UNIVERSITY AREA JOINT AUTHORITY

## A G ENDA <br> Regular Meeting - 4:00 pm - January 17, 2024

1. Call to Order
2. Board Reorganization (Page 39)
3. Approval of the Minutes: Regular Meeting- December 20, 2023 (Page 2)
4. Public Comment
4.1 Other items not on the agenda
5. Old Business
5.1 Rate Resolution Correction (Page 37, Addt'l Page 43)
5.2 Open Records Policy Schedule of Fees (Page 37)
6. New Business
6.1 Requisitions (Page 37)
7. Reports of Officers
7.1 Financial Report (Page 29, YTD Budget Report Page 13)
7.2 Chairman's Report
7.3 Plant Superintendent's Report (Page 31, Compost Report Page 30)
7.4 Collection Systems Superintendent's Report (Page 32, Addt'l Page 40)
7.5 Consulting Engineer's Report (Page 33)
7.6 Construction Engineer Report (Page 34)
7.7 Executive Directors Report (Page 36)
8. Other Business
9. Adjournment

EXECUTIVE SESSION

## MINUTES

## UNIVERSITY AREA JOINT AUTHORITY <br> 1576 SPRING VALLEY ROAD <br> STATE COLLEGE, PA 16801

Regular Meeting - December 20, 2023

## 1. Call to Order

Mr. Derr, Vice-Chairman, called the regular meeting to order at 4:00 p.m., Wednesday, December 20, 2023. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Derr, Guss, Glebe, Miles, Nucciarone and Kunkle; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Sierra Weight, Administrative Assistant; Daren Brown, Collection System Superintendent; Andy Breon, Plant Superintendent; Holly Martinchek , Assistant Plant Superintendent; Jason Wert, Rettew; Michele Aukerman, Rettew; C-NET; Ben Burns, HRG; David Gaines, Solicitor; Steve Morra, Quandel Enterprises; Justin Bickel, Quandel Enterprises. The following were in attendance via Zoom: Messrs. Daubert, and Auman; Sam Robbins, State College Borough; Scott Shearer, PFM; Karli Keisling, PFM; Ben Ried, Mette Evans \& Woodside; Mike Tylka, CRPA Director.

## 2. Reading of the Minutes

UAJA Regular Meeting - November 15, 2023

| UAJA Meeting <br> Minutes Approved | A motion was made by Mr. Kunkle, second by Mr. Miles to <br> approve the meeting minutes of the UAJA meeting held on <br> November 15,2023 . The motion passed unanimously. |
| :---: | :--- |

3. Public Comment

## 4. Old Business

### 4.1 Biosolids Project Bid Awards

Consistent with the discussion at the November Board Meeting and motion by the Board, RETTEW provided Notice of Intent to Award to the four contractors for the Biosolids Project. The Contractors have responded and provided acceptable agreements and bonds and the documents are ready for execution and Notice to Proceed. As noted previously, the Commonwealth Financing Authority (CFA) held their meeting on November $21^{\text {st }}$ and did not consider the H2OPA Grant Applications. While the CFA hinted in the meeting that there may be a special meeting in December, unfortunately that has not materialized, and no meetings are officially on the CFA calendar at this time. At this point, the CFA will not meet before the bids expire for the project in January.

The Authority has been measured in their approach and has delayed the start of the project as long as possible to accommodate the H2OPA Grant application that was submitted more than a year ago. With
bids expiring in January and the resultant cost inflation that will accrue from rebidding and delay, the Authority staff recommends execution of the Contracts for the Biosolids Project.

Recommendation: Award Contract 2022-01 General Construction to Quandel Construction Group, Inc. in the amount of $\$ 66,606,000$; Award Contract 2022-02 Plumbing Construction to Myco Mechanical, Inc. in the amount of $\$ 784,000$; Award Contract 2022-03 HVAC Construction to Myco Mechanical, Inc. in the amount of $\$ 759,000$; Award Contract 2022-04 Electrical Construction to Hayden Electrical in the amount of $\$ 6,598,900$.

Contract 2022-01 Bid
Award; Contract
2022-02 Bid Award; Contract 2022-03 Bid Award; Contract 2022-04 Bid Award Approved

A motion was made by Mr. Nucciarone, second by Mr. Guss to award Contract 2022-01 General Construction to Quandel Construction Group, Inc in the amount of $\$ 66,606,000.00$; A motion was made by Mr. Nucciarone, second by Mr. Kunkle to award Contract 2022-02 Plumbing Construction to Myco Mechanical, Inc. in the amount of $\$ 784,000.00$; A motion was made by Mr . Nucciarone, second by Mr. Glebe to award Contract 2022-03 HVAC Construction to Myco Mechanical, Inc. in the amount of $\$ 759,000.00$; A motion was made by Mr. Kunkle, second by Mr. Nucciarone to award Contract 2022-04 Electrical Construction to Hayden Electrical in the amount of $\$ 6,598,900.00$. The motions passed unanimously.

### 4.2 Biosolids Project 2024 Bond Issue - Selection of Underwriter

A request for proposals (RFP) for underwriting the 2024 bond issue has been issued by UAJA's financial consultant, Public Financial Management (PFM). PFM will present the results at the meeting. PFM will also update the current market conditions, which have improved significantly. The latest presentation is included in the agenda report.

Recommendation: Select an underwriter as recommended by PFM.

Selection of
Underwriter Approved

### 4.3 2024 Bond Indenture

All of the bond issues since 1993 have been subordinate to the 1993 indenture. The 2024 Bonds will also be subordinate. With the issuance of the 2024 bonds and the following 2025 bonds, UAJA has an opportunity to retire the 1993 indenture and replace it with a modernized indenture.

$$
\text { opportunity to retire the } 1993 \text { indenture and replace it with a modernized indenture. }
$$

Recommendation: Pass a motion to authorize preparing a new Indenture to be presented in substantial

A motion was made by Mr. Nucciarone, second by Mr. Miles to approve the selection of an underwriter, as recommended by PFM. The motion passed unanimously.

## form to prospective 2024 bondholders.



A motion was made by Mr. Kunkle, second by Mr. Guss to authorize the preparation of a new Indenture to be presented in substantial form to prospective 2024 bondholders. The motion passed unanimously.

## 5. New Business

### 5.1 2024 Budget Approval

The draft 2024 Budget is included in the agenda report. Inflation and the slow down in construction within the Centre Region, combined with the delinquency of the State College Borough have combined to require a rate increase in 2024. The rate increase for UAJA customers who receive treatment, conveyance and collection service will increase from $\$ 108$ to $\$ 113$ per quarter. The rate for customers that receive treatment and conveyance service only will increase from $\$ 66$ to $\$ 73$ per quarter. The bulk rate for volume surcharges and the few customers that have grandfathered contracts for billing based on volume will increase from $\$ 5,287$ to $\$ 5,624$ per million gallons. These rates are recommended to go in effect January 1, 2024, which will be reflected on the first quarter bills that will be mailed in early April 2024.

In addition to the Biosolids project, in 2024 Solar Array I will be purchased, and the main pump station on Trout Road will be upgraded (most of the equipment in the station is more than 20 years old with some equipment as old as 50 years) as well as meeting current code requirements. Several sewer lines will be replaced to reduce inflow and infiltration.

Recommendation: Adopt the 2024 Budget.


The proposed 2024 Rate Resolution is included in the agenda report. It reflects the rate changes in the 2024 budget. The rate resolution will be effective January 1, 2024.

Recommendation: Adopt the 2024 Rate Resolution, effective January 1, 2024.

2024 Rate
Resolution
Approved

A motion was made by Mr. Nucciarone, second by Mr.
Auman to adopt the 2024 Rate Resolution, effective January 1, 2024. The motion did not pass unanimously, with one opposition by Mr. Daubert.

### 5.3 Change Order No. 3 Scott Road Contract 2021-04

Change Order No. 3 for Contract 2021-04 (Electrical) in the net additive amount of $\$ 4,903.36$ is recommended to deduct the cost of installing a locking mechanism on the automatic transfer switch and for adding the costs associated with electrical utility bills paid by the Contractor. The pump station should have been connected to West Penn Power in UAJA's name, however, for expediting construction, the contractor initiated the service in their name.

Recommendation: Approve Contract 2021-04 Change Order No. 3 in the amount of \$4,903.36.

Contract 2021-04
Change Order No. 3
Approved

A motion was made by Mr. Guss, second by Mr. Nucciarone to approve Contract 2021-04 Change Order No. 3 in the amount of $\$ 4,903.36$. The motion passed unanimously.

### 5.4 2024 Meeting Dates

Meeting dates proposed for 2024 continue with the $3^{\text {rd }}$ Wednesday of each month. Specifically:

January 17
February 21
March 20
April 17
May 15
June 19

July 17
August 21
September 18
October 16
November 20
December 18

Recommendation: Approve the 2024 meeting dates as submitted.

| 2024 Meeting Dates |
| :---: |
| Approved |

5.5 Requisitions

BRIF \#839
East Hillside Project-Asphalt
BRIF \#840

BRIF \#841

BRIF \#842

BRIF \#843

A motion was made by Mr. Kunkle, second by Mr. Miles to approve the 2024 meeting dates as submitted. The motion passed unanimously.

| BRIF \#839 | EBY Paving <br> East Hillside Project-Asphalt <br> HRI, Inc. <br> East Hillside Project - Asphalt <br> SiteOne Landscape <br> East Hillside Project - Seed Mix | $\$ 246.86$ |
| :--- | :--- | :---: |
| BRIF \#841 | HRG <br> Scott Road Project | $\$ 14,315.38$ |
| BRIF \#842 | Best Line Equipment <br> East Hillside Project - Propane <br> BRIF \#843 <br> Bracken Tree Farm <br> East Hillside Project - Soil | $\$ 145.78$ |
| BRIF \#845 | Westmoreland Electric <br> Final Pay App. - Scott Road Project | $\$ 1,942.50$ |


| Construction Fund \#107 | Rettew <br> Ozone Disinfection Project | $\$ 5,076.00$ |
| :--- | :--- | :---: |
| Construction Fund \#108 | Air Products <br> Ozone Disinfection Project - Liquid Oxygen | $\$ 15,169.88$ |

TOTAL 2020 A CONSTRUCTION FUND

## Construction Fund

 ApprovedRevenue Fund \#203

A motion was made by Mr. Glebe, second by Mr. Daubert to approve Construction Fund \#107, and \#108 in the amount of $\$ 20,245.88$. The motion passed unanimously.

Debt Service, Operation and Maintenance Expenses

TOTAL REVENUE FUND

## Total Revenue Fund

 ApprovedA motion was made by Mr. Auman, second by Mr. Nucciarone to approve Revenue Fund $\# 203$, in the amount of $\$ 1,000,000.00$. The motion passed unanimously.

## 6. Reports to Officers

### 6.1 Financial Report

The different cost centers of the YTD budget report for the period ending November 30, 2023, were reviewed with the Board by Jason Brown.


None.

### 6.3 Plant Superintendent's Report

## Compost \& Septage Operations Report

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

## COMPOST PRODUCTION AND DISTRIBUTION

| UNITS IN CU/YDS | JUNE <br> $\mathbf{2 0 2 3}$ | JULY <br> $\mathbf{2 0 2 3}$ | AUGUST <br> $\mathbf{2 0 2 3}$ | SEPTEMBER <br> $\mathbf{2 0 2 3}$ | OCTOBER <br> $\mathbf{2 0 2 3}$ | NOVEMBER <br> $\mathbf{2 0 2 3}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| PRODUCTION | 575 | 803 | 483 | 601 | 661 | 617 |
| YTD PRODUCTION | 4434 | 5237 | 5720 | 6322 | 6983 | 7600 |
| DISTRIBUTION | 805 | 423 | 1333 | 504 | 694 | 522 |
| YTD DISTRIBUTION | 4918 | 5341 | 6674 | 7178 | 7872 | 8410 |
| IMMEDIATE SALE | 1494 | 1646 | 803 | 908 | 651 | 681 |
| CURRENTLY IN <br> STORAGE | 2069 | 2449 | 1411 | 1509 | 1312 | 1298 |

## SEPTAGE OPERATIONS

|  | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 3}$ |
| PORT MATILDA | $\mathbf{1 8 4 3}$ | 1681 | 1409 | 780 | 1284 | 1376 |
| HUSTON TOWNSHIP | 350 | 306 | 384 | 634 | 703 | 734 |

## TOTAL GALLONS

|  | JUNE <br> $\mathbf{2 0 2 3}$ | JULY <br> $\mathbf{2 0 2 3}$ | AUGUST <br> $\mathbf{2 0 2 3}$ | SEPTEMBER <br> $\mathbf{2 0 2 3}$ | OCTOBER <br> $\mathbf{2 0 2 3}$ | NOVEMBER <br> $\mathbf{2 0 2 3}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| RESIDENTIAL/COMMERCIAL | 10450 | 6950 | 23600 | 24125 | 33670 | 19150 |
| PORT MATILDA | 19500 | 19500 | 13000 | 5500 | 11000 | 11000 |
| HUSTON TOWNSHIP | 6000 | 8000 | 6000 | 7000 | 7300 | 6000 |
| TOTAL GALLONS | 35950 | 34450 | 42600 | 36625 | 51970 | 36150 |

Plant Operations

- Total Monthly Influent Flow: 151.87 MGD
- Monthly Average Influent Flow: 5.06 MGD
- Highest Daily Influent Flow (11/12 game): 5.95 MGD
- Lowest Daily Influent Flow (11/20): 4.18 MGD
- 12-Month Rolling Effluent Average: 3.67 MGD

On-line Treatment Units:

4- Primary Clarifiers
2- Aeration Basins
4- Secondary Clarifiers
8- De-nitrification Filters

Reuse Water Distribution Data

|  | November | Year to date <br> gallons |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Best Western Hotel | 29,000 | 370,000 |  |  |  |
| Centre Hills Golf | 0 | $41,19,000$ |  |  |  |
| Stewart Drive | 0 | 5,800 |  |  |  |
| Collections Maintenance Garage | 2,000 | 19,000 |  |  |  |
| CINTAS | 377,000 | $6,034,000$ |  |  |  |
| Red Line | 333,000 | $4,563,000$ |  |  |  |
| Plant site | $5,182,000$ | $342,746,000$ |  |  |  |
| GDK Park vault | $36,511,000$ | $342,746,000$ |  |  |  |
| Kissinger's Pond | 0 | $8,122,000$ |  |  |  |
| Elks | 0 | $9,596,000$ |  |  |  |
| Total Gallons | $42,434,000$ | $463,033,800$ |  |  |  |
| Plant effluent temperature monthly average |  |  |  |  |  |
| Wetland temperature monthly average | $63.2^{\circ}$ |  |  |  |  |
|  |  |  |  | $61.9^{\circ}$ |  |

- Repaired Primary Trough Drive \#2.
- Replaced the Utility Water Pump Motor.
- Replaced the electric wall heater at the Booster Station.
- Replaced the PLC Power Supply on Compost Agitator \#3.
- Repaired the power cable on Agitator \#1.
- Replaced expansion joints on MFs \#1, \#5, and \#6.
- Replaced a valve and air actuator on MF \#6.


