

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – April 20, 2016

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, April 20, 2016. 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 and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Mark Harter, Collection System Superintendent; Jason Brown, Project Manager; Dick Campbell, Solicitor; Ben Burns, Tom Holleran and Adrienne Vicari, Consulting Engineers; Jason Wert, RETTEW; Autumn Randle, COG; Mark Whitfield, State College Borough; Sharon Bressler; Tom Songer, Laura Dininni, Kevin Mullen and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – March 16, 2016

UAJA Meeting Minutes Approved
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A motion was made by Mr. Dietz, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on March 16, 2016 as submitted. The motion passed unanimously.

3. Public Comment

Mr. Mullen stated that he has had no communication from the Authority as to the reasoning behind billing him for two units or what he can do to make the billing one unit again. Mr. Lapinski asked that Mr. Miller put into writing to Mr. Mullin the Board's reasoning for the billing of two units as soon as possible.

4. Old Business

4.1 2015 Audit

Maher Duessel completed the fieldwork for the audit on March 17, 2016. Staff is working to complete the "Management Discussion and Analysis" requirement of the report. A draft audit report will be completed May 2, 2016. The draft will be provided to the Board that week for comments or questions. Brian McCall and Mallory Starr of Maher Duessel will present the final draft audit for Board approval at the May 18, 2016 meeting.

4.2 Act 57 Study

Ms. Vicari reviewed with the Board the draft Act 57 Capital Charges Study prepared by HRG. The purpose of the study is to calculate the maximum tapping fees allowable according the Municipalities Authorities Act. The report finds that the maximum fees are as follows:

Max Hydraulic fee (capacity and collection parts) = \$6,388 per EDU
Max Hydraulic fee (capacity and collection parts) = \$29.85 per gpd
Max Organic fee (capacity and collection parts) = \$16,810.53 per lb.

The current tapping fee is \$4829 per EDU, so it is within the limit indicated by the report.

There were no questions or comments concerning the content of the Act 57 Study. Mr. Whitfield asked if the current tap fee is plant capacity only. Mr. Miller stated that it is plant capacity only. UAJA did not elect to charge a collection tapping fee. Mr. Songer asked if he had a 10,000 sq. ft. building with 20 employees and the tap fee was based on organic loading what would his tap fee be. Mr. Miller stated that there isn't an answer yet but most likely the calculation of the

organic fee would be based on industry standards for BOD from typical non-residential activities.

**Act 57 Study
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the Act 57 Study. The motion passed unanimously.

4.3 Nutrient Credits/Offsets For New Developments

At the March 16, 2016 meeting of the UAJA board, the board took action to eliminate the halt on final sewer design approvals. The Board did have reservations based on developers being able to rush approvals to avoid potential costs of complying with the future nutrient policy. The Board asked staff to write a letter to the municipalities asking for input. The letter is included in the agenda packet.

The letter was considered at the April 7th COG Public services and Environmental Committee meeting, where the committee voted to propose option 3 in the letter be considered by the COG General Forum:

Put a time limit on service approval, such that the service approval expires if construction is not underway within one year of the service approval letter. This may allow a developer to rush their development, but they would not be able to avoid the requirements of the nutrient management plan for a development they have no intention of immediately developing.

The COG General Forum meeting will not occur until April 25th. There are, however, no requests for service that are known at this time. Waiting until April 25th or the May meeting of the UAJA Board should not pose a problem.

**Service Approval
Time Limit
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Ebaugh, to impose a one year expiration on any service approval letter for which construction has not been initiated, pending approval by the COG General Forum. The motion passed unanimously.

4.4 Standard Specifications and Details

HRG has been working with staff to bring our Standard Specifications package up to date. A draft of this document has been developed and has been shared with a number of clients that routinely refer to the Standard Specs for any comments they might have. No comments have been received. HRG has also met with UAJA's staff to address any concerns. Staff believes the Standard Specifications are ready for adoption.

Mr. McShea asked if the requirement for steel sleeve can be addressed by using PVC. Mr. Harter said that he would review this and make any changes as needed.

