

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – December 17, 2014

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00p.m. Wednesday, December 17, 2014. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, Nucciarone, and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director, Dick Lahr, Collection System Superintendent; Art Brant, Plant Superintendent; Jason Brown, Project Manager; Dick Campbell, Solicitor; Doug Weikel and Ben Burns, Consulting Engineers; Jason Wert and Chris Underwood, Rettew; Janet Sulzer and Eric Vorwald, Centre Region; Mark Whitfield, State College Borough; Jon Sepp, Penn Terra Engineering; and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – November 19, 2014

UAJA
Meeting Minutes
Approved

A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on November 19, 2014 as submitted. The motion passed unanimously.

3. Public Comment

Ms. Sulzer reported that Centre Region Planning will be discussing the Act 537 update at their meeting in January 2015. This was Ms. Sulzer's last meeting as the liaison. Her time has been greatly appreciated.

4. Old Business

4.1 Industrial Pretreatment Resolution 14-3

Included in the agenda packet is the proposed Industrial Pretreatment Resolution. A headworks analysis was completed in August 2014. The proposed resolution reflects changes in the limits for our industrial permits, all of which will be less restrictive on the industries.

In addition to the limits, EPA required minor changes to the resolution to make it clear that UAJA has the authority to enforce the limits independent from relying on the individual municipal ordinances.

Industrial Pretreatment
Resolution 14-3
Approved

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve the Industrial Pretreatment Resolution 14-3. The motion passed unanimously.

4.2 Sewer Service to Whitehall Park and The Cottages (Whitehall Road)

At the November meeting, sewer service to The Cottages was discussed. The developer has proposed a pump station and 1 mile long force main to serve the development. There is a much closer sewer which would result in a 1/3 mile force main, however, that is a State College Borough sewer line. Connecting to that line would result in the developer having to pay the Borough tapping fee as well as the UAJA tapping fee.

Also discussed at the November meeting was the likelihood of piecemeal development in College and Harris Townships on land zoned agriculture that is tributary to Slab Cabin Run. If these lands develop based on existing zoning, even though they are outside of the sewer service area, there could be 500 or more homes on septic tanks. College and Harris Township zoning

both allow for single family homes on one acre lots in the agricultural zone. If the municipalities decide to allow those developments to connect to the sewer as they happen UAJA will end up with a lot of pump stations and force mains.

All of this land is mapped as “Agriculture” in the future land use map of the Centre Region Comprehensive Plan. The plan describes this future land use as follows:

Agriculture - This category is for land dedicated to farming (fields, lots, pastures, farmsteads, specialty crops, livestock production, etc.), agriculture, or similar agrarian land uses primarily located in rural areas where urban services are limited or do not exist. Residential land uses associated with the agricultural land use (such as a farmhouse) may be included in this category.

Clearly, there is a difference between the current agricultural zoning and the agriculture future land use in the comprehensive plan. 500 single family homes do not leave much space for agricultural activity.

All of this land could be served by a gravity interceptor near Slab Cabin Run. From the proposed location of the pump station to serve the Whitehall Road development, approximately 2 miles of gravity sewer would be required. The pump station and 1 mile of force main would not need to be built, thus the funds the developer was going to spend on that system could instead be spent on the gravity system. In addition, the special purpose tapping fee of \$509 per EDU for the Radio Park related improvements would not need to be paid, so that money would be available to construct the gravity sewer.

Options:

1. 1 mile force main and pump station as proposed by the developer. This option is most beneficial to the developer.
2. 1/3 mile force main and pump station to borough sewer. From future upkeep and maintenance perspective, this is more advantageous to UAJA. Developer would pay additional tapping fee to the borough.
3. 2 mile gravity sewer along Slab Cabin Run. No pump station. Sewer could be used by all lands in College and Harris Townships that would flow by gravity to Slab Cabin Run and are currently zoned agricultural, which allows 1 acre lots on septic systems. Very little value if townships take action to ensure that the future land use in the comprehensive plan is preserved.

A component 3 planning module has been submitted and requires action by UAJA for it to be considered by DEP. UAJA needs to certify that there is capacity available in the collection system and the treatment plant to serve the development. That is the extent of our involvement in the approval process. UAJA needs to respond to the module. There is, however, nothing that says we can't submit comments to be attached to the module.

It is the consensus of the Board that the Executive Director complete the planning module as submitted, but include comments pointing out the availability of a shorter force main option, and the possibility of a gravity solution. In addition, ask the Council of Governments to consider the impact of hundreds of potential on lot septic systems on the Slab Cabin Run sub watershed and

the drinking water supply. Only serve those lots inside the sewer service area even though the sewer gravity line is outside the sewer service area.

5. New Business

5.1 2015 Budget Amendment – Capital Budget

As discussed at November’s meeting, staff did not budget for the RO membrane contract in the 2015 Capital budget approved in October. Staff has prepared an amendment to add this expense (\$158,995) to the Capital Budget. Staff also took this opportunity to update the various projections and assumptions that were made in the Capital budget when it was originally approved. Due to the conservative nature of those original assumptions, the overall financial picture of the Authority going into 2015 is even better than originally projected. The pertinent budget pages have been provided in the packet and will be explained at the meeting.

Recommendation: Approve an amended Capital budget expense of \$158,955 for the RO membrane replacement contract awarded last month. Also accept and approve a revised Capital Budget summary that more accurately reflects our position going into 2015.

<p>2015 Budget Amendment Capital Budget Approved</p>	<p>A motion was made by Mr. Ebaugh, seconded by Mr. Guss, to approve an amended Capital Budget expense of \$158,955 for RO membrane replacement and to approve a revised Capital Budget summary that more accurately reflects our position going into 2015. The motion passed unanimously.</p>
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5.2 Change Order #1 – Contract 2014-5 SHAWT Electrical

The original contract called for rubber coated electrical conduit to be used in the AWT Building. This standard of conduit is not needed and is not in use anywhere else in the building. This change order is a monetary credit to the Authority as we are now allowing EMT conduit instead.

<p>Change Order #1 to Contract 2014-5 Approved</p>	<p>A motion was made by Mr. Dempsey, seconded by Mr. Lapinski, to approve Change Order #1 to Contract 2014-5 for a credit in the amount of \$4,703.48. The motion passed unanimously.</p>
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5.3 Change Order #8 – Contract 09-4 Big Hollow Diversion Pump Station

Final Change Order that resolves all outstanding issues and claims.

Recommendation: Approve Change Order #8 to Contract 09-4 in the amount of \$13,960.25

<p>Change Order #8 to Contract 09-4 Approved</p>	<p>A motion was made by Mr. Ebaugh, seconded by Mr. Lapinski, to approve Change Order #8 to Contract 09-4 in the amount of \$13,960.25. The motion passed unanimously.</p>
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5.3 Requisitions

BRIF #123	Lobar	
	Big Hollow PS Pay App #19	\$11,462.29
BRIF #124	HRG	\$3,212.50
	Odor Control Study	

Pay App #2		
BRIF #125	HRG Kissinger Meadow Construction Admin.	\$13,000
BRIF #126	HRG Big Hollow Pump Station Construction Admin.	\$2,265.00
BRIF #127	HRG Selder's Circle Stake-out	\$3,807.50
BRIF #128	HRG Ghaner Pump Station Record drawings	\$1,995.00
BRIF #129	Rettew SHAWT Engineering Inv #77121 and shortfall from #120	\$5,900.00
BRIF #130	Dale Summit Acquisitions December Lease Pymt.	\$25,000.00
BRIF #131	M2 Construction SHAWT Pay App #1	\$93,690.00
BRIF #132	Bob Biter Electrical SHAWT Pay App #2	\$20,452.50
BRIF #133	HRG North Allen Construction Admin	\$3,150.01
BRIF #134	Lobar Pay App #20 Big Hollow Pump Station	\$190,110.04
BRIF #135	Robert P. Lepley Electric Pay App #9 Big Hollow Pump Station	\$23,449.65

**Requisitions
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Ebaugh, to approve the BRIF # 123-135. The motion passed unanimously.

Rev Fund # 136

Debt Service, Operation &
Maintenance

\$1,000,000

**Requisitions
Approved**

A motion was made by Mr. Guss, seconded by Mr. Dempsey, to approve Revenue Fund requisition # 136 in the amount of \$1,000,000. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending November 30, 2014.

6.2 Chairman’s Report

Nothing to add.

6.3 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>Jun. 2014</u>	<u>Jul. 2014</u>	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>
Production	689 cu/yds.	613 cu/yds.	425 cu/yds.	563 cu/yds.	646 cu/yds.	662 cu/yds.
YTD. Production	4,350 cu/yds.	4,963 cu/yds.	5,388 cu/yds.	5,951 cu/yds.	6,597 cu/yds.	7,259 cu/yds.
Distribution	561 cu/yds.	645 cu/yds.	432 cu/yds.	1,428 cu/yds.	559 cu/yds.	227 cu/yds.
YTD. Distribution	4,249 cu/yds.	4,894 cu/yds.	5,326 cu/yds.	6,754 cu/yds.	7,313 cu/yds.	7,540 cu/yds.
Immediate Sale	1,205 cu/yds.	1,247 cu/yds.	1,428 cu/yds.	585 cu/yds.	534 cu/yds.	953 cu/yds.
Currently in Storage	1,894 cu/yds.	1,860 cu/yds.	1,853 cu/yds.	1,148 cu/yds.	1,180 cu/yds.	1,615 cu/yds.

SEPTAGE OPERATIONS

	<u>Jun. 2014</u>	<u>Jul. 2014</u>	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>
Res./Comm.	19,100 gals.	13,300 gals.	0 gals.	7,400 gals.	0 gals.	0 gals.
* Other Flow	0 gals.	0 gals.	0 gals.	0 gals.	152,000 gals.	0 gals.
CH/Potter	8,131.50 lbs/solids	12,414.09 lbs/solids	3,144.18 lbs/solids	5,204.16 lbs/solids	6,963.90 lbs/solids	1,843.14 lbs/solids
Port Matilda	1,617.96	1,768.08	1,417.80	1,551.24	1,651.32	1,451.16

	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids
Huston Twp.	817.32 lbs/solids	600.48 lbs/solids	567.12 lbs/solids	683.88 lbs/solids	617.16 lbs/solids	417.00 lbs/solids
Total Flow	88,600 gals.	100,300 gals.	39,500 gals.	72,900 gals.	227,000 gals.	37,500 gals.

6.4 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 permit. The 12-month rolling average flow for November was 4.39mgd with the average for the month being 3.97mgd. There were no inspections by DEP this month.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Nov-14	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	27,000	352,000		
Centre Hills	414,000	43,751,000	Nov-14	Nov-14
Cintas	692,000	8,404,000	62.9	55.1
Red Line	199,000	2,688,000		
Uaja Wetland	4,231,000	59,997,000		
Wetland Vault	5,770,000	5,863,000		
Kissingers	935,820	1,829,820		
Stewarts	0	15,300		
TOTAL	12,268,820	122,900,120		

Plant Maintenance

- Replaced the diaphragm in Primary Pump #6.
- Repaired lighting around the facility.
- Replaced the batteries in the Main Station generator.
- Replaced the motor bearings in MAU-1303 and the motor in MAU-1302 at Compost.
- Repaired the wiring in the control panel for Composter Dolly #2.
- Tested air flow in all the Compost Bays. Air flow was reduced and will require cleaning. This will be done over a period of time as bays become available for extended periods of time.
- Replaced the water heater in the Control Bldg.
- Technicians from AUMA were in to assist maintenance with ongoing issues with the actuators in the Tertiary Bldg. They discovered that a firmware update that was not meant for our “older” facility had been installed in the parts we were ordering. They updated the printed circuit cards and everything is working properly. This was done at no charge for their visit.
- The Headworks air monitor was calibrated. Two of the sensors were replaced.
- The 01’ Chevy was inspected and the heater motor was replaced in the 99’ Chevy.

- Replaced all the grease lines in the MUA units.

6.5 Collection System Superintendent’s Report

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

- (UA) Lateral Installations – (1) 329 Innovation Blvd.
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (39) manholes inspected- (4935) feet cleaned
- (UA) Mainline Repairs – (2) 1857 N. Atherton St.,1909 N. Atherton St.
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (24) manholes inspected- (4357) feet cleaned)
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have completed the work at the Big Hollow driveway entrance, which hopefully will help channel some of the storm water to where it needs to go rather than washing us out. We also had the entrance paved with a swale in it to help with the water movement. The 100 series pump that had shorted out has been removed. We have completed approximately 60% of the Selder’s Circle mainline replacement work in Pine Grove Mills. We have been asked by Ferguson Twp. to delay completion until spring of 2015. We also did some work with the wetland discharge pipes.

(A)CONSTRUCTION &(B)I/I INSPECTION: (A)(We TV’d 8123 ua/4375 fta feet of mainline and inspected 59 ua/24 fta MH’s .) (B)Tested/Grouted – (MH’s grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU’s).

LIFT STATION MAINTENANCE:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

We cleaned grease out of the wet wells. We rebuilt 2 E-One grinder pumps.

INSPECTION: Final As-builts Approved: None

Mainline Construction:

- a. Rocky Ridge, ph2 – We are awaiting As-built revisions.
- b. Villa1 & Villa 2 Apts. Replacement – Construction is complete. We are awaiting As-builts.
- c. Turnberry, Ph2 – Construction is approximately95% complete.
- d. The Landings, Ph1B – We are awaiting As-built revisions.
- e. Saybrook, Ph 10 - We are awaiting As-built revisions.

New Connections:

a.	Single-Family Residential	5	c.	Commercial	0	
b.	Multi-Family Residential	9	d.	Industrial	0	
					TOTAL	14

PA One-Calls Responded to 11/1-30/14: 176

6.6 Engineer’s Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS database for geospatial EDU distribution.

Big Hollow Interceptor Rehabilitation

- Contract 09-4/5/6 Big Hollow Diversion Pump Station (General, Mechanical, Electrical)

Contract Summary (as of December 11, 2014, date of Substantial Completion)

Notice to Proceed	Contract Time ¹	Substantial Completion ¹	Time Used	% Used
2/26/2013	323	1/15/2014	653	+100%

¹Contract Time and Substantial Completion Date reflect time extension in accordance with applicable Change Orders.

- Contracts 09-4, 09-5, 09-6: Big Hollow Diversion Pump Station
 - ✓ Contractor and Owner met on December 2, 2014 to discuss outstanding claims. An update will be provided at the meeting.
 - ✓ Pump station is operational.
 - ✓ Working with Contractors to relocate the floats and transducer in both wet wells.
 - ✓ A substantial completion inspection was held on December 11th at 1 PM for all Contracts.
 - ✓ Contractors to complete punchlist items.

Contract Changes (Change Orders/Work Change Directives)

The following summarizes the status of all Contract Changes requested, approved, or pending:

No.	Contract	Description	Amount	Notes
CO 4-1	GC	Delete requirement for obtaining Building Permit.	(\$20,543.11)	Executed
CO 4-2	GC	Additional Code Requirements	16,818.99	Executed
CO 4-3	GC	Shorten Factory Pump Cable Lengths	(\$9,135.00)	Executed
CO 4-4	GC	Additional Time for Rain Events	21 Days	Mediation
CO 4-5	GC	Modified Grading/Deletion of Field Controls	\$1,210.74	Time Requested
CO 4-6	GC	Relocate Sewer on north side of I-99	\$3,962.41	Executed
CO 4-7	GC	Cut through concrete encasement on 36” pipe	\$7,893.81	Executed
CO 4-8	GC	Negotiated Settlement	\$13,960.25	To Discuss
CO 6-1	EC	Add Junction Box & Wiring/Upsize main breaker	\$4,492.70	Executed
CO 6-2	EC	Provide Starters for EF-1, EF-2, and SF-1	\$ 4,168.45	Recommended
COR 4-2	GC	Upcharge for window frame color selection	\$875.00	Rejected
COR 4-4	GC	Additional Compensation for Rain Events	\$125,270.46	Rejected
COR 4-12	GC	Work Change Directive 4-4, Concrete Cutting	\$7,893.81	Recommended

COR 4-13	GC	Rain Event on August 20, 2014	\$14,749.71	Under Review
COR 4-14	GC	Rain Event on August 20, 2014 (Revised)	\$ 3,563.08	Under Review
WCD 4-5	GC	Delete Requirements for Code Required Testing	Developing	Part of Negot.

Applications for Payment

The following Applications for Payment were received and are recommended for approval:

Contr. No.	Contract	Contractor	App No.	Amount
09-4	General	Lobar, Inc.	20	\$190,110.04
09-5	Mechanical	Port Vue	--	\$ --
09-6	Electrical	Lepley Electric	--	\$ --
				\$190,110.04

The following summarizes amounts to be paid for the Substantial Completion Application and remaining retainage (1.5 x the Punchlist Value) for all Contracts:

- Contract 09-4: \$190,110.04 (Punchlist Retainage = \$35,025.00)
- Contract 09-5: \$1,175.00 (Punchlist Retainage = \$14,475.00)
- Contract 09-6: \$23,449.65 (Punchlist Retainage = \$5,400.00)

Note: This does not reflect actual application for payments received.

Constructed Wetlands

- Substantial completion granted. A final completion inspection will be conducted when requested by the contractor after all punchlist items have been completed.
- A warranty notice was issued for leaking manholes (water infiltrating into the manhole).

Applications for Payment

The following Applications for Payment were received and are recommended for approval:

Contr. No.	Contract	Contractor	App No.	Amount
14-9	General	John Nastase	-	\$--
				\$--

Contract Changes (Change Orders/Work Change Directives)

The following summarizes the status of all Contract Changes requested, approved, or pending:

No.	Contract	Description	Amount	Notes
COR 1	GC	Relocate PRV Vault due to Waterline Location	\$ 4,703.48	Executed

Selders Circle Sewer Relocation

- HRG is available as needed to assist with construction activities.

Ghaner Road Pump Station

- Record Drawings are being prepared.

Odor Control Study

An air ionization test unit was installed in the Control Room in the Dewatering Building to subjectively evaluate ionization technology. It is possible that ionization technology for odor control will be considered as an alternative as the Odor Control Study progresses.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Completed Act 129 Energy Rebate Documentation for Authority Improvements
- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Performed Modifications to SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Assisted in Discussion to Improvements to Compost Airflow Remediation

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Progress Meeting No. 3 was held on December 4, 2014 and a copy of the meeting minutes, submittal logs, etc. is attached for the Board's review.
- The Ozone Generation System has been placed into production by Contract 2014-05 (General) and is under construction. The majority of the submittal work has been completed by the Contractors for long-lead time items and is now focusing on minor items such as piping, etc.
- Demolition work is slated to begin in December 2014 in the AWT building.
- Submittals are underway for Contract 2014-06 (Mechanical) with mobilization to occur in December 2014.
- Contract 2014-07 (Electrical) has mobilized and complete minor wiring and conduit modifications.
- The date for Substantial Completion is February 21st, with 104 of the 180 days of the Contract Expired.