### 6.4 Collection Systems Superintendent's Report

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

## Mainline Maintenance:

New Laterals - 0
Mainline Cleaning - 1,724 ft cleaned/cut with root cutter
Mainline televising - 31,772 ft televised - 183 manholes inspected
Castings - 2
East Hillside project ( $100 \%$ complete)

## Lift Station Maintenance:

Cleaned (12) wet wells
Serviced all generators (oil/filter, air filter, fuel filter over all inspection)
Started pump services and valve services

## Next Month Projects:

Mainline spot repairs found while televising lines for mapping
Continue televising mainline
GIS for mapping
Clearing backlot R.O.W.'s
Mainline flushing

## Inspection:

(0)

## Mainline Construction:

a. Grayspoint Phase 7A ( $90 \%$ complete)

## New Connections:

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

TOTAL
PA One-Calls Responded to November 1 thru November 30, 2023:214

### 6.5 Consulting Engineer's Report

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

## Retainer Services (001178.0693)

- Reviewed product literature and submittals from an alternative pre-cast manhole manufacturer.

Meeks Lane Pump Station - Act 537 Plan Special Study (R001178.0663)

- Authority staff is coordinating with Developers regarding an alternative pumping approach.

Scott Road Pump Station and Bristol Interceptor (001178.0682)

- The General Contractor has completed all punch list items.
- The Electrical Contractor has completed final punch list items.
- There will be one application for payment submitted this month.

| SCOTT ROAD PUMP STATION UPGRADE SUMMARY OF APPLICATIONS FOR PAYMENT |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Contract No. | Application for Payment No. | Amount Due | Current Contract Price | Total Completed and Stored | Balance to Finish Plus Retainage |
| 2021-03 | Final | \$0.00 | \$515,303.23 | \$515,303.23 | \$0.00 |
| 2021-04 | ----- | $\begin{gathered} \$ 17,901.6 \\ 0 \end{gathered}$ | \$265,574.52* | \$265,574.5* | \$0.00 |

*Price adjusted based on proposed Change Order No. 3.

- Change Order No. 3 for Contract 2021-04 (Electrical) in the net additive amount of $\$ 4,903.36$ is recommended to deduct the cost of installing a locking mechanism on the automatic transfer switch and for adding the costs associated with electrical utility bills paid by the Contractor.


## Puddintown Interceptor Act 537 Special Study (P001178.0725)

- The hydraulic model of the Puddintown Interceptor has been updated based on collected field data compiled through field survey and in-pipe inspections.
- And EDU inventory within the UAJA collection area of the Puddintown Interceptor is being tabulated using cross referenced data from GIS, available software reports, aerial imagery and County data.
- Flows within the interceptor continue to be monitored; however, no substantial wet weather events have occurred to confidently determine peak flows.
- More precise data was requested from State College Borough for the Claster Meter Station; however, it does not appear that this information is readily available.


## Developer Plan Reviews:

- There were no new plan reviews.


### 6.6 Construction Report

## WWTP NPDES Permit - Phosphorus Study (094612027)

- Continuous in-stream monitoring of Spring Creek has been completed. We have provided compiled data to the PA DEP for review and determination of next steps.

Phosphorus Study Project Schedule

| Milestone | Date |
| :--- | :--- |
| Complete stream monitoring and compile data | November-December 2022 |
| Review final data with PADEP | TBD Awaiting Feedback |
| Conduct High Temperature/Low Flow Monitoring if needed | TBD |

## Ozone Disinfection for Effluent (094612023)

- New liquid oxygen system has been installed on site and commissioned.
- Commissioning of the Ozone equipment is ongoing and is expected to continue into January.
- The General Contractor experienced a waterline break inside the new building that damaged some components of one of the power supply units. We are awaiting an update from the Contractor for the timeline on replacement parts.

Payment Requests to Date

| Contract <br> Number | Application <br> for Payment <br> $\#$ | Current <br> Payment Due | Contract Price <br> to Date <br> incld/CO | Total Work to <br> Date | $\%$ <br> Monetarily <br> Complete | Balance of <br> Contract <br> Amount |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $2021-05 \mathrm{GC}$ |  |  | $\$ 5,448,000.00$ | $\$ 5,170,200.00$ | $94.90 \%$ | $\$ 536,310.00$ |
| $2021-06 \mathrm{EC}$ |  |  | $\$ 350,000.00$ | $\$ 326,500.00$ | $93.29 \%$ | $\$ 39,825.00$ |
| $2021-07 \mathrm{MC}$ |  |  | $\$ 223,000.00$ | $\$ 219,195.00$ | $98.29 \%$ | $\$ 14,764.75$ |
|  |  | $\$ 0.00$ | $\$ 6,021,000.00$ | $\$ 5,715,895.00$ | $94.93 \%$ | $\$ 590,899.75$ |

- Application for Payment No. 16 has been received for Contract 2021-05 in the amount of $\$ 18,097.50$. We are not recommending additional payment until the contractor achieves Substantial Completion. RETTEW rejected this payment application and has provided correspondence under separate cover.


## Ozone Disinfection for Effluent Project Schedule

| Milestone | Date |  |
| :--- | :--- | :--- | :--- |
| Notice to Proceed Issued | $12 / 27 / 2021$ |  |
| Substantial Completion | $03 / 27 / 2023$ |  |
| Projected Substantial Completion Date (per Contractor) | $1 / 15 / 2024$ |  |

Anaerobic Digestion Project (094612026)

- The Commonwealth Financing Authority met on November $21^{\text {st }}$ but did not take action on the ARPA H2O grant applications.
- Bids were received for the four contracts on September $13^{\text {th }}$. Notice of Intent to Award letters have been issued and Contract Documents have been received back for all Contracts.
- We recommend the Authority execute the Contracts and issue the Notice to Proceed for the four contracts:
- Contract No. 2022-01: General Construction Quandel Construction \$66,606,000.00
- Contract NO. 2022-02: Plumbing Construction Myco Mechanical \$784,000.00
- Contract No. 2022-03: HVAC Construction Myco Mechanical \$759,000.00

Contract No. 2022-04: Electrical Construction George Hayden \$6,598,900.00
Anaerobic Digestion Project Schedule

| Milestone | Date |
| :--- | :--- |
| Updated Biogas Term Sheets and Biosolids Agreements to Stakeholders | Week of December 12, 2022 |
| Submission of Land Development Plan | May 19, 2023 |
| Submission of Building Permit Application | Week of July $10^{\text {th }}$ |
| Complete Bidding Documents/Advertise for Bids | June 5, 2023 |
| Bids Received for Construction | September 13, 2023 |
| CFA Meeting (No Action Taken) | November 21, 2023 |
| Notice of Intent to Award | November 22, 2023 |
| Notice to Proceed | December 2023 |
| Begin Construction | January 2024 |
| Completion of Dryer and Waste Handling Buildings | July 2025 |
| Complete Construction | February 2026 |

## NPDES Permit Renewal

- We are working with staff to obtain all sampling data required for submission of the NPDES permit renewal application for the Spring Creek Pollution Control Facility. The facility's permit will expire September 30, 2024, with renewal application due no later than the end of March 2024.
- We are also working with staff to obtain all sampling data required for submission of the NPDES permit renewal application for the AWT/Beneficial Reuse discharges to Slab Cabin Run and surrounding areas. This permit will expire May 31, 2024.


## Modifications to GD Kissinger Meadow Stream Augmentation

- The Authority's pending NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run requires a series of modifications in control and monitoring. The changes will require modulation of the flows to the stream via SCADA, to avoid abrupt changes in stream flow. Additionally, we anticipate essentially a non-detect chlorine limit which will require dechlorination prior to stream discharge. We are working with staff to design, permit, and implement these modifications.


### 6.7 Executive Director's Report

None.

## 7. Other Business

None.

## Executive Session



A motion was made by Mr. Nucciarone, second by Mr. Miles, to go into executive session at 5:01 pm. A motion was then made by Mr. Nucciarone, second by Mr. Guss to come out of executive session at 5:30 pm . Both motions passed unanimously.
8. Adjournment

A motion was made by Mr. Nucciarone, second by Mr. Miles, to adjourn the meeting at 5:30 pm. The motion was passed unanimously.


## YEAR-TO-DATE BUDGET REPORT


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80 $4910 \quad$ SOLAR MAINTENANCE $\quad$ SREC $\quad \begin{aligned} & \text { TOTAL REVENUES-MISCELLANEOUS }\end{aligned}$ $\begin{array}{lll}1040474 & 4724 & \text { INTEREST 93 DEBT S } \\ 1040474 & 4725 & \text { INT 93 OPERATING E } \\ 1040474 & 4726 & \text { INT 93 DEBT SERVIC } \\ 1040474 & 4727 & \text { INT REVENUE FUND } \\ 1040474 & 4733 & \text { 2020A CONSTRUCTION } \\ 1040474 & 4734 & \text { 2021 CONSTRUCTION }\end{array}$

1040474 INTEREST EARNINGS - TRUSTEE
10404744706 BOND REMP/IMP-INTE $\begin{array}{ll}1040474 & 4724 \\ 1040474 & 4725 \\ \text { INTEREST 93 DEBT S } \\ \text { INT 93 OPERATING E } \\ 1040474 & 4726 \\ 1040474 & 4727 \\ \text { INT 93 DEBT SERVIC } \\ 1040474 & 4733 \\ 1040474 & \text { INT REVENUE FUND } \\ \text { 2020A CONSTRUCTION } \\ \text { 2021 CONSTRUCTION }\end{array}$ $-25,734$

10404724719 PLIGIT PLUS - INTE
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| 0 | 5,000 | . 00 |
| 0 | 10,000 | . 00 |
| 0 | 40,000 | . 00 |
| 0 | 4,255,800 | 669,620.23 |
| 0 | 110,000 | 83,374.24 |
| 0 | 212,500 | 212,500.00 |
| 0 | 28,000 | 28,182.00 |
| 0 | 26,000 | 25,240.00 |
| 0 | 376,500 | 349,296.24 |
| 0 | 141,360 | 115,090.82 |
| 0 | 116,000 | 39,006.73 |
| 0 | 4,230,000 | 3,388,835.40 |
| 0 | 100,000 | 3,079.25 |
| 0 | 770,000 | . 00 |
| 0 | 35,400 | . 00 |
| 0 | 60,280 | . 00 |
| 0 | 500,000 | . 00 |
| 0 | 108,240 | . 00 |
| 0 | 253,000 | . 00 |
| 0 | 190,000 | . 00 |
| 0 | 6,940 | . 00 |
| 0 | 17,820 | . 00 |
| 0 | 45,000 | . 00 |
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| 0 | 42,300 | . 00 |
| 0 | 36,050 | . 00 |
| 0 | 6,715,430 | 3,546,243.45 |

## YEAR-TO-DATE BUDGET REPORT

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## 1045928 CIP-BENEFICIAL REUSE