**Standard Specifications
and Details
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. McShea to approve the Standard Specifications and Details. The motion passed unanimously.

4.5 Final Design: Stearns Crossing Phase 9

Final design drawings for the Stearns Crossing Phase 9 sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension

will serve 14 EDUs of single family homes. The review comments have been addressed.

**Final Design: Stearns
Crossing Phase 9
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the Final Design: Stearns Crossing Phase 9. The motion passed unanimously.

4.6 Final Design: Fieldstone Phase 4

Final design drawings for the Fieldstone Phase 4 sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 20 EDUs of single family homes. The review comments have been addressed.

**Final Design: Fieldstone
Phase 4
Approved**

A motion was made by Mr. Dietz, seconded by Mr. McShea, to approve the Final Design: Fieldstone Phase 4. The motion passed unanimously.

5. New Business

5.1 Requisitions

BRIF #214	Dale Summit Acquisitions April 2016 Lease Payment	\$25,000.00
BRIF #215	Evoqua Water Technologies 90 MF Membranes	\$90,000.00
BRIF #216	The Hite Company Surge Protector/Circuit Breaker Dewatering Power Dist. Panel	\$9,738.00
BRIF #217	Rettew Construction Mgmt. Dewatering Controls Project	\$7,818.00
BRIF #218	Allied Control Services, Inc. Payment #2 Dewatering Controls Project	\$141,174.80

**Requisitions
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Dempsey, to approve the BRIF Requisitions #214-218. The motion passed unanimously.

Revenue Fund #143	Debt Service, Operating and Maintenance Expenses	\$1,000,000.00
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**Requisition
Approved**

A motion was made by Mr. McShea, seconded by Mr. Nucciarone, to approve the Revenue Fund #143 Requisition. 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, 2016.

6.2 Chairman's Report

Mr. Schmalz thanked Mr. Lapinski for chairing the meeting in his absence and also thanked Mr. Dempsey for reporting to the Borough Council.

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. 2015</u>	<u>Nov. 2015</u>	<u>Dec. 2015</u>	<u>Jan. 2016</u>	<u>Feb. 2016</u>	<u>Mar. 2016</u>
Production	764 cu/yds.	898 cu/yds.	962 cu/yds.	927 cu/yds.	706 cu/yds.	694 cu/yds.
YTD. Production	6,967 cu/yds.	7,865 cu/yds.	8,827 cu/yds.	927 cu/yds.	1,633 cu/yds.	2,327 cu/yds.
Distribution	598 cu/yds.	844 cu/yds.	439 cu/yds.	424 cu/yds.	618 cu/yds.	898 cu/yds.
YTD. Distribution	7,574 cu/yds.	8,418 cu/yds.	8,857 cu/yds.	424 cu/yds.	1,042 cu/yds.	1,940 cu/yds.
Immediate Sale	925 cu/yds.	845 cu/yds.	1,304 cu/yds.	1,842 cu/yds.	2,151 cu/yds.	1,989 cu/yds.
Currently in Storage	1,689 cu/yds.	1,743 cu/yds.	2,266 cu/yds.	2,769 cu/yds.	2,857 cu/yds.	2,683 cu/yds.

SEPTAGE OPERATIONS

	<u>Oct. 2015</u>	<u>Nov. 2015</u>	<u>Dec. 2015</u>	<u>Jan. 2016</u>	<u>Feb. 2016</u>	<u>Mar. 2016</u>
Res./Comm.	3,000 gals.	0 gals.	0 gals.	0 gals.	0 gals.	14,800 gals.
Hawbaker	162,500 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
CH/Potter	4,716.27 lbs/solids	5,258.37 lbs/solids	7,447.62 lbs/solids	4,657.89 lbs/solids	6,138.24 lbs/solids	7,697.82 lbs/solids
Port Matilda	1,200.96 lbs/solids	1,217.64 lbs/solids	1,668.00 lbs/solids	1,517.88 lbs/solids	1,501.20 lbs/solids	1,601.28 lbs/solids
Huston Twp.	350.28 lbs/solids	400.32 lbs/solids	0 lbs/solids	1,000.80 lbs/solids	767.28 lbs/solids	800.64 lbs/solids
Total Flow	222,500 gals.	62,500 gals.	72,500 gals.	61,500 gals.	75,500 gals.	86,800 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 4.71mgd with the average for the month being 4.16mgd. The

average monthly **influent** flow was 5.45mgd. We are currently working with DEP on a metering frequency at Outfall 301 at the Wetlands. The issue should be resolved by next month. There were no plant inspections this month.

