

**MINUTES**  
**UNIVERSITY AREA JOINT AUTHORITY**  
**1576 SPRING VALLEY ROAD**  
**STATE COLLEGE, PA 16801**  
**Regular Meeting – October 15, 2014**

**1. Call to Order**

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:06p.m. Wednesday, October 15, 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 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 and David Gaines, Solicitor; Doug Weikel and Ben Burns, Consulting Engineers; Eric Vorwald, Centre Region; Mark Whitfield, State College Borough; and Kathy Wheeler, Recording Secretary.

**2. Reading of the Minutes**

**2.1 UAJA Regular Meeting – September 17, 2014**

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| <b>UAJA<br/>Meeting Minutes<br/>Approved</b> |
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A motion was made by Mr. Lapinski, seconded by Mr. Dietz, to approve the minutes of the UAJA meeting held on September 17, 2014 as submitted. The motion passed unanimously.

**3. Public Comment**

None.

**4. Old Business**

**4.1 Actions required for the Series of 2014 Revenue Bonds**

Signature pages were presented for signature by the Chairman, Vice-Chairman, Secretary and Assistant Secretary as required for the Series of 2014 Revenue Bonds.

**4.2 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. Staff had estimated that the fee would increase 3.4% based on information available in August. Rather than increasing further from August, the index dramatically decreased to only 2% from last year. The draft budget indicated a tapping fee of \$4776 per EDU based on the estimated 3.4% increase. Adjusting based on the actual index results in the tapping fee increasing from the current \$4619 to \$4711 per EDU. The budget in your agenda packet reflects the 2% increase.

|  |
|--|
| <b>Tapping Fee<br/>Adjustment<br/>Approved</b> |
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A motion was made by Mr. Dempsey, seconded by Mr. McShea, to adjust plant capacity tapping fee by +2% according to the ENR construction cost index October 2014. The motion passed unanimously.

**4.3 2015 Budget**

Included in the Board packet is the final draft of our 2015 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.

|                                 |   |
|---------------------------------|---|
| <b>2015 Budget<br/>Approved</b> | A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the 2015 Budget. The motion passed unanimously. |
|---------------------------------|---|

**5. New Business**

**5.1 Borough Request for a Joint Rate Study**

Mark Whitfield, Borough Public Works Director, in a letter dated October 8, 2014, has requested that UAJA consider sharing in the cost of a rate study. A copy of the letter is included in the agenda packet.

Currently UAJA charges the Borough based on the volume that passes through the various meters. The cost per million gallons calculation dates back to 1998, which is when the CHJA and PFJA were combined into UAJA. From that time forward, the rate that was in effect in 1998 has simply been adjusted based on the percentage increase applied to the EDU rate. The current cost per million gallons billed to the Borough almost certainly does not reflect the true cost of service.

Determining the cost per million gallons is not difficult. The total flow to the plant is metered, and Authority expenses are tracked. The cost per million gallons is the expenses divided by the total plant flow.

A smaller issue is the accounting of the properties that are in the Borough but served by UAJA, and those that are in the townships but served by the Borough. These result from the fact that municipal boundaries do not follow sewer drainage boundaries. The 2000 agreement addresses these properties, and the staff of UAJA and the Borough attempt to keep track of these properties. It is likely that changes to property uses have occurred since 2000, and some or many of these changes may not have been identified.

The service agreement between UAJA and the Borough expires September 15, 2020. Between now and then the agreement needs to be negotiated. The existing agreement does not define a particular methodology for determining the rate for billing the Borough, although it does require the Borough to approve any change in rates that is not required for maintaining debt service coverage.

The Board directed Staff to first develop the scope and cost per million gallons and bring that back to the Board at the December 2014 meeting.