| 104592800286239 MF MEMBRANE RE 104592854056360 ENGINEERING | $\begin{aligned} & 90,000 \\ & 25,000 \end{aligned}$ | 0 | $\begin{aligned} & 90,000 \\ & 25,000 \end{aligned}$ | $\begin{array}{r} 82,645.00 \\ .00 \end{array}$ | $\begin{aligned} & .00 \\ & .00 \end{aligned}$ | $\begin{array}{r} 7,355.00 \\ 25,000.00 \end{array}$ | $\begin{array}{r} 91.8 \% \\ .0 \% \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| total CIP-bENEFICIAL REUSE | 115,000 | 0 | 115,000 | 82,645.00 | . 00 | 32,355.00 | 71.9\% |
| 1045930 CIP-WWTP-COMPOST FACILITY |  |  |  |  |  |  |  |
| 104593000306326 SOLIDS DRYING 104593000306327 SOLIDS DRYING | $\begin{array}{r} 570,000 \\ 14,008,800 \end{array}$ | 0 | $\begin{array}{r} 570,000 \\ 14,008,800 \end{array}$ | 410,799. 11 | .00 .00 | $\begin{array}{r} 159,200.89 \\ 14,008,800.00 \end{array}$ | $\begin{array}{r} 72.1 \% \\ .0 \% \end{array}$ |
| TOTAL CIP-WWTP-COMPOST FACILITY | 14,578,800 | 0 | 14,578,800 | 410,799.11 | . 00 | 14,168,000.89 | 2.8\% |
| 1045950 CIP-GENERAL \& ADMINISTRATIVE |  |  |  |  |  |  |  |
| 104595000506043 COMPUTER HARDW | 30,000 | 0 | 30,000 | 8,170.00 | . 00 | 21,830.00 | 27.2\% |
| 104595000506047 COMPUTER SOFTW | 30,000 | 0 | 30,000 | . 00 | . 00 | 30,000.00 | .0\% |
| 104595000506339 IT SYSTEM UPGR | 133,000 | 0 | 133,000 | 99,776.93 | . 00 | 33,223.07 | 75.0\% |
| 104595000506361 CAPITAL IN PRO | 15,000 | 0 | 15,000 | 54,446.67 | . 00 | -39,446.67 | 363.0\%* |
| TOTAL CIP-GENERAL \& ADMINISTRATIVE | 208,000 | 0 | 208,000 | 162,393.60 | . 00 | 45,606.40 | 78.1\% |
| 1050050 GENERAL \& ADMINISTRATIVE |  |  |  |  |  |  |  |
| 10500505001 SUPERVISOR LABOR | 300,546 | 0 | 300,546 | 234,096.27 | . 00 | 66,449.73 | 77.9\% |
| 10500505002 REGULAR LABOR | 294,713 | 0 | 294,713 | 343,392.46 | . 00 | -48,679.46 | 116.5\%* |
| 10500505006 VACATION | 0 | 0 | 0 | 55,925.40 | . 00 | -55,925.40 | 100.0\%* |
| 10500505007 SICK | 0 | 0 | 0 | 15,328.76 | . 00 | -15,328.76 | 100.0\%* |
| 10500505008 PERSONAL | 0 | 0 | 0 | 8,263.20 | . 00 | -8,263.20 | 100.0\%* |
| 10500505009 JURY/CIVIL/VOLUNTE | 0 | 0 | 0 | 869.98 | . 00 | -869.98 | 100.0\%* |
| 10500505010 HOLIDAY | 0 | 0 | 0 | 31,763.00 | . 00 | -31,763.00 | 100.0\%* |
| 10500505101 FICA EXPENSE | 36,906 | 0 | 36,906 | 42,762.01 | . 00 | -5,856.01 | 115.9\%* |
| 10500505102 MEDICARE EXPENSE | 8,632 | 0 | 8,632 | 10,087.31 | . 00 | -1,455.31 | 116.9\%* |
| 10500505201 UNEMPLOYMENT EXPEN | 25,000 | 0 | 25,000 | 19,224.80 | . 00 | 5,775.20 | 76.9\% |
| 10500505202 GROUP HEALTH INSUR | 132,688 | 0 | 132,688 | 140,405.17 | . 00 | -7,717.17 | 105.8\%* |

## YEAR－TO－DATE BUDGET REPORT

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Ninion 168， 950 $\begin{array}{ll}\text { ACCOUNTS FOR：} \\ 10 & \text { OPERATING FUND }\end{array}$





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6，682，964 $\begin{array}{llll}1050054 & 5502 & \text { VEHICLE MAINTENANC } \\ 1050054 & 5603 & 1006 \text { GASOLINE．} \\ 1050054 & 5603 & 1008 \text { DIESEL FUEL }\end{array}$

105005456031008 DIESEL FUEL
TOTAL G \＆A－FLEET／FUEL

1052052 DEBT SERVICE
$\begin{array}{lll}1052052 & 5801 & \text { INTEREST PAID－1993 } \\ 1052052 & 5901 & \text { PRINEIPAL PAID－199 } \\ 1052052 & 6122 & \text { 2015 TRUSTEE FEES } \\ 1052052 & 6125 & \text { TRUSTEE FESS 2017A } \\ 1052052 & 6126 & \text { TRUSTEE FEE 2017B } \\ 1052052 & 6127 & \text { TRUSTEE FEE 2018 } \\ 1052052 & 6128 & \text { TRUSTEE FEE 2020 } \\ 1052052 & 6129 & \text { TRUSTEE FEE 20A } \\ 1052052 & 6130 & \text { TRUSTEE FEE 21 } \\ 1052052 & 6131 & \text { TRUSTEE FEE 21A } \\ 1052052 & 6132 & \text { TRUSTEE FEE 22 } \\ \text { TOTAL DEBT SERVICE }\end{array}$
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## YEAR－TO－DATE BUDGET REPORT


TOTAL WWTP－LABORATORY


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$\begin{array}{lll} \\ 1060023 & 5002 & \text { B5001 RE } \\ 1060023 & 5003 & \text { B5001 OV } \\ 1060023 & 5101 & \text { B5001 FI } \\ 1060023 & 5102 & \text { B5001 ME } \\ 1060023 & 5202 & \text { B5001 GR } \\ 1060023 & 5203 & \text { B5001 PE } \\ 1060023 & 5505 & \text { B5001 PU }\end{array}$ 10600235002 B5001 REGULAR LABOR 10600235101 B5001 FICA EXPENSE 10600235203 B5001 PENSION（401） 10600235505 B5001 PUMP STATION

10600225001 SUPERVISOR LABOR REGULAR LABOR VACATION

SICK
JURY／CIVIL／VOLUNTE
HOLIDAY
MEDICARE EXPENSE GROUP HEALTH INSUR PENSION（401）UAJA OPERATIONAL SUPPLI SMALL EQUIPMT／TOOL 6174 SCADIA MAINT
6175 UV MAINT 6283 SOLAR MAINTENA GRIT REMOVAL－PLANT FUEL，OIL，LUBRICA
SOLAR GRAZING LANDSCAPE

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## YEAR-TO-DATE BUDGET REPORT

## 1060025 WWTP - IPP


997,837
41,593
1060028 WWTP - BENEFICIAL REUSE
10600285001 SUPERVISOR LABOR


10600285010 HOLIDAY $\begin{array}{lll}1060028 & 5102 & \text { MEDICARE EXPENSE } \\ 1060028 & 5202 & \text { GROUP HEALTH INSUR }\end{array}$ GROUP HEALTH INSUR
PENSION (401) UAJA OPERATIONAL SUPPLI 1065 OPERATIONAL SU
LAB ANALYSIS
CTWA REIMBURSE

10600235602 B5001 O\&M MAIN STAT
TOTAL MAIN STATION

##  <br> 127,946.33

$1,114,090.36$



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## 135,398 3,500 0 <br> 11,160 2,611 Noㅇ  <br> 546，762

## YEAR－TO－DATE BUDGET REPORT

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$168,099.97$
$953,817.77$
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긍̈ㄱㄱㄱ 106003055061062 CAT SKID STEER
106003055061071 LOADER MAINT 6
106003055061072 TROMMEL
106003056021041 POWER-COMPOST
106003056031007 NATURAL GAS -
TOTAL WWTP - COMPOST
1060032 TREATMENT PLANT OPERATION
10600325001 SUPERVISOR LABOR
$\begin{array}{lll}1060032 & 5002 & \text { REGULAR LABOR } \\ 1060032 & 5003 & \text { OVERTIME LABOR }\end{array}$
$\begin{array}{lll}1060032 & 5004 & \text { SHIFT LABOR } \\ 1060032 & 5006 & \text { VACATION }\end{array}$

10600325009 JURY/CIVIL/VOLUNTE
HOLIDAY

2,397,281
0
141,812
$1,119,501$
TOTAL TREATMENT PLANT OPERATION
MISCELLANEOUS OUTS
1043 POWER-PLANT

## 1070021 COLLECTION-MAINTENANCE 10700210021 10700215001 B5489 CAPITAL IN PR PR 10700215002

 1070021
## YEAR－TO－DATE BUDGET REPORT





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$\begin{array}{lll}107002150026172 & \text { REGULAR LABOR } \\ 10700215002 & 6336\end{array}$ 107002150026336 N OAK LANE 107002150026366 REGULAR LABOR

 $\begin{array}{llll}1070021 & 5002 & \text { B5489 REGULAR LABOR } \\ 1070021 & 5002 & \text { B5490 } & \text { REGULAR LABOR }\end{array}$ B5491 REGULAR LABOR 5492 REGULAR LABOR
OVERTIME LABOR VACATION
SICK
SERSONAL
JURY／CIVIL／VOLUNTE
HOLIDAY
FICA EXPENSE
6172 FICA EXPENSE MEDICARE EXPENSE
6172 MEDICARE EXPEN 6172 MEDICARE EXPEN
GROUP HEALTH INSUR 6172 GROUP HEALTH I
PENSION（401）UAJA
6172 PENSION（401）
SMALL EQUIPMT／TOOL
 CONSTRC．EQUIP MAI
GIS AND MAPPING
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## 1070022 CONSTRUCT EQUIP MAINTENANCE

$\begin{array}{lll}1070022 & 5501 & \text { SMALL EQUIPMENT MA } \\ 1070022 & 5506 & \text { LG．CONSTRC．EQUIP }\end{array}$
TOTAL CONSTRUCT EQUIP MAINTENANCE
10700345001 SUPERVISOR LABOR




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 26，164，342 TOTAL REVENUES
TOTAL EXPENSES total operating fund 10700365305 SMALL EQUIPMT／TOOL 10700365505 O \＆M PUMP STATION $\begin{array}{llll}B 5002 & O & \& & M \\ B 5003 & O & \& & M \\ \text { NORTH }\end{array}$ B5004 O \＆M SOUTH M B5002 POWER－CLASTER B5004 POWER－SOUTH
PUMP TOTAL COLLECTION－PUMP STATION




 502，505．28 496，416

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## 1070036 COLLECTION－PUMP STATION

 MEDICARE EXPENSE HEALTH INSUR OPERATIONAL SUPPLI SMALL EQUIPMT／TOOL SEWER LINE INSPEC／5461 WHITEHALL ROA 464 RHODES LANE 481 INSPECTION EN B5485
B5487
INSPECTION EN B5488 INSPECTION EN

TOTAL COLLECTION－INSPECTION
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－No
 $\begin{array}{llr}1070034 & 5002 & \text { REGULAR LABOR } \\ 1070034 & 5002 & \text { B5481 REGULAR LABOR } \\ 1070034 & 5002 & \text { B5485 REGULAR LABOR }\end{array}$ B5487 REGULAR LABOR B5488 REGULAR
OVERTIME LABOR VACATION
SICK

SICK
PERSONAL
JURY／CIVIL／VOLUNTE
HOLIDAY
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YEAR-TO-DATE BUDGET REPORT

00 20,043,773.05 23.4\%


To: UAJA Board
From: Jason Brown
Re: Financial Report - End of December 2023

## Cash Accounts

General Checking \$266,946.95
Payroll Checking \$6,352.84
PLIGIT Checking \$1,619.86
Petty Cash \$111.40
Revenue Fund Accounts
Revenue Sweep
\$18,026.64
Revenue Trustee
\$2,563,479.68
Savings Accounts
PLIGIT Plus $\quad \$ 9,054.85$
93 BRIF \$1,883,039.31
Emmaus BRIF $\quad \$ 0.00$
TOTAL LIQUID ASSETS
\$4,748,631.53

## Dedicated Accounts

| 2015 DSF | $\$ 239.52$ |
| :--- | ---: |
| 2017A DSF | $\$ 167.19$ |
| 2017 B \& C DSF | $\$ 821.00$ |
| 2018 DSF | $\$ 311.55$ |
| 2020 DSF | $\$ 6,538.08$ |
| 2020A DSF | $\$ 4.05$ |
| 2021 DSF | $\$ 5.00$ |
| 2021A DSF | $\$ 1,016.91$ |
| 2022 DSF | $\$ 4,793.98$ |
| 2020A Construction Fund | $\$ 1,544,676.29$ |
| 2021 Construction Fund | $\$ 8,819,831.30$ |

TOTAL DEDICATED ASSETS
Restricted Accounts

| 93 Oper. Expense Reserve | $\$ 314,709.04$ |
| :--- | ---: |
| 93 Debt Service Reserve | $\$ 3,827,500.15$ |

\$4,142,209.19
Receivables Outstanding
UAJA Sewer
\$133,238.35
UAJA Surcharge
$\$ 0.00$
Borough Sewer \$2,204,558.08
PGM Sewer
\$4,048.65
PSU Sewer
\$0.00

## COMPOST AND SEPTAGE OPERATIONS REPORT DECEMBER 2023

## COMPOST PRODUCTION AND DISTRIBUTION

| UNITS IN CU/YDS | JULY | AUG | SEPT | OCT | NOV | DEC |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| PRODUCTION | 803 | 483 | 601 | 661 | 617 | 487 |
| YTD PRODUCTION | 5,237 | 5,720 | 6,322 | 6,983 | 7,600 | 8,087 |
| DISTRIBUTION | 423 | 1,333 | 504 | 694 | 522 | 562 |
| YTD DISTRIBUTION | 5,341 | 6,674 | 7,178 | 7,872 | 8,410 | 8,972 |
| IMMEDIATE SALE | 1,646 | 803 | 908 | 651 | 681 | 800 |
| CURRENTLY IN STORAGE | 2,449 | 1,411 | 1,509 | 1,312 | 1,298 | 1,287 |

## SEPTAGE OPERATIONS

LBS/SOLIDS

|  | JULY | AUG | SEPT | OCT | NOV | DEC |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| PORT MATILDA | 1,681 | 1,409 | 780 | 1,284 | 1,376 | 1,376 |
| HUSTON TOWNSHIP | 306 | 384 | 634 | 703 | 734 | 567 |

TOTAL GALLONS

|  | JULY | AUG | SEPT | OCT | NOV | DEC |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| RESIDENTIAL/COMMERCIAL | 6,950 | 23,600 | 24,125 | 33,670 | 19,150 | 5,500 |
| PORT MATILDA | 19,500 | 13,000 | 5,500 | 11,000 | 11,000 | 11,000 |
| HUSTON TOWNSHIP | 8,000 | 6,000 | 7,000 | 7,300 | 6,000 | 6,000 |
| TOTAL GALLONS | 34,450 | 42,600 | 36,625 | 51,970 | 36,150 | 22,500 |

## SUPERINTENDENT'S REPORT

For the month of December 2023
Andrew Breon, Superintendent

## PLANT OPERATIONS

12-Month Rolling Effluent Average:
Total Monthly Influent Flow:
Monthly Average Influent Flow:
Highest Daily Influent Flow (12/10):
Lowest Daily Influent Flow (11/20):
3.62 MGD Plant effluent temperature monthly average: $\quad 58.7^{\circ}$
152.61 MGD Wetland temperature monthly average: $57.3^{\circ}$
4.92 MGD
5.89 MGD
3.97 MGD

4-Secondary Clarifiers

8-Denitrification filters

On-Line Treatment Units:
4-Primary Clarifiers
2-Aeration Basins

Reuse Water Distribution Data

|  | December | Year to date gallons |
| :--- | ---: | ---: |
| Best Western Hotel | 28,000 | 398,000 |
| Centre Hills Golf | 0 | $41,119,000$ |
| Stewart Drive | 0 | 5,800 |
| Collections Maintenance Garage | 1,000 | 20,000 |
| CINTAS | 414,000 | $6,448,000$ |
| Red Line | 384,000 | $4,947,000$ |
| Plant site | $4,002,000$ | $54,461,000$ |
| GDK Park vault | $47,731,000$ | $390,477,000$ |
| Kissinger's Pond | 0 | $8,122,000$ |
| Elks | 13,000 | $9,609,000$ |
| Total Gallons | $52,573,000$ | $515,606,800$ |

## PLANT MAINTENANCE

- Installed a level transducer in the Alum storage tank.
- Replaced the priming bowl on the Headworks Grit Chamber.
- Replaced a pipe flange on the AWT Feed Line.
- Repaired the Potable water line near the Maintenance Shop.
- Replaced the chain in the Knight Mixer.
- Replaced the radiator hose on the Main Station Generator.
- Replaced a hydraulic hose on the loader and repaired the cooling system on the skid steer.