Treatment units on line are as follows: primary clarifiers #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:

	Mar-16	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	24,000	69,000		
Centre Hills	0	0	Mar-16	Mar-16
Cintas	936,000	2,342,000	56.9	52.6
Red Line	414,000	1,298,000		
Uaja Wetland	4,131,000	10,519,000		
Wetland Vault	11,408,000	27,492,000		
Kissingers	1,033,000	3,098,000		
Stewarts	0	0		
TOTAL	17,946,000	44,818,000		

Plant Maintenance

- Replaced a relay in the motor starter for Air-Scour Blower #2.
- Serviced the carbon tank and pumps. Began feeding Micro-C at a low rate on 3/21/16.
- Replaced all of the lamps and defective parts in Outfall UV Banks 1B and 2A.
- The drive bearing and seals went out on Continental blower #3. Parts are on order.
- Cleaned the weirs on the Secondary clarifiers and installed the weir brushes and replaced the rubber on the skimmer arms.
- Rebuilt spare Landia Mixers. Aeration Tank #3 will be serviced in preparation for a tank rotation in the spring.
- Performed a double clean, utilizing a new cleaning chemical, on the RO. The RO pressure dropped dramatically and the output was raised back to full capacity.
- Checked the operation of all the valves on the MF Units. Replaced nine stem seals.
- Pumped out the manholes at Kissinger meadows and started the subsurface water feed.
- Wedeco was in to replace the faulty air monitor for the O-zone System. The system seems to operating normally.
- Replaced the tank level transducer in WAS Tank #3.
- Replaced one of the Tuthill Blowers for WAS tank #5.
- Allied continues to work on the update for the Centrifuge Control Panels.
- Cleaned the Bio-Filter laterals.

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:

New Lateral (1) – Lot 3 E. Branch Road.

Lateral Repairs (4) – 2038 Pine Cliff, 24 and 26 Cricklewood Cir., 1935 Park Forest Ave.

Mainline Repairs (5) – 1935 Park Forest Ave., 2038 Pine Cliff, 12 and 14 Cricklewood Cir., Norwood and Park Forest Int.

Mainline Cleaning – (29) manholes Inspected / (5,467) ft. of mainline cleaned.
Mainline Televising for 2016 Township Paving projects (1393.6) ft. televised (12) manholes inspected.

(I/I) Joint Testing and Grouting / Boalsburg Interceptor.
(98) Joints tested / (45) Joints grouted / (2) Manholes grouted.
418.9 gallons of grout used / Estimated 32,400 GPD of infiltration eliminated.

Lift Station Maintenance:

Repaired (1) 3127 FLYGT Pump.
Repaired (4) E-One Pump Cores.
Cleaned (12) lift station Wet Wells.
Installed new motor starter and power control breaker at Graysdale 2A pump station.

NEXT MONTH PROJECTS:

Main Line repairs on Sylvan Drive and W. Cherry Lane for paving projects.
Main repair at 300 Puddintown Road.
Preparation work on the Suburban back-lot project.

Inspection: Final As-Builts Approved: None

Mainline Construction

- a. North Atherton Place – We are awaiting As-Builts.
- b. Stearns Crossing Ph. 8 – construction is 95% complete.
- c. Canterbury Crossing Lot 33 ph. 1B – construction is 75% complete.
- d. Rockey Ridge Sections 3&4 – Started Construction

New Connections:

a.	Single-Family Residential	12	c.	Commercial	0
b.	Multi-Family Residential	3	d.	Non-Residential	0
					TOTAL 15

PA One-Calls Responded to 3/1-31/16: 351

6.6 Engineer's Report

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

Retainer

- The annual inspection for discharges of stormwater as required by the NPDES Permit was scheduled for Monday, April 18, 2016 did not occur due to lack of rain.

