MINUTES
City Council Public Works & Utilities Committee

Tuesday September 3, 2024 – 10:00 AM
City Council Chambers

Members Present:	Mac Morrow, Chair, Council Member Lauren Wise, Vice-Chair, Council Member Owen Carson, Citizen Member Mayor Maureen Copelof, Ex-Officio
Staff Present:	Wilson Hooper, City Manager Dean Luebbe, Assistant City Manager/Finance Director David Todd, Assistant City Manager Wesley Shook, Acting Public Works Director Dennis Richardson, Water Treatment Plant Supervisor Emory Owen, Wastewater Treatment Plant Supervisor Aaron Winans, WWTP Staff Denise Hodsdon, City Clerk
Guests:	KCI Representatives David DePratter, Matt Broderick, Tom Vollmar, Kerry Wiant, and Kyle Seaman Harvey Sankey

The Public Works & Utilities Committee met with KCI representatives for a Brevard Wastewater Treatment Plant Preliminary Engineering Report Project Kickoff meeting.

A. Welcome and Call to Order

Committee Chair Mac Morrow called the meeting to order at 10:00 a.m. and welcomed the team from KCI. Committee members, City Staff, and KCI representatives all introduced themselves.

B. Certification of Quorum

City Clerk Denise Hodsdon certified that a quorum was present.

C. Approval of Agenda

Motion by Mr. Carson, seconded by Mr. Wise to approve the agenda as presented. The motion carried unanimously. KCI provided a Workshop Meeting Agenda (copy attached as Exhibit A). Mr. Carson moved, seconded by Mr. Wise to approve the Workshop Meeting Agenda. The motion carried unanimously.

D. Approval of Minutes – August 7, 2024 Meeting

Motion by Mr. Wise, seconded by Mr. Carson to approve the minutes of the August 7, 2024 meeting as presented. The motion carried unanimously.

E. KCI – Wastewater Treatment Plant Preliminary Engineering Report Project Kickoff

David DePratter of KCI facilitated the meeting with input from the KCI Team Members and feedback from City Staff. A copy of KCI's presentation is filed with the minutes. A copy of the Workshop Meeting Minutes prepared by KCI is attached as Exhibit B.

F. Public Comment

Harvey Sankey commented that hopefully the WWTP project could be fully funded with grant funds.

G. Set Date for Next Meeting

The next regular meeting of the Public Works & Utilities Committee was scheduled for Wednesday, October 2, 2024 at 3:30 p.m.

H. Adjourn

There being no further business, the meeting was adjourned at 12:46 p.m.

Minutes Approved: November 6, 2024 X Mac Morrow

Mac Morrow
Chair, Council Member

X Denise Hodsdon

Denise Hodsdon
City Clerk

EXHIBIT A

WORKSHOP MEETING AGENDA

PER Kickoff Workshop

Project: Brevard WWTP Preliminary Engineering Report
Client: City of Brevard, NC
KCI Project: 412403571

Meeting Date: September 3, 2024
Meeting Time: 10:00am

OVERALL MEETING SCHEDULE

10:00-11:30	Overall Project Goals (Project Criteria, Basin Study, Schedule)
11:30-12:00	Alternative Plant Locations/Regionalization
12:00-12:30	LUNCH
12:20-12:45	Project Criteria Recap
12:45-1:15	Input on Current Technical and Operational Challenges
1:15-1:45	Feedback on Initial Design Concepts
1:45-2:00	Information RFI

Discussion Items:

1. Goals and Objectives for the PER
   - Recap/Updates
   - Project Criteria
     - Time horizon
     - Right size
     - Right site
     - Right technology
     - Accommodate present and future conditions
     - Address site restrictions and obtain permits
     - Quantify and secure funds to complete the project
     - Facilitate quality construction
     - Finish on time
   - Basin Study/Buildout Capacity
   - Additional Funding Discussion
   - Schedule

2. Alternate Plant Locations
   - Potential locations owned or already identified by the City

3. Regionalization
   - Potential stakeholders
   - Meetings

4. Project Criteria Recap

5. Input from Operations and Maintenance Staff
   - Flow issues
   - Equipment issues
   - Compliance issues with NCDEQ

6. Feedback on Initial Design Concepts
   - Activated Sludge
   - SBR
   - AquaNereda
   - Membranes

7. Available Information RFI
   - GIS shapefiles (critical path):
     - Basins (existing and future service areas)
     - Zoning
     - Force main and Gravity lines
     - Manholes
     - Pump Stations
     - Any additional information
   - Pump Station and WWTP Information (Record Drawings, Design Reports, Flow Data etc.)
   - Flow Monitoring Data (if available) in Collection system
   - Known I&I Sources
   - Sewer AIA Scope and data collected to date (If available)
   - Planning/Zoning Master Plans