## MAINLINE MAINTENANCE:

New Laterals - 0
Mainline Cleaning - $14,753 \mathrm{ft}$ cleaned/cut with root cutter.
Mainline televising - 21,060 ft televised - 134 manholes inspected.
Inspected laterals on N. Oak Lane, from Park Forest Ave. to Westgate Dr. (Water Main replacement this year) Cleanup from spill (See report)

## LIFT STATION MAINTENANCE:

Cleaned (12) wet wells.
Finished pump services and valve services.
Installed new pumps and VFD's at Haymarket lift station.

## NEXT MONTH PROJECTS:

Mainline spot repairs found while televising lines for mapping. Continue televising mainline.
GIS for mapping
Clearing backlot R.O.W.'s
Mainline flushing
Get things ready for Barkway backlot replacement project.
New Lateral installation Jersey Mikes (Shiloh Rd.)

## INSPECTION:

(0)

## MAINLINE CONSTRUCTION:

a) Grayspoint Phase 7A - $90 \%$ complete
b) Pre-construction meeting for Stocker Auto Body

## NEW CONNECTIONS:

a. Single-Family Residential
4
c. Commercial
0
b. Multi-Family Residential
0
d
Non-Residential
0

TOTAL 4
PA One-Calls Responded to December 1 thru $31=132$

Herbert, Rowland \& Grubic, Inc. 2568 Park Center Boulevard State College, PA 16801

## CONSULTING ENGINEER'S REPORT

## UNIVERSITY AREA JOINT AUTHORITY

HRG Project Number: 001178.0693
January 17, 2024
The following summarizes our recent services performed on behalf of the University Area Joint Authority (Authority):

## RETAINER SERVICES (R001178.0693)

- Proposed retainer services and fee are consistent with 2023.


## MEEKS LANE PUMP STATION - ACT 537 PLAN SPECIAL STUDY (R001178.0663)

- HRG will prepare an engineering services agreement to identify future flows in the west portion of Patton Township.


## PUDDINTOWN INTERCEPTOR ACT 537 SPECIAL STUDY (P001178.0725)

- An EDU inventory within the UAJA collection area of the Puddintown Interceptor is being tabulated using cross referenced data from GIS, available software reports, aerial imagery, and County data. Data availability has impacted the efficiency of EDU tabulation. Therefore, HRG is working with Authority staff to assist with EDU counts for non-residential properties.
- Flows within the interceptor continue to be monitored. It is hopeful that the wet weather events during the week of January $8^{\text {th }}$ will produce representative data.


## DEVELOPER PLAN REVIEWS:

- There were no new plan reviews.

HERBERT, ROWLAND \& GRUBIC, INC.


Benjamin R. Burns, P.E.
Senior Quality Engineer | Water \& Wastewater

# University Area Joint Authority Summation of Project Activities 

## WWTP NPDES Permit - Phosphorus Study (094612027)

- Continuous in-stream monitoring of Spring Creek has been completed. We have provided compiled data to the PA DEP for review and determination of next steps.

Phosphorus Study Project Schedule

| Milestone | Date |
| :--- | :--- |
| Complete stream monitoring and compile data | November - December 2022 |
| Review final data with PA DEP | TBD Awaiting Feedback |
| Conduct High Temperature/Low Flow Monitoring if needed | TBD |

## Ozone Disinfection for Effluent (094612023)

- Commissioning of the Ozone equipment is ongoing and is expected to continue into January.
- Replacement components for one of the Power Supply Units have been received and installed.
- First temporary bypass to make tie-in connections tentatively scheduled to occur January 16 - 17 . Plant flow will bypass the Tertiary Filters during the overnight hours.

| Payment Requests To Date |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Contract Price <br> Number | Application for <br> Payment \# | Current <br> Payment Due | To Date <br> incld $/$ CO | Total Work To <br> Date | Monetarily <br> Complete | Balance of <br> Contract <br> Amount |  |
|  |  |  | $\$ 5,448,000.00$ | $\$ 5,170,200.00$ | $94.90 \%$ | $\$ 536,310.00$ |  |
|  |  |  | $\$ 350,000.00$ | $\$ 326,500.00$ | $93.29 \%$ | $\$ 39,825.00$ |  |
| $2021-07 \mathrm{MC}$ |  |  | $\$ 223,000.00$ | $\$ 219,195.00$ | $98.29 \%$ | $\$ 14,764.75$ |  |
|  |  | $\$ 0.00$ | $\$ 6,021,000.00$ | $\$ 5,715,895.00$ | $94.93 \%$ | $\$ 590,899.75$ |  |

- No applications for payment received this month.


## Ozone Disinfection for Effluent Project Schedule

| Milestone | Date |
| :--- | :--- |
| Notice to Proceed Issued | $12 / 27 / 2021$ |
| Substantial Completion | $03 / 27 / 2023$ |
| Projected Substantial Completion Date (per Contractor) | $01 / 31 / 2024$ |

## Anaerobic Digestion Project (094612026)

- Notice to Proceed was issued to all Contracts 01/08/2024.
- General Contractor has begun issuing purchase orders for equipment with long lead times.

| Payment Requests To Date |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Contract Number | Application for Payment \# | Current Payment Due | Contract Price <br> To Date incld/CO | Total Work To Date | $\%$ <br> Monetarily Complete | Balance of Contract Amount |
| 2022-01 | 01 | \$2,360,585.70 | \$66,606,000.00 | \$2,622,873.00 | 3.94\% | \$64,245,414.30 |
| 2022-02 |  |  | \$784,000.00 |  | 0.00\% | \$784,000.00 |
| 2022-03 |  |  | \$759,000.00 |  | 0.00\% | \$759,000.00 |
| 2022-04 |  |  | \$6,598,900.00 |  | 0.00\% | \$6,598,900.00 |
|  |  | \$2,360,585.70 | \$74,747,900.00 | \$2,622,873.00 | 3.51\% | \$72,125,027.00 |

- Application for Payment No. 01 has been received for Contract 2022-01 in the amount of $\$ 2,360,585.70$. As several pieces of the main process equipment for the project (e.g., digestion process, sludge dryer, etc.) that have long lead times, the General Contractor immediately began issuing purchase orders which require significant upfront deposits. RETTEW recommends payment of Application for Payment No. 01.

Anaerobic Digestion Project Schedule

| Milestone | Date |
| :--- | :--- |
| Begin Construction | January 2024 |
| Completion of Dryer and Waste Handling Buildings | July 2025 |
| Complete Construction | February 2026 |

## NPDES Permit Renewals

- We are working with staff to obtain all sampling data required for submission of the NPDES permit renewal application for the Spring Creek Pollution Control Facility. The facility's permit will expire September 30, 2024, with a renewal application due no later than the end of March 2024.
- We are also working with staff to obtain all sampling data required for submission of the NPDES permit renewal application for the AWT/Beneficial Reuse discharges to Slab Cabin Run and surrounding areas. This permit will expire May 31, 2024. We anticipate submitting this permit renewal application the week of February $5^{\text {th }}$.


## Modifications to GD Kissinger Meadow Stream Augmentation

- The Authority's pending NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run requires a series of modifications in control and monitoring. The changes will require modulation of the flows to the stream via SCADA, to avoid abrupt changes in stream flow. Additionally, we anticipate essentially a non-detect chlorine limit which will require de-chlorination prior to stream discharge. We are working with staff to design, permit, and implement these modifications.


# EXECUTIVE DIRECTOR'S REPORT 

January 17, 2024

## INFORMATION ITEMS

## State College Borough Delinquency

The unpaid balance for the State College Borough is $\$ 2,204,558.08$. This amount includes penalties. The refusal to pay the full amount has caused another rate increase in 2024 for the other customers of UAJA to make up for the Borough delinquency.

## ACTION ITEMS

## 2. Board Reorganization

## 4. Public Comment

### 4.1 Other items not on the agenda

## 5. Old Business

### 5.1 Rate Resolution Correction

The 2024 Rate resolution is included in the agenda report for adoption. This is the corrected version from the December 2023 Board Meeting.

Recommendation: Adopt the Rate Resolution as presented.

### 5.2 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 (the 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.

Recommendation: Adopt the fee schedule as presented.

## 6. New Business

### 6.1 Requisitions

| Construction Fund \#109 | Rettew <br> Ozone Disinfection Project | $\$ 2,700.00$ |
| :--- | :--- | :--- |
| Construction Fund \#110 | Air Products <br> Ozone Disinfection Project- Liquid Oxygen | $\$ 2,000.00$ |

Construction Fund \#111 Chemtron Supply Corp. ..... \$4,944.28
Ozone Disinfection Project- Liquid Oxygen
Construction Fund \#112 Quandel Construction Group ..... \$1,535,032.01Pay App. \#1- Sludge Drying Project-General
TOTAL 2020 A CONSTRUCTION FUND- ..... \$1,544,676.29
Construction Fund \#001 Quandel Construction Group ..... $\$ 825,553.69$Pay App. \#1- Sludge Drying Project-General
TOTAL 2021 CONSTRUCTION FUND- ..... \$825,553.69
7. Reports of Officers
8. Other Business

## Executive Session to discuss legal matters.

## 9. Adjournment

Annual Board Reorganization 2024

| Office | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 4}$ |
| :--- | :--- | :--- |
| Chair | David Lapinski |  |
| Vice Chair | David Derr |  |
| Secretary | Matt Auman |  |
| Assistant Secretary | Wesley Glebe |  |
| Treasurer | Jeff Nucciarone |  |
| Assistant Treasurer | Mark Kunkle |  |
| Board Member | Thomas Daubert |  |
| Board Member | Daniel Guss |  |
| Board Member | Larry Miles |  |
| Board Member | Frank Mellot |  |

Staff and Advisors

| Position | Current and proposed | $\mathbf{2 0 2 4}$ |
| :--- | :--- | :--- |
| Executive Director | Cory Miller |  |
| Solicitor | Miller, Kistler, Campbell, <br> Miller \& Williams, Inc. |  |
| Consulting Engineer |  <br> Grubic, Inc. |  |
| Auditor | Maher Duessel |  |
| Bond Counsel |  <br> Woodside |  |
| Trustee | US Bank |  |
| Depository General Fund | First Citizens Community <br> Bank |  |
| Depository Payroll | First Citizens Community <br> Bank |  |
| Depository Investment Fund | Pennsylvania Local <br> Government Investment <br> Trust |  |

UNIVERSITY AREA JOINT AUTHORITY

Attn: Kayla Glossner
Pennsylvania Department of Environmental Protection
Moshannon District Mining Office
186 Enterprise Drive
Philipsburg, PA 16866
RE: Sewage Spill at 1754 W College Ave.
To Kayla Glossner:
This correspondence is a follow-up to the incident referenced above.
On Wednesday, December 20, 2023, at 8:00 am, the University Area Joint Authority received a phone call about a strong odor and spillage of sewage from a manhole, located at 1754 W College Avenue. Upon locating this address, we sent a work crew out to discover that the sewage was coming out of a manhole that was hidden in a fence row and overgrown with vegetation.

UAJA employees responded to the call, sending out a jetter truck to clear the blockage in the line, which we believed to be a buildup of cleaning wipes collected in the invert outside of the manhole.

I contacted DEP at approximately 9:00 am and reported the spill to Kayla Glossner. The spill was contained in a low grassy area, and we used our vac truck plus hired Robinson Septic Service to clean the area, which took approximately 10 hours. The collected material was brought to our facility for proper disposal - about 5000 gallons of spill. Upon completion, we limed the area, which was about $50 \mathrm{ft} x 100 \mathrm{ft}$.

Sincerely,
University Area Joint Authority


Daren Brown
Collection System Superintendent


Page 41 of 59



UNIVERSITY AREA JOINT AUTHORITY

## RATE RESOLUTION

## WASTEWATER RECYCLING

RATES AND OTHER

CHARGES

## Section 1

## CONNECTION TO COLLECTION SYSTEM

### 1.1 Building Sewers and Connections

a) No unauthorized person shall uncover, make any connections with or opening into, use, alter, or disturb any public or private sewer or appurtenances without first obtaining a written permit from the Authority.
b) All costs and expenses incidental to the installation and connection of the building sewer shall be the responsibility of the owner. Installation and construction of the building sewer shall be in compliance with the UAJA Standard Specifications then in effect.

### 1.2 Tapping and Permit Fees

## a) The Tapping Fees are as follows:

| Capacity Component: | $\$ 6485.00$ | Per EDU |
| :--- | :--- | :--- |
| Collection Component Pine Grove Mills | $\$ 2214.00$ | Per EDU |
| Collection Component Rt 26 | $\$ 2825.00$ | Per EDU |
| Ghaner Pump Station collection Grinder | $\$ 301.00$ | Per EDU |
| Pump Escrow | $\$ 2331.00$ | Per EDU |
| Special Purpose Circleville Inter.Tap Fee | $\$ 509.73$ | Per EDU |
| Special Purpose Valley Vista Tap Fee | $\$ 584.90$ | Per EDU |

Tapping fees are charged at the time the permit is issued. The capacity component is applied to all new connections.