Odor Control Study

- A meeting will be scheduled with Authority staff to review the scope of services provided in the basis of design proposal for the odor control project.

Standard Specifications and Details Update

- Revisions to the Authority's policy on sanitary sewer service and extensions to the existing system were discussed with the staff. The policy document and associated appendices were then revised and provided to the staff.

Act 57 Study

- The Act 57 Study will be presented at the April meeting. Adrienne Vicari will be available to accept questions and participate in discussions.

Big Hollow Force Main Evaluation

- Several air valve manufacturers were contacted to confirm recommendations for sizing and to obtain costs to increase the size of the air release valves. Final recommendations on sizing will be reviewed with KCF Tech. A summary is expected to be provided by the date of the Board meeting.

Overlook Heights Sanitary Sewer Replacement: Suburban Avenue Backlot

- Easement exhibits have been prepared and were provided to Authority staff and the Solicitor.
- Preliminary design drawings have been prepared for review with Ferguson Township.
- Work is ongoing to complete:
 - a. Sewage Facilities Planning Module
 - b. Water Quality Management Permit Application
 - c. Erosion and Sedimentation Pollution Control Plan
- The swale through the Suburban Park parcel has been identified as a tributary stream of the Big Hollow. After coordination with the Centre County Conservation District and the PA DEP, work has commenced on a GP-5 Utility Line Stream Crossing permit application.

Engineer's Certification for the 2016 Bonds

- Completed the review of the documents and issued the Consulting Engineer's Certificate to Bond Counsel.

Meeks Lane Pump Station and Force Main Design

- Field inspection of the proposed force main alignment was completed.
- Basis of design flow rates have been developed for build out of west Patton Township and expansion of the sewer service area into Halfmoon Township.
- Pump design criteria have been identified and Flygt has provided budgetary pricing.
- A preliminary forcemain profile has been developed. The alignment appears to be constructible without intermediate high points while minimizing depth of installation.
- The conceptual design includes a series pumping application. Buildout within the existing sewer service area can be handled with a single set of pumps; however, with increased flows and increased friction loss, series pumping is required to meet future peak flow total dynamic heads.

Developer Plan Reviews:

- Two (2) Developer design plans were received and reviewed (Fieldstone Phase 4 and Stearns Crossing Phase 9) and both were recommended for approval.

Wetland Flow Meter

- Worked with Authority staff to log and access flow monitoring data at the wetland site to comply with NPDES permit requirements.

6.7 Construction Report

Mr. Wert reported that that the centrifuge project is completed with the punch list items addressed/

6.8 Executive Director's Report

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

2015 Chapter 94 Report

The Chapter 94 Report was submitted to DEP in March. DEP reviewed the report and deemed it both complete and accurate. A copy of their review letter in the Board packet. While the letter indicates that UAJA has no problem with hydraulic or organic capacity, it does not mention nutrient capacity. For water year 2015, The Nitrogen mass limit was 164,391 pounds, of which UAJA used 153,499 pounds. This limit was met by spending \$290,382 on Carbon addition. PA Chapter 94 does not address nutrient capacity. When it was written, only hydraulic capacity and organic capacity were included, since the Chesapeake Bay TMDL did not exist at that time. For hydraulic and organic capacity, when a treatment facility reaches 80 percent DEP requires an Act 537 Plan revision. UAJA is at 93 percent of Nitrogen capacity.

Presentation at State College Borough Work Session

Brian Dempsey, at the request of Borough Council, presented a status report at the March 11th work session. A copy of Mr. Dempsey's presentation is included in the agenda packet. It is also viewable at www.cnet1.org.

7. Other Business


None

8. Adjournment

The meeting was adjourned at 5:08 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary