Elec. Pay App #3	\$26,782.74
Construction Fund #91	Rettew Associates ENR/AWT SCADA	\$66,170.00
Construction Fund #92	HRG Odor Control Engineering	\$7,195.00
Construction Fund #93	HRG Harris Reuse Engineering	\$8,661.50
Construction Fund #94	Rettew Associates ENR/AWT Engineering	\$23,008.93
<b>TOTAL CONSTRUCTION FUND</b>		<b>\$727,919.40</b>



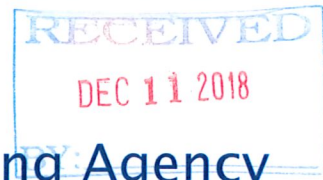
BRIF #329	HRG Greenbriar Engineering	\$5,800.00
BRIF #330	Gannett Fleming Inc. GIS	\$2,057.70
BRIF #331	Veronesi Building/Remodelers Control Building Windows	\$10,680.00
<b>TOTAL BRIF</b>		<b>\$18,537.70</b>
Revenue Fund #160	Debt Service, Operating and Maintenance Expenses	\$1,000,000
<b>TOTAL REVENUE FUND</b>		<b>\$1,000,000</b>

**6. Reports of Officers**

**7. Other Business**

**7.1 Executive Session**

**8. Adjournment**



December 7, 2018

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

**RE: UNIVERSITY AREA JOINT AUTHORITY COMMENTS ON SERVICE FOR  
A PROPOSED HALFMOON TOWNSHIP DEVELOPMENT OF REGIONAL  
IMPACT (DRI)**

Dear Mr. Miller:

I am writing to request that the University Area Joint Authority indicate its ability to provide future services for approximately 935 acres in Halfmoon Township. This DRI requests that the Centre Region consider increasing the Regional Growth Boundary and Sewer Service Area (RGB and SSA) by approximately 935 acres to accommodate future development on the eastern end of the Township.

For planning purposes, the CRPA has estimated that at buildout, the area would allow approximately 3.5 dwelling units per acre, with a mix of housing types, and provide for limited non-residential land uses. Current zoning allows 1.0 dwelling unit per acre. After accounting for land needed for roads, utilities, parkland, and the protection of environmental areas, it is estimated that the area could accommodate the following number of dwelling units:

**TABLE 1  
NET INCREASE IN TOTAL DWELLING UNITS (DU)**

FUTURE ZONING		CURRENT ZONING		NET INCREASE	
AT 50 PERCENT	AT 65 PERCENT	AT 50 PERCENT	AT 65 PERCENT	AT 50 PERCENT	AT 65 PERCENT
1,600 du	2,200 du	468 du	608 du	1,132 du	1,592 du

Notes: (1) Assumes net developable area will range from 50 percent to 65 percent of the gross area. Existing zoning allows one dwelling unit per acre. Future zoning will allow approximately 3.5 dwelling units per acre

Please consider a few key points as you review this proposal:

- It is anticipated that, if approved, this request could take more than 35 years to reach full buildout based upon current growth projections. For perspective, in the five-year period between 2013 and 2017, there were 52 construction permits issued for single family homes in Halfmoon Township. During the same five-year period, there were 697 construction permits issued for single family homes in the Centre Region. There

was a combined total of 2,455 construction permits issued for single family homes, townhomes, and apartments in the Centre Region for the same five-year period.

- The goal of this proposal is to focus most of the Township's future growth in the eastern end of the Township; development would be adjacent to existing public services.
- A substantial portion of the remaining areas in the Township are protected as open space and agricultural areas.

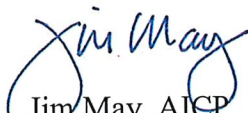
The DRI application is a comprehensive evaluation of the impacts of this proposal on the community. This application will be presented to both the Centre Regional Planning Commission and COG General Forum for review, discussion, and final action by the COG General Forum.

Your input will be very valuable to Halfmoon Township and the Centre Region's elected officials as they discuss this DRI proposal. We are requesting your help in analyzing the impact of this proposal on the public service that you provide to the community. Please review the attached map, and comment on your ability to provide service to the area based on the development potential anticipated in this letter. In addition, please comment on any other issues that developing these parcels at the proposed density may raise from your perspective.

Please respond to this letter at your earliest convenience, but no later than the close of business on January 4, 2019, to allow your response to be included in the DRI application for initial discussion by the Halfmoon Township Board of Supervisors on January 24, 2019. The application will be forwarded to the Centre Regional Planning Commission for a recommendation to the COG General Forum later in 2019 for final action.

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

Sincerely,

  
Jim May, AICP  
Director

cc: Jim Steff, COG Executive Director  
Susan Steele, Halfmoon Township Manager  
COG Transportation and Land Use Committee  
Centre Regional Planning Commission