Tapping fees are based on EDU's according to Section 2.
If more than two inspection trips are required because the lateral repeatedly fails inspection, a $\$ 50.00$ fee shall be charged per inspection trip in excess of two per Rate Resolution 1.2b

## b) The Permit Fees are as follows:

| Residential: | $\$ 150.00$ |
| :--- | ---: |
| Non-Residential: | $\$ 250.00$ |
| Repair/Abandonment: | $\$ 25.00$ |
| Water Quality: | $\$ 100.00$ |
| Water Quality(w/pump station) | $\$ 250.00$ |
| Private to Private: | $\$ 50.00$ |

## Section 2

## WASTEWATER RATES AND OTHER FEES

### 2.1 General

Wastewater rates and other charges are imposed upon the Owner of each property or entity connected to the wastewater collection system. The rate for wastewater collection \& treatment will usually be based upon an Equivalent Dwelling Unit (EDU). Some bulk customers of the Authority, by contract or agreement only, may be charged based upon the Bulk Treatment Rate in affect at the time.

### 2.2 EDU Rate

The rate charged per EDU is One Hundred Thirteen (\$113.00) dollars per quarter. Residents of the Pine Grove Mills service area will be billed One Hundred Thirteen ( $\$ 113.00$ ) per quarter plus an additional twentytwo dollars and forty cents (\$22.40) for debt service. Transmission and treatment rate is Seventy Three (\$73.00) per EDU.

### 2.3 Bulk Treatment Rate

The rate charged per one million gallons treated is Five Thousand Six Hundred and Twenty Four (\$5624.00) dollars.

### 2.4 Assignment of Equivalent Dwelling Units

An Equivalent Dwelling Unit (EDU) shall apply to each classification of connection as follows:
(a) Residential

$$
\text { Apartment units, each } 1
$$

Attached business
w/o separate sanitary facilities ½
w/ separate sanitary facilities 1
Condominiums 1
Daycare in home per 17.5 Population 1
Duplex / Multi-Plex (per unit) 1
Manufactured (mobile home park)
Per lateral provided, unless capped 1
Rooming Units/Efficiency, each ½
(A single bed, one room, one bath apartment with no clothes washer)
Single Family Homes 1
Townhouses, each 1

## (b) Commercial

Automobile Dealer,
(bays connected to sewer)
2 bays or less 2
Each additional bay over $2 \quad 1 / 2$
Automobile Dealer/Garage

| (bays not Connected to sewer) | * |
| :---: | :---: |
| Beauty/Barber shops, per chair | 1/2 |
| Bed \& Breakfasts |  |
| up to and including 5 rooms | 1.5 |
| 6 to 10 rooms | 2 |
| Bowling Alleys, per 6 lanes | 1 and * |
| Car Wash (bays connected to sewer) |  |
| 2 bays or less | 2 |
| Each additional bay over 2 | 1/2 |
| not connected to sewer | * |
| Commercial Office Building | 1 per Business up to 10 employees * |
| Fitness Centers, | * |
| with showers | * |
| with pool, per filter connected | 2 and * |
| Hospitals per bed | $1 / 2$ and * |
| Hospital public dining, per 15 seats | 1 |
| Hotel/Motel, per room | 1/2 |
| Conference room | 1 per 17.5 |
| Restaurant/café seating | 1 per 15 seats |
| Laundromat, per 5 washers | 1 |
| Medical Centers, | * |
| with pools, per filter connected | 2 |
| Nursing Homes per bed | $1 / 2$ and * |
| Nursing Home public dining, /15 seats | 1 |
| Personal Care/ Assisted living | 1⁄2 per living unit and * |
| Restaurants, per 15 seats | 1 and * |
| Retail food store | * |
| Each food preparation station | 1 |
| Each Bakery | 1 |
| Each Bank | 1 |
| Each Deli | 1 |
| Each Pharmacy | 1 |
| Each Photography center | 1 |
| Café seating, per 15 seats | 1 |
| Retail Stores | * |
| 2 bays or less (if app.) | 2 |
| per 15 seats (if app.) | 1 |
| Retirement Homes, per unit | 1 and * |
| Retire. Hm. public dining, /15 seats | 1 |
| Retire. Hm. industrial washer | 1 |
| Veterinary Facilities | * |

* 1 EDU for up to each 10 employees
-or-
1 EDU for up to each 8 employees with showers

Example 1: up to 10 employees (no showers) $=1$ EDU.
Example 2: 11 employees (no showers) $=\quad 1.5$ EDU's.
Example 3: up to 8 employees (w/showers) $=1$ EDU.
Example 4: 9 employees (w/showers) $=\quad 1.5$ EDU's.

* Employees that work off site will not be included in EDU count.
(c) Industrial and Commercial

Per 10 employees 1
[do not include truck drivers]
Per 8 employees with showers 1
[do not include truck drivers]
Cooling Tower with drain to sewer 1
(unless volume warrants higher charge)
(d) Public

Churches 1
w/daycare per 17.5 student \& staff 1
Daycare per 17.5 population 1
Fire Hall, Ambulance 1
Library 1
Private Clubs/Organizations
per 15 seats 1
Recreation Field w/sanitary facilities 1
Schools per 17.5 population 1
Swimming Pools
Per filter connection 2 and
Average Patrons $\times 10$ (gpd)/175(gpd)

## (e) Miscellaneous

1) Charge to drain pool (pool capacity times current bulk treatment rate-Authority must be notified in advance of draining)
2) Where more than one use occurs on any improved property, the sum of Equivalent Dwelling Units for each separate use will apply in establishing wastewater rates and charges.
3) Additional classifications for wastewater rates and other charges or modifications of the above schedules for wastewater rates and other charges may be established by this Authority from time to time as deemed necessary.
4) Nothing contained herein shall be construed as prohibiting special agreements between this Authority and nonresidential improved properties under conditions and circumstances making special agreements advisable and necessary.

## Section 3

## INFORMATION REQUIRED

### 3.1 Addresses

Every owner of an improved property, which is connected to the wastewater collection system, shall provide this Authority with his/her correct mailing address and thereafter shall keep this Authority advised of any address changes. Any changes to the address will only be accepted by the property owner calling the office and speaking to the Account Representative, or sending in written notice of the change. Failure of any property owner to receive bills for wastewater rates and other charges shall not be considered an excuse for nonpayment nor shall such failure result in an extension of the period of time during which the net bill shall be payable or late fees being waived.

Authority rules and regulations specifically require that bills be mailed directly to the owner of record and NOT to a tenant. Any agreement of payment between owner and tenant or bill paying service must be considered a transaction between both parties and in no way concerns this Authority.

### 3.2 Non-residential yearly reports

Owners of any nonresidential improved property may be responsible for providing this Authority with a yearly report. This report will be used to compute any changes to the wastewater rate or charges to such nonresidential improved property. This information may also be used to compute a surcharge. The report will be due on a yearly basis with the due date being the $20^{\text {th }}$ day of March. If the owner of any nonresidential improved property fails to provide this Authority with complete information required to compute the sewer rate or charge, this Authority may estimate a reasonable applicable wastewater rate or charge for such nonresidential improved property. Such estimated wastewater rate or charge shall be the actual wastewater rate or charge payable until the required information is filed. No rebates will be paid by this Authority if the information filed reveals a lower wastewater rate or charge than that estimated by this Authority. If the resultant rate should be higher than what was estimated, the property owner will be responsible for paying the difference. Industrial users will still be required to send a questionnaire on a quarterly basis.

### 3.3 Volume surcharges

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.

## Section 4

## INVOICING

### 4.1 Invoicing

Invoicing is done in arrears and will be done according to the following table.

| Quarter |  | Bill mail Date |
| :--- | :--- | :--- |
| Jan. Feb. Mar. Mid- April Mid - May |  |  |
| April May June | Mid - July | Mid - August |
| July August Sept. | Mid - October | Mid - November |
| Oct. Nov. Dec. | Mid - January | Mid - February |

### 4.2 Pro-rating

Owners of improved properties that connect to the sewer in the middle of a quarter will be charged from the date of connection. With permission from the University Area Joint Authority, owners of improved properties that disconnect sewer service by plugging the lateral will stop being billed as of the date that UAJA Personnel inspects the disconnection.

### 4.3 Delinquent payments

If wastewater rates and charges are not paid by provided due date each billing, an additional sum of $10 \%$ shall be added to the net bill, which net bill, plus such additional sum, shall constitute the gross bill. Payment made on or mailed and postmarked by the due date will be considered on time. When an account has a delinquent amount of $\$ 150.00$ or more, the property owner will be sent a certified letter requesting payment in full within 10 days. All costs associated with certified letters will be charged back to the customer's account. If the property owner fails to pay the balance on the account after receiving the certified letter, and it becomes necessary for this Authority to post the property for water termination, a fee of $\$ 35.00$ will be charged to the property owner's account. At the point of posting, the property owner is notified that the full amount due and owing, together with penalties, interest and legal fees must be paid in full within five (5) days of the notice. In the event the full amount due is not paid, the water utility serving this property shall be directed to discontinue water service to the posted property pursuant to: (1) the Act of 1957, July 10, P.L. 622, as amended and the Act of 1978, November 26, No. 299, as amended. In addition, the property owner will be assessed charges from the Water Utility for termination of service.

### 4.4 Payments returned by bank

In the event a payment of wastewater charges or other charges rendered by this Authority are returned by a banking institution for any reason, a charge of $\$ 37.00$ for each instance shall be added on the property owner's account. In the event the banking institution levies a charge against the Authority for processing a returned check, said charge will be levied against the account for which service is being rendered. The Authority may also demand payment of the account by cash, certified check, bank draft, cashier's check, bank/postal money order. The account, which was paid by the returned check, shall be considered delinquent until full payment is rendered.

## Section 5

### 5.1 Liens for Wastewater Rate and Other Charges:

Wastewater rates and other charges imposed by this Rate Resolution shall be a lien on the improved property connected to and served by the wastewater collection system. Any wastewater rates and other charges which are delinquent shall be filed as a lien against the improved property connected to and served by the wastewater collection system. Such liens shall be filed and collected in the manner provided by law for the filing and collection of municipal claims.

## Section 6

## INDUSTRIAL PRETREATMENT

### 6.1 UAJA Industrial Pretreatment Program

UAJA is required by the US Environmental Protection Agency to comply with various requirements under the Clean Water Act and Other acts, which impose duties and obligations for controlling industrial users, also known as an Industrial Pretreatment Program. In order to perform the duties required in administering an Industrial Pretreatment Program, UAJA has the legal authority to perform inspections and sampling, issue permits and orders, collect permit fees, require reporting and record keeping, control rates and quantities of discharges, require that certain discharges be held, seek equitable relief, and impose penalties and fees as deemed appropriate.

### 6.2 Prohibited Wastes

(a) No person shall discharge or cause to be discharged any storm water, surface water, spring water, ground water, roof runoff, subsurface drainage, building foundation drainage, cellar drainage, drainage from roof leader connections, uncontaminated cooling water, HVAC or other uncontaminated condensate drainage, or unpolluted process waters into any Sewer.
(b) This Authority reserves the right to refuse permission to connect to the Sewage Collection System, to compel discontinuance of use of the Sewage Collection System or the Sewage Disposal System, or to compel pretreatment of Industrial wastes by any Industrial Establishment, in order to comply with provisions of the Service Agreement and to prevent discharge deemed harmful or to have a deleterious effect upon any Sewer, the Sewage Collection System or the Sewage disposal System.
(c) No Sanitary Sewage or Industrial Wastes shall be discharged to the Sewage Collection System:

1) Having a temperature higher than $150^{\circ} \mathrm{F}$.
2) Containing more than 100 ppm of fats, wax, tar, oil and/or grease, whether emulsified or not, or containing substances which may solidify or become viscous at temperature between $32^{\circ} \mathrm{F}$ and $150^{\circ} \mathrm{F}$.
3) Containing any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquids, solids or gases.
4) Containing any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, cloths, feathers, tar, plastics, wood, paunch manure, whole blood, hair, fleshings, entrails, cotton, wool or other fibers, paper dishes, cups or milk containers, either whole or ground by garbage grinders, or any other solid or viscous substances capable of causing obstructions or other interferences with property operation of the Sewage Collection System or Sewers or the Sewage Disposal System.
5) Having a pH lower than 6.0 or higher than 10; being corrosive; or having any other property capable of causing damage or hazards to structures, equipment or operating personnel of the Sewage Collection System, Sewers or the Sewage Disposal System.
6) Containing toxic or poisonous solids, liquids or gases in sufficient quantity either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, to constitute hazards to humans or animals or to create any hazard in waters which receive treated effluent from the Sewage Disposal System. Toxic wastes shall include, but not by way of limitation, wastes containing cyanide, chromium, copper, cadmium, nickel, and/or mercury ions.
7) Sludge, water, solids or other materials pumped from septic tanks.
8) Any waters or wastes containing strong acid iron pickling wastes or concentrated plating solutions, whether neutralized or not.
9) Materials which exert or cause:
a) unusual concentrations of inert suspended solids (such as, but not limited to, Fullers earth, lime slurries and lime residues) or of dissolved solids (such as, but not limited to, sodium chloride and sodium sulfate);
b) excessive discoloration (such as, but not limited to, dye wastes and vegetable tanning solutions);
c) unusual B.O.D., chemical oxygen demand or chlorine requirements in such quantities as to constitute a significant load on the Sewage Disposal System; or
d) unusual volume of flow or concentration of wastes constituting slugs.
10) Containing radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Authority.
11) Notwithstanding the above provisions, any waste containing phenols or any other substance or having other characteristics which are prohibited by the Authority.
(d) In addition, no commercial entity shall discharge any waste exceeding the following Default Concentration Limits unless they have been granted an Industrial Wastewater Discharge Permit, a Local Limits Waiver, or a Conditional Waiver within the previous 24 months.