**5.2 Requisitions**

|           |  |              |
|-----------|--|--------------|
| BRIF #112 | Lobar Inc.<br>Pay App #18<br>Big Hollow Pump Station                             | \$17,423.87  |
| BRIF #113 | John Nastase Construction<br>Pay App #2<br>Wetland and Stream Augmentation       | \$206,019.00 |
| BRIF #114 | Dale Summit Acquisitions<br>October 2014 Lease Pymt<br>Reuse Water Storage Tanks | \$25,000.00  |

|           |                             |            |
|-----------|-----------------------------|------------|
| BRIF #115 | Rettew<br>SHAFT Engineering | \$2,975.00 |
|-----------|-----------------------------|------------|

|           |                             |          |
|-----------|-----------------------------|----------|
| BRIF #116 | IC & EE<br>Big Hollow SCADA | \$921.94 |
|-----------|-----------------------------|----------|

**Requisitions  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the BRIF # 112-116. The motion passed unanimously.

|                   |   |             |
|-------------------|---|-------------|
| Revenue Fund #135 | Debt Service, Operating<br>And Maintenance Expenses | \$1,000,000 |
|-------------------|---|-------------|

**Requisitions  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Ebaugh, to approve the Revenue Fund # 135. The motion passed unanimously.

5.3 **American Ale House**

The American Ale House is doing 2 new laterals. There will not be any additional EDU's as this is a mainline extension project.

**American Ale House  
Extension  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the sewer mainline extension for the American Ale House. The motion passed unanimously.

5.4 **Follow-up to meeting held with College Township Water Authority**

Mr. Miller reported that he received a letter outlining College Township Water Authority's offer to resolve their outstanding billing issues for customers that use UAJA's reuse water. After a lengthy discussion, the following motions were considered.

**Addendum  
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. McShea, to approve the revised addendum to the agreement as proposed by Miller, Kistler and Campbell. The revised addendum clarifies that both CTWA and College Township must endorse all future College Township reuse customers. The motion passed with Mr. Dietz opposing the motion.

**Proposal of Payment  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. McShea, to offer CTWA \$2/1000 gallons for the past due amounts in dispute (Red Line Speed Shine and Best Western). The motion also confirms UAJA's intension to pay ½ the CTWA rate for those two customers going forward. The motion passed with Mr. Lapinski voting no.

**6. Reports of Officers**

**6.1 Financial Report**

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

**6.2 Chairman’s Report**

**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. 2014</u> | <u>May 2014</u> | <u>Jun. 2014</u> | <u>Jul. 2014</u> | <u>Aug. 2014</u> | <u>Sep. 2014</u> |
|-----------------------------|------------------|-----------------|------------------|------------------|------------------|------------------|
| <b>Production</b>           | 716 cu/yds.      | 859 cu/yds.     | 689 cu/yds.      | 613 cu/yds.      | 425 cu/yds.      | 563 cu/yds.      |
| <b>YTD. Production</b>      | 2,802 cu/yds.    | 3,661 cu/yds.   | 4,350 cu/yds.    | 4,963 cu/yds.    | 5,388 cu/yds.    | 5,951 cu/yds.    |
| <b>Distribution</b>         | 2,299 cu/yds.    | 863 cu/yds.     | 561 cu/yds.      | 645 cu/yds.      | 432 cu/yds.      | 1,428 cu/yds.    |
| <b>YTD. Distribution</b>    | 2,825 cu/yds.    | 3,688 cu/yds.   | 4,249 cu/yds.    | 4,894 cu/yds.    | 5,326 cu/yds.    | 6,754 cu/yds.    |
| <b>Immediate Sale</b>       | 1,163 cu/yds.    | 907 cu/yds.     | 1,205 cu/yds.    | 1,247 cu/yds.    | 1,428 cu/yds.    | 585 cu/yds.      |
| <b>Currently in Storage</b> | 1,879 cu/yds.    | 1,766 cu/yds.   | 1,894 cu/yds.    | 1,860 cu/yds.    | 1,853 cu/yds.    | 1,148 cu/yds.    |