Payment Applications and Change Orders:

- Change Order #1 was received in the deduct amount of \$2,592.00 for Contract 2014-07 from Bob Biter Electrical Contractors, Inc. for the conversion of conduit from PVC coated RGS (specified) to match the existing EMT conduit in the AWT Building. The Change Order was requested by RETTEW, was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #1 was received in the amount of \$93,690.00 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #2 was received in the amount of \$20,452.50 for Contract 2014-07

from Bob Biter Electrical Contractors, Inc. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.

- A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	-	\$104,100.00	\$93,690.00	\$861,010.00
2014-06	\$198,500.00	-	-	-	\$198,500.00
2014-07	\$121,700.00	(\$2,592.00)	\$26,984.00	\$24,285.60	\$97,414.40

*Inclusive of Recommended Payment for this Board Report

Membrane Procurement Contract (2014-08):

- RETTEW provided Notice of Award to GCS Water Purification, LLC (Toray) in the amount of \$158,995.00 for Contract 2014-08. Executed Contract Documents are due by December 16, 2014.

6.8 Executive Director’s Report

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

Regional Organic Collection

Mr. Miller informed the Board that there is going to be an alternate drop off site for brush that is collected with grinding being performed at that location. UAJA will be paying for the grinding.

Water Conservation

Mr. Miller informed the Board that Mr. Tom Songer is working on a plan for the entire region under the guidelines of the EPA plan. Mr. Ebaugh volunteered to be part of this committee.

7. Other Business

8. Adjournment

The meeting was adjourned at 5:30 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – January 21, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:05 p.m. Wednesday, January 21, 2014. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, Schmalz, and Spac; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; Dick Campbell and David Gaines, Solicitor; Doug Weikel and Ben Burns, Consulting Engineers; Jason Wert and Chris Underwood, RETTEW; Eric Vorwald, Center Region; and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – December 17, 2014

**UAJA
Meeting Minutes
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Lapinski, to approve the minutes of the UAJA meeting held on December 17, 2014 as submitted. The motion passed unanimously.

3. 2015 Board Reorganization

Mr. Schmalz turned the meeting over to Mr. Miller to begin the election of officers.

Election of Officers

A motion was made by Mr. Ebaugh, seconded by Mr. Dempsey, to elect Mr. Schmalz as Chairman. The motion passed unanimously. Mr. Miller turned the meeting back over to Mr. Schmalz for the remaining election of officers.

Election of Officers

A motion was made by Mr. Ebaugh, seconded by Mr. Lapinski, to re-elect all other officers to the same positions that they held in 2014 as follows: Mr. Lapinski – Vice-Chairman; Mr. McShea – Treasurer; Mr. Dempsey – Secretary; Mr. Guss – Assist. Treasurer; Mr. Dietz – Assist. Secretary. The motion passed unanimously.

**Staff and Advisors
Appointed**

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve all staff and advisors as follows: Mr. Cory Miller, Executive Director; Miller, Kistler & Campbell, Solicitor; Herbert, Rowland and Grubic, Consulting Engineers; Mette, Evans & Woodside, Bond Council; Maher Duessel, Auditor; First National Bank, Depository General Fund and Payroll Fund; Pennsylvania Local Government Investment Trust, Depository Investment Fund; US Bank, Trustee. The motion passed unanimously.

4. Public Comment

None.

5. Old Business

5.1 Open Records Policy Schedule of Fees

Each year UAJA needs to adopt a schedule of fees associated with our Open Records Policy. This fee schedule is shown below (as a side note, this law does not allow for a retrieval fee):

1. Fees for the actual cost of mailing.
2. 25 cents per single-sided page for duplication.
3. Reasonable fees to cover other types of actual costs such as data conversion, electronic access, etc.

**Open Records Policy
Schedule of Fees
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Ebaugh, to approve the Open records Policy Schedule of Fees as presented. The motion passed unanimously.

5.2 Meeting Dates for 2015

Proposed 2015 meeting dates are provided below. Staff will advertise upon approval.

February 18, 2015
March 18, 2015
April 15, 2015
May 20, 2015
June 17, 2015
July 15, 2015
August 19, 2015
September 16, 2015
October 21, 2015
November 18, 2015
December 16, 2015
January 20, 2016

**2015 Meeting Date
Schedule
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Ebaugh, to approve the meeting schedule for 2015 as presented. Motion passed unanimously.

6. New Business

6.1 Parameters Resolution for Refunding Series 2010 Bonds – Resolution 15-1

As discussed at the November 2014 meeting, the Series 2010 bonds are eligible for refunding. Based on current rates, it is likely that refunding will result in savings. The parameters resolution

sets a minimum savings goal for the refunding. If the refunding will result in savings at least equal to the parameters in the resolution, staff and consultants are directed to refund the bonds.

**Resolution
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Spac, to approve Resolution 15-1 The motion passed unanimously.

6.2 Requisitions

BRIF #136	HRG Odor Control Study Pay App #3	\$5,784.95
BRIF #137	HRG Ghaner Pump Station SCADA coordination	\$180.00
BRIF #138	Rettew SHAWT Engineering Inv #79082	\$5,800.00
BRIF #139	Dale Summit Acquisitions January Lease Pymt.	\$25,000.00
BRIF #140	M2 Construction SHAWT Pay App #2	\$82,988.10
BRIF #141	Bob Biter Electrical SHAWT Pay App #3	\$23,558.76
BRIF #142	M & T Bank Payment 2 of 3 Liebherr Track Loader 3 year lease to own	\$75,995.76
BRIF #143	IC & EE Ghaner 1 SCADA Invoice 454	\$2,245.12
BRIF #144	IC & EE Big Hollow SCADA Invoice #457	\$2,339.05
BRIF #145	UAJA Reimburse General Fund for Capital purchases 2014	\$207,876.01

**Requisitions
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. Dietz, to approve the BRIF Requisitions #136-145. The motion passed unanimously.

7. Reports of Officers

7.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending December 31, 2014.

7.2 Chairman’s Report

Mr. Schmalz reported that he has had informal discussions with Mr. Ebaugh regarding the hypothetical case where Penn State would transfer flow to UAJA. Mr. Schmalz asked the Board to think about what form Penn State's representation on the UAJA Board would take if this hypothetical scenario ever happened. Would Penn State be a full voting member or would there be a non-voting liason? The Municipal Authorities Act would need to be consulted.

7.3 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>Jul. 2014</u>	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>
Production	613 cu/yds.	425 cu/yds.	563 cu/yds.	646 cu/yds.	662 cu/yds.	653 cu/yds.
YTD. Production	4,963 cu/yds.	5,388 cu/yds.	5,951 cu/yds.	6,597 cu/yds.	7,259 cu/yds.	7,912 cu/yds.
Distribution	645 cu/yds.	432 cu/yds.	1,428 cu/yds.	559 cu/yds.	227 cu/yds.	285 cu/yds.
YTD. Distribution	4,894 cu/yds.	5,326 cu/yds.	6,754 cu/yds.	7,313 cu/yds.	7,540 cu/yds.	7,825 cu/yds.
Immediate Sale	1,247 cu/yds.	1,428 cu/yds.	585 cu/yds.	534 cu/yds.	953 cu/yds.	1,330 cu/yds.
Currently in Storage	1,860 cu/yds.	1,853 cu/yds.	1,148 cu/yds.	1,180 cu/yds.	1,615 cu/yds.	1,983 cu/yds.

SEPTAGE OPERATIONS

	<u>Jul. 2014</u>	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>
Res./Comm.	13,300 gals.	0 gals.	7,400 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	0 gals.	0 gals.	0 gals.	152,000 gals.	0 gals.	102,000 gals.
CH/Potter	12,414.09 lbs/solids	3,144.18 lbs/solids	5,204.16 lbs/solids	6,963.90 lbs/solids	1,843.14 lbs/solids	5,550.27 lbs/solids
Port Matilda	1,768.08	1,417.80	1,551.24	1,651.32	1,451.16	1,634.64

	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids
Huston Twp.	600.48 lbs/solids	567.12 lbs/solids	683.88 lbs/solids	617.16 lbs/solids	417.00 lbs/solids	467.04 lbs/solids
Total Flow	100,300 gals.	39,500 gals.	72,900 gals.	227,000 gals.	37,500 gals.	162,500 gals.

7.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for December was 4.34mgd with the average for the month being 3.94mgd. There were no inspections by DEP this month.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Dec-14	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	27,000	379,000		
Centre Hills	0	43,751,000	Dec-14	Dec-14
Cintas	865,000	9,269,000	57.8	53.6
Red Line	349,000	3,037,000		
Uaja Wetland	4,990,000	64,987,000		
Wetland Vault	17,560,000	23,423,000		
Kissingers	1,316,000	3,145,820		
Stewarts	0	15,300		
TOTAL	25,107,000	148,007,120		

Plant Maintenance

- Replaced the diaphragm in Primary Pumps #5 and #11.
- The skimmer arm on Secondary Clarifier caught on the guide rail and will be off line until repair is made.
- Roy Brooks Welding repaired the Headworks Transfer Auger.
- Replaced the belts on Tuthill Blower #1.
- The starter panel for Centrifuge #2 failed. An Alfa Laval/ABB technician was called in to make repairs. There were bad PLC’s, fiber optic and fiber converter issues that were addressed. The bad parts will be sent out for repair as the current parts being used are obsolete.
- Replaced the thermostat control for the MF CIP Tank heater.
- Replaced the process air spool on MF#2.
- The engine in the Cat skid steer at Compost had a major failure and is being replaced. This was a capitol budget item.
- Began cleaning the air laterals in the Compost Bays. Andy Breon and I would like to thank the Collections staff for supplying manpower in assisting plant maintenance on this project. This project is expected to last several months.

7.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (0)
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (68) manholes inspected- (11,759) feet cleaned
- (UA) Mainline Repairs – (0)
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have completed approximately 60% of the Selder’s Circle mainline replacement work in Pine Grove Mills. We have been asked by Ferguson Twp. to delay completion until spring of 2015. Helped with labor work at the Compost Building, cleaning the bays for air circulation repairs. Did some equipment maintenance.

(A)Construction &(B)I/I Inspection(A)(We TV’d 3924 ua/0 fta feet of mainline and inspected 29 ua/0 fta MH’s .) **(B)Tested/Grouted** – (MH’s grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0 /) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU’s).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

We cleaned grease out of the wet wells. We rebuilt 3 E-One grinder pumps. Completed oil changes at all stations. Had routine Mtce done on all stand-by gen-sets.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

- a. Rockey Ridge, ph2 – We are awaiting As-built revisions.
- b. Villa1 & Villa 2 Apts. Replacement – Construction is complete. We are awaiting As-builts.
- c. Turnberry, Ph2 – We are awaiting As-built revisions.
- d. The Landings, Ph1B – We are awaiting As-built revisions.
- e. Saybrook, Ph 10 - We are awaiting As-built revisions.

New Connections:

a.	Single-Family Residential	26	c.	Commercial	2	
b.	Multi-Family Residential	4	d.	Industrial	0	
					TOTAL	32

PA One-Calls Responded to 12/1-31/14: 143

7.6 Engineer’s Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS data base for geospatial EDU distribution.
- The Cottages – Provided wastewater flow and capacity information to support the completion of a Planning Module for this proposed development.

Big Hollow Interceptor Rehabilitation

- Contract 09-4/5/6 Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
 - ✓ All Contracts were issued a certificate of substantial completed, dated December 11, 2014. Contractors are working to finalize punchlist items and provide closeout documentation.
 - ✓ Schedule: All Contracts are to be ready for final completion on or before January 25, 2015.
 - ✓ Certificate of Use and Occupancy issued by Centre Region Code Administration.
 - ✓ Contract 09-4 submitted a final application for payment (\$35,025.00); however, it is not recommended for approval until all punchlist items have been completed and Final Completion is reached.

Constructed Wetlands

- Substantial completion granted. A final completion inspection will be conducted when requested by the contractor after all punchlist items have been completed.
- A warranty notice was issued for leaking manholes (water infiltrating into the manhole). The Contractor attempted to complete these repairs; however, active infiltration was not observed. The Contractor will complete these repairs in the spring when groundwater levels are higher.
- The orifice plates were delivered and will be installed to help balance water flow.

Selders Circle Sewer Relocation

- HRG is available as needed to assist with construction activities.

Ghaner Road Pump Station

- Record Drawings have been prepared and submitted to UAJA staff for review.

Odor Control Study

The HRG/Material Matters team will meet with UAJA staff on January 20th at 2:30 PM to review data and discuss the upcoming and final sampling event.

7.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Assisted in Discussion to Improvements to Compost Airflow Remediation

- Assisted in the Procurement of Liquid Oxygen Supply Contract for Facility

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Progress Meeting No. 4 was held on January 8, 2015 with no major issues or conflicts identified.

Authority and RETTEW have stressed overall schedule to the Contractors.

- The Ozone Generation System has been placed into production by Contract 2014-05 (General) and is under construction. The majority of the submittal work has been completed by the Contractors for long-lead time items and is now focusing on minor items such as piping, etc.
- Demolition work has begun in the Dewatering Building and AWT Building.
- Pump Replacement and Chlorine System Installation are planned for January 2015.
- Submittals are underway for Contract 2014-06 (Mechanical) with mobilization to occur in January 2015.
- Contract 2014-07 (Electrical) has mobilized and complete minor wiring and conduit modifications and Adjustable Frequency Drive demolition in the Aeration System.
- The date for Substantial Completion is February 21st, with 135 of the 180 days of the Contract Expired.

Payment Applications and Change Orders:

- Payment Application #2 was received in the amount of \$82,988.10 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #3 was received in the amount of \$23,558.76 for Contract 2014-07 from Bob Biter Electrical Contractors, Inc. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.

- A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	-	\$196,309.00	\$176,678.10	\$778,021.90
2014-06	\$198,500.00	-	-	-	\$198,500.00
2014-07	\$121,700.00	(\$2,592.00)	\$53,160.39	\$47,844.36	\$71,263.64

*Inclusive of Recommended Payment for this Board Report

Membrane Procurement Contract (2014-08):

- RETTEW provided Executed Contract Documents to GCS Water Purification, LLC (Toray) in the amount of \$158,995.00 for Contract 2014-08. A Preconstruction Conference is schedule for the week of January 28th and membranes should arrive in April after commissioning and startup of the Ozone System.

7.8 Executive Director’s Report

Reuse Water

Mr. Miller stated that a meeting has been scheduled with the Council of Governments and local State government elected officials to discuss changing the label of reuse water from sewage to water.

Ag Zoning

Mr. Miller stated that there was no update at this time but Clearwater Conservancy is looking at possibly partnering to protect the land.

Mr. Lapinski asked Mr. Miller to prepare a list of bullet points of the UAJA happening for the 2014 year. This list will be available to any board member for their presentations at their respective Municipalities.

8. Other Business

9. Adjournment

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

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – February 18, 2015

1. Call to Order

Mr. Lapinski, Vice-Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:05 p.m. Wednesday, February 18, 2014. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, McShea and Nucciarone; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; David Gaines, Solicitor; Ben Burns & Dave Swisher, Consulting Engineers; Jason Wert and Chris Underwood, RETTEW; Eric Vorwald, Center Region; Mark Whitfield, State College Borough; Tom Songer and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – January 21, 2015

UAJA
Meeting Minutes
Approved

A motion was made by Mr. Dempsey, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on January 21, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1. Contract #2015-01 Aluminum Sulfate

Bids were opened February 10, 2015 for Contract 2015-01 Aluminum Sulfate. The bids received were:

<i>USALCO</i>	<i>\$283.49/dry ton</i>
Thatcher	\$293.00/dry ton
Chemtrade	\$312.90/dry ton
Main Pool	\$399.00/dry ton
Holland	\$475.15/dry ton

Contract #2015-01
Approved

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to award Contract #2015-01 to USALCO for \$283.49 per dry ton of Aluminum Sulfate. The motion passed unanimously.

4.2 Contract #2015-02 Sodium Hydroxide

Bids were opened February 10, 2015 for Contract 2015-02 Sodium Hydroxide. The bids received were:

<i>UNIVAR</i>	<i>\$2.2268/gal.</i>
Main Pool	\$2.24/gal
Barbers Chemical	\$3.249/gal

**Contract #2015-02
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Nucciarone, to award the contract to Univar for \$2.2268 per gallon for Sodium Hydroxide. Motion passed unanimously.

4.3 Contract #2015-03 Equipment Rental

Bids were opened February 10, 2015 for Contract 2015-03 Equipment Rental, for a hydraulic excavator. The bids received were:

GROFF TRACTOR \$4750.00/mo
Hertz \$5900.00/mo
Cleveland Brothers \$8593.00/mo

Recommendation: Award the contract to Groff Tractor for \$4,750.00 per month.

**Contract #2015-03
Approved**

A motion was made by Mr. Guss, seconded by Mr. Dempsey, to award the contract to Groff Tractor For \$4,750 for a hydraulic excavator. Motion passed unanimously.

4.4 Contract #2015-04 Paving

Bids were opened February 10, 2015 for Contract 2015-04 Paving. The bids received were:

Trench Paving:

MID STATE PAVING \$73.90/sq yd
H&R Excavating \$74.95/sq yd
Hawbaker \$95.45/sq yd
Ameron \$182.40/sq yd

Base Paving:

H&R EXCAVATING \$60.25/sq yd
Mid State Paving \$64.00/sq yd
Hawbaker \$78.85/sq yd
Ameron \$81.50/sq yd

**Contract #2015-04
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to award the contract to contract to Mid State Paving for Trench Paving at \$73.90 per sq/yard and to H&R Excavating for Base Paving at \$60.25 per sq/yard. Motion passed unanimously.

4.5 Final Design: Highwoods at Toftrees

Final design drawings for the Highwoods at Toftrees sewer extension (Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 96 EDU's of multi family homes. The review comments have been addressed.

**Final Design
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. Nucciarone, to approve the Final Design: Highwoods at Toftrees. Motion passed unanimously.

4.6 Resolution 15-2 Continuing Disclosure

This resolution is required for compliance with Securities and Exchange Commission Rules and Regulations. It describes our financial reporting requirements, who is responsible, and requires training. By adopting this resolution, UAJA will be in compliance with SEC regulations. The only cost that may be incurred as a result of this resolution are for training requirements, and will be minimal. The resolution is included in the agenda packet.

**Resolution 15-2
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve Resolution 15-2. Motion passed unanimously.

4.7 Penn State University Request for Service – Proposed Water Treatment Plant

PSU has requested consideration for sewer service to the proposed PSU water treatment plant. The service would be for domestic sewage only, and would not include any process wastewater. There is an existing service lateral to the Mushroom Test Demonstration Facility which is proposed to be used. The MTFD is to be demolished. The water treatment plant is expected to have an increased flow (more EDU's) than the MTFD.

In the past, UAJA has allowed connections by PSU to the UAJA system based on the map of the sewer service area included in the Act 537 Plan, which shows all of PSU to be inside the sewer service area. While it is inside, no allowances for capacity at UAJA were included in the Act 537 Plan, thus service to PSU most likely would require modification to the Act 537 Plan.

It is the consensus of the Board to refer the request to the Centre Region Council of Governments for clarification.