DEFAULT CONCETRATION LIMITS FOR INDUSTRIAL USERS

| Pollutant | Default IU Limit | Units |
| :---: | :---: | :---: |
| Arsenic | 0.032 | $\mathrm{mg} / \mathrm{l}$ |
| Cadmium | 0.0026 | $\mathrm{mg} / \mathrm{l}$ |
| Copper | 0.60 | $\mathrm{mg} / \mathrm{l}$ |
| Cyanide | 0.054 | $\mathrm{mg} / \mathrm{l}$ |
| Hexavalent Chromium | 0.18 | $\mathrm{mg} / \mathrm{l}$ |
| Lead | 0.066 | $\mathrm{mg} / \mathrm{l}$ |
| Mercury | 0.00050 | $\mathrm{mg} / \mathrm{l}$ |
| Methylene Chloride | 0.20 | $\mathrm{mg} / \mathrm{l}$ |
| Molybdenum | 0.054 | $\mathrm{mg} / \mathrm{l}$ |
| Nickel | 0.29 | $\mathrm{mg} / \mathrm{l}$ |
| Selenium | 0.032 | $\mathrm{mg} / \mathrm{l}$ |
| Silver | 0.10 | $\mathrm{mg} / \mathrm{l}$ |
| Thallium | 0.010 | $\mathrm{mg} / \mathrm{l}$ |
| Zinc | 0.60 | $\mathrm{mg} / \mathrm{l}$ |

Any user unsure of whether their discharge exceeds these limits shall contact UAJA to obtain an Application for a Local Limits Waiver. This Application will be evaluated to determine whether there is a significant risk of exceeding these parameters based on the types of processes and other possible sources of pollution at that site.

However, knowingly exceeding any of these limits without written permission of the Authority is prohibited.
(e) Where necessary all Owners shall install suitable pre-treatment facilities in order to comply with subsections (c) and (d) of this Section. Plans, specifications and any other pertinent information relating to proposed facilities for preliminary treatment and handling of wastes shall be submitted for approval of this Authority and no construction of any such facility shall be commenced until approval
thereof first shall have been obtained, in writing, from this Authority, and until approval thereof first shall have been obtained from any governmental regulatory body having jurisdiction. Whenever facilities for preliminary treatment and handling of wastes shall have been provided by any Owner, such facilities continuously shall be maintained, at the expense of such Owner, in satisfactory operating condition; and this Authority shall have access to such facilities at reasonable times for purposes of inspection and testing.
(f) No person shall install or operate in any Improved Property connected to the Sewage Collection System any garbage grinder equipped with a motor of $3 / 4$ horsepower or greater, without prior written approval of this Authority.
( $\mathbf{g}$ ) Nothing contained in this Section 5 shall be construed as prohibiting any special agreement or arrangement between this Authority and any person whereby Industrial Wastes of unusual strength or character may be admitted into the Sewage Collection System owned by this Authority, either before or after preliminary treatment.

### 6.3 Industrial waste permitting

a) Industrial users proposing to connect to or discharge to the wastewater collection/treatment facility may be required to obtain a Wastewater Discharge Permit before connecting to the wastewater collection/treatment facility.
b) The Authority may establish a system of rates and charges for implementation of the Industrial Pretreatment Program, which shall be applicable to industrial users within its service area. Rates and charges for implementation of the IPP may be changed from time to time by resolution, subject to approval by the Board of the UAJA.

### 6.4 Industrial wastewater inspections

Monitoring by Authority personnel will be composed of both announced and unannounced inspections and sampling. The frequency of monitoring may vary depending on circumstances as determined by the Authority. All industrial users will be inspected and sampled at least once per year. All inspections will be done in accordance with the guidelines set by the industrial pretreatment program in effect. Whenever facilities for preliminary treatment and handling of wastes shall have been provided by any owner, such facilities continuously shall be maintained, at the expense of the owner, in satisfactory operating condition; and this Authority shall have access to such facilities at reasonable times for purposes of inspection and testing.

### 6.5 Enforcement

The Authority may take such actions as provided for by applicable law to enforce the provisions of the Industrial Pretreatment Program. Such actions include, but are not limited to the imposition of penalties of up to $\$ 25,000.00$ per day and seeking injunctive relief under the provisions of the Publicly Owned Treatment Works Penalty Law, 35 P.S. 752.1 et seq.

## SECTION 7

## DEFINITIONS

### 7.1 Definitions

Unless the context specifically and clearly indicates otherwise, the meaning of terms and phrases in this Resolution shall be as follows:
a) Abandonment Permit - required when service is no longer to be provided. This is the only mechanism that will be used to either reduce EDU's or stop the billing process. Inspection is required for confirmation of completion.
b) Authority - The University Area Joint Authority a Pennsylvania municipal authority, its officers, Board members, employees and agents.
c) Equivalent Dwelling Unit - a unit of measurement that estimates an average use of wastewater facilities. Roughly the average amount of wastewater generated by a typical family in one day.
d) Improved Property - a property upon which there is erected a structure intended for continuous or periodic habitation, occupancy or use by human beings or animals from which structure domestic and/or industrial wastes shall be or may be discharged.
Revised 12/14/23
e) Industrial User - an improved property used, in whole or in part, for manufacturing, processing, cleaning, laundering or assembling any product, commodity or article or from which any process waste, as distinct from domestic waste, shall be discharged.
f) Industrial Pretreatment Program -The enforcement of the provisions of the regulations and controls of Industrial Users to the extent required by the federal pretreatment regulations set forth in 40 C.F.R. Part 403 and including similar provisions in ordinances of the contributing Municipalities authorized to be administer by and enforced by this Authority.
g) Industrial Waste: - Any solid, liquid or gaseous substance, or form of energy, which is produced as a result, whether directly or indirectly, of any industrial, manufacturing, trade or business process or activity, or in the course of developing, recovering, or processing of natural resources and which is discharged into the wastewater collection system; but not noncontact cooling water or sanitary sewage. Any wastewater which contains industrial waste and which is discharged from an industrial, manufacturing, trade or business premises is considered industrial waste for the purpose of this Resolution.
h) Non-contact cooling water - the water from any use such as air conditioning, cooling or refrigeration, or to which the only pollutant added is heat.
i) Non-residential - improved properties consisting of commercial, industrial, schools, professional offices, churches, institutions, etc.
j) Owner - any person vested with ownership, legal or equitable, sole or partial, of any improved property.
k) Private to Private Permit - A private to private permit is required when the connection of a detached or accessory use structure (ie: shed, shop, garage, out-building) to the primary use structure (residential) is desired. The definition of "detached" shall be described as a structure on the recorded building lot, with a separate use, that does not share either a common wall, or roof, or foundation with the primary use structure on that building lot. The private to private lateral shall be constructed following the same requirements for the primary building lateral and shall connect to that lateral at a place and in a manner which will allow future maintenance activity to be properly and efficiently conducted. Inspection prior to backfill is required.
I) Repair Permit - a repair permit is required anytime excavation is made to repair or relocate any existing sewer lateral piping anywhere on the property from the building to the property line. Inspection prior to backfill is required.
m) Wastewater - industrial or domestic wastes from dwellings, commercial buildings, industrial facilities, and institutions, together with any groundwater, surface water, and stormwater that may be present, whether treated or untreated, which enters the wastewater collection system.
n) Wastewater Collection System - all facilities, as of any particular time, for collecting, pumping, treating and disposing of domestic and/or industrial wastes, acquired, constructed, owned and operated by this Authority.

## SECTION 8

## Sewer Tapping Fee Calculations

## Exhibit 1a-Summary of Capacity Part Calculations

## CAPACITY PART

HISTORICAL TRENDED COSTS

| Project Completion Year |  | Total Historical Cost | Grants |  | Net Cost |  | ENR Index |  | Trend <br> Factor |  | Trended Cost |  | Capacity Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1967 | \$ | 244,931.00 | \$ | - | \$ | 244,931.00 | 1074 | 10132 | 9.43 | \$ | 2,310,652.60 | \$ | 2,310,652.60 |
| 1968 | \$ | 1,508,256.00 | \$ | 251,600.00 | \$ | 1,256,656.00 | 1155 | 10132 | 8.77 | \$ | 11,023,756.36 | \$ | 11,023,756.36 |
| 1969 | \$ | 786,805.00 | \$ | 257,900.00 | \$ | 528,905.00 | 1269 | 10132 | 7.98 | \$ | 4,222,904.22 | \$ | 4,222,904.22 |
| 1970 | \$ | 6,509,489.21 | \$ | 886,266.42 | \$ | 5,623,222.79 | 1381 | 10132 | 7.34 | \$ | 41,255,969.09 | \$ | 41,255,969.09 |
| 1971 | \$ | 3,656.00 | \$ | - | \$ | 3,656.00 | 1581 | 10132 | 6.41 | \$ | 23,429.85 | \$ | 23,429.85 |
| 1972 | \$ | 1,088.00 | \$ | - | \$ | 1,088.00 | 1753 | 10132 | 5.78 | \$ | 6,288.43 | \$ | 6,288.43 |
| 1974 | \$ | 92,170.00 | \$ | - | \$ | 92,170.00 | 2020 | 10132 | 5.02 | \$ | 462,310.12 | \$ | 462,310.12 |
| 1975 | \$ | 49,531.00 | \$ | - | \$ | 49,531.00 | 2212 | 10132 | 4.58 | \$ | 226,875.27 | \$ | 226,875.27 |
| 1976 | \$ | 108,570.00 | \$ | - | \$ | 108,570.00 | 2401 | 10132 | 4.22 | \$ | 458,155.45 | \$ | 458,155.45 |
| 1977 | \$ | 14,975.00 | \$ | - | \$ | 14,975.00 | 2576 | 10132 | 3.93 | \$ | 58,900.12 | \$ | 58,900.12 |
| 1978 | \$ | 18,575.00 | \$ | - | \$ | 18,575.00 | 2776 | 10132 | 3.65 | \$ | 67,796.07 | \$ | 67,796.07 |
| 1979 | \$ | 183,793.00 | \$ | - | \$ | 183,793.00 | 3003 | 10132 | 3.37 | \$ | 620,110.12 | \$ | 620,110.12 |
| 1980 | \$ | 143,207.00 | \$ | - | \$ | 143,207.00 | 3237 | 10132 | 3.13 | \$ | 448,246.32 | \$ | 448,246.32 |
| 1981 | \$ | 6,815.00 | \$ | - | \$ | 6,815.00 | 3535 | 10132 | 2.87 | \$ | 19,533.12 | \$ | 19,533.12 |
| 1982 | \$ | 99.00 | \$ | - | \$ | 99.00 | 3825 | 10132 | 2.65 | \$ | 262.24 | \$ | 262.24 |
| 1983 | \$ | 1,055.00 | \$ | - | \$ | 1,055.00 | 4066 | 10132 | 2.49 | \$ | 2,628.94 | \$ | 2,628.94 |
| 1984 | \$ | 4,736.00 | \$ | - | \$ | 4,736.00 | 4146 | 10132 | 2.44 | \$ | 11,573.84 | \$ | 11,573.84 |



[^1]COLLECTION PART

## HISTORICAL TRENDED COSTS

| Project Completion Year | Total Historical Cost |  | Grants |  | Net Cost |  | ENR Index |  | Trend Factor | Trended Cost |  | Collection Cost |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | \$ | 6,151,546.89 | \$ | 807,531.05 | \$ | 5,344,015.84 | 1381 | 10132 | 7.34 | \$ | 39,207,507.97 | \$ | 39,207,507.97 |
| 1999 | \$ | 110,782.00 | \$ |  | \$ | 110,782.00 | 6060 | 10132 | 1.67 | \$ | 185,221.65 | \$ | 185,221.65 |
| 2003 | \$ | 152,455.00 | \$ | - | \$ | 152,455.00 | 6695 | 10132 | 1.51 | \$ | 230,720.55 | \$ | 230,720.55 |
| 2005 | \$ | 1,314,124.00 | \$ | 1,314,124.00 | \$ | - | 7446 | 10132 | 1.36 | \$ |  | \$ | - |
| 2006 | \$ | 1,402,896.00 | \$ | 1,402,896.00 | \$ | - | 7751 | 10132 | 1.31 | \$ |  | \$ |  |
| 2007 | \$ | 785,055.00 | \$ | 785,055.00 | \$ | - | 7967 | 10132 | 1.27 | \$ | - | \$ | - |
| 2008 | \$ | 522,182.45 | \$ | 504,192.45 | \$ | 17,990.00 | 8310 | 10132 | 1.22 | \$ | 21,934.38 | \$ | 21,934.38 |
| 2009 | \$ | 1,157,316.39 | \$ | 1,157,316.39 | \$ | - | 8570 | 10132 | 1.18 | \$ | - | \$ | - |
| 2010 | \$ | 990,316.00 | \$ | 990,316.00 | \$ | - | 8802 | 10132 | 1.15 | \$ | - | \$ | - |
| 2011 | \$ | 108,562.44 | \$ | 108,562.44 | \$ | - | 9070 | 10132 | 1.12 | \$ | - | \$ | - |
| 2012 | \$ | 676,520.00 | \$ | 676,520.00 | \$ | - | 9308 | 10132 | 1.09 | \$ | - | \$ | - |
| 2013 | \$ | 2,640,435.00 | \$ | 2,640,435.00 | \$ | - | 9547 | 10132 | 1.06 | \$ |  | \$ | - |
| 2014 | \$ | 1,124,344.68 | \$ | 1,124,344.68 | \$ | - | 9806 | 10132 | 1.03 | \$ | - | \$ | - |
| 2015 | \$ | 62,741.00 | \$ | - | \$ | 62,741.00 | 10034 | 10132 | 1.01 | \$ | 63,353.78 | \$ | 63,353.78 |
| Total Historical \& Trended Cost | \$ | 17,136,535.85 |  | 1,511,293.01 | \$ | 5,625,242.84 |  |  |  |  | 39,645,384.54 | \$ | 39,645,384.54 |