**SEPTAGE OPERATIONS**

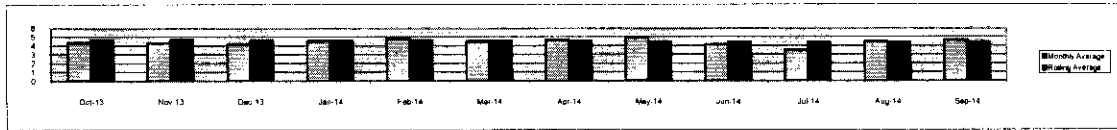
|                     | <u>Apr. 2014</u>    | <u>May 2014</u>     | <u>Jun. 2014</u>    | <u>Jul. 2014</u>     | <u>Aug. 2014</u>    | <u>Sep. 2014</u>    |
|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|---------------------|
| <b>Res./Comm.</b>   | 6,500 gals.         | 10,000 gals.        | 19,100 gals.        | 13,300 gals.         | 0 gals.             | 7,400 gals.         |
| <b>* Other Flow</b> | 66,000 gals.        | 78,000 gals.        | 0 gals.             | 0 gals.              | 0 gals.             | 0 gals.             |
| <b>CH/Potter</b>    | 9,324.12 lbs/solids | 8,239.92 lbs/solids | 8,131.50 lbs/solids | 12,414.09 lbs/solids | 3,144.18 lbs/solids | 5,204.16 lbs/solids |
| <b>Port Matilda</b> | 1,718.04 lbs/solids | 1,901.52 lbs/solids | 1,617.96 lbs/solids | 1,768.08 lbs/solids  | 1,417.80 lbs/solids | 1,551.24 lbs/solids |
| <b>Huston Twp.</b>  | 1,100.88 lbs/solids | 0 lbs/solids        | 817.32 lbs/solids   | 600.48 lbs/solids    | 567.12 lbs/solids   | 683.88 lbs/solids   |
| <b>Total Flow</b>   | 144,500 gals.       | 153,500 gals.       | 88,600 gals.        | 100,300 gals.        | 39,500 gals.        | 72,900 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 with three exceptions to our NPDES permit. We had a reading of 2.19mg/l of ammonia with the instantaneous max being 2.0 mg/l, we had a fecal count of 1250 cfu/100ml with a limit of 1000 cfu/100ml, and a D.O. reading of 4.0 with a minimum limit of 5.0 on September 4<sup>th</sup>, 2014. Measures were taken to get back into compliance. This was the only day we were out of compliance. The 12-month rolling average flow for September was 4.38mgd with the average for the month being 4.63mgd. Please see chart below.



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, #3 and #4; eight tertiary filters.

**Plant Maintenance**

- Replaced the lamps and wiper seals in Outfall UV Bank 1A.
- Re-pointed bad sections of brick work on the Admin. Bldg.
- Replaced the oil sensor in Primary Air-compressor #1.
- Replaced the fan belts on the rooftop of the AWT Feed Pump Station.
- Replaced the Blend Tank level monitor at Dewatering.
- Replaced the pump controller for the pumps at Septage receiving.
- Repaired the controls for Bay 2 Zone B and Bay 1 Zone B bay fans.
- Replaced the air line dryer cooling fan in AWT Compressor #2.
- Replaced the wheel drive control switch on Composter #2
- Installed the spare blower in Bay 18 Zone A.
- Repaired the concrete slab over the wet well at the Main Station.
- Installed spare UV intensity probe in UV #1. It will be sent out for calibration.
- Replaced the pressure regulator on the reuse line supplying the AWT.

**Reuse Total**

Total for 2014-----98,869,700 gallons.  
 Total for September 2014-----16,165,900 gallons.  
 Total Reuse Water Distributed to Date-----542,833,300 gallons.

**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 – (0)
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (2) N.Atherton St. and the old Penn State Trailer Park.
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (7)
- (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 Big Hollow force-main work and made the final tie-in connections. The main service pumps are being tested at this writing and will be put on line early in October. We have completed approximately 20% of the Selder’s Circle mainline replacement work in Pine Grove Mills. We also did some equipment maintenance.

**(A)Construction &(B)I/I Inspection(A)**(We TV’d 2036 ua/0 fta feet of mainline and inspected 16 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 2 Flygt pumps and 2 E-One grinder pumps.

**Inspection:** Final As-builts : Liberty Hill, Phase 2C

Mainline Construction:

- a. Rockey Ridge, ph2 – Construction is approximately 95% complete.
- b. Villal & Villa 2 Apts. Replacement – Construction is approximately 95% complete.
- c. The Gates – As-built drawings are being reviewed.
- d. Turnberry, Ph2 – Construction is approximately 20% complete.
- e. The Landings, Ph1B – Construction is approximately 35% complete.
- f. Saybrook, Ph 10 - Construction is approximately 30% complete.