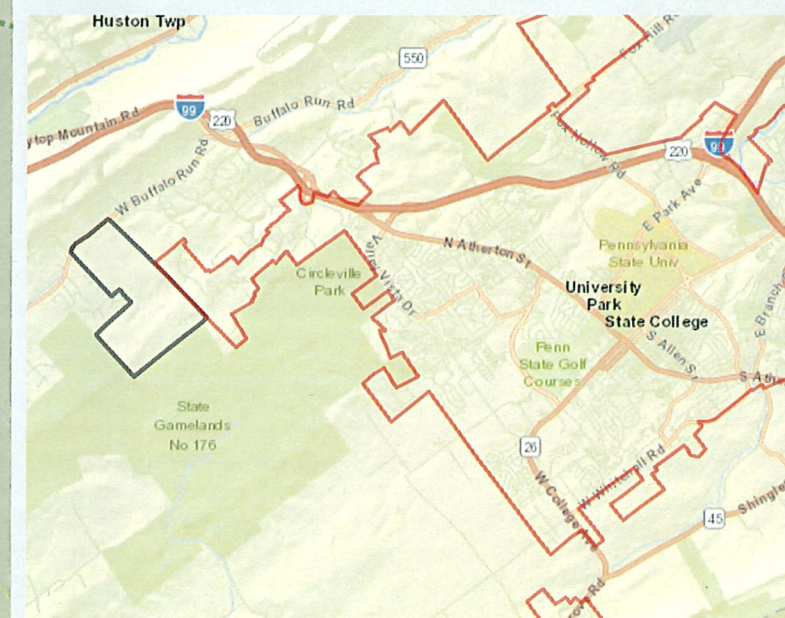
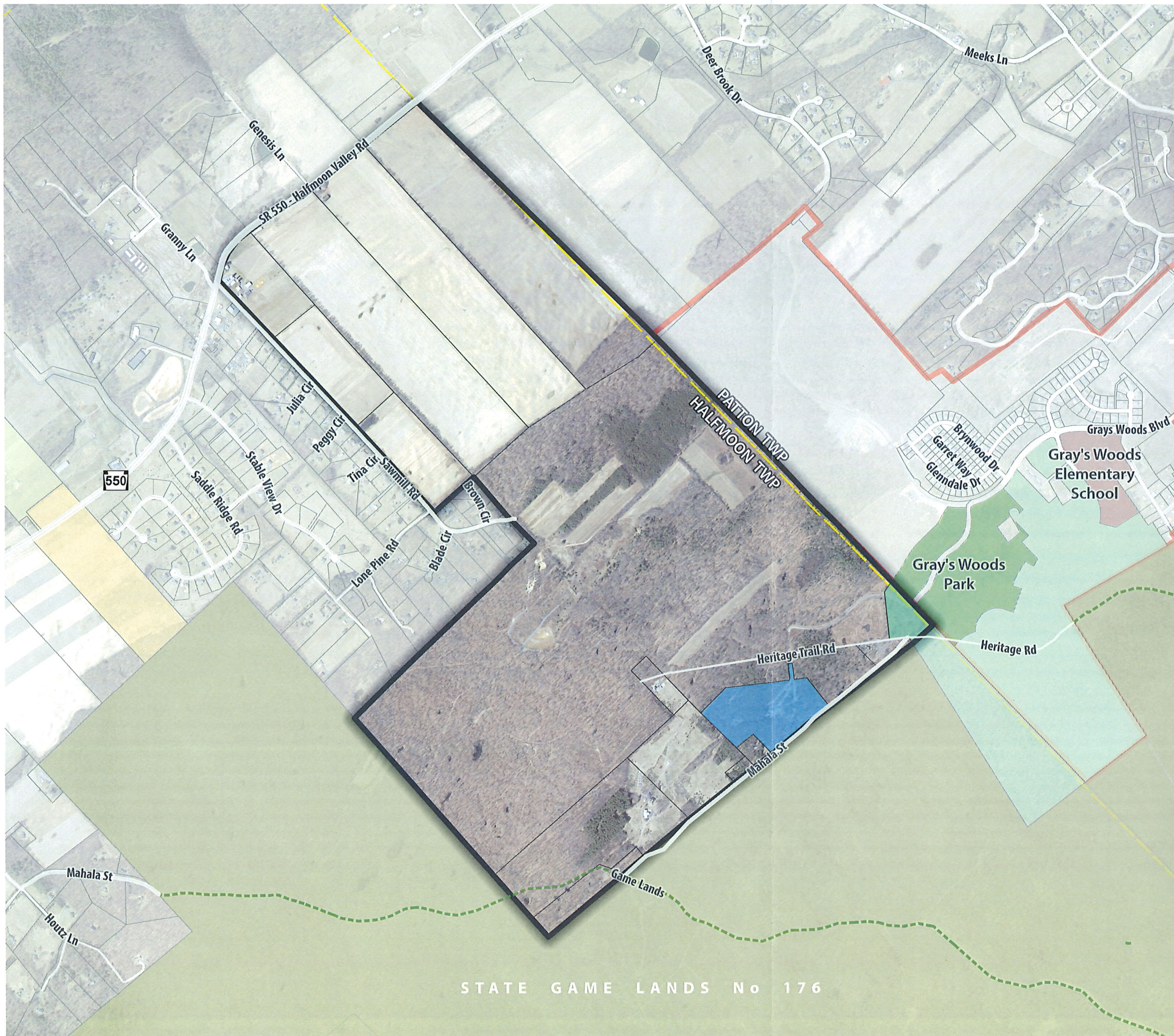
Enclosure



# Halfmoon Township DEVELOPMENT OF REGIONAL IMPACT

## Area Map

-  DRI Boundary
-  Parcels
-  Regional Growth Boundary
- Open Space
  -  Act 153 Property
  -  Clearwater Conservancy
  -  Preserve
  -  Park
  -  School
  -  State Game Lands
  -  Water Authority





**CAPACITY SUMMATION**

**FOR**

**SPRING CREEK POLLUTION CONTROL FACILITY**

**CENTRE COUNTY, PENNSYLVANIA**  
University Area Joint Authority

RETTEW Project No. 094612018  
MAY 2018



**RETTEW**<sup>SM</sup>

Prepared by  
RETTEW Associates, Inc.  
330 Innovation Boulevard  
State College, PA 16801  
814.308.0643  
rettew.com

## **EXECUTIVE SUMMARY**

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

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

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

RETTEW estimates that the remaining Authority capacity for the Spring Creek Pollution Control Facility is currently limited by Effluent Hydraulic Capacity and is reflective of approximately 12,550 EDUs. This takes into consideration that the ENR/AWT Project is underway and will provide an expansion to the Beneficial Reuse system in approximately one year and includes a safety factor for the Authority to have a greater chance of operating within its permit limits. This will in turn provide a safety factor to water quality in the Spring Creek Watershed.

The table below shows each of the types of capacity and the theoretical remaining capacity. The table accounts for an already allocated capacity for approved developments which have not yet connected to the sewer system. UAJA tracks the allocated capacity for College, Ferguson, Harris and Patton Townships. UAJA does not track allocated EDUs in the State College Borough sewer system. As of January 2018, there were 1,656 EDUs in progress.

CATEGORY	REMAINING TOTAL EDUs	REMAINING EDUs w/ RESERVED CAPACITY	REMAINING EDUs w/ 10% OPERATIONAL SAFETY FACTOR FOR WATER QUALITY PRESERVATION
<b>Influent Hydraulic Capacity</b>	21,886	20,230	18,207
<b>Effluent Hydraulic Capacity - Current</b>	10,457	8,801	7,921
<b>Effluent Hydraulic Capacity w/ ENR/AWT Project</b>	15,600	13,944	12,550
<b>Organic Capacity</b>	58,990	57,334	51,601
<b>Total Nitrogen Capacity w/ ENR/AWT Project</b>	43,247	41,591	37,432
<b>Total Nitrogen Capacity at EPA Backstop Levels</b>	28,034	26,378	23,740

## **INTRODUCTION**

The University Area Joint Authority (“Authority”) provides sanitary sewage collection, treatment, reuse and biosolids stabilization for the Centre Region, comprising the Townships of College, Ferguson, Harris and Patton, along with portions of the Borough of State College and the Pennsylvania State University. The current Authority facility, the Spring Creek Pollution Control Facility, has been operational since the late 1960’s, underwent a significant upgrade in 2005, and is slated for further upgrades in 2018. These recent upgrades, the Beneficial Reuse Project, significantly modified the biological process and incorporated water reuse into the facility.

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

In recent years, the operations cost of the Total Nitrogen removal, coupled with continued growth and regulatory tightening, have created conditions where it is foreseeable that the Authority could be severely limited under the current facility configuration to meet its Total Nitrogen effluent limits. As such, the Authority has been proactively planning for methods and capital upgrades to increase the available nutrient capacity of the facility or increase performance for Total Nitrogen removal. These improvements will be constructed in 2018.

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

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

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

- 175 gallons per day wastewater per EDU
- 0.4 lbs of organic load (BOD<sub>5</sub>) per day per EDU
- 25 lbs of Nitrogen per year per EDU
- 3 lbs of Phosphorus per year per EDU

### **COMMITTED CAPACITY**

The figures presented below in the various capacity sections are representative of the current conditions at the Authority's facility. However, the community and the Authority have made existing commitments to developers and property owners throughout the Centre Region and there are a significant number of committed but "unconnected" EDUs. These are planned community expansions, future phases of existing developments, or projects already under construction. The Authority estimates there are approximately 1,656 EDUs that are unconnected but have reserved capacity with the Authority. This does not include committed capacity EDU's from within the Borough of State College.

### **COMMENTARY ON OPERATIONAL PREDICTIONS**

The treatment and reuse of wastewater is a complex, interrelated series of processes that rely upon a combination of science, engineering and operations expertise to achieve the stringent regulatory goals the Authority has imposed by local, state and federal agencies. The capacity figures, and predictions of remaining capacity, are dependent upon these processes and operations meeting the Authority's standards and procedures. There are events (weather, precipitation, water temperature, equipment failures, etc.) that influence operational decisions and can inevitably impact water quality and capacities at the Authority's facilities. In addition, as the facility approaches its capacity limits, the treatment and operations are less forgiving, and at the low levels the Authority is required to meet for compliance, the combination of factors can be very challenging to meet consistently. Lastly, several of the newer improvements have not been installed at the Authority and have only been pilot-tested. The actual long-





term performance of these systems (such as the Denitrification Filters) is unknown and will have a significant impact on the capacity of the Authority's facility.

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

### **INFLUENT AND EFFLUENT HYDRAULIC CAPACITY**

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

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

Wastewater is measured and billed through different mechanisms at the Authority, EDU based and Flow based. The largest Flow based customer is the Borough of State College. While determining the flow per EDU for EDU based billing customers is relatively straightforward, approximating it for the Flow based billed customers is more challenging. As the community utilizes EDUs for evaluating growth and capacity limitations, it is important to convert the Flow based customers to an EDU basis to ensure commonality.

To approximate the allocated capacity for these Flow based customers, the Authority reviewed the allocated hydraulic capacity for EDU based customers compared to their actual flows (Total Flow – Flow based Customer Flow = EDU based Customer Flow). For the last quarter of 2017, the flow from the EDU based customers was 242.63 Million Gallons ("MGal"), with 92 days in the quarter, resulting in 2.637 MGal per day. With a total of 24,747 EDU's billed in the 4th quarter of 2017, the resulting flow per EDU is 107 gpd/EDU.