## REPLACEMENT COSTS

| Description |  | Total acement Cost * | Grants |  | Net Cost |  |  | Trend Factor |  | Trended Cost |  | Collection Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sewer Collection Syste | \$ | 120,830,416.98 | \$ 113,851,579.53 | \$ | 6,978,837.45 | NA | NA | NA | \$ | 6,978,837.45 | \$ | 6,978,837.45 |
| Total Replacement Cos | \$ | 120,830,416.98 | \$113,851,579.53 | \$ | 6,978,837.45 |  |  |  |  |  | \$ | 6,978,837.45 |
|  |  |  |  | Tota | Collection Costs | storic | d Re | cement) |  |  | \$ | 46,624,221.99 |
|  |  |  |  | Less | Outstanding Deb | lated | acilit |  |  |  | \$ | 2,671,296.60 |
|  |  |  |  | Tota | Trended Adjust | Cost |  |  |  |  | \$ | 43,952,925.39 |
|  |  |  |  | COL | ECTION PART |  |  |  |  |  |  |  |
|  |  |  |  | Cap | city (Gallons Per | ) - (E | UAJ | max discharge) ${ }^{1}$ |  |  |  | 7,000,000 |
|  |  |  |  | Cost | per Gallon |  |  |  |  |  |  | \$6.28 |
|  |  |  |  | Gall | ns per Residentia | ser M | num | acity Part |  | 90 GPD $\times 2.38=$ |  | 214 |
|  |  |  |  | Max | mum Collection |  |  |  |  |  |  | \$1,344.00 |
| TOTAL MAXIMUM TAPPING FEE - CAPACITY AND COLLECTION PARTS, HYDRAULIC CAPACITY (PER HOUSEHOLD) |  |  |  |  |  |  |  |  |  |  |  | \$6,388.00 |

## TOTAL MAXIMUM TAPPING FEE - CAPACITY AND COLLECTION PARTS, HYDRAULIC CAPACITY (PER HOUSEHOLD)

* Replacement cost is based on engineer's estimate and comprehensive report by Industrial Appraisal Company dated May 1, 2015; historical is not ascertainable.

1) UAJA's WQM Permit provides for an AAF of 9.0 MGD, however UAJA's NPDES permit for Spring Creek only allows 6.0 MGD to be discharged. The NPDES permit for Beneficial Reuse/Wetland Discharge authorizes an additional discharge of 3.0 MGD however, the installed Beneficial Reuse Facilities are rated for 1.0 MGD . Therefore, the 2.00 MGD balance
additional expense which is not included in the numerator of the equation therefore, the 2.00 MGD was not included as capacity in the denominator.

Revised 12/14/23

Exhibit 2a - Detailed Historical Cost Breakdown - Capacity

| $\begin{aligned} & \text { Project Completion } \\ & \text { Year } \end{aligned}$ Year | Total Historical Cost | Grants |  | Net Cost |  | ENR Index |  | $\begin{aligned} & \text { Trend } \\ & \text { Factor } \end{aligned}$ |  | Trended Cost |  | Capacity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CAPACITY |  |  |  |  |  |  |  |  |  |  |  |  |
| 1967 | 244,931.00 | \$ |  | \$ | 244,931.00 | 1074 | 10132 | 9.43 | \$ | 2,310,652.60 | \$ | 2,310,652.60 |
| 1968 | 1,508,256.00 | \$ | 251,600.00 | \$ | 1,256,656.00 | 1155 | 10132 | 8.77 | \$ | 11,023,756.36 | \$ | 11,023,756.36 |
| 1969 | \$ 786,805.00 | \$ | 257,900.00 | \$ | 528,905.00 | 1269 | 10132 | 7.98 | \$ | 4,222,904.22 | \$ | 4,222,904.22 |
| 1970 | \$ 6,509,489.21 | \$ | 886,266.42 | \$ | 5,623,222.79 | 1381 | 10132 | 7.34 | \$ | 41,255,969.09 | \$ | 41,255,969.09 |
| 1971 | \$ 3,656.00 | \$ | - | \$ | 3,656.00 | 1581 | 10132 | 6.41 | \$ | 23,429.85 | \$ | 23,429.85 |
| 1972 | 1,088.00 | \$ | - | \$ | 1,088.00 | 1753 | 10132 | 5.78 | \$ | 6,288.43 | \$ | 6,288.43 |
| 1974 | 92,170.00 | \$ | - | \$ | 92,170.00 | 2020 | 10132 | 5.02 | \$ | 462,310.12 | \$ | 462,310.12 |
| 1975 | 49,531.00 | \$ | - | \$ | 49,531.00 | 2212 | 10132 | 4.58 | \$ | 226,875.27 | \$ | 226,875.27 |
| 1976 | 108,570.00 | \$ | - | \$ | 108,570.00 | 2401 | 10132 | 4.22 | \$ | 458,155.45 | \$ | 458,155.45 |
| 1977 | \$ 14,975.00 | \$ | - | \$ | 14,975.00 | 2576 | 10132 | 3.93 | \$ | 58,900.12 | \$ | 58,900.12 |
| 1978 | \$ 18,575.00 | \$ | - | \$ | 18,575.00 | 2776 | 10132 | 3.65 | \$ | 67,796.07 | \$ | 67,796.07 |
| 1979 | 183,793.00 | \$ | - | \$ | 183,793.00 | 3003 | 10132 | 3.37 | \$ | 620,110.12 | \$ | 620,110.12 |
| 1980 | 143,207.00 | \$ | - | \$ | 143,207.00 | 3237 | 10132 | 3.13 | \$ | 448,246.32 | \$ | 448,246.32 |
| 1981 | 6,815.00 | \$ | - | \$ | 6,815.00 | 3535 | 10132 | 2.87 | \$ | 19,533.12 | \$ | 19,533.12 |
| 1982 | \$ 99.00 | \$ | - | \$ | 99.00 | 3825 | 10132 | 2.65 | \$ | 262.24 | \$ | 262.24 |
| 1983 | \$ 1,055.00 | \$ | - | \$ | 1,055.00 | 4066 | 10132 | 2.49 | \$ | 2,628.94 | \$ | 2,628.94 |
| 1984 | \$ 4,736.00 | \$ | - | \$ | 4,736.00 | 4146 | 10132 | 2.44 | \$ | 11,573.84 | \$ | 11,573.84 |
| 1985 | 95,971.00 | \$ | - | \$ | 95,971.00 | 4195 | 10132 | 2.42 | \$ | 231,794.56 | \$ | 231,794.56 |
| 1986 | 169,656.00 | \$ | - | \$ | 169,656.00 | 4295 | 10132 | 2.36 | \$ | 400,222.26 | \$ | 400,222.26 |
| 1987 | 232,802.00 | \$ | - | \$ | 232,802.00 | 4406 | 10132 | 2.30 | \$ | 535,349.49 | \$ | 535,349.49 |
| 1988 | \$ 736,093.00 | \$ | - | \$ | 736,093.00 | 4519 | 10132 | 2.24 | \$ | 1,650,385.99 | \$ | 1,650,385.99 |
| 1989 | \$ 981,229.00 | \$ | - | \$ | 981,229.00 | 4615 | 10132 | 2.20 | \$ | 2,154,238.84 | \$ | 2,154,238.84 |
| 1990 | \$ 8,091,034.00 | \$ | - | \$ | 8,091,034.00 | 4732 | 10132 | 2.14 | \$ | 17,324,251.16 | \$ | 17,324,251.16 |
| 1991 | 18,019,993.00 | \$ |  | \$ | 18,019,993.00 | 4835 | 10132 | 2.10 | \$ | 37,761,855.03 | \$ | 37,761,855.03 |
| 1992 | 5,933,112.00 | \$ | - | \$ | 5,933,112.00 | 4985 | 10132 | 2.03 | \$ | 12,059,035.26 | \$ | 12,059,035.26 |
| 1993 | 1,117,936.00 | \$ | - | \$ | 1,117,936.00 | 5210 | 10132 | 1.94 | \$ | 2,174,074.39 | \$ | 2,174,074.39 |
| 1994 | \$ 456,565.00 | \$ | - | \$ | 456,565.00 | 5408 | 10132 | 1.87 | \$ | 855,383.98 | \$ | 855,383.98 |
| 1995 | \$ 411,257.00 | \$ |  | \$ | 411,257.00 | 5471 | 10132 | 1.85 | \$ | 761,626.01 | \$ | 761,626.01 |
| 1996 | \$ 106,350.00 | \$ | - | \$ | 106,350.00 | 5620 | 10132 | 1.80 | \$ | 191,732.78 | \$ | 191,732.78 |
| 1997 | \$ 296,887.00 | \$ | - | \$ | 296,887.00 | 5826 | 10132 | 1.74 | \$ | 516,316.35 | \$ | 516,316.35 |
| 1998 | \$ 1,631,664.00 | \$ |  | \$ | 1,631,664.00 | 5920 | 10132 | 1.71 | \$ | 2,792,570.89 | \$ | 2,792,570.89 |
| 1999 | 1,714,730.00 | \$ | 260,000.00 | \$ | 1,454,730.00 | 6059 | 10132 | 1.67 | \$ | 2,432,633.17 | \$ | 2,432,633.17 |
| 2000 | \$ 2,752,597.00 | \$ | - | \$ | 2,752,597.00 | 6221 | 10132 | 1.63 | \$ | 4,483,091.59 | \$ | 4,483,091.59 |
| 2001 | \$ 3,609,790.00 | \$ | 105,000.00 | \$ | 3,504,790.00 | 6343 | 10132 | 1.60 | \$ | 5,598,381.25 | \$ | 5,598,381.25 |
| 2002 | 12,444,054.00 | \$ | - | \$ | 12,444,054.00 | 6538 | 10132 | 1.55 | \$ | 19,284,667.35 | \$ | 19,284,667.35 |
| 2003 | \$ 16,854,836.00 | \$ | - | \$ | 16,854,836.00 | 6694 | 10132 | 1.51 | \$ | 25,511,383.08 | \$ | 25,511,383.08 |
| 2004 | \$ 16,266,860.13 | \$ | - | \$ | 16,266,860.13 | 7129 | 10132 | 1.42 | \$ | 23,119,066.75 | \$ | 23,119,066.75 |
| 2006 | 62,320.00 | \$ | - | \$ | 62,320.00 | 7751 | 10132 | 1.31 | \$ | 81,463.84 | \$ | 81,463.84 |
| 2007 | \$ 1,858,303.00 | \$ | - | \$ | 1,858,303.00 | 7967 | 10132 | 1.27 | \$ | 2,363,289.32 | \$ | 2,363,289.32 |
| 2008 | 5,395,900.20 | \$ | - | \$ | 5,395,900.20 | 8310 | 10132 | 1.22 | \$ | 6,578,972.42 | \$ | 6,578,972.42 |
| 2009 | 77,500.00 |  | - | \$ | 77,500.00 | 8570 | 10132 | 1.18 | \$ | 91,625.44 | \$ | 91,625.44 |
| 2010 | 68,140.00 | \$ | - | \$ | 68,140.00 | 8802 | 10132 | 1.15 | \$ | 78,436.09 | \$ | 78,436.09 |
| 2011 | 396,061.86 | \$ | 100,000.00 | \$ | 296,061.86 | 9070 | 10132 | 1.12 | \$ | 330,727.54 | \$ | 330,727.54 |
| 2012 | \$ 1,638,099.00 | \$ | - | \$ | 1,638,099.00 | 9308 | 10132 | 1.09 | \$ | 1,783,113.35 | \$ | 1,783,113.35 |
| 2013 | 236,875.00 | \$ | - | \$ | 236,875.00 | 9547 | 10132 | 1.06 | \$ | 251,389.70 | \$ | 251,389.70 |
| 2014 | 205,871.84 | \$ | - | \$ | 205,871.84 | 9806 | 10132 | 1.03 | \$ | 212,716.04 | \$ | 212,716.04 |
| 2015 | 7,528,858.00 | \$ | 25,000.00 | \$ | 7,503,858.00 | 10034 | 10132 | 1.01 | \$ | 7,577,146.63 | \$ | 7,577,146.63 |
| Total Historical \& Trended Cost | \$ 119,069,096.24 | \$ | 1,885,766.42 | \$ | 117,183,329.82 |  |  |  | \$ | 240,406,332.70 | \$ | 240,406,332.70 |

HISTORICAL TRENDED COSTS

| Project Completion Year | Total Historical Cost |  | Grants |  | Net Cost |  | ENR Index |  | Trend Factor | Trended <br> Cost |  | Collection Cost |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COLLECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1970 | \$ | 6,151,546.89 | \$ | 807,531.05 | \$ | 5,344,015.84 | 1381 | 10132 | 7.34 | \$ | 39,207,507.97 | \$ | 39,207,507.97 |
| 1999 | \$ | 110,782.00 | \$ | - | \$ | 110,782.00 | 6060 | 10132 | 1.67 | \$ | 185,221.65 | \$ | 185,221.65 |
| 2003 | \$ | 152,455.00 | \$ | - | \$ | 152,455.00 | 6695 | 10132 | 1.51 | \$ | 230,720.55 | \$ | 230,720.55 |
| 2005 | \$ | 1,314,124.00 | \$ | 1,314,124.00 | \$ | - | 7446 | 10132 | 1.36 | \$ | - | \$ | - |
| 2006 | \$ | 1,402,896.00 | \$ | 1,402,896.00 | \$ | - | 7751 | 10132 | 1.31 | \$ | - | \$ | - |
| $2007{ }^{1}$ | \$ | 785,055.00 | \$ | 785,055.00 | \$ | - | 7967 | 10132 | 1.27 | \$ | - | \$ | - |
| $2008{ }^{1}$ | \$ | 522,182.45 | \$ | 504,192.45 | \$ | 17,990.00 | 8310 | 10132 | 1.22 | \$ | 21,934.38 | \$ | 21,934.38 |
| 2009 | \$ | 1,157,316.39 | \$ | 1,157,316.39 | \$ | - | 8570 | 10132 | 1.18 | \$ | - | \$ | - |
| 2010 | \$ | 990,316.00 | \$ | 990,316.00 | \$ | - | 8802 | 10132 | 1.15 | \$ | - | \$ | - |
| 2011 | \$ | 108,562.44 | \$ | 108,562.44 | \$ | - | 9070 | 10132 | 1.12 | \$ | - | \$ | - |
| 2012 | \$ | 676,520.00 | \$ | 676,520.00 | \$ | - | 9308 | 10132 | 1.09 | \$ | - | \$ | - |
| $2013{ }^{1}$ | \$ | 2,640,435.00 | \$ | 2,640,435.00 | \$ | - | 9547 | 10132 | 1.06 | \$ | - | \$ | - |
| $2014{ }^{1}$ | \$ | 1,124,344.68 | \$ | 1,124,344.68 | \$ | - | 9806 | 10132 | 1.03 | \$ | - | \$ | - |
| 2015 | \$ | 62,741.00 | \$ | - | \$ | 62,741.00 | 10034 | 10132 | 1.01 | \$ | 63,353.78 | \$ | 63,353.78 |
| Total Historical \& Trended Cost | \$ | 17,199,276.85 | \$ | 11,511,293.01 | \$ | 5,687,983.84 |  |  |  | \$ | 39,708,738.32 | \$ | 39,708,738.32 |