New Connections:

|    |                           |    |    |            |              |           |
|----|---------------------------|----|----|------------|--------------|-----------|
| a. | Single-Family Residential | 20 | c. | Commercial | 1            |           |
| b. | Multi-Family Residential  | 0  | d. | Industrial | 0            |           |
|    |                           |    |    |            | <b>TOTAL</b> | <b>21</b> |

PA One-Calls Responded to 9/1-30/14: **309**

**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 October 9, 2014, date of Board Meeting)***

| Notice to Proceed | Contract Time <sup>1</sup> | Substantial Completion <sup>1</sup> | Time Used | % Used |
|-------------------|----------------------------|-------------------------------------|-----------|--------|
| 2/26/2013         | 323                        | 1/15/2014                           | 596       | +100%  |

<sup>1</sup>Contract 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
  - ✓ Based on the progress of work, a Construction Conference was not held in October.
  - ✓ Contractor and Owner mutually agreed to postpone mediation until project completion for Engineer’s denial of costs for flooding.
  - ✓ Contractor requested time extensions
    - Delays associated with wet weather
    - Delays associated with delay in permanent power
    - Delays associated with cold weather
    - Delays associated with relocation of sewer line
  - ✓ Contractor submitted an additional claim for storm runoff that impacted the site on August 20, 2014.
  - ✓ 100 and 200 Series Pumps tested on October 3<sup>rd</sup>.
  - ✓ Pump station was placed into operation using the 200 Series Pumps. There are some control issues that need to be resolved. The operation of the 200 Series Pumps are presumably causing the entrainment of air. HRG is working with UAJA staff for a resolution.
  - ✓ Working with Contractors to relocate the floats and transducer in both wet wells.
  - ✓ Contract 09-4 has requested substantial completion. An inspection will be scheduled once required documentation is submitted.

**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 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-I         | \$ 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    | Under Review   |
| COR 4-13 | GC       | Rain Event on August 20, 2014                     | \$14,749.71   | Under Review   |
| WCD 4-4  | GC       | Cut through concrete encasement on 36” pipe       | Developing    | Recommended    |
| WCD      | GC       | Delete Requirements for Code Required             | Developing    | Concrete       |

|     |         |   |         |
|-----|---------|---|---------|
| 4-5 | Testing | g | Testing |
|-----|---------|---|---------|

*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.     | 18      | \$17,423.87 |
| 09-5       | Mechanical | Port Vue        | --      | \$ --       |
| 09-6       | Electrical | Lepley Electric | --      | \$ --       |
|            |            |                 |         | \$17,423.87 |

**Constructed Wetlands**

- Contractor has requested substantial completion. An inspection will be scheduled to develop a punchlist.
- A photograph presentation will be made at the board meeting.

*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 | 2       | \$206,019.00 |
|            |          |              |         | \$206,019.00 |

**Selders Circle Sewer Relocation**

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

**Ghaner Road Pump Station**

- PLC programming patch installed and all alarming is displayed appropriately.
- Field survey is being completed and record drawings are being prepared.

**Odor Control Study**

- Fall sampling event scheduled for Monday, October 27<sup>th</sup>.
- Results from the summer sampling event concluded that the highest odor emission rates are derived from the biofilter, the dewatering building, the headworks building, and the primary clarifier. Additional details will be provided at the board meeting.

**6.7 Executive Director's Report**

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

**Brush Waste Collection**

At the October 7, 2014 COG Public Services and Environmental Committee meeting, College Township presented their problems in handling brush collection. It appears that there is interest in exploring a regional approach to collecting brush. It was expressed that UAJA is interested in having all of the wood delivered to UAJA for use in the composting system. A meeting of the regional public works directors will deal specifically with this issue.



**Food Waste Collection**

Also covered at the Public Services and Environmental Committee meeting was food waste collection. UAJA explained that the treatment plant is designed to accept food waste through customers' garbage disposals, and that diverting the food waste from residences results in UAJA having to purchase a carbon source to make up for the diverted food waste. Additionally, UAJA expressed interest in obtaining non-residential food waste to feed a digester and produce gas and electricity for use at the treatment plant. UAJA will be included in any discussions about food waste.

**7. Other Business**

**8. Adjournment**

The meeting was adjourned at 6:24 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



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Secretary/Assistant Secretary