To estimate the Flow based customer's EDU contribution, the Authority utilized the 107 gpd/EDU for the EDU based customers as compared to the actual flow for Flow based customers for the same quarter. The flow from the Flow based customers was 185.43 Million Gallons ("MGal"), with 92 days in the quarter, resulting in 2.016 MGal per day. At 107 gpd/EDU, the total number of Flow based customer EDU's is



18,841. This then equates to an estimated Total EDU's for the Authority collection system of 43,588 EDUs, inclusive of EDU based customers and Flow based customers.

This similar methodology is utilized in the Authority's annual Chapter 94 Report and is utilized across the entire year. This results in a flow per EDU of 109 gpd and a Total Estimated EDU's of 45,441 for the entire Authority system.

The Authority reports to the PA DEP the Influent Capacity situation through an annual regulatory document known as the Chapter 94 Report. This report summarizes influent flow measurement and organic loading at the facility over a five-year period. Based on the 2017 Chapter 94 Report, summarizing the calendar years of 2013 - 2017, the Facility has the following influent hydraulic conditions:

Influent Flow (As Measured as Maximum Monthly Average Flow)	6.73 MGD
Influent Capacity (As Measured as Maximum Monthly Average Flow)	10.56 MGD
Facility Loading	63.7%
Remaining Total EDU Capacity	21,886 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	20,230 EDUs

The Authority reports to the PA DEP the Effluent Capacity situation through a monthly regulatory document known as the Discharge Monitoring Report ("DMR"). To assist the Authority in evaluation of effluent capacity, the Authority Staff provide a summation monthly to the Authority Board. Based on the March 2018 Report, the Facility has the following effluent hydraulic conditions:

Effluent Flow (As Measured as Rolling Average of Previous 12 Months)	4.17 MGD
Effluent Capacity (As Measured as Annual 365 Day Average)	6.00 MGD
Facility Loading	69.5%
Remaining Total EDU Capacity	10,457 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	8,801 EDUs

It should be noted though that the Facility Effluent Capacity is interlinked to the Beneficial Reuse Process and the production and reuse of the beneficial reuse water in the Centre Region. The current hydraulic capacity for the Beneficial Reuse system is 1.0 MGD (As Measured as Annual 365 Day Average) and the current Effluent Flow (4.17 MGD as reported in March 2018) already incorporates this level of reuse. Stated differently, if the Beneficial Reuse system were not operational, the current Effluent Flow would be approximately 5.17 MGD, or 86.2% of Facility Capacity. Additionally, the Beneficial Reuse System does not operate 365 days a year, allowing for maintenance, cleaning and other equipment related downtime for proper facility operations. This slightly reduces the operational impact as it is difficult for the Authority to achieve 1.0 MGD of reuse water production 24/365.



With the ENR/AWT Capital Project, the Authority will expand the Beneficial Reuse System to a total capacity of 2.0 MGD (As Measured as Annual 365 Day Average). This will allow for increased reuse water distribution to assets such as the Gordon D. Kissinger Meadow and Constructed Wetland. This will also increase operational “uptime” as the Authority will install a second Reverse Osmosis Unit which will allow for cleaning and maintenance while still operating at a reduced flow of 1.0 MGD.

Incorporating the ENR/AWT Capital Project, the Facility will be expected to reduce the current Effluent Flow by an additional 0.9 MGD (incorporating downtime and inefficiency in reuse), resulting in the following revised figures predicted at the end of the ENR/AWT Capital Project:

Estimated Effluent Flow	3.27 MGD
Effluent Capacity (As Measured as Annual 365 Day Average)	6.00 MGD
Facility Loading	54.5%
Remaining Total EDU Capacity	15,600 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	13,944 EDUs

It must be highlighted that the recent Draft NPDES Permit Issuance for the outfalls at the Gordon D. Kissinger Meadow and Constructed Wetland contains temperature limitations that could restrict or curtail reuse water use at that location. If this were to occur, it would detrimentally impact the effluent capacity of the Authority’s facilities as this location is a primary reuse water site. This is an ongoing situation and negotiation with the PA DEP, however, it will certainly influence the effluent hydraulic capacity of the Facility and the Region.

## **ORGANIC CAPACITY**

The Authority’s facilities were rerated for Organic Capacity in 2013 and took effect in 2014. Similar to the Influent Hydraulic Capacity, the Authority reports the current Organic Capacity and Loading in its Annual Chapter 94 Report. Based on the 2017 Chapter 94 Report, summarizing the calendar years of 2013 - 2017, the Facility has the following organic conditions:

Organic Loading (As Measured as Peak Monthly Average)	26,404 lbs/day
Organic Capacity (As Measured as Peak Monthly Average)	50,000 lbs/day
Facility Loading	52.8%
Remaining Total EDU Capacity	58,990 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	57,334 EDUs



The Authority's facility is carbon deficient for Nutrient Removal and necessitates the addition of a carbon supplement to meet discharge limitations. The above Organic Capacity figures further illustrates the carbon deficiency at the Authority facility.

## **NUTRIENT CAPACITY**

The impact of nutrient limits on the Authority Facility have been the subject of several separate reports (for example, see May 2016 "Summation of Nutrient Management Alternatives" for University Area Joint Authority prepared by RETTEW) and is a complex subject. Prior to the initiation of the ENR/AWT Upgrade Capital Project by the Authority, the impact of the nutrient loading and current operational constraints would have limited the Authority to an influent flow of approximately 7.65 MGD (reduction of 28% over current Influent Hydraulic Capacity). However, with the initiation of the construction of the improved biological process, denitrification filters, and AWT expansion for further Beneficial Reuse, the Authority anticipates having sufficient nutrient capacity to coincide with its Influent and Effluent Hydraulic constraints (See Commentary on Operational Predictions).

Assuming that the proposed improvements conducted during the ENR/AWT Upgrade result in the capability to achieve 5 mg/l of Total Nitrogen concentration year round, and that 1.8 MGD of Reuse Water was distributed to the community on an annual average basis, the facility would have the following capacity for Total Nitrogen:

Total Nitrogen Capacity (As Measured as Annual Mass Loading)	164,381 lbs/day
Maximum Effluent Flow to Spring Creek at Capacity (Annual Average)	6.00 MGD*
*Limited by NPDES Permit (See Hydraulic Capacity Section)	
Maximum Influent Flow to Facility (Based on Predicted Performance)	10.78 MGD
Remaining Total EDU Capacity	43,247 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	41,591 EDUs

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

However, it should be again noted that this is dependent upon the successful implementation of the technology and the current regulatory framework of an annual average mass limitation based upon a Total Nitrogen concentration of 6.0 mg/l and a Total Phosphorus concentration of 0.8 mg/l. The PA DEP is currently slated to release the Chesapeake Bay Tributary Strategy Phase III Watershed Improvement Plan during the second half of 2018, and while current indications are that no further reductions from the



## Spring Creek Pollution Control Facility Capacity Summation University Area Joint Authority

wastewater sector will be required by the PA DEP, this will require US EPA approval. The proposed improvements in the ENR/AWT Upgrade Project allow the Authority to remove Total Nitrogen and Total Phosphorus down to levels that would be consistent with a further reduction in mass loading limits, however, these improvements are both operational and hydraulically sensitive. Suffice to comment, if there are further tightening of nutrient limits beyond the current levels, it will have an impact on the Authority's Nutrient Capacity and related Hydraulic and Organic Capacities.

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

Total Nitrogen Capacity (As Measured as Annual Mass Loading)	109,588 lbs/day
Maximum Effluent Flow to Spring Creek at Capacity (Annual Average)	6.00 MGD*
*Limited by NPDES Permit (See Hydraulic Capacity Section)	
Maximum Influent Flow to Facility (Based on Predicted Performance)	9.00 MGD
Remaining Total EDU Capacity	28,034 EDUs
Remaining EDU Capacity with Reserved Capacity Allocations	26,378 EDUs

## CONCLUSIONS

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

CATEGORY	LIMIT	ACTUAL	REMAINING TOTAL EDUs	REMAINING EDUs w/ RESERVED CAPACITY
<b>Influent Hydraulic Capacity</b>	10.56 MGD	6.73 MGD	21,886	20,230
<b>Effluent Hydraulic Capacity - Current</b>	6.00 MGD	4.17 MGD	10,457	8,801
<b>Effluent Hydraulic Capacity w/ ENR/AWT Project</b>	6.00 MGD	3.27 MGD	15,600	13,944
<b>Organic Capacity</b>	50,000 lbs/d	17,150 lbs/d	58,990	57,334
<b>Total Nitrogen Capacity w/ ENR/AWT Project</b>	164,381 lbs/yr	Varies <sup>1</sup>	43,247	41,591
<b>Total Nitrogen Capacity at EPA Backstop Levels</b>	109,588 lbs/yr	Varies <sup>1</sup>	28,034	26,378

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

<sup>2</sup>Above Figures incorporated estimated impact of ENR/AWT Improvements on the Facility. 2018 Figures will differ from the above with the improvements estimated to be online in 2<sup>nd</sup> half of 2019.

RETTEW estimates that the remaining Authority capacity for the Spring Creek Pollution Control Facility is currently limited by Effluent Capacity and is reflective of approximately 13,944 EDUs. This takes into consideration that the ENR/AWT Project is underway and will provide an expansion to the Beneficial Reuse system in approximately one year.

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

**Appendix A**  
**Excerpt from Authority 2017 Chapter 94 Report**

# University Area Joint Authority

## EXHIBIT A HYDRAULIC LOADING DATA

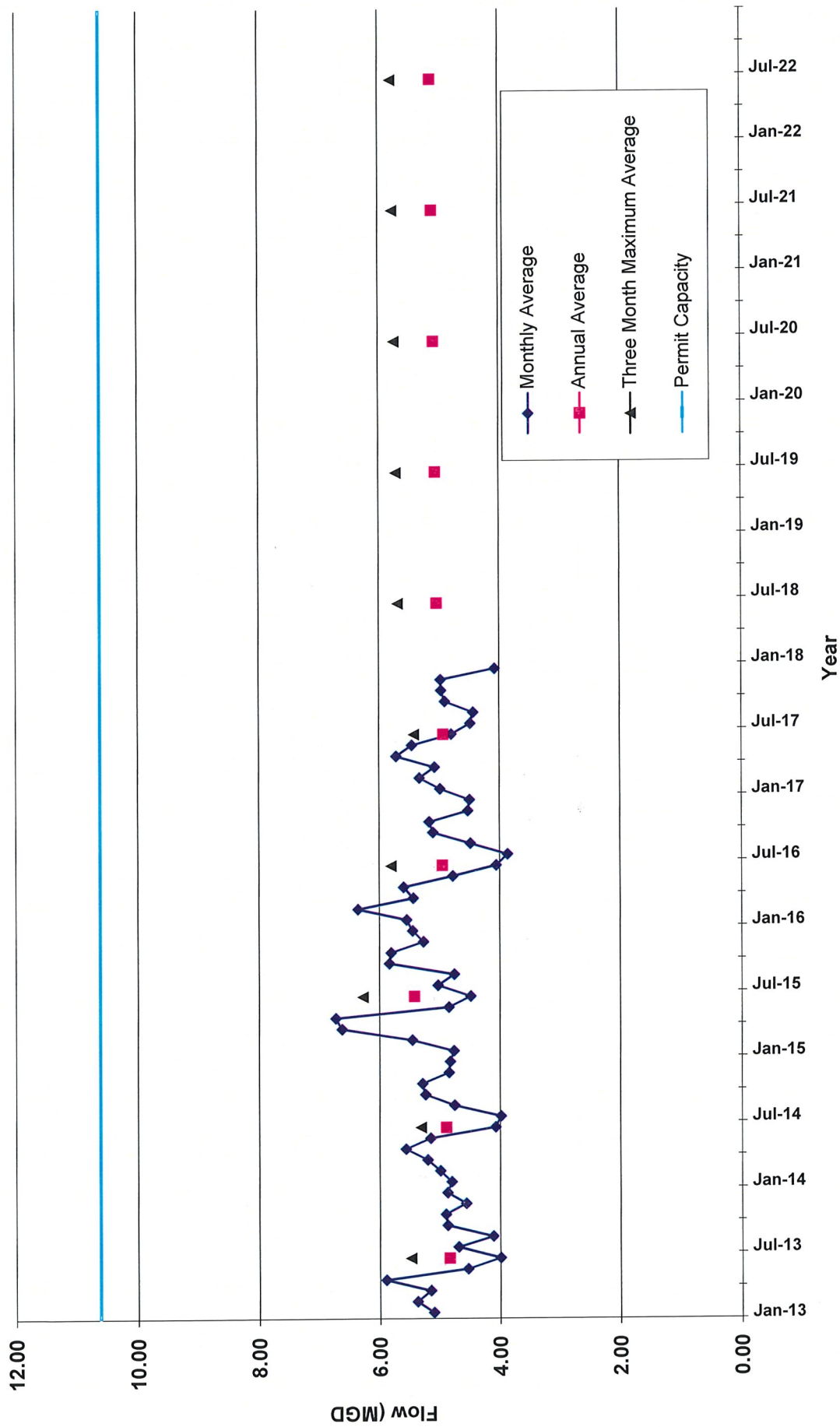
FLOW - MGD	2013	2014	2015	2016	2017	
JAN	5.11	4.81	4.77	5.55	4.99	
FEB	5.38	5.00	5.46	6.36	5.33	
MAR	5.16	5.21	6.63	5.44	5.08	
APR	5.90	5.57	6.73	5.60	5.72	
MAY	4.54	5.16	4.85	4.78	5.46	
JUN	4.00	4.08	4.49	4.06	4.80	
JUL	4.70	3.99	5.03	3.87	4.49	
AUG	4.12	4.76	4.76	4.49	4.44	
SEP	4.88	5.24	5.84	5.11	4.91	
OCT	4.91	5.29	5.81	5.17	4.97	
NOV	4.57	4.85	5.27	4.53	4.98	
DEC	4.88	4.83	5.45	4.50	4.08	
ANNUAL AVG	4.8458	4.8992	5.4242	4.9550	4.9375	5 YEAR AVG 5.0123
MAX 3 MONTH AVG	5.4800	5.3133	6.2733	5.8000	5.4200	
RATIO	1.13	1.08	1.16	1.17	1.10	1.13
EDU'S	43803	40034	41704	43472	45441	
FLOW/EDU (GPD)	111	122	130	114	109	117

### FLOW PROJECTIONS PERMIT FLOW = 6 MGD

YEAR	PREV FLOW	ADD'L EDU'S	INC FLOW	PROJ FLOW	PROJ FACTOR	PROJECTED 3 MONTH MAX
2018	5.0123	220	0.0258	5.0381	1.13	5.6832
2019	5.0381	200	0.0234	5.0615	1.13	5.7096
2020	5.0615	200	0.0234	5.0850	1.13	5.7361
2021	5.0850	200	0.0234	5.1084	1.13	5.7625
2022	5.1084	200	0.0234	5.1318	1.13	5.7889



# Hydraulic Loading Graph



# University Area Joint Authority

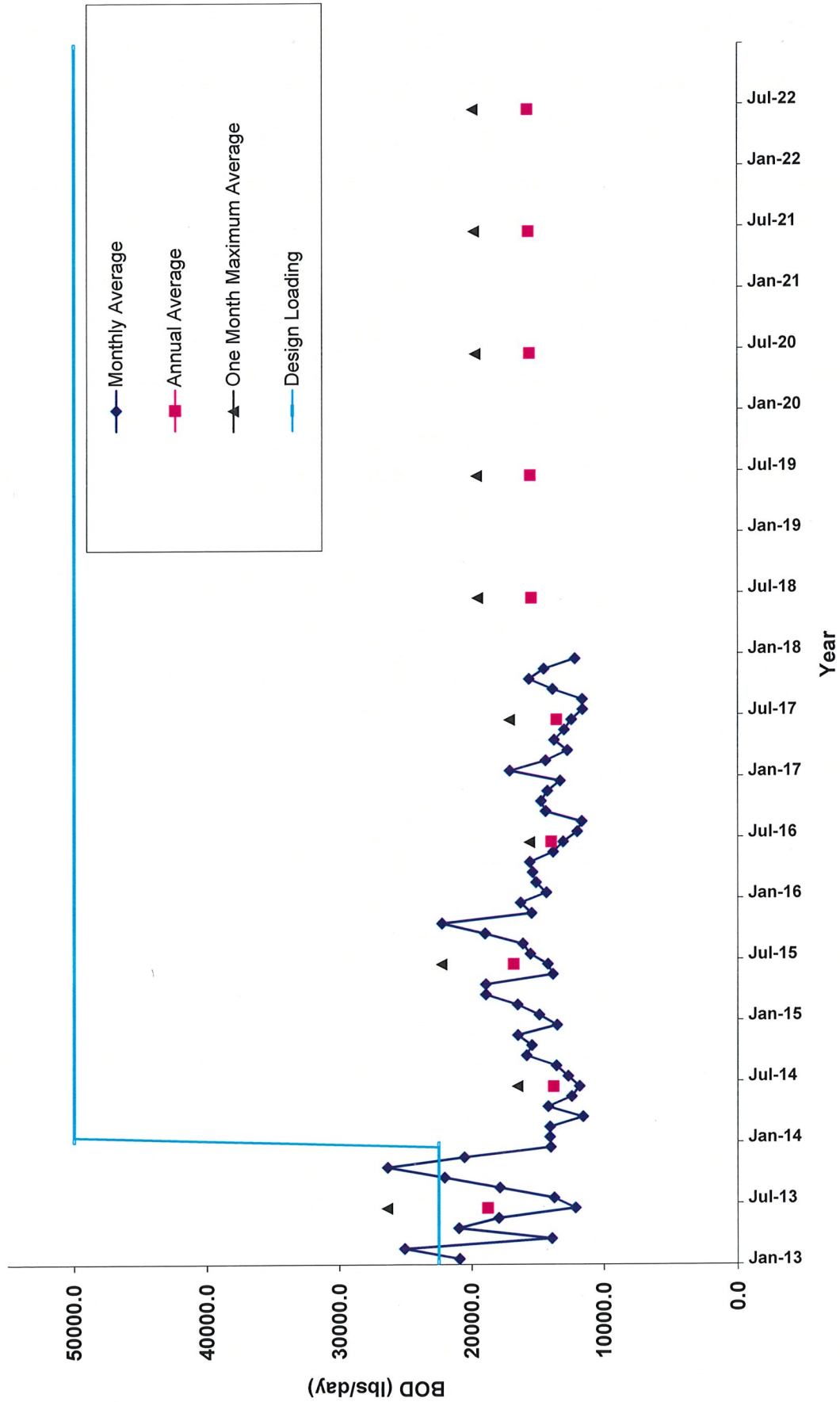
## EXHIBIT B ORGANIC LOADING DATA

BOD - LBS/DAY	2013	2014	2015	2016	2017	
JAN	20948	14097	14902	14367	17150	
FEB	25123	14094	16564	15145	14427	
MAR	13941	11585	18954	15406	12771	
APR	20999	14233	18967	15628	13766	
MAY	17987	12435	13870	13858	13004	
JUN	12160	11841	14256	13078	12461	
JUL	13774	12702	15584	12014	11622	
AUG	17914	13611	16149	11673	11645	
SEP	22084	15881	19022	14415	13897	
OCT	26404	15478	22288	14769	15675	
NOV	20587	16545	15493	14285	14562	
DEC	14048	13548	16324	13318	12187	
ANNUAL AVG	18831	13838	16864	13996	13597	5 YEAR AVG 15425
MAX 1 MONTH AVG	26404	16545	22288	15628	17150	
RATIO	1.40	1.20	1.32	1.12	1.26	1.26
EDU'S	43803	40034	41704	43472	45441	
BOD LBS/EDU	0.43	0.35	0.40	0.32	0.30	0.36

## ORGANIC LOADING PROJECTIONS DESIGN LOADING = 50,000 LBS/DAY BOD

YEAR	PREV LOAD	ADD'L EDU'S	INC LOAD	PROJ LOAD	PROJ FACTOR	PROJECTED 1 MONTH MAX
2018	15425	220	79.2	15504	1.26	19527
2019	15504	200	72.0	15577	1.26	19618
2020	15577	200	72.0	15649	1.26	19709
2021	15649	200	72.0	15721	1.26	19800
2022	15721	200	72.0	15793	1.26	19890

Organic Loading Graph





UAJA 2017-06

Change Order No. 1

Date of Issuance:	Effective Date:	Date executed by Owner
Owner: University Area Joint Authority	Owner's Contract No.: UAJA 2017-06	
Contractor: HRI, Inc.	Contractor's Project No.:	
Engineer: RETTEW Associates, Inc.	Engineer's Project No.: 094612009	
Project: ENR/AWT Systems Upgrade & Expansion	Contract Name:	General Construction

The Contract is modified as follows upon execution of this Change Order:

## Description:

- Installation of roof drainage system on the EQ Tank.
- Design of guardrails and handrails on the EQ Tank and Aeration Tanks in accordance with the Centre Region Code Administration Review for the final Building Permit.
- Addition of one (1) connection to each of the new stainless-steel, ozone contact tanks in the AWT building.
- Addition of two (2) 6-inch butterfly valves in the process piping in the AWT building.
- Installation of three (3) 12-inch gate valves within the drain piping associated with the UV tank.

## Reason for Change:

See attachments for details.

## Attachments:

- Work Change Directive No. 1, Extra Work Estimate 1.0
- Work Change Directive No. 3, Extra Work Estimate 3.0
- Work Change Directive No. 4, Extra Work Estimate 4.0
- Request for Pricing No. 3, Work Change Directive No. 5, Extra Work Estimate 5.0

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price:  \$ <u>8,375,000.00</u>	Original Contract Times: Substantial Completion: <u>365 Days</u> Ready for Final Payment: <u>60 Days</u> days or dates
[Increase] [Decrease] from previously approved Change Orders No. <u>   </u> to No. <u>   </u> :  \$ <u>0</u>	[Increase] [Decrease] from previously approved Change Orders No. <u>   </u> to No. <u>   </u> : Substantial Completion: <u>0</u> Ready for Final Payment: <u>0</u> days
Contract Price prior to this Change Order:  \$ <u>8,370,000.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>May 23, 2019</u> Ready for Final Payment: <u>June 22, 2019</u> days or dates
[Increase] [Decrease] of this Change Order:  \$ <u>40,622.06</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>0</u> Ready for Final Payment: <u>0</u> days or dates
Contract Price incorporating this Change Order:  \$ <u>8,415,622.06</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>May 23, 2019</u> Ready for Final Payment: <u>June 22, 2019</u> days or dates



UAJA 2017-06

RECOMMENDED:		ACCEPTED:		ACCEPTED:	
By:	_____	By:	_____	By:	_____
	Engineer (if required)		Owner (Authorized Signature)		Contractor (Authorized Signature)
Title:	_____	Title	_____	Title	_____
Date:	_____	Date	_____	Date	_____

Approved by Funding Agency (if applicable)

By:	_____	Date:	_____
Title:	_____		



UAJA 2017-08

Change Order No. 1

Date of Issuance:	Effective Date:	Date executed by Owner
Owner: University Area Joint Authority	Owner's Contract No.:	UAJA 2017-08
Contractor: Bob Biter Electrical Enterprises, Inc.	Contractor's Project No.:	
Engineer: RETTEW Associates, Inc.	Engineer's Project No.:	094612009
Project: ENR/AWT Systems Upgrade & Expansion	Contract Name:	Electrical Construction

The Contract is modified as follows upon execution of this Change Order:

## Description:

- Provide and install materials and equipment necessary to power and control the proposed UV equipment within the AWT Building.
- Provide all labor, material and equipment costs associated with installing variable frequency drives on each of the Post Aeration Blowers located in the Alum Building included in Series 80 of the Project Drawing Set.
- Clarifications associated with the backwash return pumps in the Tertiary Filter Building included in RFI-04 Response.
- Installation of neutral for feed to MCC13 in the new AWT Feed PS building included in RFI-01 Response.
- Clarification associated with the Chemical Feed Control Panel in the Tertiary Filter Building included in RFI-16 Response.
- Addition of circuit breaker to new panel in the Tertiary Filter Building included in RFI-14 Response.
- Elimination of the RVSS from MCC1502 from the project scope included in RFI-12 Response.
- Provide and install materials and equipment associated with installing & connecting all required conduit/ wiring for power and controls to MOV-1401 located in AWT Feed Valve Vault.
- Provide and install materials and equipment associated with disconnecting and reconnecting the power conduit/wiring for the Air Scour Vent Valve Actuator in the Tertiary Building.

## Reason for Change:

See attachments for details.

## Attachments:

- Work Change Directive No. 1, COR Pricing EC-007
- Request for Pricing No. 1, Work Change Directive No. 2, COR Pricing EC-001
- COR Pricing EC-002, COR No. 1 Response
- COR Pricing EC-004, COR No. 3 Response
- COR Pricing EC-006, COR No. 5 Response
- COR Pricing EC-008, COR No. 6 Response
- Request for Pricing No. 2, COR Pricing EC-009
- Work Change Directive No. 3, COR Pricing EC-010
- Work Change Directive No. 4, COR Pricing EC-011

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price:	Original Contract Times:
\$ <u>1,025,700.00</u>	Substantial Completion: <u>365 Days</u>
	Ready for Final Payment: <u>60 Days</u>
	days or dates
[Increase] [Decrease] from previously approved Change Orders No. <u>   </u> to No. <u>   </u> :	[Increase] [Decrease] from previously approved Change Orders No. <u>   </u> to No. <u>   </u> :



UAJA 2017-08

\$ <u>0</u>	Substantial Completion: <u>0</u> Ready for Final Payment: <u>0</u> days
Contract Price prior to this Change Order: \$ <u>1,025,700.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>May 23, 2019</u> Ready for Final Payment: <u>June 22, 2019</u> days or dates
[Increase] [ <del>Decrease</del> ] of this Change Order: \$ <u>76,742.66</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>0</u> Ready for Final Payment: <u>0</u> days or dates
Contract Price incorporating this Change Order: \$ <u>1,102,442.66</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>May 23, 2019</u> Ready for Final Payment: <u>June 22, 2019</u> days or dates

RECOMMENDED:		ACCEPTED:		ACCEPTED:	
By: _____	By: _____	By: _____		By: _____	
Engineer (if required)	Owner (Authorized Signature)			Contractor (Authorized Signature)	
Title: _____	Title _____			Title _____	
Date: _____	Date _____			Date _____	

Approved by Funding Agency (if applicable)

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_