TOTAL HISTORICAL COSTS (ROUNDED) \$ 39,708,738.32
REPLACEMENT COSTS


SUBTOTAL REPLACEMENT COSTS (ROUNDED) \$ 6,461,886.53
Engineering, Permitting, Bidding, \& Construction Administration $\$$ (6\%)

| Legal and Financing Costs (2.0\%) | $129,237.73$ |
| ---: | ---: | ---: |
| TOTAL REPLACEMENT COSTS \$ | $6,978,837.45$ |

TOTAL COSTS (HISTORICAL + REPLACEMENT) \$ 46,687,575.77

1) Total value of projects completed has been reduced to accout for projects assessed via a Special Purpose Fee.
2) Land values obtained from comprehensive report by Industrial Appraisal Company dated May 1, 2015 and has been adjusted by the same formula used for other components. HRG does not certify land values.

| Due Date | 10A Principle | 10A Interest | 2011A Principle | 2011A Interest | 2012 Principle | 2012 Interest | 2014 Principle | 2014 interest | 2015 Principle | 2015 Interest | Emmaus Prin. | Emmaus int. | $\begin{gathered} \text { Total Debt Service } \\ \text { Due } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mar-16 | \$2,500 | \$114,265 | \$170,000 | \$82,299 | \$1,317,500 | \$232,200 | \$795,000 | \$662,060 |  | \$153,660 | \$75,000 | \$18,977 | \$3,623,460 |
| Sep-16 | \$2,500 | \$114,265 | \$170,000 | \$82,299 | \$1,317,500 | \$232,200 | \$795,000 | \$662,060 |  | \$153,660 |  |  | \$3,529,483 |
| Mar-17 | \$2,500 | \$114,213 | \$187,500 | \$78,899 | \$1,387,500 | \$179,500 | \$87,500 | \$623,979 |  | \$153,660 | \$80,000 | \$15,515 | \$3,630,765 |
| Sep-17 | \$2,500 | \$114,213 | \$187,500 | \$78,899 | \$1,387,500 | \$179,500 | \$807,500 | \$623,979 |  | \$153,660 |  |  | \$3,535,250 |
| Mar-18 | \$2,500 | \$114,154 | \$200,000 | \$75,149 | \$1,422,500 | \$151,750 | \$827,500 | \$584,815 |  | \$153,660 | \$80,000 | \$12,035 | \$3,624,063 |
| Sep-18 | \$2,500 | \$114,154 | \$200,000 | \$75,149 | \$1,422,500 | \$151,750 | \$827,500 | \$584,815 |  | \$153,660 |  |  | \$3,532,028 |
| Mar-19 | \$15,000 | \$114,089 | \$215,000 | \$70,449 | \$1,512,500 | \$80,625 | \$827,500 | \$544,268 |  | \$153,660 | \$85,000 | \$8,356 | \$3,626,446 |
| Sep-19 | \$15,000 | \$114,089 | \$215,000 | \$70,449 | \$1,512,500 | \$80,625 | \$827,500 | \$544,268 |  | \$153,660 |  |  | \$3,533,090 |
| Mar-20 | \$20,000 | \$113,661 | \$227,500 | \$64,806 | \$250,000 | \$5,000 | \$1,225,000 | \$503,720 |  | \$153,660 | \$90,000 | \$4,459 | \$2,657,805 |
| Sep-20 | \$20,000 | \$113,661 | \$227,500 | \$64,806 | \$250,000 | \$5,000 | \$1,225,000 | \$503,720 |  | \$153,660 |  |  | \$2,563,346 |
| Mar-21 | \$172,500 | \$113,061 | \$245,000 | \$58,322 |  |  | \$1,285,000 | \$443,695 | \$205,000 | \$153,660 | \$95,000 | \$344 | \$2,71,582 |
| Sep-21 | \$172,500 | \$113,061 | \$245,000 | \$58,322 |  |  | \$1,285,000 | \$443,695 | \$205,000 | \$153,660 |  |  | \$2,676,238 |
| Mar-22 | \$215,000 | \$107,541 | \$260,000 | \$50,972 |  |  | \$1,350,000 | \$380,730 | \$302,500 | \$144,947 |  |  | \$2,811,690 |
| Sep-22 | \$215,000 | \$107,541 | \$260,000 | \$50,972 |  |  | \$1,350,000 | \$380,730 | \$322,500 | \$144,947 |  |  | \$2,811,690 |
| Mar-23 | \$212,500 | \$100,339 | \$280,000 | \$42,847 |  |  | \$1,415,000 | \$314,580 | \$312,500 | \$132,847 |  |  | \$2,810,613 |
| Sep-23 | \$212,500 | \$100,339 | \$280,000 | \$42,847 |  |  | \$1,415,000 | \$314,580 | \$312,500 | \$132,847 |  |  | \$2,810,613 |
| Mar-24 | \$207,500 | \$93,008 | \$297,500 | \$33,747 |  |  | \$1,490,000 | \$245,245 | \$325,000 | \$120,347 |  |  | \$2,812,346 |
| Sep-24 | \$27,500 | \$93,008 | \$297,500 | \$33,747 |  |  | \$1,490,000 | \$245,245 | \$325,000 | \$120,347 |  |  | \$2,812,346 |
| Mar-25 | \$207,500 | \$85,641 | \$320,000 | \$23,706 |  |  | \$1,557,500 | \$172,235 | \$32,500 | \$112,628 |  |  | \$2,811,711 |
| Sep-25 | \$207,500 | \$85,641 | \$320,000 | \$23,706 |  |  | \$1,557,500 | \$172,235 | \$32,500 | \$112,628 |  |  | \$2,811,711 |
| Mar-26 | \$200,000 | \$78,171 | \$355,000 | \$12,506 |  |  | \$1,635,000 | \$95,918 | \$322,500 | \$104,316 |  |  | \$2,813,411 |
| Sep-26 | \$200,000 | \$78,171 | \$355,000 | \$12,506 |  |  | \$1,635,000 | \$95,918 | \$322,500 | \$104,316 |  |  | \$2,813,411 |
| Mar-27 | \$907,500 | \$70,771 |  |  |  |  | \$157,500 | \$15,803 | \$1,565,000 | \$95,325 |  |  | \$2,811,899 |
| Sep-27 | \$907,500 | \$70,771 |  |  |  |  | \$157,500 | \$15,803 | \$1,565,000 | \$95,325 |  |  | \$2,811,899 |
| $\begin{aligned} & \text { Mar-28 } \\ & \text { Sep-28 } \end{aligned}$ | $\begin{aligned} & \$ 942,500 \\ & \$ 942,500 \end{aligned}$ | $\begin{aligned} & \$ \$ 6,286 \\ & \$ 36,286 \end{aligned}$ |  |  |  |  | $\begin{aligned} & \$ 165,000 \\ & \$ 165,000 \end{aligned}$ | $\begin{aligned} & \$ 8,085 \\ & \$ 8,085 \end{aligned}$ | $\begin{aligned} & \$ 1,612,500 \\ & \$ 1,612,500 \end{aligned}$ | $\begin{aligned} & \$ 48,375 \\ & \$ 48,375 \end{aligned}$ |  |  | $\begin{aligned} & \$ 2,812,746 \\ & \$ 2,812,746 \end{aligned}$ |
| total | \$6,215,000 | \$2,510,400 | \$5,495,000 | \$1,187,406 | \$11,780,000 | \$1,298,150 | \$27,075,000 | \$9,190,262 | \$9,995,000 | \$3,361,483 | \$505,000 | \$59,686 | \$78,672,387 |
| Percent Capacity Total Capacity | $\begin{gathered} 100 \% \\ \$ 6,215,000 \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 2,510,400 \\ \hline \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 5,495,000 \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 1,187,406 \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 11,780,000 \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 1,298,150 \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 27,075,000 \\ \hline \end{gathered}$ | $\begin{gathered} 100 \% \\ \$ 9,190,262 \end{gathered}$ | $\begin{array}{r} 80 \% \\ \$ 7,996,000 \end{array}$ | $\begin{gathered} 80 \% \\ \$ 2,689,186 \end{gathered}$ | $\begin{aligned} & \begin{array}{l} 0 \% \\ 50 \\ \hline \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \% \\ & 50 \\ & \hline \end{aligned}$ | \$75,436,405 |
| Percent Collection | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  | 20\% | 0\% | 0\% |  |
| Total Collection | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,999,000 | \$672,297 | \$0 | \$0 | \$2,671,297 |
| Percent Special Purpose | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 100\% | 100\% |  |
| Total Special Purpose | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$505,000 | \$59,686 | \$564,686.00 |

## Exhibit 4 - Derivation of Organic Based Tapping Fee Charge

A. Determination of Conversion Factor Based Upon Historic UAJA Loadings

Avg. Historic BOD Loading (Years 2010-2014) (Per Chapter 94 Report)
$0.38 \mathrm{lb} /$ day/EDU
2.63 EDUs/1 lb BOD

## B. Verification of Above Conversion Factor Based Upon Industry Standards

| BOD $=0.17 \mathrm{lb} /$ day $/$ capita | (Per DEP Domestic Wastewater Facilities Manual) |
| :--- | :--- |
| Capita per Household $=2.38$ | (Census Data - Centre County) |

$$
\begin{array}{ll}
\mathrm{Lbs} / \text { day/EDU }=0.17 \mathrm{lb} / \text { day/cap * } 2.38 \text { people per household }= & 0.40 \mathrm{lb} / \text { day/EDU } \\
2.47 \mathrm{EDUs} / 1 \mathrm{lb} \text { BOD }
\end{array}
$$

(UAJA historic loading data appears appropriate when compared to standard industry approximations. With the consideration given to water saving appliances, UAJA's wastewater stream has a slightly higher concentration than predicted by the standard model.)

## C. Verification Based Upon Capacity of AWTF

| UAJA Influent BOD Loading Capacity Per Day = | $38,801 \mathrm{lb}$. |
| :--- | ---: |
| UAJA Permitted Capacity = | $9,000,000 \mathrm{gpd}$ |
| Gallons/ lb. BOD = | 231.95 |
| Gallons per Residential User (EDU) $90 * 2.38=$ | 214 |
| No. of EDUs in 1lb. BOD = | 1.08 EDUs/1 lb BOD |
| No. of lb. BOD/ EDU = | $\mathbf{0 . 9 2} \mathrm{lb} /$ day/EDU |

Facilities have been installed and permitted to handle historic BOD loadings shown above.
Determination of Organic Tapping Fee Charge
Organic Loading per EDU = $\quad 2.63$ EDUs/1 lb BOD

| Max Tapping Fee/EDU - Capacity Part = | \$5,044.00 | $* 2.63$ EDUs/lb. |
| :--- | :---: | :---: |
| Capacity Part : Cost per Pound $\mathrm{BOD}_{5}($ non-residential $)$ | $\$ 13,273.68 / \mathrm{lb}$ |  |
|  |  |  |
| Max Tapping Fee/EDU - Collection Part $=$ | $\$ 1,344.00$ | $* 2.63$ EDUs/lb. |
| Collection Part : Cost per Pound $\mathrm{BOD}_{5}($ non-residential $)=$ | $\$ 3,536.84 / \mathrm{lb}$ |  |
| Total Residential Tapping Fee $=$ | $\$ 16,810.53 / \mathrm{lb}$ |  |


[^0]:    $\begin{array}{llll}1045921 & 0021 & 6247 & \text { MEEKS LANE } \\ 1045921 & 0021 & 6337 & \text { PRINCETON DRIV }\end{array}$ 104592100216337 PRINCETON DRIV 104592100216365 CAPITAL IN PRO 104592100216366 CAPITAL IN PRO 104592154056300 SCOTT ROAD UPG 104592154056337 PRINCETON DRIV $\begin{array}{lll}1045921 & 5505 & 6300 \\ 1045921 & \text { PROMP STATION M } \\ 10247 & \text { MEEKS LANE }\end{array}$ 1045921 ER05 6364 RENTAL-TRUCK MEEKS LANE MEEKS LANE 104591 EROS 6364 RENTAL TRUCK

[^1]:    1) UAJA's WQM Permit provides for an AAF of 9.0 MGD, however UAJA's NPDES permit for Spring Creek only allows 6.0 MGD to be discharged. The NPDES permit for Beneficial Reuse/Wetland Discharge authorizes an additional discharge of 3.0 MGD however, the installed Beneficial Reuse Facilities are rated for 1.0 MGD. Therefore, the 2.00 MGD balance of capacity in the permit is only available with additional expense which is not included in the numerator of the equation therefore, the 2.00 MGD was not included as capacity in the denominator.