4.8 Tom Songer – Volumetric Billing, Tapping Fee, and Water Conservation

Tom Songer would like to address the Board concerning our rate structure for commercial properties and tapping fees. He would like to know if UAJA is willing to work with him and his associates to develop a rate schedule that is fair and reasonable for both user fees and tapping fees.

In 2006 the matter of developing a comprehensive water conservation program was addressed by the Board and referred to the Centre Region Council of Governments. COG took action asking the CBICC to lead the development of that plan according to the EPA guidance for Water Conservation Planning. The focus at that time was on water conservation. Recommendations for

changes to the region’s water and sewer rate structures would be included in the water conservation plan.

This most recent focus appears to be on the topic of fair and reasonable rates, rather than water conservation. The UAJA rate structure is fair and reasonable, and is not unique. There are other authorities and sewer systems using similar capacity based sewer rental rate structures. The rent has never been related to actual sewer discharge, just as the rent of a particular office building is not related to the actual usage of the building.

Mr. Songer read the following correspondence:

For more than 13 years, my associates and I have asked this board to investigate the issue of how all customers of UAJA should be charged for sewer service and tapping fees. In addition, UAJA with input from other stakeholders should develop a plan to educate the general public on water conservation. My associates and I have been before this board on numerous occasions and have made presentations to the Public Services and Environmental Committee of COG and to COG on this issue.

Furthermore, we met with Jennifer Suhey and Steve Miller of Clearwater Conservancy on this issue, and you received correspondence from Jennifer dated September 4, 2003 and September 2, 2014. In Jennifer’s most recent letter, she stated: “In general, we continue to encourage water conservation by homeowners and businesses. We understand that changing community attitudes and individual actions is an educational effort that can take years to bear fruit. It is also a message that should come from a variety of directions and motivations. Financial incentives are always good to consider as one piece of the puzzle. We therefore request that UAJA once again consider this type of comparative billing analysis, as well as considering other potential billing structures that may also be viable alternatives for this community if appropriate.”

*The Municipal Authorities Act, Chapter 56 Section 5607, (d)(9) states that every authority has the power “To fix, alter, charge and collect rates and other charges in the area served by its facilities at reasonable and uniform rates...” The keywords in this statement are that rates are to be **reasonable and uniform**.*

In our opinion, the UAJA Rate Resolution does not provide for Reasonable and Uniform Rates. Some examples that illustrate this are:

- *How does the number of automobile bays relate to how much sewage is generated. Two bays or fewer pay 2 EDUs and every bay greater than 2 pays one-half.*
- *Bowling Alleys pay 1 EDU per 6 lanes. How does this relate to sewer usage?*
- *Restaurants pay 1 EDU per 15 seats with no account for how long they are open or if it is primarily paper service. Is it a conference center or meeting rooms with variable seating?*
- *Retail Food stores pay 1 EDU for each food prep station, each deli, each bakery, each pharmacy, etc.*
- *Cooling towers with a drain to sewer are charged 1 EDU (unless volume warrants higher charge). A meter would have to be installed to measure the discharge and compare this to 175gpd/EDU.*
 - *Medical offices have many patients who may use the restroom facilities. Sewer service is based on the number of employees in the practice and doesn’t take into account the patients who use the restroom facilities.*
- *Large retail stores like Walmart, Lowes, Giant Food, etc., have a many customers who use their restroom facilities but their sewer charge is based on the number of employees plus additional uses such as a deli, bakery, etc.*
- *Within an office building, how can 10 businesses that employ one person each pays 10 EDUs for sewer service, but if within the same building there is one business with 10 people, it pays 1 EDU? That difference in billing is 9 EDUs or more than \$3,700 per year for the same number of people within the building.*
- *Section 3.3 Volume Surcharges of the Rate Resolution states: “This Authority reserves the right to impose a volume surcharge and/or to revise the Equivalent Dwelling Unit classification for any improved property discharging domestic and/or industrial wastewater into the wastewater collection system in excess of a total flow of 175 gallons per day per EDU. The volume surcharge will be based upon the EDU treatment rate currently in place.” In order to implement this surcharge, UAJA would have to check all of the water bills and compare them to the number of EDUs that are being billed to see if a surcharge should be billed. Is this being done for all commercial accounts?*
- *I have obtained water usage figures for individual single-family, detached homes within the UAJA service area served by State College Borough Water Authority. There are more than 90 homes that use between 124,000 and 240,000 gallons of water per year. As stated above, an EDU uses 175 gpd, which is*

about 16,000 gallons per quarter or 64,000 gallons per year. Why shouldn't homes that use more than the equivalent of 1 EDU of water be charged for their excess sewage?

*I have personally spoken to many people in the UAJA service area on this issue. The people with whom I have spoken include single-family homeowners, professional engineers, consultants who do rate studies, owners of medical facilities, hotel operators, investment property owners, etc. Everyone with whom, I have spoken wants to pay a fair rate for their sewer service that meets the requirement of the PA Municipal Authorities Act, which, as I previously indicated, states that rates are to be **reasonable and uniform**. In addition, people believe that all users need to be better educated on what they can do to conserve water in their homes and businesses. We could begin with encouraging all residents and businesses to replace all 5-gallon toilets with 1.6 gallon or 1.2 gallon flush toilets.*

UAJA bills the Borough of State College based on metered sewage flow. The Borough of State College bills all of its customers for sewer service based on actual water meter readings. Residential and non-residential customers are billed at the same rate. Water usage in the Borough has been reduced by 17% in the last 15 years even though the Borough has grown in population. By incentivizing Borough residents and businesses to save water, they have reduced water usage and have been able to keep their sewer budget balanced. In addition the Borough of State College charges a sewer tapping fee based on anticipated water usage which will determine the number of EDU's of tapping fee that will be charged.

Additionally, in doing my research, I found that, at one point, UAJA, CHJA and PFJA did commission a study of how these authorities should charge for sewer service. This was done when Dave Allison was the Executive Director. What happened with this study?

Proposal for UAJA's consideration

1. *On behalf of my associates and myself, I would like to request that the UAJA board agree to do a professional study of how charges by UAJA for sewer service and for tapping fees should be done and how the users of the UAJA system could be encouraged to use less water.*
2. *A special committee should be formed. It should consist of three people from the UAJA Board, three people from the private sector, and Cory Miller. Pat Ward, Steve Balkey and I would like to represent the private sector. Pat and Steve are both registered professional engineers and are both residential customers of UAJA.*
3. *The committee will solicit proposals from qualified professionals to do the study to determine how all customers should be billed for sewer service and for tapping fees. The committee would review all of the proposals and develop a short list of three (3) firms that would be interviewed by the committee. The committee would then recommend to the UAJA board which consultant should be retained to do the study.*
4. *The committee would meet with the consultant during the course of the study to review the consultant's progress.*
5. *I want the minutes of this meeting to reflect that we are willing to work with UAJA to address the concerns that we have raised but we believe we need to be at the table with UAJA and the consultant who would be retained so that we can give our input.*
6. *If UAJA does not intend to do a study as I have suggested then please let me know on or before your next board meeting on March 18, 2015 as my associates and I will begin to do what we need to do.*

5. New Business

5.1 Requisitions

BRIF #146	HRG Odor Control Study Pay App #4	\$1,584.57
BRIF #147	Rettew SHAWT Engineering Inv #83214	\$2,900.00
BRIF #148	Dale Summit Acquisitions February Lease Pymt.	\$25,000.00

BRIF #149	M2 Construction SHAWT 14-05 Pay App #3	\$25,050.60
BRIF #150	M2 Construction SHAWT 14-06 Pay App #1	\$52,387.20
BRIF #151	Bob Biter Electrical SHAWT 14-07 Pay App #4	\$48,690.41
BRIF #152	IC & EE Ghaner 1 SCADA Invoice 466	\$1,732.13

**Requisitions
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. McShea, to approve the BRIF Requisitions #146-152. The motion passed unanimously.

Rev Fund # 137	Debt Service, Operation & Maintenance	\$1,000,000
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**Requisition
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve Revenue Fund requisition # 137 in the amount of \$1,000,000. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending January 31, 2015.

6.2 Chairman’s Report

None

6.3 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>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>
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YTD. Distribution	5,326 cu/yds.	6,754 cu/yds.	7,313 cu/yds.	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.
Immediate Sale	1,428 cu/yds.	585 cu/yds.	534 cu/yds.	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.
Currently in Storage	1,853 cu/yds.	1,148 cu/yds.	1,180 cu/yds.	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.

SEPTAGE OPERATIONS

	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>
Res./Comm.	0 gals.	7,400 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	0 gals.	0 gals.	152,000 gals.	0 gals.	102,000 gals.	33,000 gals.
CH/Potter	3,144.18 lbs/solids	5,204.16 lbs/solids	6,963.90 lbs/solids	1,843.14 lbs/solids	5,550.27 lbs/solids	2,339.37 lbs/solids
Port Matilda	1,417.80 lbs/solids	1,551.24 lbs/solids	1,651.32 lbs/solids	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids
Huston Twp.	567.12 lbs/solids	683.88 lbs/solids	617.16 lbs/solids	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids
Total Flow	39,500 gals.	72,900 gals.	227,000 gals.	37,500 gals.	162,500 gals.	69,500 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for January was 4.28mgd with the average for the month being 4.06mgd. The monthly **influent** flow was 4.78mgd. There were no inspections by DEP this month. Treatment units on line are as follows: primary clarifiers #3, #4, #5 and #6; aeration basins #1 and #2; secondary clarifiers’ #1, #2 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Jan-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	30,000	30,000		
Centre Hills	0	0	Jan-15	Jan-15
Cintas	689,000	689,000	54.2	50.1
Red Line	326,000	326,000		
Uaja Wetland	4,777,000	4,777,000		
Wetland Vault	9,853,000	9,853,000		
Kissingers	797,000	797,000		
Stewarts	0	0		
TOTAL	16,472,000	16,472,000		

Plant Maintenance

- Stockers repaired the transmission linkage in the S-10 Chevy.
- Replaced the idler sprocket on the skimmer drive for Primary Tank #4.
- Aeration Basin Mixer AM-501 failed and was replaced with a spare mixer.
- The explosion-proof heater in the screen room of Septage Receiving has failed and will be replaced. New heaters are on order and will arrive in March.
- Repaired the control circuit to WAS Pump #3.
- The motor drive belts were replaced on MAU-1301 at Compost.
- Repaired the water solenoid for Bay 5 at Compost.
- Repaired the bay blowers in Bay 11 Zones D and E.
- We continue removing the old wood chips and cleaning the laterals in the Compost Bays.
- Repaired the drive shaft coupling on Knight Mixer #1.
- Replaced the lower auger bearing and #80 chain in Knight Mixer #2.
- The Maylie Property was inspected by Code and there are several items that were addressed and will need re-inspected to pass.
- Staff members from Maintenance and Collections continue to attend an extensive 5 week electrical training at CPI.

6.5 Collection System Superintendent's Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (0)
- (UA) Lateral Repairs – (3) 1321 N. Atherton St., 1201 Oakridge Ave., 108 Creekside Dr.
- (UA) Mainline Cleaning – (53) manholes inspected- (9,423) feet cleaned
- (UA) Mainline Repairs – (4) 1408 N. Atherton St.(PNC Bank)
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (4) manholes inspected- (827) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have been doing snow removal and equipment maintenance. We helped with labor work at the Compost Building, cleaning the bays for air circulation repairs.

(A)Construction &(B)I/I Inspection: (A)(We TV'd 0 ua/0 fta feet of mainline and inspected 0 ua/0 fta MH's .) (B)Tested/Grouted – (MH's grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0 /) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

Several of our staff are taking an electrical class at CPI.

Inspection: Provisional As-builts Approved: The Landings, Ph1B / Rockey Ridge, Ph2

Mainline Construction:

- a. Villa1 & Villa 2 Apts. Replacement – We are reviewing As-builts.
- b. Turnberry, Ph2 – We are awaiting As-built revisions.
- c. Saybrook, Ph 10 - We are awaiting As-built revisions.

New Connections:

a.	Single-Family Residential	11	c.	Commercial	1	
b.	Multi-Family Residential	1	d.	Industrial	0	
					TOTAL	13

PA One-Calls Responded to 1/1-31/15: **173**

6.6 Engineer's Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS databaseforgeospatial EDU distribution.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4/5/6 Big Hollow Diversion Pump Station (General, Mechanical, Electrical)All Contracts are still working to complete the punchlist items, and provide closeout documentation. Final applications have been submitted but are not recommended at this time.

Constructed Wetlands

- Substantial completion granted. A final completion inspection will be conducted when requested by the Contractor after all punchlist items have been completed.
- A warranty notice was issued for leaking manholes (water infiltrating into the manhole). The Contractor attempted to complete these repairs; however, active infiltration was not observed. The Contractor will complete these repairs in the spring when groundwater levels are higher.
- The orifice plates were delivered and will be installed to help balance water flow.

Selders Circle Sewer Relocation

- HRG is available as needed to assist with construction activities.

Ghaner Road Pump Station

- Record Drawings have been prepared and submitted to UAJA staff for review.

North Allen Street Backlot Sewer Replacement

- Final Record Drawings have been delivered.

Odor Control Study

- The HRG/Material Matters team met with UAJA staff, and have planned for the final sampling event to occur when the weather conditions are suitable.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Progress Meeting No. 5 was held on February 5, 2015 with no major issues or conflicts identified.
- Authority and RETTEW have stressed overall schedule to the Contractors and the project is progressing. A copy of the minutes is attached.
- The Ozone Generation System has been placed into production by Contract 2014-05 (General) and is under construction. The majority of the submittal work has been completed by the Contractors for long-lead time items and is now focusing on minor items such as piping, etc.
- Demolition work has been completed in the Dewatering Building and AWT Building.
- A shutdown has been completed for the installation of the Ozone Contactor and the AWT system was placed back into service on February 12th. The Ozone Contactor is in use, with the flow path for the RO process passing through it. Once installation of the Ozone Generations System is completed, the unit will be placed into service.
- The sludge pumps and macerators have arrived and will begin installation the week of February 16th.
- Contract 2014-06 (Mechanical) has mobilized and has completed demolition in the AWT and Tertiary Filter Buildings and begun installation of the new dehumidification and cooling systems.
- Contract 2014-07 (Electrical) has completed all of the minor wiring and conduit modifications and
- installed the new Adjustable Frequency Drives in the Aeration System and Secondary Sludge Pumping Building.
- The date for Substantial Completion is February 21st, with 177 of the 180 days of the Contract Expired.

Payment Applications and Change Orders:

- Payment Application #3 was received in the amount of \$25,050.60 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #1 was received in the amount of \$52,387.20 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #4 was received in the amount of \$48,690.41 for Contract 2014-07 from Bob Biter Electrical Contractors, Inc. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Change Order #1 was received in the additive amount of \$5,411.00 for Contract

2014-05 from M2

- Construction, LLC for installation of bollards around the Liquid Oxygen Storage Tank and Vaporizer.
- The bollards were requested by the Liquid Oxygen supplier (Airgas) for the Authority and is in
- conjunction with the deletion of a fence in Change Order #2. The Change Order was requested by
- RETTEW, was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Change Order #2 was received in the deductive amount of \$3,000.00 for Contract 2014-05 from M2
- Construction, LLC for the deletion of fencing around the Liquid Oxygen System and Vaporizer. The bollards (Change Order #1) were requested by the Liquid Oxygen supplier (Airgas) for the Authority in lieu of fencing, so the fencing was deleted. The Change Order was requested by RETTEW, was received and reviewed by UAJA and RETTEW and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	-	\$224,143.00	\$201,728.70	\$752,971.30
2014-06	\$198,500.00	-	\$58,208.00	\$52,387.20	\$146,112.80
2014-07	\$121,700.00	(\$2,592.00)	\$101,615.55	\$96,534.77	\$22,573.23

*Inclusive of Recommended Payment for this Board Report

Membrane Procurement Contract (2014-08):

RETTEW provided Executed Contract Documents to GCS Water Purification, LLC (Toray) in the amount of \$158,995.00 for Contract 2014-08. A Preconstruction Conference is scheduled for February 16th and membranes should arrive in April after commissioning and startup of the Ozone System.

6.8 Executive Director’s Report

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

Bond Refinancing

The Series 2010Bonds are in the process of being refinanced. The rates for the new bonds have been set, and the closing is March 3rd. The net result of the refinancing will be \$1,03,802 in savings to the Authority over the period from 2015 to 2028. A summary of the bond sale was included in the agenda packet.

7. Other Business

Executive Session

A motion was made by Mr. Dempsey , seconded by Mr. McShea, to adjourn to an executive session at 4:45 p.m. The motion passed unanimously.

8. Adjournment

The meeting was adjourned at 5:30 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – March 18, 2015

1. Call to Order

Mr. Dempsey, Secretary, called the scheduled meeting of the University Area Joint Authority to order at 4:05 p.m. Wednesday, March 18, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, McShea, Nucciarone, Spac and Ms. Prestia; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; David Gaines, Solicitor; Tom Holleran and Dave Swisher, Consulting Engineers; Chris Underwood, RETTEW; Eric Vorwald and Sharon Bressler, Center Region; residents from around the plant area and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – February 18, 2015

UAJA Meeting Minutes Approved
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A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on February 18, 2015 as submitted. The motion passed unanimously.

3. Public Comment

Several residents from the Independence Place and Birchtree Court area were in attendance to discuss odor issues. Residents explained the impact odor was having on their communities. These concerns included the quality of life and the impact that the odor had on both residential and commercial properties. Mr. Miller updated the steps that have been completed by UAJA to mitigate odor problems. This included cleaning the bio filters and repairing a valve that was allowing odors to bypass the biofilter. UAJA is also conducting an Odor Study which will identify steps that will need to be taken to better control odors from the plant. This study should be completed in August 2015.

4. Old Business

4.1. Contract #2015-05 Automated TOC Analyzer

Bids were opened March 9, 2015 for Contract 2015-05. The bids received were:

Teledyne	\$21,238.00 (non-responsive)
<i>OI Analytical</i>	\$25,959.65
Teledyne	\$27,301.00
Shimadzu	\$34,921.35
Shimadzu	\$36,543.15

Contract #2015-05 Approved

A motion was made by Mr. McShea, seconded by Mr. Dietz, to award Contract #2015-05 to OI Analytical for \$25,959.65. The motion passed unanimously

4.2 Water Conservation and Volumetric Billing

Continued discussion on water conservation and volumetric billing. No action taken.

4.3 Final Design: The Gates Phase II

Final design drawings for the Gates Phase II sewer extension (Harris Township) have been

received and reviewed by staff and our consulting engineer. The sewer extension will serve 40 EDU's of multi family homes. The review comments have been addressed.

**Final Design
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Spac, to Approve the Final Design: The Gates Phase II. Motion passed unanimously.

4.4 Update of UAJA Standard Specifications

UAJA's Standard Specifications have not been updated for more than ten years.

Many of the material specs are obsolete, specifying materials that are no longer available. This project was not considered in the 2015 budget, because at the time it appeared to be a low cost project. What was believed to be a minor editing project, on closer review requires a substantial re-write. HRG has prepared a proposal to update the specifications. Staff recommends updating the entire specification package for a cost of \$27,100.

The work schedule includes time for developers and engineers in the region to provide input to the process. Once the work is completed, the specifications will need to be adopted by the Board.

This project does not have a line item in the budget. Staff proposes to pay for it through the Miscellaneous Outside Services line item, which will most likely over spend that line item.

**Update Specifications
Approved**

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to approve the HRG proposal to update the UAJA Standard Specifications for a cost of \$27,100. Motion passed unanimously.

5. New Business

5.1 National Fish and Wildlife Federation Grant Application

The National Fish and Wildlife Federation (NFWF) has announced a round of grants specifically targeted for the Chesapeake Bay watershed. The grants are up to \$50,000 for "Technical Capacity". The idea is to improve a community's approach to watershed restoration.

Phase III of the reuse project describes the use of the beneficial reuse water for environmental enhancement in the Slab Cabin Run Basin between Atherton Street and Pine Grove Mills. UAJA needs to know where the reuse water should go to have the greatest impact. The grant funds would be used to determine what Slab Cabin Run was like before human disturbance, and describe projects to improve the stream. By including beneficial reuse as part of the evaluation, UAJA should be provided with the best locations for using the water to benefit the stream.

The grant requires no monetary match. NFWF is looking for proposals that will result in future projects that will be very likely to be built. Phase III of the Reuse Project will almost certainly be built at some time in the future.

NFWF has a list of approved technical assistance providers that become the actual applicant. UAJA becomes the beneficiary. Staff is recommending Land Studies from Lititz, PA to be the applicant.

**National Fish and
Wildlife Federation
Grant Application
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Ebaugh, to approve having Land Studies act as the applicant for a NFWF Technical Capacity Grant with UAJA as the beneficiary. Motion passed unanimously.

5.1 Requisitions

BRIF #153	M2 Construction SHAWT 14-05 (General) Pay App #4	\$278,366.15
BRIF #154	M2 Construction SHAWT 14-06 (HVAC) Pay App #2	\$72,164.70
BRIF #155	Dale Summit Acquisitions March Lease Pymt.	\$25,000.00
BRIF #156	Rettew SHAWT Engineering Inv #84854	\$2,900.00
BRIF #157	HRG Odor Control Study Pay App #5	\$654.62

**Requisitions
Approved**

A motion was made by Mr. Guss, seconded by Mr. Dietz, to approve the BRIF Requisitions #153-157. The motion passed unanimously.

BRIF #158	Lobar Inc. Big Hollow Pump Station Pay App #21 (FINAL)	\$35,025.00
BRIF #159	Port Vue Plumbing Big Hollow Pump Station Pay App #8 (FINAL)	\$15,650.00
BRIF #160	Robert P. Lepley Big Hollow Pump Station Pay App #10 (FINAL)	\$5,400.00

**Requisition
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. McShea, to approve BRIF requisitions 158 - 160 but to place them on hold until the final certified payroll and all other required paperwork is completed to finalize the project. Staff was authorized to execute payment when appropriate. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending February 28, 2015.

6.2 Chairman’s Report

None

6.3 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>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>
Production	563 cu/yds.	646 cu/yds.	662 cu/yds.	653 cu/yds.	685 cu/yds.	546 cu/yds.
YTD. Production	5,951 cu/yds.	6,597 cu/yds.	7,259 cu/yds.	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.
Distribution	1,428 cu/yds.	559 cu/yds.	227 cu/yds.	285 cu/yds.	315 cu/yds.	902 cu/yds.
YTD. Distribution	6,754 cu/yds.	7,313 cu/yds.	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.
Immediate Sale	585 cu/yds.	534 cu/yds.	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.
Currently in Storage	1,148 cu/yds.	1,180 cu/yds.	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.

SEPTAGE OPERATIONS

	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>
Res./Comm.	7,400 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	0 gals.	152,000 gals.	0 gals.	102,000 gals.	33,000 gals.	0 gals.
CH/Potter	5,204.16 lbs/solids	6,963.90 lbs/solids	1,843.14 lbs/solids	5,550.27 lbs/solids	2,339.37 lbs/solids	2,706.33 lbs/solids
Port Matilda	1,551.24 lbs/solids	1,651.32 lbs/solids	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids
Huston Twp.	683.88 lbs/solids	617.16 lbs/solids	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids
Total Flow	72,900 gals.	227,000 gals.	37,500 gals.	162,500 gals.	69,500 gals.	28,500 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for February was 4.27mgd with the average for the month being 4.38mgd. The average monthly **influent** flow was 5.44mgd. There were no inspections by DEP this month. Treatment units on line are as follows: primary clarifiers #3, #4, #5 and #6; aeration basins #1 and #2; secondary clarifiers #1, #2 and #3; eight tertiary filters. DEP inspected the facility on February 19, 2015 with no noted violations. In all of 2014 there was one instance where we reported a low D.O. and one instance where we had a high fecal count. On January 5, of 2015 a Total nitrogen sample was missed by our outside laboratory and an annual Storm Water Inspection was missed in 2014.

Below is the chart for Reuse Distribution and Temperature Data:

	Feb-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	30,000	60,000		
Centre Hills	0	0	Feb-15	Feb-15
Cintas	655,000	1,344,000	53.8	47.8
Red Line	418,000	744,000		
Uaja Wetland	4,777,000	4,777,000		
GDK Vault	12,320,000	22,173,000		
Kissingers	1,050,000	1,847,000		
Stewarts	0	0		
TOTAL	18,455,000	34,927,000		

Plant Maintenance

- Repaired an air actuator on process valve AV-5 on MF#2 .
- PBCI Allen replaced the blower motor in heat pump HP-5 for the lab.
- Repaired the check valve packing gland on Main Station Pump #2.
- Replaced the pump seal for Backwash Forwarding Pump B.
- A Tuthill blower had to be ordered to replace Blower #1 for the WAS tank #5. The original is over 20 years old. Also replaced the belts on Blower #2 for WAS tank #5.
- Replaced the cutters in all the Primary Pumps in Dewatering.
- We continue removing the old wood chips and cleaning the laterals in the Compost Bays.
- The communications link to Centrifuge #1 failed. The defective part was sent out for repair as these parts are now obsolete.
- Replaced the bay blower on Bay E-11.
- Central Pa. Dock and Door continue to make repairs to the overhead doors at compost.
- Staff members from Maintenance and Collections continue to attend an extensive 5 week electrical training at CPI.
- Replaced the SSOL for the controls on Bay Blower 6-D and 12-D.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (0)
- (UA) Lateral Repairs – (0)

- (UA) Mainline Cleaning – (97) manholes inspected- (21,112) feet cleaned
- (UA) Mainline Repairs – (0)
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (11) manholes inspected- (1,618) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have been doing snow removal and equipment maintenance. We helped with labor work at the Compost Building, cleaning the bays for air circulation repairs.

(A)Construction &(B)I/I Inspection: ; (A)(We TV'd 14,905 ua/0 fta feet of mainline and inspected 81 ua/0 fta MH's .) (B)Tested/Grouted – (MH's grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0 /) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally. Several of our staff are taking an electrical class at CPI. We repaired the comminutor at Piney Ridge and cleared wet wells of grease.

Inspection: Provisional As-builts Approved: Turnberry, Ph2, Saybrook, Ph 10

Mainline Construction:

- a. Villa1 & Villa 2 Apts. Replacement – We are awaiting revisions.

New Connections:

a.	Single-Family Residential	9	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Industrial	0
					TOTAL
					9

PA One-Calls Responded to 2/1-28/15: 141

6.6 Engineer's Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS database for geospatial EDU distribution.
- Reviewed drawings and specifications prepared by the State College Borough to replace sewer sections approaching the Cluster's Meter. A list of comments was provided to Mr. Lahr. HRG is available to attend a meeting with State College Borough on March 16th at 1:30 PM.
- HRG attended a meeting on March 11th to discuss The Cottages proposed pump station.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6: Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- P-102 has been returned and re-installed.
- Applications for Payment are presented in the table below. A recommendation for final payment and contract closeout will be provided at the meeting, contingent on the receipt of all required closeout documentation, specifically “final” certified payrolls.

Contr. No.	Contract	Contractor	App No.	Amount
09-4	General	Lobar, Inc.	21 (Final)	\$ 35,025.00
09-5	Mechanical	Port Vue	8 (Final)	\$ 15,650.00
09-6	Electrical	Lepley Electric	10 (Final)	\$ 5,400.00

\$ 55,985.00

Constructed Wetlands

- A warranty notice was issued for leaking manholes (water infiltrating into the manhole). The Contractor attempted to complete these repairs; however, active infiltration was not observed. The Contractor will complete these repairs in the spring when groundwater levels are higher.
- The orifice plates were delivered and will be installed to help balance water flow.

Selders Circle Sewer Relocation

- HRG is available as needed to assist with construction activities.

Ghaner Road Pump Station

- Final Record Drawings are being prepared and will be submitted to the Authority.

Odor Control Study

- The HRG/Material Matters team will be meeting with Authority staff to schedule and plant the final, spring sampling event.
- HRG is working with the Authority’s staff to identify interim rehabilitation methods to improve biofilter performance.

Standard Specifications and Details Update

- HRG prepared and submitted a proposal to provide engineering services to develop and update standard specifications and details.
- A meeting was held on February 17th to discuss pump station control requirements.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Assistance with Compost Process and Mix Design
- Evaluation of Heat Recovery and Chilling with Reuse Water

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Progress Meeting No. 6 was held on March 5, 2015 with the only major issues being schedule. Authority and RETTEW have stressed overall schedule to the Contractors and the project is progressing with the majority of processes slated to startup during the month of March. We anticipate the contractor will be approximately 35-45 days late on Substantial Completion.
- The Ozone Generation System has been delivered by Contract 2014-05 (General) and is under construction. This is slated for startup at the end of March.
- The sludge pumps and macerators have been installed and are slated for startup on March 13, 2015.
- The MF/RO Controls Replacement is slated for installation on March 18th
- Contract 2014-06 (Mechanical) completed the majority of the project and is awaiting shipment of the Dehumidifier Unit to complete their work. The new Reuse Water Chiller System will startup prior to the end of March.
- Contract 2014-07 (Electrical) has completed all of the minor wiring and conduit modifications and installed the new Adjustable Frequency Drives in the Aeration System and Secondary Sludge Pumping Building.
- The date for Substantial Completion was February 21st, with 25 Days of the Contract Expired over the completion date.

Payment Applications and Change Orders:

- Payment Application #4 was received in the amount of \$278,366.15 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #2 was received in the amount of \$72,164.70 for Contract 2014-06 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Change Order #1 was received in the additive amount of \$6,315.81 for Contract 2014-06 from M2 Construction, LLC for the demolition of old ductwork within the tertiary filter building that was abandoned and over the filter beds (difficult access). The Change Order was requested by RETTEW, was received and reviewed by UAJA and RETTEW and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	\$2,411.00	\$505,363.00	52.8%	\$480,094.85	\$477,016.15

2014-06	\$198,500.00	-	\$138,391.00	69.7%	\$124,551.90	\$73,948.10
2014-07	\$121,700.00	(\$2,592.00)	\$101,615.55	85.3%	\$96,534.77	\$22,573.23

*Inclusive of Recommended Payment for this Board Report

Membrane Procurement Contract (2014-08):

- RETTEW provided Executed Contract Documents to GCS Water Purification, LLC (Toray) in the amount of \$158,995.00 for Contract 2014-08. A Preconstruction Conference was held February 16th, submittals have been provided, and the membranes should arrive in April after commissioning and startup of the Ozone System.

6.8 Executive Director's Report

Mr. Miller had nothing further to add.

7. Other Business

8. Adjournment

The meeting was adjourned at 5:45 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – April 15, 2015

1. Call to Order

Mr. Lapinski, Vice Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, April 15, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, McShea, and Nucciarone; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; Richard Campbell, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert and Chris Underwood, RETTEW; Mark Whitfield, State College Borough; Eric Vorwald and Sharon Bressler, Center Region; Mr Scarborough and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – March 18, 2015

**UAJA
Meeting Minutes
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Nucciarone, to approve the minutes of the UAJA meeting held on March 18, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1. Odor Control Study Update

Ben Burns updated the board on the progress of the odor control study.

5. New Business

5.1 Change Orders

There are 3 Change Orders to consider for the SHAWT Contracts:

Change Order #1 in the additive amount of \$6315.81 for Contract 14-06 to demolish the ductwork in the tertiary filter gallery that was abandoned and over the filter beds with difficult access.

Change Order #2 in the additive amount of \$4,782.42 for Contract 14-07 to modify the electrical system for the ozone equipment. This amount will be recovered by a future deductive Change Order to Contract 14-05.

Change Order #3 in the additive amount of \$2,235.76 for Contract 14-07 for installation of the chemical feed pumps for chlorination of the reuse water.

**Change Orders
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the three change orders as presented. Motion passed unanimously.

5.1 Requisitions

BRIF #161	M2 Construction SHAWT 14-05 (General) Pay App #5	\$388,929.05
BRIF #162	M2 Construction SHAWT 14-06 (HVAC) Pay App #3	\$25,801.75
BRIF #163	GCS Water Purification, LLC SHAWT 14-08 (Membranes) Pay App #1	\$39,748.75
BRIF #164	Dale Summit Acquisitions April Lease Pymt.	\$25,000.00
BRIF #165	Rettew SHAWT Engineering Inv #86212	\$11,600.00
BRIF #166	HRG Odor Control Study Pay App #6	\$1040.02
BRIF #167	Groff Tractor & Equipment SR210 Skid Steer	\$38,380.00

**Requisition
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Dempsey, to approve BRIF requisitions 161 - 167. The motion passed unanimously.

Revenue Fund #138	Debt Service, Operation & Maintenance	\$1,000,000
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**Requisitions
Approved**

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to approve the Revenue Fund Requisitions #138. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending March 31, 2015. Mr. Smith reported that the field audit work has been completed. A draft audit report is due May 1st. This will be sent to the board members for their review/comment. The Audit must be approved at May's meeting.

6.2 Chairman’s Report

None

6.3 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>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>
Production	646 cu/yds.	662 cu/yds.	653 cu/yds.	685 cu/yds.	546 cu/yds.	585 cu/yds.
YTD. Production	6,597 cu/yds.	7,259 cu/yds.	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.	1,816 cu/yds.
Distribution	559 cu/yds.	227 cu/yds.	285 cu/yds.	315 cu/yds.	902 cu/yds.	610 cu/yds.
YTD. Distribution	7,313 cu/yds.	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.	1,827 cu/yds.
Immediate Sale	534 cu/yds.	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.	1,396 cu/yds.
Currently in Storage	1,180 cu/yds.	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.	1,981 cu/yds.

SEPTAGE OPERATIONS

	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	152,000 gals.	0 gals.	102,000 gals.	33,000 gals.	0 gals.	179,500 gals.
CH/Potter	6,963.90 lbs/solids	1,843.14 lbs/solids	5,550.27 lbs/solids	2,339.37 lbs/solids	2,706.33 lbs/solids	9,778.65 lbs/solids
Port Matilda	1,651.32 lbs/solids	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids	2,018.28 lbs/solids
Huston Twp.	617.16 lbs/solids	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids	617.16 lbs/solids
Total Flow	227,000 gals.	37,500 gals.	162,500 gals.	69,500 gals.	28,500 gals.	264,500 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for March was 4.31mgd with the average for the month being 5.29mgd. The average monthly **influent** flow was 6.63mgd. There were no inspections by DEP this month. Treatment units on line are as follows: primary clarifiers #3, #4, #5 and #6; aeration basins #1 and #2; secondary clarifiers’ #1, #2 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Mar-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	39,000	99,000		
Centre Hills	0	0	Mar-15	Mar-15
Cintas	781,000	2,125,000	52.7	47.6
Red Line	469,000	1,213,000		
Uaja Wetland	4,130,000	12,889,000		
GDK Vault	9,164,000	31,337,000		
Kissingers	700,000	2,547,000		
Stewarts	0	0		
TOTAL	15,283,000	50,210,000		

Plant Maintenance

- Replaced the HOA switch and adjusted the pressure regulator for Utility Water Pump #2.
- Hartford Steam Boiler inspected the air tanks around the facility and minor modifications were made to comply with the new regulations.
- New explosion-proof heaters were installed at Septage Receiving.
- The ten-year inspection of the Alum Tank, required by DEP, was performed.
- Cleaned and serviced the carbon addition storage tank, lines and pumps. Carbon feed began on April 1, 2015.
- Installed weir brushes on Secondary Clarifier #4.
- We continue removing the old wood chips and cleaning the laterals in the Compost Bays.
- Replaced the sump pump and repaired the heater at the Booster Station.
- Cleaned the laterals in the filter bed along with replacing the spray misters. Also tilled the filter media.
- Replaced the motor in MAU-1305.
- Staff members from Maintenance and Collections continue to attend an extensive 5 week electrical training at CPI.
- Replaced the Bio filter drain valve.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- UA) Lateral Installations – (1) Sam’s Club Fuel Facility
- UA) Lateral Repairs – (4) 200 Camelot, 477 & 466 Park Ln., 493 Sierra Ln.
- UA) Mainline Cleaning – (12) manholes inspected- (1,910) feet cleaned
- UA) Mainline Repairs – (5) 100 Willow Cir., 4 locations on Circleville Rd.
- UA) Manhole Repairs – (0)
- UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

(A)CONSTRUCTION &(B)I/ INSPECTION: (A)(We TV'd 1,910 ua/0 fta feet of mainline and inspected 12 ua/0 fta MH's .) (B)Tested/Grouted – (MH's grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0 /) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally. Several of our staff are taking an electrical class at CPI. We repaired two (2) E-1 pumps and installed a new alternating relay at the Haymarket station.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

- a. Villa1 & Villa 2 Apts. Replacement – We are awaiting revisions.

New Connections:

a.	Single-Family Residential	6	c.	Commercial	0	
b.	Multi-Family Residential	0	d.	Industrial	0	
					TOTAL	6

PA One-Calls Responded to: 3/1-31/15: 281

6.6 Engineer's Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS database for geospatial EDU distribution.
- Attended a meeting with staff and State College Borough to discuss the sewer replacement project upstream of the Cluster's Meter and subsequently reviewed hydraulic calculations.
- A pressure logger was provided to monitor force main pressures at the Scott Road Pump Station. An evaluation of hydraulic conditions was then completed.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- Closeout documents have been issued for Contract 09-5 and Contract 09-6.
- P-102 was re-installed, but failed to operate due to a bad sensor wire. After numerous field visits, the pump is operational; however, the sensor has been bypassed. The pump manufacturer is to provide a corrective action plan.
- The performance of the 100 Series pumps is lower than expected. A manufacturer's representative was on-site to evaluate pump performance. A report is to be provided.
- Applications for Payment are presented in the table below. A recommendation for final payment and contract closeout will be provided at the meeting, contingent on the receipt of all required closeout documentation, specifically "final" certified payrolls.

Constructed Wetlands

- The Authority's staff installed new orifice plates on the wetland distribution lines. Water flow to the wetlands will be restored on April 13th.
- HRG is coordinating with the Contractor to finish punchlist items (i.e. establish vegetative cover, conceal augmentation structures, correct leaking manholes, finalize closeout documents).

Selders Circle Sewer Relocation

- Construction stakes damaged through the winter were re-established.

Ghaner Road Pump Station

- Simultaneous pumping of up upstream stations to occur on April 13th at 1 PM.

Odor Control Study

- The HRG/Material Matters team will be meeting with Authority staff to schedule and plan the final, spring sampling event.
- HRG is working with the Authority's staff to identify interim rehabilitation methods to improve biofilter performance.
- An interim report is being prepared to provide the status of the study and any findings to date.
- The Odor Observation Data Collection Sheet is being converted into an on-line form for easier submission.

Standard Specifications and Details Update

- Work to prepare updated specifications and details is ongoing.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Troubleshooting of Network Reliability between AWT and Control Room
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Completion of a New Mix Design for Compost and Assistance in Implementation
- Participation in Odor Control Study Update and Planning Meeting
- Development of modified Building Ventilation at Compost to minimize Airflow and reduce Biofilter Loading
- Evaluation of Heat Recovery and Chilling with Reuse Water

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- The Ozone Generation System has been installed and is slated for full startup on April 9/10. All subcomponents have been tested and the system has been simulated using oxygen in lieu of ozone.
- The sludge pumps and macerator have achieved full operation and training is slated for the week of April 13th.
- The MF/RO Controls Replacement was completed the week of March 30th. The punchlist for this work has been completed in addition to the main project.
- Contract 2014-06 (Mechanical) completed the majority of the project and is awaiting shipment of the Dehumidifier Unit to complete their work.
- Contract 2014-07 (Electrical) has completed the majority of the project and is finishing the relocation of the chemical feed pump control wires and power.
- The new RO Membranes are set to ship the week of April 20th and installation will proceed shortly afterwards.
- The date for Substantial Completion was February 21st, with 53 Days of the Contract Expired over the completion date.

Payment Applications and Change Orders:

- Payment Application #5 was received in the amount of \$388,929.05 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.
- Payment Application #3 was received in the amount of \$25,801.75 for Contract 2014-06 from M2 Construction, LLC. This Payment Application was received and reviewed RETTEW and is recommended for Approval.
- Change Order #2 was received in the additive amount of \$4,782.42 for Contract 2014-07 from Bob Biter Electrical for the modification of the electrical system for the Ozone System. The Manufacturer of the Ozone System changed a number electrical requirements, including the primary voltage. These resulted in modifications that were both additive and deductive and the net amount is reflected in the Change Order. This amount will be paid for by a deductive change order from Contract 2014-05 as UAJA had nothing to do with the modifications and they were deviations from the Contract Documents. The Change Order was requested by RETTEW and reviewed and is recommended for Approval.
- Change Order #3 was received in the additive amount of \$2,235.76 for Contract 2014-07 from Bob Biter Electrical for the installation of the chemical feed pumps for chlorination of the reuse water. The chemical feed pumps were relocated with the existing bulk tanks to a more convenient location and it was originally intended that UAJA would complete the wiring themselves. Given time constraints and the price of the work, UAJA elected to have the Electrical Contractor complete the work. The Change Order was requested by RETTEW and reviewed and is recommended for Approval.
- Payment Application #1 was received in the amount of \$39,748.75 for Contract 2014-08 from GCS Water Purification, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	\$2,411.00	\$914,762.00	95.6%	\$869,023.90	\$88,087.10
2014-06	\$198,500.00	-	\$158,267.00	79.7%	\$150,353.65	\$48,146.35
2014-07	\$121,700.00	\$4,426.18	\$101,615.55	78.5%	\$96,534.77	\$26,999.41

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director’s Report

Classification of Reuse Water

Mr. Miller informed the Board that he and Mr. Ebaugh attended a meeting in Harrisburg with DEP regarding the classification of the reuse water from sewage to water. This meeting was also attended by Rep. Conklin and Senator Corman.

Grant Application

Mr. Miller reminded the Board that the Nation Fish and Wildlife grant application will be submitted on April 16, 2015.

7. Other Business

8. Adjournment

The meeting was adjourned at 5:30 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – May 20, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, May 20, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Ebaugh, Guss, Lapinski, McShea, Nucciarone and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; Richard Campbell, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert and Chris Underwood, RETTEW; Mark Whitfield, State College Borough; Eric Vorwald and Sharon Bressler, Center Region; Brian McCall & Mallory Starr, Maher Duessel; Laura Dininni and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – April 15, 2015

**UAJA
Meeting Minutes
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve the minutes of the UAJA meeting held on April 15, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1. 2014 Independent Audit

Maher Duessel has conducted the Independent Audit for UAJA and they have prepared their final report. A draft of this report was provided to the Board on May 6th for review and comment. On May 13th, Treasurer McShea, Assistant Treasurer Guss, Cory Miller and Dave Smith participated in a detailed explanation of the draft financial statements with Maher Duessel via conference call. After the call, Maher Duessel finalized the financial statements. The final proposed Audit Report was included in the meeting packet. Brian McCall and Mallory Starr from Maher Duessel were at the meeting and presented the report.

**2014 Independent Audit
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the 2014 Independent Audit. The motion passed unanimously.

4.2 Odor Control Study Update

Mr Burns, HRG, gave a brief report the board on the progress of the odor control study. The information has been updated on the UAJA's website along with adding the collection data sheet. The third sampling event is complete. Data is being evaluated. Recommendations will be made later this year along with costs associated with the recommendation. Complaints are down with the improvements being made.

Mr. Smith commended the plant staff on the work they have been doing to correct the smell issues.

5. New Business

5.1 Mulch Mix Contract 2015-06

The Biofilter for the compost building does not have the specified depth of mulch. Over the years, due to decomposition, the depth has been reduced by as much as two feet in some areas. Since it is likely going to be no earlier than next summer for a new biofilter system to be designed and installed, staff and our odor consultant team decided that the mulch depth should be increased. The cost of the material requires a formal bid. To move this as quickly as possible, the bids were opened Tuesday May 19. It is the recommendation of the staff to award this contact to Metzler Forest Products in the amount of \$37,001.75 mixed and delivered.

**Mulch Mix Contract
2015-06 Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Lapinski, to approve the Mulch Mix Contract 2015-06 to Metzler Forest Products in the amount of \$37,001.75 mixed and delivered. Motion passed unanimously.

6.2 Shiloh Road Rezoning Request (College Township)

College Township is considering rezoning certain parcels East of the treatment plant. The parcels involved are the Christ Community Church property (from Ag to C-1), Maxwell, formerly the Fern Lease farm (from Ag to C-1) and the Rogers and Clair sites. Both Rogers and Clair would go from Ag to Planned Research Business Park, PRBD, while a small portion of Rogers property along Trout Rd would go from Ag to R-2 to match up with the R-2 across the street at Independence Place/Summit. A detailed report from College Township is included in the agenda packet.

The area under consideration is directly downwind of the treatment plant. It is likely that controlling odors to the extent needed to keep odors from being noticed on these properties no more frequent than occasionally, significant odor control equipment would be required, at great expense to UAJA and the community.

It might be possible to determine a special purpose tapping fee for the properties to be served in this area to recover the cost of the required odor control facilities. While UAJA would have to pay for the facilities up front, the properties that benefit from the odor control facilities would pay their portion at the time they connect to the sewer. The fee would be determined by dividing the cost of the expected improvements by the number of EDU's in the affected area. For example, if \$3 Million in improvements were required, and the total number of EDU's in these parcels was 500, then the special purpose fee would be \$6000 per EDU. This would be in addition to the plant capacity tapping fee, which is currently \$4711 per EDU.

**Recommendation
Approved**

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, have a letter forwarded to College Township strongly expressing opposition for the proposed rezoning of the properties based on the cost of the odor control facilities that would have to be built. In addition, clearly indicate the possibility of a special purpose tapping fee for odor management. The motion passed unanimously.

5.3 Change Orders

There are 2 Change Orders to consider for the SHAWT Contracts:

Change Order #3 in the deductive amount of \$4,782.42 for Contract 14-05 for modification of the electrical system for the ozone equipment. This offsets the additive Change Order approved for the electrical contractor last month.

**Change Order
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Ebaugh, to approve Change Order #3 in the deductive amount of \$4,782.42 for Contract 14-05. The motion passed unanimously.

Change Order #4 in the additive amount of \$13,812 for Contract 14-07 for the completion of a MCC, Panelboard and Major Electrical Service Gear Inspection. The Inspection is completed with Thermal Imaging and provides UAJA with an assessment of potential critical points or incipient failures that need maintenance or replacement. The Inspection was recommended by UAJA's insurance carrier and there has not been a comprehensive study done since 2005.

**Change Order
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to approve Change Order # in the additive amount of \$13,812 for Contract 14-07. The motion passed unanimously.

5.4 Requisitions

BRIF #168	GCS Water Purification, LLC SHAWT 14-08 (Membranes) Pay App #2	\$79,497.50
BRIF #169	Dale Summit Acquisitions May Lease Pymt.	\$25,000.00
BRIF #170	Rettew SHAWT Engineering Inv #88368	\$5,800.00
BRIF #171	HRG Odor Control Study Pay App #7	\$308.41
BRIF #172	OI Analytical – A Xylem Brand TOC Analyzer Payment 1of 2	\$23,329.10

**Requisition
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve BRIF requisitions 168 - 172. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending April 30, 2015.

6.2 Chairman’s Report

None

6.3 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>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>
Production	662 cu/yds.	653 cu/yds.	685 cu/yds.	546 cu/yds.	585 cu/yds.	942 cu/yds.
YTD. Production	7,259 cu/yds.	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.	1,816 cu/yds.	2,758 cu/yds.
Distribution	227 cu/yds.	285 cu/yds.	315 cu/yds.	902 cu/yds.	610 cu/yds.	1,146 cu/yds.
YTD. Distribution	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.	1,827 cu/yds.	2,973 cu/yds.
Immediate Sale	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.	1,396 cu/yds.	1,138 cu/yds.
Currently in Storage	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.	1,981 cu/yds.	2,080 cu/yds.

SEPTAGE OPERATIONS

	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	0 gals.	102,000 gals.	33,000 gals.	0 gals.	179,500 gals.	192,500 gals.
CH/Potter	1,843.14 lbs/solids	5,550.27 lbs/solids	2,339.37 lbs/solids	2,706.33 lbs/solids	9,778.65 lbs/solids	9,728.61 lbs/solids
Port Matilda	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids	2,018.28 lbs/solids	1,501.20 lbs/solids
Huston Twp.	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids	617.16 lbs/solids	400.32 lbs/solids
Total Flow	37,500 gals.	162,500 gals.	69,500 gals.	28,500 gals.	264,500 gals.	268,000 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for April was 4.37mgd with the average for the month being 5.58mgd. The average monthly **influent** flow was 6.73mgd. There were no inspections by DEP this month.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Apr-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	40,000	139,000		
Centre Hills	2,060,000	2,060,000	Apr-15	Apr-15
Cintas	776,000	2,901,000	57.2	51.9
Red Line	302,000	1,515,000		
Uaja Wetland	4,025,000	16,914,000		
GDK Vault	10,467,000	41,804,000		
Kissingers	799,000	3,346,000		
Stewarts	0	0		
TOTAL	18,469,000	68,679,000		

Plant Maintenance

- Replaced the bellows in the hydraulic pressure switch for the outfall U.V. Lights
- Cleaned the hoppers in the empty Primary Tanks and the scum pits.
- Replaced the sight tube and electrical wiring for the fuel tank.
- Installed the spare valve actuator on Effluent Drain valve #8. The old one will be sent out for repair.
- Installed weir brushes on all the Secondary Clarifiers.
- The Booster Station was started for the year.
- Replaced Tuthill Blower #2.
- Replaced the Profibus for Centrifuge #1. It is now back in operation.
- Repaired several leaks in the Compost Building roof.
- Replaced the pressure relief valve on the air receiver in the AWT Building.
- Began repairs on the Quad Odor Control System.
- Removed some trees from the storm water retention basins.
- Repaired a roof leak in the AWT Building. Also replaced a gas rain vent.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (1) 1512 Ash Ave.
- (UA) Lateral Repairs – (5) 492 & 510 Sierra Ln., 1952, 1957 & 1964 Highland Dr.
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (2) On N. Atherton St.
- (UA) Manhole Repairs – (0)

- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have been doing “odds and ends” work in preparation for starting back on 10 hour days with the Selder’s Circle project in Ferguson Township. We have hauled wood chips and compost as well as helping with work on the wetlands waterline.

(A)CONSTRUCTION &(B)I/I INSPECTION: (A)(We TV’d 1,276 ua/0 fta feet of mainline and inspected 7 ua/0 fta MH’s .) (B)Tested/Grouted – (MH’s grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0 /) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU’s).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally. Several of our staff are taking an electrical class at CPI, which ended the last week of this month.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

- a. Villa1 & Villa 2 Apts. Replacement – We are awaiting electronic submission.

New Connections:

a.	Single-Family Residential	15	c.	Commercial	4	
b.	Multi-Family Residential	18	d.	Industrial	0	
					TOTAL	37

PA One-Calls Responded to 4/1-30/15: 292

6.6 Engineer’s Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS database for geospatial EDU distribution.
- As required by the NPDES Permit, an annual inspection of stormwater facilities was completed on Friday, May 1st by Doug Weikel. The required forms were completed and provided to the UAJA for submission to the PA DEP

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- Contract 09-4 was issued a defective work notice under the Correction Period for a faulty motor bearing temperatures sensor on Pump P-102. The pump is currently operational with a bypassed sensor. Additionally, the Contractor was notified that the pressure relief valve is leaking.

- The bypass pumping system (100 Series Pumps) and 20” forcemain was evaluated. It appears that air is not being released adequately, resulting in reduced performance (compared to the pump curve) and presumably the cause of the hydraulic noise. Although the hydraulic noise persists, the pumps are currently exceeding the design pumping rate.

Constructed Wetlands

- The Contractor was on-site to repair leaking manholes (pressure reducing valve pits).
- The Contractor replaced dead trees.
- A meet was held on-site May 12th to review outstanding items. Additional vegetative cover is required in the wetland areas.
- Water is flowing to the wetland cells and stream augmentation structures

Selders Circle Sewer Relocation

- HRG is available to assist with construction as needed.

Ghaner Road Pump Station

- Simultaneous pumping of up upstream stations was completed. When the upstream pump stations are operating as designed, the Ghaner Pump Station is not overwhelmed.

Odor Control Study

- The spring sampling event was conducted and results are being tabulated.
- Finalized an interim report on findings from the first two sampling events.
- Revised the observation data collection sheet and adapted to form for on-line submission.
- Attended a meeting with UAJA staff to discuss operation of the existing odor control unit on the dewatering facility.

Standard Specifications and Details Update

- Work to prepare updated specifications and details is ongoing.

Scott Road Forcemain Evaluation

- A pressure logger was provided to monitor force main pressures at the Scott Road Pump Station. An evaluation of hydraulic conditions was then completed. Additional monitoring with data collection at more precise intervals is being considered.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Troubleshooting of Network Reliability between AWT and Control Room. An on-site inspection and new switch will be installed on May 21, 2015.
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Continued monitoring of the Compost Mix Design and Performance
- Evaluation of Heat Recovery and Chilling with Reuse Water
- Evaluation of Natural Gas Cogeneration at the Main Plant

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- A Substantial Completion Inspection was held on May 12, 2015 for Contract 2014-05 and 2014-07.
- It is RETTEW’s opinion that both Contractors have achieved Substantial Completion and RETTEW has provided UAJA with a Tentative Certificate of Substantial Completion for Review. The Review Period ends on May 22, 2015.
- Contract 2014-06 (Mechanical) completed the majority of the project and is anticipates requesting a Substantial Completion Inspection after startup/training of the Building Automation System scheduled for the week of May 22, 2015.
- All major systems are completed with the exception of the modifications of the Controls at the Centrifuge Building. The Ozone System is performing well and initial dosages are being optimized with the assistance of the UAJA Laboratory.
- The new RO Membranes have arrived on-site and the Contractor is arriving May 18, 2015 to begin installation and startup.

Payment Applications and Change Orders:

- Change Order #3 was prepared in the deductive amount of \$4,782.42 for Contract 2014-05 for M2 Construction, LLC for the modification of the electrical system for the Ozone System by the Electrical Contractor. The Change Order was requested by RETTEW and reviewed and is recommended for Approval.
- Change Order #4 was received in the additive amount of \$13,812.00 for Contract 2014-07 from Bob Biter Electrical for the completion of a MCC, Panelboard and Major Electrical Service Gear Inspection. The Inspection is completed with Thermal Imaging and provides UAJA with an assessment of potential critical points or incipit failures that need maintenance or replacement. The Inspection was recommended by UAJA’s insurance carrier and there has not been a comprehensive study done since 2005. The Change Order was requested by UAJA and reviewed and is recommended for Approval.
- Payment Application #2 was received in the amount of \$79,497.50 for Contract 2014-08 from GCS Water Purification, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	(\$2,371.42)	\$914,078.58	96.0%	\$869,023.90	\$83,304.68
2014-06	\$198,500.00	-	\$187,000.00	94.2%	\$150,353.65	\$48,146.35
2014-07	\$121,700.00	\$18,238.40	\$117,651.18	84.1%	\$96,534.77	\$22,287.22
2014-08	\$158,995.00	-	\$119,246.25	75%	\$119,246.25	\$39,748.75

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director’s Report

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

Beneficial Reuse Water Reclassification as Something Other Than Sewage

UAJA has met with DEP and a committee has been formed at very high levels of DEP to work with UAJA to find a solution where Beneficial Reuse Water is no longer sewage. It is expected that this will require several more meetings.

Grant Application

UAJA has submitted a grant application to NFWF (National Fish and Wildlife Foundation) titled “From Spring Creek to the Chesapeake” – Promoting BMPs in State College, PA. This application is an updated version of the grant we submitted last year that did not get funded. The application has three points of focus, (1) construction of green infrastructure BMPs at our plant site; (2) integration of stormwater management into the unit taught to area 5th graders; (3) partnership with Penn State Sustainable Communities Collaborative to transfer awareness and use of BMPs to the community. Grants will be awarded in August if we are successful.

7. Other Business

8. Adjournment

The meeting was adjourned at 5:30 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – June 17, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, June 17, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Ebaugh, Guss, McShea, Nucciarone; Schmalz; and Spac; Cory Miller, Executive Director, Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; David Gaines, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert and Chris Underwood, RETTEW; Mark Whitfield, State College Borough; Eric Vorwald, Center Region; and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – May 20, 2015

UAJA
Meeting Minutes
Approved

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to approve the minutes of the UAJA meeting held on May 20, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1 Odor Control Study Update

Mr. Burns, HRG, gave a brief report the board on the progress of the odor control study. We are still receiving data sheets from the public. Data is being evaluated from the third sampling event. Recommendations along with costs associated with the recommendation will be presented later in the year.

4.2 Influent Flow Data Discussion

Mr. Miller reviewed with the Board the analysis on influent flow that Mr. Jon Dietz presented to the Board in March 2015. The charts and narrative information that were presented were included in the meeting packet. Mr. Dietz's analysis indicates water conservation occurring in the UAJA service area.

5. New Business

5.1 Change Orders

There are 3 Change Orders to consider for the SHAWT Contracts:

Change Order #4 in the deductive amount of \$15,000 for Contract 14-05 for deletion of the coating (painting) allowance from the contract.

Change Order #5 in the additive amount of \$806.27 for Contract 14-07 for the installation of 2 local disconnects for the HVAC system that were requested by the Building Code office.

Change Order #1 in the additive amount of \$4,368.00 for Contract 14-08 for the replacement of throat adapters for the Reverse Osmosis end caps.

**Change Orders
 Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Guss, to approve Change Orders #4, #5 and #1 for the SHAWT Contracts. Motion passed unanimously.

5.2 Requisitions

BRIF #173	Dale Summit Acquisitions June Lease Pymt.	\$25,000.00
BRIF #174	HRG Selder’s Circle Eng. Inv #104948	\$1,235.00
BRIF #175	HRG Odor Control Study Pay App #8	\$1,262.07
BRIF #176	M2 Construction, LLC. Pay App #6 SHAWT General	\$41,304.68
BRIF #177	Bob Biter Electrical Pay App #5 SHAWT Electrical	\$15,316.57
BRIF #178	GCS Water Purification, LLC. Pay App #3 Membranes	\$23,849.25

**Requisition
 Approved**

A motion was made by Mr. McShea, seconded by Mr. Spac, to approve BRIF requisitions 173 - 178. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Miller reviewed with the Board the YTD budget report for the period ending May 31, 2015.

6.2 Chairman’s Report

None

6.3 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>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>
Production	653 cu/yds.	685 cu/yds.	546 cu/yds.	585 cu/yds.	942 cu/yds.	681 cu/yds.
YTD. Production	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.	1,816 cu/yds.	2,758 cu/yds.	3,439 cu/yds.
Distribution	285 cu/yds.	315 cu/yds.	902 cu/yds.	610 cu/yds.	1,146 cu/yds.	790 cu/yds.

YTD. Distribution	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.	1,827 cu/yds.	2,973 cu/yds.	3,763 cu/yds.
Immediate Sale	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.	1,396 cu/yds.	1,138 cu/yds.	1,290 cu/yds.
Currently in Storage	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.	1,981 cu/yds.	2,080 cu/yds.	1,971 cu/yds.

SEPTAGE OPERATIONS

	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	102,000 gals.	33,000 gals.	0 gals.	179,500 gals.	192,500 gals.	0 gals.
CH/Potter	5,550.27 lbs/solids	2,339.37 lbs/solids	2,706.33 lbs/solids	9,778.65 lbs/solids	9,728.61 lbs/solids	6,394.28 lbs/solids
Port Matilda	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids	2,018.28 lbs/solids	1,501.20 lbs/solids	2,068.32 lbs/solids
Huston Twp.	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids	617.16 lbs/solids	400.32 lbs/solids	366.96 lbs/solids
Total Flow	162,500 gals.	69,500 gals.	28,500 gals.	264,500 gals.	268,000 gals.	59,900 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for May was 4.32mgd with the average for the month being 3.62mgd. The average monthly **influent** flow was 4.86mgd. There were no inspections by DEP this month.

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

Below is the chart for Reuse Distribution and Temperature Data:

	May-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	36,000	175,000		
Centre Hills	7,887,000	9,947,000	May-15	May-15
Cintas	764,000	3,665,000	63.5	61.0
Red Line	376,000	1,891,000		
Uaja Wetland	2,831,000	19,745,000		
GDK Vault	7,221,000	49,025,000		
Kissingers	742,000	4,088,000		
Stewarts	800	800		
TOTAL	19,857,800	88,536,800		

Plant Maintenance

- Replaced the electric winch motor for Train #2 Outfall UV Lights.
- Roy Brooks Welding repaired the weir brushes on Secondary Clarifier #1.
- The single axle was inspected and had the front tires replaced at L.W. Hose.
- Replaced the VFD touch screen on Booster Pump #2.
- Installed a remote alarm panel for the Ozone System.
- Installed a DC power supply and mounted a new managed switch in the main control panel at AWT.
- Installed a back-flow preventer valve in the Reuse line servicing the AWT.
- Repaired the Quad Odor Control System. The system is using a temporary water line run on top of the ground. A water line will need to be installed before winter if this system is to continue to operate.
- Replaced the dolly chain on Composter #2.
- Cleaned the laterals in the Bio-Filter.
- Serviced the Trommel Screen.

6.5 Collection System Superintendent's Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (0)
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (0)
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have started work where we left off on Selder's Circle in Ferguson Twp., we are approximately 70% complete with the entire project.

(A)CONSTRUCTION &(B)I/INSPECTION: (A)(We TV'd 0 ua/0 fta feet of mainline and inspected 0 ua/0 fta MH's .) (B)Tested/Grouted – (MH's grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0/) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally. We replaced a pump seal at Shiloh Road. We repaired four (4) E-one grinder pumps.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

- a. Villa1 & Villa 2 Apts. Replacement – We are awaiting electronic submission revisions.

New Connections:

a.	Single-Family Residential	6	c.	Commercial	0	
b.	Multi-Family Residential	2	d.	Industrial	0	
					TOTAL	8

PA One-Calls Responded to 5/1-31/15: **299**

6.6 Engineer's Report

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

Retainer

- Sewer Model Updates –Staff is updating the GIS database for geospatial EDU distribution.
- A pressure logger was installed at the Marywood Pump Station to establish the pump operating point to evaluate if a recent pump failure could have resulted from curve run-out.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- A pump manufacturer's representative was on-site and installed a new motor element with a new wiring harness and lower bearing sensor on P-102. This installation resolved the issues with P-102.
- Contract 09-4 will be providing touch-up and nutrients to the vegetative restoration around the pump station.
- Hydraulic noise from the 100 Series Pumps is believed to be caused by air trapped in the force main. UAJA's Construction Crew will be installing a service saddle at a location where air may be trapped.

Constructed Wetlands

- The Contractor re-tilled the wetland areas and applied additional wetland seed mix.
- The Contractor is finalizing punchlist items and submitting closeout documentation.

Selders Circle Sewer Relocation

- HRG is available to assist with construction as needed.

Odor Control Study

- The spring sampling event was conducted and results are being tabulated.
- Air dispersion modeling is being performed based on collected results.
- Alternative development is ongoing.

Standard Specifications and Details Update

- Work to prepare updated specifications and details is ongoing.

Scott Road Forcemain Evaluation

- A pressure logger has been procured and installed that can collect readings at 1 second intervals. Data is expected by the Authority meeting for discussion.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Assisted in the completion of the modifications to the Compost Server. It appears this server is now fully operational.
- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- An on-site inspection of the UAJA network was completed on May 21, 2015 and detected no anomalies. The focus is now on the AWT Computer and Wonderware Application issues.
- Continued monitoring and assistance in Compost Mix Design and Performance
- Assistance and data evaluation of Dewatering performance
- Evaluation of Heat Recovery and Chilling with Reuse Water
- Evaluation of Natural Gas Cogeneration at the Main Plant
- Completed Act 129 Rebate Application for Ozone System Modifications

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Contract 2014-05 and Contract 2014-07 were Substantially Complete on May 22, 2015. A substantial completion inspection is scheduled for Contract 2014-06 for the week of June 15, 2015.
- All major systems are completed with the exception of the modifications of the Controls at the Centrifuge Building.
The new RO Membranes completed installation on May 20, 2015. A presentation will be made to the Board on the new Membranes and performance related to the Ozone system

Payment Applications and Change Orders:

- Change Order #4 was prepared in the deductive amount of \$15,000.00 for Contract 2014-05 for M2 Construction, LLC for the deletion of the coating allowance from the Contract. The Change Order was requested by UAJA and reviewed and is recommended for Approval.
- Change Order #5 was received in the additive amount of \$806.27 for Contract 2014-07 from Bob Biter Electrical for the installation of two (2) local disconnects for the HVAC system that were requested by the Building Code office. The Change Order was requested by Bob Biter Electrical and reviewed by RETTEW and is recommended for Approval.
- Payment Application #6 was received in the amount of \$41,304.68 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.
- Payment Application #5 was received in the amount of \$15,316.57 for Contract 2014-07 from Bob Biter Electrical. This Payment Application was received, corrected and reviewed by RETTEW and is recommended for Approval.
- Change Order #1 was prepared in the additive amount of \$4,368.00 for 2014-08 from GCS Water Purification, LLC for the replacement of throat adapters for the Reverse Osmosis End Caps. The Change Order was requested by GCS Water Purification, LLC and reviewed by RETTEW and is recommended for Approval.
- Payment Application #3 was received in the amount of \$23,849.25 for Contract 2014-08 from GCS Water Purification, LLC. This Payment Application was received and reviewed

by RETTEW and is recommended for Approval.
A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	(\$17,371.42)	\$910,328.58	97.1%	\$910,328.58	\$27,000.00
2014-06	\$198,500.00	-	\$187,000.00	94.2%	\$150,353.65	\$48,146.35
2014-07	\$121,700.00	\$18,238.40	\$111,851.34	79.4%	\$111,851.34	\$28,893.33
2014-08	\$158,995.00	\$4,368.00	\$143,095.50	90%	\$143,095.50	\$15,899.50

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director’s Report

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

Shiloh Road Rezoning Request

As directed by the board at the May meeting, a comment letter concerning the Shiloh Road rezoning request was sent to College Township. Copies were also sent to the other Centre Region Municipalities and the Council of Governments (COG). A copy of the letter is included in the agenda report.

Penn State University Request for Service

Penn State sent a letter to COG concerning sewer service to their new water treatment plant and other parts of Penn State. As was discussed at the February Board meeting, UAJA believes that the Centre Region Municipalities need to allocate sewer capacity to PSU in order for UAJA to serve the water plant or any other future PSU facilities. A copy of the Penn State letter is included in the agenda report.

7. Other Business

7.1 Executive Session

**Executive Session
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. Dempsey, to approve adjourn to executive session at 5:10 p.m. Motion passed unanimously.

8. Adjournment

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

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – July 15, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:13 p.m. Wednesday, July 15, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dietz, Guss, Lapinski, McShea, Nucciarone, and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; Dick Campbell and David Gaines, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert, RETTEW; Mark Whitfield, State College Borough; Eric Vorwald, Center Region; and Robin Brant, Material Matters.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – June 17, 2015

UAJA
Meeting Minutes
Approved

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on June 17, 2015 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1 Odor Control Study Update

Mr. Burns, HRG, gave a brief report the board on the progress of the odor control study. Air Dispersion modeling has been completed. A meeting was held to explore ionization equipment as one possible alternative for odor control. An evaluation of all alternatives is now underway with 95% odor reduction from compost and dewatering facilities as the baseline.

4.2 Final Design:

Final design drawings for the Hunter's Chase Phase 6 sewer extension (Ferguson Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 13 EDU's of single family homes. The review comments have been addressed.

Final Design
Approved

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the Final Design drawings for Hunter's Chase Phase 6. The motion passed unanimously.

5. New Business

5.1 Change Orders

Change Order #2 in the additive amount of \$178,161.00 for Contract 14-08 for the material, labor and inspection to replace the Reverse Osmosis membranes.

Change Orders
Approved

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve Change Orders #2 Contract 14-08 for the material, labor and inspection to replace the Reverse Osmosis membranes. Motion passed unanimously.

5.2 Budget Amendment – Scott Road Force Main

As you are aware, we have had 5 different pipe failures in the force main just upstream of the Scott Road station. The cause of the failures is unknown, but it could be either bad pipe or surge pressure. In either case, HRG has recommended replacing 1000 feet of 6” PVC SDR 21 pipe with 8” PVC DR 14 (305 psi pressure rating) pipe. The estimated additional cost for materials to complete this work is \$57,035.00. The work will be completed by UAJA staff. This project was not budgeted. It will be assigned a project number and will be paid for with BRIF reserves.

**Budget Amendment
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Lapinski, to approve The Budget Amendment – Scott road Force Main. Motion passed unanimously.

5.2 Requisitions

BRIF #179	Dale Summit Acquisitions July Lease Pymt.	\$25,000.00
BRIF #180	Rettew SHAWT Eng, Inv #'s 89548 & 91684	\$8,700.00
BRIF #181	GCS Water Purification, LLC. Pay App #4 Membranes	\$178,161.00
BRIF #182	Metzler Forest Products, LLC 1655 cubic yards filter media	\$36,823.75

**Requisition
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Guss, to approve BRIF requisitions 179 - 182. The motion passed unanimously.

Revenue Fund # 139	Debt Service, Operation & Maintenance	\$1,000,000.00
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**Requisition
Approved**

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve Revenue Fund #139. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending June 30, 2015.

6.2 Chairman’s Report

None

6.3 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>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>
Production	685 cu/yds.	546 cu/yds.	585 cu/yds.	942 cu/yds.	681 cu/yds.	882 cu/yds.
YTD. Production	685 cu/yds.	1,231 cu/yds.	1,816 cu/yds.	2,758 cu/yds.	3,439 cu/yds.	4,321 cu/yds.
Distribution	315 cu/yds.	902 cu/yds.	610 cu/yds.	1,146 cu/yds.	790 cu/yds.	744 cu/yds.
YTD. Distribution	315 cu/yds.	1,217 cu/yds.	1,827 cu/yds.	2,973 cu/yds.	3,763 cu/yds.	4,507 cu/yds.
Immediate Sale	1,664 cu/yds.	1,451 cu/yds.	1,396 cu/yds.	1,138 cu/yds.	1,290 cu/yds.	1,227 cu/yds.
Currently in Storage	2,349 cu/yds.	1,997 cu/yds.	1,981 cu/yds.	2,080 cu/yds.	1,971 cu/yds.	2,109 cu/yds.

SEPTAGE OPERATIONS

	<u>Jan. 2015</u>	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	33,000 gals.	0 gals.	179,500 gals.	192,500 gals.	0 gals.	58,500 gals.
CH/Potter	2,339.37 lbs/solids	2,706.33 lbs/solids	9,778.65 lbs/solids	9,728.61 lbs/solids	6,394.28 lbs/solids	5,059.04 lbs/solids
Port Matilda	1,517.88 lbs/solids	683.88 lbs/solids	2,018.28 lbs/solids	1,501.20 lbs/solids	2,068.32 lbs/solids	1,501.20 lbs/solids
Huston Twp.	350.28 lbs/solids	500.40 lbs/solids	617.16 lbs/solids	400.32 lbs/solids	366.96 lbs/solids	417.00 lbs/solids
Total Flow	69,500 gals.	28,500 gals.	264,500 gals.	268,000 gals.	59,900 gals.	117,500 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for June was 4.31mgd with the average for the month being 3.34mgd. The average monthly **influent** flow was 4.48mgd. There were no inspections by DEP this month.

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

Below is the chart for Reuse Distribution and Temperature Data:

	June-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	58,000	233,000		
Centre Hills	6,673,000	16,620,000	June-15	June-15

Cintas	856,000	4,521,000	66.4	65.8
Red Line	158,000	2,049,000		
Uaja Wetland	0	19,745,000		
GDK Vault	8,364,000	57,389,000		
Kissingers	999,000	5,087,000		
Stewarts	3100	1,110		
TOTAL	19,857,800	105,645,110		

Plant Maintenance

- Replaced the coupling and aligned Utility Water Pump #1.
- Repacked RAS Pumps #3 and #4.
- Repaired controller for the security gate.
- Replaced the diaphragm in Primary Pumps #9 and #10.
- Skimmed fine coal from Tertiary Filters.
- Installed conduit, wiring, and alarm panels for additional controllers and monitors for the Ozone System. Currently waiting for instruments to arrive.
- Replaced lamps and intensity probe in U.V. Light #2. The removed probe will be sent back for re-calibration.
- Repaired 6” process line on #3MF.
- Replaced Blower #2 for WAS Tank #5. The old one will be sent back to the factory for warranty evaluation.
- Added nearly two feet of new media to the Bio-Filter.
- Repaired the level bay controls along with replacing a hydraulic lift cylinder for the head of #3 composter.
- Replaced the unloading chain on Knight Mixer #2.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (1) Lot 206 Cottonwood Ave.
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (0)
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We are approximately 98% complete with the Selder’s Circle project. Paving is yet to be placed. We installed some of the plantings that were required at the Allen Street back-lot project. We installed grid material on the Ghaner station’s driveway and planted with grass (no more stone driveway). We also installed a new air release valve on the 20” force main at Big Hollow, per the Engineer’s recommendation.

(A)CONSTRUCTION &(B)I/ INSPECTION: (A)(We TV'd 0 ua/0 fta feet of mainline and inspected 0 ua/0 fta MH's .) (B)Tested/Grouted – (MH's grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0/) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally. We ran pressure tests on the force main at Scott Road. We repaired two (2) E-one grinder pumps.

Inspection: Provisional As-builts Approved: Villa1 & Villa 2 Apts. Replacement

Mainline Construction:

- a. Highwoods at Toftrees – Construction is approximately 90% complete.
- b. Village at PSU, Ph12 – Construction is approximately 70% complete.

New Connections:

a.	Single-Family Residential	18	c.	Commercial	1	
b.	Multi-Family Residential	3	d.	Industrial	0	
					TOTAL	22

PA One-Calls Responded to 6/1-30/15: **353**

6.6 Engineer's Report

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

Retainer

- HRG staff have attended local meetings (COG, SCWA, and others) where issues relating to the Authority are under consideration (flow based billing, sewer service boundary, etc.) to remain aware of the community representatives comments and positions in these matters.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- Contract 09-4 will be providing restoration touch-up around the pump station. Scheduling is dependent on weather.

Constructed Wetlands

- The Contractor re-tilled the wetland areas and applied additional wetland seed mix.
- The Contractor is finalizing punchlist items and submitting closeout documentation.

Selders Circle Sewer Relocation

- HRG is available to assist with construction as needed. When construction is completed, HRG will survey and produce Record Drawings for this installation.

Odor Control Study

- Air dispersion modeling has been completed and will be discussed.
- HRG met with an ionization equipment representative to facilitate alternative development.
- Alternatives evaluation is underway with a focus on 95% odor reduction from the

compost facility and the dewatering facility.

Standard Specifications and Details Update

- HRG is working to prepare updated specifications and details. The details have been prepared and delivered to UAJA for review. Flygt has prepared a control panel layout with component literature. This information was forwarded to UAJA's integrator for review.

Scott Road Forcemain Evaluation

- Pressure data obtained at one (1) second intervals did not provide further insight into pipe failures. HRG recommends replacing approximately 900 linear feet of 6" PVC SDR 21 with 8" PVC DR 14 (305 psi pressure rating). PVC is recommended instead of ductile iron to minimize surge potential, and the increased pipe diameter will also reduce velocities, and therefore surge potential. Unit price information for materials was obtained from L/B Water for use by the Staff.
- A technical memorandum is being prepared.

Marywood Pump Station: Pump Failure Evaluation

- Recent pressure data collected from the Marywood Pump Station suggest that the pumps are running too far to the right on the curves, potentially resulting in pump damage. A forthcoming report from Flygt will provide additional insight. An equivalent N series pump model and impeller combination has been selected through collaboration with staff and representatives of Flygt. The future Waddle Pump Station was considered when determining the suitability of an N series replacement.
- A technical memorandum outlining the basis of design for a future Waddle Pump Station is being developed.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Evaluation of Heat Recovery and Chilling with Reuse Water
- Evaluation of Natural Gas Cogeneration at the Main Plant
- Completed Act 129 Rebate Application for Ozone System Modifications
- Modified Blower Program to provide enhanced Energy Efficiency in off-peak flow hours

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Contract 2014-05 and Contract 2014-07 were Substantially Complete on May 22, 2015. A substantial completion inspection is scheduled for Contract 2014-06 for the week of June 15, 2015.
- Punchlists have been updated and a few issues are lingering for all three contracts. A meeting will be held Thursday July 16th to review and focus the contractor's efforts to complete the improvements.
- Closeout documentation has been received by Contract 2014-05.

Payment Applications and Change Orders:

- Change Order #2 was prepared in the additive amount of \$178,161.00 for 2014-08 from GCS Water Purification, LLC for the replacement of the Reverse Osmosis Membranes and Labor for Inspection and Replacement. The Change Order was requested by UAJA and reviewed by RETTEW and is recommended for Approval.
- Payment Application #4 was received in the amount of \$178,161.00 for Contract 2014-08 from GCS Water Purification, LLC. This Payment Application was received and reviewed by RETTEW and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	(\$17,371.42)	\$910,328.58	97.1%	\$910,328.58	\$27,000.00
2014-06	\$198,500.00	-	\$187,000.00	94.2%	\$150,353.65	\$48,146.35
2014-07	\$121,700.00	\$18,238.40	\$111,851.34	79.4%	\$111,851.34	\$28,893.33
2014-08	\$158,995.00	\$182,529.00	\$325,624.50	95.3%	\$325,624.50	\$15,899.50

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director’s Report

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

Sewer Service to Penn State Water Treatment Plant

The COG Public Services and Environmental Committee considered the Penn State request for sewer service to the new drinking water plant at the July 7th meeting. The committee took action to authorize sewer service since it was a replacement of an existing service that will not result in an increase to the total number of EDUs.

The bigger picture of service to future PSU requests will be considered at a future meeting.

7. Other Business

7.1 PennDOT Agreement

UAJA is looking into a cost share agreement with PennDOT for the Branch Road bridge replacement project. At this time it is unclear what the terms of the cost share will be.

**PennDOT Agreement
Approved**

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to authorize Mr. Miller to meeting with PennDOT to confirm the terms of the agreement and then execute the agreement once the terms are confirmed. The motion passed unanimously.

8. Adjournment

The meeting was adjourned at 5:25 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – August 19, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:08 p.m. Wednesday, August 19, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dietz, Guss, Lapinski, McShea, Nucciarone, and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; Dave Gaines, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert, RETTEW; Mark Whitfield, State College Borough; Jim May and Eric Vorwald, Center Region; Tom Songer, Torron Group; Laura Dininni; and Kathy Wheeler; recording secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – July 15, 2015

UAJA Meeting Minutes Approved
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A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on July 15, 2015 as submitted. The motion passed unanimously.

3. Public Comment

Mr. Songer reviewed with the Board his correspondence regarding volumetric billing and tapping fees. Mr. Schmalz stated that the Board will take his comments into consideration and will respond back to him after the Board has had an opportunity to discuss the information.

Ms. Dininni thanked the Board for taking time to listen to Mr. Songer. She stated that she has done some research on volumetric billing as the best form of billing. Ms. Dininni also stated that she would like to learn about infiltration and how it affects volumetric billing.

4. Old Business

4.1 Centre Region Planning Agency Request for Funding

During 2016 the Centre Region will be working on several issues which have an impact on UAJA. The Centre Region Planning Agency Director Jim May will be present at the UAJA meeting to begin discussions concerning funding of some of those activities. In the past, UAJA has budgeted funding for CRPA during times when important sewer system related work is underway. A letter from Jim May is included in the agenda package. The timing of this request fits well with the UAJA budget process.

4.2 Final Design:

Final design drawings for the North Atherton Retail Center sewer extension (Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 11 EDU's in 5 separate businesses. The review comments have been addressed.

Final Design Approved

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the Final Design drawings for North Retail Center. The motion passed unanimously.

5. New Business

5.1 2016 Budget

In order to meet the expectation to have final approval of next years budget at the October meeting, Staff has developed the following schedule:

- 8/12/15 Worksheets to supervisors (7 months of 2015 data)
- 9/2/15 Return worksheets to Dave
- 9/11/15 Draft budget for September Board packet
- 9/16/15 Board comments/questions and appoint subcommittee
- 10/7/15 Subcommittee meeting
- 10/21/15 Final Board approval

5.2 Emergency Repair – Centrifuge Drives and Control

One of the drives for Centrifuge #1 has failed. We are unable to run Centrifuge #1. Centrifuge #2 is marginally able to keep up with our sludge production. If anything goes wrong with #2 or if we have high sludge production, we will be unable to process sludge. Obviously this is unacceptable. The drives and controls are obsolete and are unable to be repaired. Cory has authorized an emergency repair/replacement. The costs are estimated to be \$300,000 for both and will take approximately 16 weeks.

**Budget Amendment
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Dietz, to approve the Emergency Repair – Centrifuge Drives and Control. Motion passed unanimously.

5.2 Requisitions

BRIF #183	Dale Summit Acquisitions August Lease Pymt.	\$25,000.00
BRIF #184	Rettew SHAWT Eng, Inv # 92927	\$8,700.00
BRIF #185	H & R Excavating Selder’s Circle Trench Paving	\$54,880.52
BRIF #186	Xylem Water Solutions Marywood Pump Replacement	\$31,206.28
BRIF #187	John Nastase Construction Pay App #3 (FINAL)	\$27,268.48

**Requisition
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Dietz, to approve BRIF requisitions 183 - 187. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending July 31, 2015.

6.2 Chairman’s Report

None

6.3 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>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>
Production	546 cu/yds.	585 cu/yds.	942 cu/yds.	681 cu/yds.	882 cu/yds.	719 cu/yds.
YTD. Production	1,231 cu/yds.	1,816 cu/yds.	2,758 cu/yds.	3,439 cu/yds.	4,321 cu/yds.	5,040 cu/yds.
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YTD. Distribution	1,217 cu/yds.	1,827 cu/yds.	2,973 cu/yds.	3,763 cu/yds.	4,507 cu/yds.	5,729 cu/yds.
Immediate Sale	1,451 cu/yds.	1,396 cu/yds.	1,138 cu/yds.	1,290 cu/yds.	1,227 cu/yds.	887 cu/yds.
Currently in Storage	1,997 cu/yds.	1,981 cu/yds.	2,080 cu/yds.	1,971 cu/yds.	2,109 cu/yds.	1,606 cu/yds.

SEPTAGE OPERATIONS

	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.	4,000 gals.
Hawbaker	0 gals.	179,500 gals.	192,500 gals.	0 gals.	58,500 gals.	147,000 gals.
CH/Potter	2,706.33 lbs/solids	9,778.65 lbs/solids	9,728.61 lbs/solids	6,394.28 lbs/solids	5,059.04 lbs/solids	7,038.96 lbs/solids
Port Matilda	683.88 lbs/solids	2,018.28 lbs/solids	1,501.20 lbs/solids	2,068.32 lbs/solids	1,501.20 lbs/solids	1,684.68 lbs/solids
Huston Twp.	500.40 lbs/solids	617.16 lbs/solids	400.32 lbs/solids	366.96 lbs/solids	417.00 lbs/solids	633.84 lbs/solids
Total Flow	28,500 gals.	264,500 gals.	268,000 gals.	59,900 gals.	117,500 gals.	228,000 gals.

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for July was 4.30mgd with the average for the month being 3.73mgd. The average monthly **influent** flow was 5.05mgd. There were no inspections by DEP this month.

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

Below is the chart for Reuse Distribution and Temperature Data:

	July-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	40,000	273,000		
Centre Hills	*	16,620,000	July-15	July-15
Cintas	769,000	5,290,000	68.8	68.6
Red Line	216,000	2,265,000		
Uaja Wetland	3,712,000	23,457,000		
GDK Vault	12,237,000	69,626,000		
Kissingers	946,000	6,033,000		
Stewarts	670	1,780		
TOTAL	19,857,800	123,565,780		

Plant Maintenance

- Replaced the wear shoes, carry shoes, skid plates, and trough seals in Primary Tanks #2 and #3.
- Replaced the hoist cables on the Outfall UV Lights.
- Roy Brooks Welding made repairs to the Backwash Supply vent line.
- Replaced the diaphragm in Primary Pump #11.
- Repaired burnt wiring in HP-8.
- Replaced the SSOL for Mixer 504.
- Replaced the gasket in the main air line for Train #3.
- Noerr’s repaired the dump bed on the single axle dump truck.
- Replaced a process control valve on MF#1.
- Rebuilt a 2.4 HP Landia Mixer.
- R&D Group replaced the obsolete air monitor at the Headworks Building.
- Cleaned the Bio-Filter laterals and sprays nozzles.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (0)
- (UA) Lateral Repairs – (1) 606 Wiltshire Drive
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (2) 1646 and 1650 North Atherton Street
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (8)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have completed the Selder’s Circle project. We made repairs and policed the site at Big Hollow.

(A)CONSTRUCTION &(B)I/I INSPECTION: (A)(We TV'd 1125 feet of mainline and inspected 9 MH's .) (B)Tested/Grouted – (MH's grouted 0 /Joints tested 0 /grouted 0) (Grout used 0/Gal.). Estimated I/I-flow decreased (0 EDU's).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

At Big Hollow we installed stone sidewalks, and cleaned both wet wells. We rebuilt the check valves at the Haymarket station. Repaired 1 E-1 pump. We also cleaned all wet wells.

Inspection: Provisional As-builts Approved: Highwoods at Toftrees

Mainline Construction:

- a. Village at PSU, Ph12 – Construction is approximately 98% complete.

New Connections:

a.	Single-Family Residential	10	c.	Commercial	0	
b.	Multi-Family Residential	0	d.	Industrial	0	
					TOTAL	10

PA One-Calls Responded to 7/1-31/15: **304**

6.6 Engineer's Report

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

Retainer

HRG obtained aerial photographs of the wetland site and is preparing a large print photograph for display and discussion at the board meeting.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)

- Contract 09-4 was issued a defective work notice for restoration around the pump station. The Contractor agreed to provide restoration touch-up, with scheduling dependent on weather. The work has not been corrected, to date.

Constructed Wetlands

- The Contractor has completed the minimum requirements for contract closeout. As such, final payment and contract closeout is recommended.
- Final payment due is in the amount of \$27,268.48.
- A defective work notice was issued within the correction period of the Contract for two balled and burlapped trees.

Selders Circle Sewer Relocation

- A field survey will be completed and record drawings will be prepared after Ferguson Township completes all construction activities in the area.

Odor Control Study

- Alternatives evaluation is underway with a focus on 95% odor reduction from the compost facility and the dewatering facility.
- A hydrogen sulfide odor logger was installed in the Dewatering Building to obtain additional data as requested by a vendor.

Standard Specifications and Details Update

- The updated sanitary sewer specifications/details and the developed reclaimed water specifications/details were delivered for review.

Scott Road Forcemain Evaluation

- A technical memorandum is being prepared.

Marywood Pump Station: Pump Failure Evaluation

- A technical memorandum outlining the basis of design for a future Waddle Pump Station is being developed.

Big Hollow Force Main Evaluation

- The high service pumps (100 series) have exhibited noise and vibration during operation that is believed to be related to air trapped within the forcemain line. HRG has been working with Staff to investigate and confirm this basis for these conditions. An update of the ongoing evaluation will be provided at the meeting.

6.7 Construction Report

No written report was received from the Construction Engineer. Mr. Wert stated that he would answer any questions that the Board had.

6.8 Executive Director's Report

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

Beneficial Reuse Water Reclassification

DEP continues to evaluate options for reclassifying UAJA's Beneficial Reuse Water. They are currently investigating having the reuse water permitted under the drinking water program. DEP will be visiting UAJA October 1st to have several people from the drinking water program tour the advanced water treatment system, and to discuss alternatives.

Treatment Capacity for Penn State

At their July meeting, the COG General Forum took the following action:

“That the General Forum authorize the Public Services and Environmental Committee to prepare a draft policy statement for guiding future decisions regarding proposed connections to the University Area Joint Authority wastewater collection and treatment system by the Pennsylvania State University in those areas where the UAJA currently provides service to the University, and further, that when the draft policy is complete that it be forwarded to the General Forum for consideration.”

UAJA staff will be working closely with the Public Services and Environmental Committee to ensure that they understand the implications of allocating capacity to Penn State. Of particular importance is the nutrient capacity, which is a mass load that cannot be increased.

7. Executive Session

Executive Session

A motion was made by Mr. Lapinski, seconded by Mr. McShea, to adjourn to executive session at 5:07 p.m. The motion passed unanimously.

8. Adjournment

The meeting was adjourned at 5:09 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – September 16, 2015

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:01 p.m. Wednesday, September 16, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, McShea, Nucciarone, Schmalz and Spac; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Mark Harter, Collection System Superintendent; Jason Brown, Project Manager; Dave Gaines, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jim May, Eric Vorwald and Sharon Bressler, Center Region; Mark Gutshall, Land Studies; Tom Songer, Torron Group; Laura Dininni, Pat Ward, Steve Balkey, Michael Marin Garrett and Kathy Wheeler; recording secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – August 19, 2015

UAJA Meeting Minutes Approved
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A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the minutes of the UAJA meeting held on August 19, 2015 as submitted. The motion passed unanimously.

3. Public Comment

Ms. Dininni stated that she is running for Ferguson Township Supervisors. Ms. Dininni explained that she is in the learning process and thanked the board for allowing her the opportunity to understand the process..

4. Old Business

4.1 Slab Cabin Run Study

As has been discussed before, the Pennsylvania Fish and Boat Commission has taken action to classify all of Slab Cabin Run a Class A Trout Stream. This has the potential to limit UAJA's ability to use beneficial reuse water for stream augmentation once DEP classifies the stream as a high quality cold water fishery.

In addition to enabling the use of beneficial reuse water for environmental benefit, a successfully implemented plan will result in the creation of nutrient offsets. Since UAJA has nutrient mass limits that can never be increased, UAJA will have increasing nutrient removal costs as more customers are added. UAJA is already spending more than \$200,000 per year feeding Carbon to meet our nutrient removal requirements. Nutrient offsets could reduce or eliminate the cost of nutrient treatment.

A study should be conducted to develop an action plan for improvement of the Slab Cabin Run watershed. The study would be the foundation for selecting and permitting beneficial reuse water environmental benefit locations, as well as describing and prioritizing improvements that will result in nutrient offsets.

Land Studies was contacted by UAJA to prepare a proposal for the study. Mark Gutshall of Land Studies presented the draft proposal at the meeting. This proposal is an expansion of the study proposed for the National fish and Wildlife Federation grant proposal that was not awarded

earlier this year.

To take advantage of the preferred time of year for the Benthic Macro Sampling, a decision to move ahead with at least this portion should be made quickly. The preferred time is during November (DEP).

By consensus of the Board, the Benthic Macro Sampling is to be started in the Spring 2016.

4.2 Centre Region Planning Agency Request for Funding

During 2016 the Centre Region will be working on several issues which have an impact on UAJA, and has requested that UAJA consider providing funding to CRPA for their work on those issues. At the August meeting, Planning Director Jim May was asked to provide a more detailed description of the work including a cost breakdown. The breakdown is included in the agenda packet.

In the past during times when there was Act 537 planning work, or special projects which the CRPA could do more efficiently, UAJA has paid for work by CRPA. Routinely, UAJA has paid CRPA for GIS services.

The CRPA needs to know a solid amount that UAJA will commit to pay to COG for services for 2016. The remainder would be shared by the COG municipalities.

Recommendation: Determine an amount to pledge to the CRPA budget.

**Pledge Amount
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Guss, to approve the funding of these projects in the amount of \$51,404. The motion passed with Mr. McShea opposing.

4.3 Tom Songer II Email

Tom Songer II has asked for his E-Mail to be distributed to the Board and to be placed on the agenda for discussion. Mr. Schmalz stated that the material from Mr. Songer that was included in the agenda packet is being reviewed by the board members. Mr. Schmalz informed Mr. Songer that if he had any new information the board would entertain those comments otherwise the Board is still reviewing Mr. Songer's request.

5. New Business

5.1 2016 Budget

A preliminary draft budget has been included in the board packets. Staff will make a short presentation explaining the basic assumptions used to formulate the Revenue and Expense estimates. The board typically appoints a sub-committee led by the Treasurer to meet with staff to help finalize budget projections. This committee would meet within the next two weeks. A final draft budget will then be developed and will be presented for adoption at the October 21, 2015 board meeting.

The budget workshop will be held on September 30 at 9 a.m. in which the committee members (Mr. McShea, Mr. Guss and Mr. Nucciarone) will discuss the budget line by line with a final draft to be presented to the Board for approval.

5.2 Requisitions

BRIF #188	Rettew SHAWT Eng, Inv # 94638	\$1,160.00
BRIF #189	Dale Summit Acquisitions August Lease Pymt.	\$25,000.00
BRIF #190	HRG Odor Control Study	\$25,204.36

Requisition Approved	A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to approve BRIF requisitions 188 - 190. The motion passed unanimously.
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Revenue Fund # 140	Debt Service, Operation & Maintenance	\$1,000,000.00
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Requisition Approved	A motion was made by Mr. Guss, seconded by Mr. Dempsey, to approve Revenue Fund requisitions 140. The motion passed unanimously.
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6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending August 31, 2015.

6.2 Chairman’s Report

None

6.3 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>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>	<u>Aug. 2015</u>
Production	585 cu/yds.	942 cu/yds.	681 cu/yds.	882 cu/yds.	719 cu/yds.	517 cu/yds.
YTD. Production	1,816 cu/yds.	2,758 cu/yds.	3,439 cu/yds.	4,321 cu/yds.	5,040 cu/yds.	5,557 cu/yds.
Distribution	610 cu/yds.	1,146 cu/yds.	790 cu/yds.	744 cu/yds.	1,222 cu/yds.	540 cu/yds.
YTD. Distribution	1,827 cu/yds.	2,973 cu/yds.	3,763 cu/yds.	4,507 cu/yds.	5,729 cu/yds.	6,269 cu/yds.
Immediate Sale	1,396 cu/yds.	1,138 cu/yds.	1,290 cu/yds.	1,227 cu/yds.	887 cu/yds.	1,066 cu/yds.
Currently in Storage	1,981 cu/yds.	2,080 cu/yds.	1,971 cu/yds.	2,109 cu/yds.	1,606 cu/yds.	1,583 cu/yds.