8. Other Items

EXHIBIT B

WORKSHOP MEETING MINUTES

PER Kickoff Workshop

Project: Brevard WWTP Preliminary Engineering Report
Client: City of Brevard, NC
KCI Project: 412403571

Meeting Date: September 3, 2024
Meeting Time: 10:00am

Discussion Items:

1. Goals and Objectives for the PER
   - Project Criteria Priority Ranking for PER by City Staff
     1. Right size
     2. Funding
     3. Right technology
     4. Right site(s)
     5. Planning Time horizon
     6. Environmental Stewardship
     7. Quality Construction
     8. Schedule
     9. Regionalization
   - Basin Study/Buildout Capacity
     - City would like to bring City and County planners as well as developers in for a meeting to discuss future developments.
     - Potential for growth along proposed Ecusta Trail
     - Brevard College has prepared a Masterplan
     - The City anticipates the County's Masterplan will focus on the corridor between Brevard and Rosman, but the larger growth corridor is anticipated between the City and Mills River and Hendersonville.
     - The County Masterplan is in progress but likely won't be complete in the next six weeks, so basin study and flow projections may need to be adjusted at a later date.
   - Additional Funding Discussion
     - City would like to explore funding options especially those that are grant funded.
   - Schedule
     - PER is scheduled to be completed in May of 2025 with periodic meetings between now and then. Next scheduled meeting will be to discuss the basin study and flow projections.
     - KCI to have basin study and flow projections done in 6 weeks and will schedule a follow-up meeting to discuss.
2. Alternate Plant Locations
   - Potential locations owned or already identified by the City.
     - No existing properties for potential plant site identified other than Ecusta Mill site.
     - Ecusta Mill – has its own NDPES permit (NC0000078) and is currently treating landfill leachate, stormwater runoff and dewatering wastewater. The current permit indicates that the facility classification is a Grade I Biological WPCS with no flow limits and is owned and operated by the Davidson River Village, LLC.

3. Regionalization
   - Potential stakeholders
     - Transylvania Economic Alliance
     - Transylvania County
       1. McGill working on Utility Master Plan with the County
     - Town of Rosman
   - City does not want to give up control of treatment plant under any circumstances.
   - Concerns over providing sewer service to customers outside of City limits.
4. Input from Operations and Maintenance Staff
   - City would like a new lab building
   - Neely Pump station supplies 70% of the flow to the plant and is directly pumped to the EQ Basin
   - Would like Tertiary Filtration
   - Odor Control System. Odor issues have become an issue since flows from Oskar Blues has been added to the system
   - Flow issues
     - Wet Weather Program has been implemented and a study is ongoing.
     - EQ Basin cannot be fully drained due to hydraulic issues with pumps. Only have 1.5 days of storage.
   - Equipment issues
     - Draw down pump need VFDs to slow down flow introduced to plant.
     - Grit removal system is undersized and is not effective and needs to be updated.
     - Operators want to get away from static screening and have screening prior to the EQ basin.
     - Operators would like additional sludge holding, additionally they have no back up press or holding tank.
     - Plant has to run presses 5 days a week. Issues with new PAC coagulant causing feedrate issues to BFP. Previously could run at 230 gpm but down to 60-70 gpm.
     - Costs of landfilling dewatered biosolids has become an operational issue. Potential to look at combing efforts with Oskar Blues. Currently paying $55/ton.
     - Getting replacement parts are an issue and would like this to be addressed in the specifications for any proposed equipment.
5. Initial Design Concepts Considered
   - Aux. Wet Weather Treatment (Aqua-Storm).
   - Activated Sludge – 2.5-5 MGD
   - Sequencing Batch Reactor (SBR) – 2.5-5 MGD
   - Aerobic granular sludge (AquaNereda) – 5-10 MGD
6. Available Information RFI
   - GIS shapefiles (critical path):
     - Basins (existing and future service areas)
     - Zoning
     - Force main and Gravity lines
     - Manholes
     - Pump Stations
     - Any additional information
   - Pump Station and WWTP Information (Record Drawings, Design Reports, Flow Data etc.)
   - Flow Monitoring Data (if available) in Collection system
   - Known I&I Sources
   - Sewer AIA Scope and data collected to date (If available)
   - Planning/Zoning Master Plans

EXHIBIT B

7. Additional Items
    - Confirm if existing plant is in floodway
    - Schedule treatment plant visits for proposed technologies in Fall of 2024
    - Attachments:
        - Workshop PowerPoint Presentation