SEPTAGE OPERATIONS

	<u>Feb. 2015</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>
<u>Res./Comm.</u>	<u>Mar. 2015</u>	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>	<u>Aug. 2015</u>
Hawbaker	0 gals.	0 gals.	0 gals.	0 gals.	4,000 gals.	4,700 gals.
CH/Potter	179,500 gals.	192,500 gals.	0 gals.	58,500 gals.	147,000 gals.	110,000 gals.
Port Matilda	9,778.65 lbs/solids	9,728.61 lbs/solids	6,394.28 lbs/solids	5,059.04 lbs/solids	7,038.96 lbs/solids	3,035.76 lbs/solids
Huston Twp.	2,018.28 lbs/solids	1,501.20 lbs/solids	2,068.32 lbs/solids	1,501.20 lbs/solids	1,684.68 lbs/solids	1,651.32 lbs/solids
Total Flow	617.16 lbs/solids	400.32 lbs/solids	366.96 lbs/solids	417.00 lbs/solids	633.84 lbs/solids	350.28 lbs/solids

6.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for August was 4.20mgd with the average for the month being 3.28mgd. The average monthly **influent** flow was 4.73mgd. There were no inspections by DEP this month. Treatment units on line are as follows: primary clarifiers #2,#4, #5and #6; aeration basins #1 and #2; secondary; clarifiers’ #2, #3 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Aug-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	39000	312,000		
Centre Hills	9,170,000	32,877,000	Aug-15	Aug-15
Cintas	750,000	6,040,000	71.7	70.8
Red Line	284,000	2,549,000		
Uaja Wetland	6,611,000	30,068,000		
GDK Vault	11,758,000	81,384,000		
Kissingers	1,143,000	7,176,000		
Stewarts	3,600	5,380		
TOTAL	29,758,600	160,411,380		

Plant Maintenance

- Replaced the motor in #1 Primary Air Compressor.
- Rebuilt Aeration tank Mixer AM-501.
- Rebuilt the exhaust fans for the dump bay at the Collections Building.
- Continuing to replace plastic guides in the Primary Tanks.
- Dock and Door replaced the keypad and timer for the security gate.
- The annual fire extinguisher inspection was performed.
- Hach performed start-up services for the Ozone Monitor and it is now ready for service.

- Completed the wiring for the equipment to protect the new RO membranes.
- Evoqua modified the PLC program to include warning and shutdown alarms if ozone is detected at the RO.
- ABB spent two weeks troubleshooting and replacing the back-drive for Centrifuge #1.
- Replaced the UPS back-up for the aeration control.
- Replaced a main power fuse in Composter #3. The power cable is shorted. New cables were ordered.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

- (UA) Lateral Installations – (0)
- (UA) Lateral Repairs – (1) 1342 W. Park Hills Ave.
- (UA) Mainline Cleaning – (59) manholes inspected- (10,561) feet cleaned
- (UA) Mainline Repairs – (1) Fox Hollow Rd.
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (18)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We are brushing in R.O.W.s and have been adjusting castings for paving work.

(A)CONSTRUCTION &(B)I/I INSPECTION: (A)(We TV’d 1112 ua/0 fta feet of mainline and inspected 7 ua/0 fta MH’s .) (B)Tested/Grouted – (MH’s grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0/) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU’s).

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

At Big Hollow we rebuilt the surge protector. We also repaired 2 E-1 pumps.

Inspection: Provisional As-builts Approved: None

Mainline Construction:

- a. Village at PSU, Ph12 – As-built drawings are being reviewed.

New Connections:

a.	Single-Family Residential	13	c.	Commercial	1	
b.	Multi-Family Residential	2	d.	Non-Residential	1	
					TOTAL	17

PA One-Calls Responded to 8/1-31/15: **322**

6.6 Engineer’s Report

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

Retainer

- HRG provided assistance with budget development.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- While servicing the sewage surge relief valve at the station, UAJA staff found that the oil reservoir was isolated from the main valve body and that the orientation of the valve may not be conducive to proper operation. HRG requested input from the valve manufacturer regarding the orientation. If it is determined to be an improper installation, a defective work notice will be sent to the Contractor (Contract 09-4)

Selders Circle Sewer Relocation

- A field survey will be completed and record drawings will be prepared after Ferguson Township completes all construction activities in the area.

Odor Control Study

- Alternatives evaluation has been completed focusing on 95% odor reduction from the compost facility and the dewatering facility. A presentation of the alternatives will be made at the meeting.

Standard Specifications and Details Update

- Draft specifications were delivered to and reviewed with the Authority. Comments are being incorporated.

Scott Road Force Main Evaluation

- A technical memorandum is being prepared.

Marywood Pump Station: Pump Failure Evaluation

- A technical memorandum outlining the basis of design for a future Waddle Pump Station is being developed.

Big Hollow Force Main Evaluation

- The high service pumps (100 series) have exhibited noise and vibration during operation that is believed to be related to air trapped within the force main line. HRG has been working with Staff to investigate and confirm this basis for these conditions. An update of the ongoing evaluation will be provided at the meeting

6.7 Construction Report

No report was received from the Construction Engineer.

6.8 Executive Director's Report

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

Beneficial Reuse Water Reclassification

DEP has confirmed that they still intend to visit UAJA October 1st to have several people from the drinking water program tour the advanced water treatment system, and to discuss alternatives.

7. Other Business

8. Adjournment

The meeting was adjourned at 6:00 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary

**MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – October 21, 2015**

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, October 21, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Guss, Lapinski, McShea, Nucciarone, Schmalz and Spac; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Mark Harter, Collection System Superintendent; Jason Brown, Project Manager; Dave Gaines and Scott Etters, Solicitor; Ben Burns, Tom Holleran and Dave Swisher, Consulting Engineers; Jason Wert, RETTEW; Eric Vorwald and Sharon Bressler, Center Region; Mark Whitfield, State College Borough; Laura Dininni and Kathy Wheeler; recording secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – September 16, 2015

**UAJA
Meeting Minutes
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve the minutes of the UAJA meeting held on September 16, 2015 as submitted. The motion passed unanimously.

3. Public Comment

Ms. Dininni stated that she is running for Ferguson Township Supervisor. Ms. Dininni stated that she has been attending numerous meeting and that she thanked the Board for being proactive in their thinking and planning.

4. Old Business

4.1. 2016 Budget

Included in the Board packet is the final draft of our 2016 Budget. Staff met with the budget sub-committee and reviewed all aspects of the document. As previously communicated, the budget uses reserves in the Bond Redemption & Improvement Fund and the Tapping Fee Fund to pay for planned capital improvements. These Funds have been built up over several years to be able to comfortably pay for the improvements.

**2016 Budget
Approved**

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the 2016 Budget. The motion passed unanimously.

4.2 Change Order #4 Contract 2014-05

This Change Order is a deduct from the contract in the amount of \$10,000 for deletion of the Painting Allowance. UAJA decided to retain the option to bid the painting work separately

**Change Order #4
Contract 2015-05
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Nucciarone, to approve Change Order # 4 Contract 2015-05 in the deductive amount of \$10,000. The motion passed unanimously.

4.3 **Change Order #5 Contract 2014-05**

This Change Order is a deduct from the contract in the amount of \$15,000 for deletion of the Centrifuge Controls. This work is now being done by Allied Controls for a lower cost.

**Change Order #5
Contract 2015-05
Approved**

A motion was made by Mr. McShea, seconded by Mr. Spac, to approve Change Order # 5 Contract 2015-05 in the deductive amount of \$15,000. The motion passed unanimously.

4.4 **Odor Control Study Draft Report**

HRG presented the results of the Odor Control Study for information and discussion.

4.5 **Slab Cabin Run Watershed Action Plan**

At the September meeting the Slab Cabin Run Watershed Action Plan was discussed. It was suggested that staff and the consultant work with Jon Dietz to refine the scope. The latest draft of the scope now reflects a more complete evaluation of upper Slab Cabin Run, which will identify existing impairments. The work is proposed as a first step to an Act 537 Plan amendment which will identify and permit sites for stream augmentation and wetland creation using beneficial reuse water.

Task 1 – Historical/Existing Conditions Assessment needs to be completed in advance of the Macroinvertebrate study in Task 3. Portions of Task 1 ideally should be undertaken in November of 2015 to allow for Task 3 to happen in January – May of 2016.

**Slab Cabin Run
Watershed Action Plan
Tasks 1 & 2
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to approve Slab Cabin Run Watershed Action Plan Tasks 1 & 2. The motion passed unanimously.

4.6 **Final Design: Canterbury Crossing Phase 1B**

Final design drawings for the Canterbury Crossing Phase 1B sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 12 EDU's of single family homes. The review comments have been addressed.

**Final Design:
Canterbury Crossing
Phase 1B
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dempsey, to approve Final Design: Canterbury Crossing Phase 1B. The motion passed unanimously.

5. **New Business**

5.1 **Sale of Phosphorous Credits – Contract with Furman Foods**

Included in the Board packet is a proposed contract with Furman Foods to purchase the P credits generated by UAJA. This contract is a 3 years contract that would pay UAJA \$5.00 per credit. In 2014 we sold our credits to Furman for \$2.00 per credit. For Water Year 2015 we generated 8013 credits to sell. New rules for credit generation will take effect in WY 2016 resulting in fewer credits being generated.

**Sale of Phosphorous
Credits – Contract with
Furman Foods
Approved**

A motion was made by Mr. Guss, seconded by Mr. Spac, to approve the Sale of Phosphorous Credits – Contract with Furman Foods. The motion passed unanimously.

5.2 Tapping Fee Adjustment

Each year the tapping fee is adjusted according to the change in the Engineering News Record Construction Cost Index from the previous October. Adjusting based on the October 2015 index results in the tapping fee increasing 2.5% from the current \$4711 to \$4829 per EDU. The budget in your agenda packet reflects the 2.5% increase.

**Tapping Fee
 Adjustment
 Approved**

A motion was made by Mr. Dempsey seconded by Mr. Spac, to approve the Plant Capacity Tapping Fee Adjustment by +2.5% to \$4829 Effective January 1, 2016. The motion passed unanimously.

5.3 Requisitions

BRIF #191	M2 Construction FINAL PAYMENT Contract 2014-05	\$21,000.00
BRIF #192	Dale Summit Acquisitions October Lease Pymt.	\$25,000.00
BRIF #193	HRG Odor Control Study	\$9869.21
BRIF #194	ABB Inc. Centrifuge Drives	\$24,290.00
BRIF #195	Allied Control Services Centrifuge Controls	\$2880.00

**Requisition
 Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Spac, to approve BRIF requisitions 191 - 195. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending September 2015.

6.2 Chairman’s Report

None

6.3 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>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>	<u>Aug. 2015</u>	<u>Sep. 2015</u>
Production	942 cu/yds.	681 cu/yds.	882 cu/yds.	719 cu/yds.	517 cu/yds.	646 cu/yds.
YTD. Production	2,758 cu/yds.	3,439 cu/yds.	4,321 cu/yds.	5,040 cu/yds.	5,557 cu/yds.	6,203 cu/yds.

Distribution	1,146 cu/yds.	790 cu/yds.	744 cu/yds.	1,222 cu/yds.	540 cu/yds.	707 cu/yds.
YTD. Distribution	2,973 cu/yds.	3,763 cu/yds.	4,507 cu/yds.	5,729 cu/yds.	6,269 cu/yds.	6,976 cu/yds.
Immediate Sale	1,138 cu/yds.	1,290 cu/yds.	1,227 cu/yds.	887 cu/yds.	1,066 cu/yds.	877 cu/yds.
Currently in Storage	2,080 cu/yds.	1,971 cu/yds.	2,109 cu/yds.	1,606 cu/yds.	1,583 cu/yds.	1,523 cu/yds.

SEPTAGE OPERATIONS

	<u>Apr. 2015</u>	<u>May 2015</u>	<u>Jun. 2015</u>	<u>Jul. 2015</u>	<u>Aug. 2015</u>	<u>Sep. 2015</u>
Res./Comm.	0 gals.	0 gals.	0 gals.	4,000 gals.	4,700 gals.	0 gals.
Hawbaker	192,500 gals.	0 gals.	58,500 gals.	147,000 gals.	110,000 gals.	0 gals.
CH/Potter	9,728.61 lbs/solids	6,394.28 lbs/solids	5,059.04 lbs/solids	7,038.96 lbs/solids	3,035.76 lbs/solids	6,755.40 lbs/solids
Port Matilda	1,501.20 lbs/solids	2,068.32 lbs/solids	1,501.20 lbs/solids	1,684.68 lbs/solids	1,651.32 lbs/solids	1,367.76 lbs/solids
Huston Twp.	400.32 lbs/solids	366.96 lbs/solids	417.00 lbs/solids	633.84 lbs/solids	350.28 lbs/solids	583.80 lbs/solids
Total Flow	268,000 gals.	59,900 gals.	117,500 gals.	228,000 gals.	154,200 gals.	70,000 gals.

6.4 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 one exception (low D.O. in the Effluent) to our NPDES permit. The 12-month rolling average flow for September was 4.17mgd with the average for the month being 4.24mgd. The average monthly **influent** flow was 5.84mgd. There were no inspections by DEP this month. Treatment units on line are as follows: primary clarifiers #2, #4, #5 and #6; aeration basins #1 and #2; secondary clarifiers #2, #3 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Aug-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	35,000	347,000		
Centre Hills	7,315,000	40,192,000	Sep-15	Sep-15
Cintas	772,000	6,812,000	73.1	70.0
Red Line	217,000	2,766,000		
Uaja Wetland	4,940,000	35,008,000		
GDK Vault	10,296,000	91,680,000		
Kissingers	1,101,000	8,277,000		
Stewarts	2,000	7,380		
TOTAL	24,678,000	185,089,380		

Plant Maintenance

- Replaced the wear strips in the Primary Tanks. They deformed after installation and we are currently working with the manufacturer to get them replaced under warranty.
- Replaced main air line on Primary diaphragm Pump #4.
- Installed new waterproof receptacle covers in the RAS Bldg. lower level.
- Replaced 16 lamps and one ballast in the Outfall U.V. Lights Bank 1A.
- The Ozone alarms have been tested and the Ozone is now in full-time operation.
- The polymer mixer gearbox has worn out and we have one on order with a 4-6 week lead time for delivery.
- Cleaned the laterals in the Bio-Filter.
- Replaced the motor drive belts in MAU-1301 and MAU-1304.
- Installed test ball in the line for the Bio-Filter under drain.

6.5 Collection System Superintendent’s Report

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

Mainline Maintenance:

(UA) New Lateral Installations – (2) 121 Avalon Drive & 121 Shady Drive.

(UA) Manhole Casting Repairs – (25) For Township Paving Projects.

(UA) Mainline Construction – Started the Force Main Replacement at Scott Road Pump Station (10%) complete.

Repaired water line at Trout Road rental house.

Cleaned (8) Pump Station Wet Wells.

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

Rebuilt the Valve Pit at Harris Drive Pump Station.

Repaired (4) E-One Pump Cores.

Next Month Projects:

Completing Scott Road force main replacement.

Rebuilding Harris Drive pump station Wet Well.

Inspection: Final As-Builts Approved: Village at PSU, Ph12

New Connections:

a.	Single-Family Residential	20	c.	Commercial	0	
b.	Multi-Family Residential	0	d.	Non-Residential	0	
					TOTAL	20

PA One-Calls Responded to 9/1-30/15: 486

6.6 Engineer's Report

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

Retainer

- HRG provided assistance with budget development.

Big Hollow Interceptor Rehabilitation

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- While servicing the sewage surge relief valve at the station, UAJA staff found that the oil reservoir was isolated from the main valve body and that the orientation of the valve may not be conducive to proper operation. HRG requested input from the valve manufacturer regarding the orientation. The manufacturer has responded that the orientation will not impact operation of the valve.

Selders Circle Sewer Relocation

- A field survey will be completed and record drawings will be prepared after Ferguson Township completes all construction activities in the area. Final restoration and grade adjustment is scheduled for the end of October.

Odor Control Study

- Alternatives evaluation has been completed focusing on 95% odor reduction from the compost facility and the dewatering facility. A presentation of the alternatives will be made at the meeting.

Standard Specifications and Details Update

- Draft specifications were delivered to and reviewed with the Authority. Comments have been incorporated and final draft specifications will be delivered to the Authority for distribution.
- Updates to the policy have been made and following an internal review will be submitted to the Authority. The policy has been separated from the technical specifications.
- Attended a meeting with Authority staff to discuss changes to the plan review submittal and response process. Reviewed and commented on a letter drafted by Jason Brown that documented procedural changes.

Marywood Pump Station: Pump Failure Evaluation

- A technical memorandum outlining the basis of design for a future Waddle Pump Station has been prepared and will be delivered to the Authority after an internal QA/QC review.

Big Hollow Force Main Evaluation

- Participated in a conference call with KCF Tech, which was contacted by the Authority to provide a more extensive vibration analysis. HRG is available to assist with the analysis and provide information to KCF Tech as needed.

Reclaimed Water Distribution to Solids Handling Facilities

- A technical memorandum was delivered to the Authority for use in procuring equipment and making the necessary modifications to provide reclaimed water to the solids handling facilities.

Developer Plan Reviews: Canterbury Crossing, Lot 33, Phase 1B

- The submitted design was reviewed with staff, and for conformance with the specifications. After revision, the design complies with UAJA requirements, and is recommended for approval.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Assisted in Evaluation of Composting and Dewatering Practices to increase efficiency
- Completed Act 129 Rebate Application for Ozone System Modifications
- Assisted in recommissioning of AWT processes after Ozone restart
- Provided Budgetary Figures for AWT MF Unit
- Coordinated and prepared initial Nutrient Offset Discussion for PA DEP and met at Central Office and Site to prepare Nutrient Offset Certification Package

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- RETTEW has reviewed the Closeout documentation from M2 Construction, LLC for Contract 2014- 05 and has recommended final payment of \$21,000.00.
- Contract 2014-06 has three items to complete (Dehumidifier Training, Leak Correction, Balancing in AWT) and Contract 2014-07 has one item to complete (FLIR Testing on Panels).

Change Orders:

- Change Order #4 was prepared in the deductive amount of \$10,000.00 for 2014-05 M2 Construction, LLC for the deletion of the Painting Allowance to allow for it to be bid separately. The Change Order was requested by UAJA and reviewed by RETTEW and is recommended for Approval.
- Change Order #5 was prepared in the deductive amount of \$15,000.00 for 2014-05 M2 Construction, LLC for the deletion of the Centrifuge Controls to allow for it to be completed by Allied Controls, Inc. at a lower cost. The Change Order was requested by RETTEW and reviewed by UAJA and is recommended for Approval.

A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	(\$23,371.42)	\$931,328.58	100%	\$931,328.58	-

2014-06	\$198,500.00	\$23,887.71	\$222,387.71	99.9%	\$150,353.65	\$72,034.06
2014-07	\$121,700.00	\$18,238.40	\$111,851.34	79.4%	\$111,851.34	\$28,893.33
2014-08	\$158,995.00	\$160,942.25	\$319,937.25	100%	\$325,624.50	(\$5,687.25)

*Inclusive of Recommended Payment for this Board Report

6.8 Executive Director’s Report

Mr. Miller had nothing further to add.

7. Other Business

8. Adjournment

The meeting was adjourned at 6:04 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary