



**Columbia County NFMIP WWTP
Progress Meeting**



Date: 08/07/2023

Time: 9:00AM

Place: WS Jobsite Trailer Microsoft Teams

| <u>Name:</u> | <u>Company:</u> | <u>Email:</u> | <u>In Attendance?</u> |
|---|-----------------|--|-----------------------|
| Travis Cassella: Project Manager | WSI | tcassella@whartonsmith.com | ✓ |
| Jeff Rocek: Project Superintendent | WSI | jrocek@whartonsmith.com | |
| Jose Romero: Project Engineer | WSI | jromero@whartonsmith.com | ✓ |
| Hayden Wilhelm: PE Tech | WSI | hwilhem@whartonsmith.com | |
| Sloan Hagerty: Senior PM | WSI | shagerty@whartonsmith.com | ✓ |
| Stacy Cowart | Columbia County | scowart@columbiacountyfla.com | ✓ |
| Ken Sweet | Columbia County | ksweet@columbiacountyfla.com | ✓ |
| Mike Null | Columbia County | bccpurchasing@columbiacountyfla.com | ✓ |
| Erica Jones | Columbia County | ejones@columbiacountyfla.com | ✓ |
| Daniel Inkell | Jones Edmunds | dinkell@jonesedmunds.com | ✓ |
| Joey Duncan | Dewberry | jduncan@dewberry.com | ✓ |
| Jose Pereira | Dewberry | jpereira@dewberry.com | |
| Harlan Wiggins | Dewberry | hwiggins@dewberry.com | ✓ |
| Amy Tracy | Dewberry | atracy@dewberry.com | |

✓ X
1.0 - SAFETY

| | |
|------------|--|
| 1.1 | <ul style="list-style-type: none"> No accidents, no incidents. <ul style="list-style-type: none"> - Changing weather conditions. - Overhead awareness around crane at CCT. |
|------------|--|

2.0 – PERMITS AND CONTRACT

| | |
|------------|---|
| 2.1 | <ul style="list-style-type: none"> Building Permit: <ul style="list-style-type: none"> - Building permit was issued 6/22/2023 - Permit #: 47527 Potable water and force main tapping applications – Not approved CC to purchase water and force mains. GMP-3 Status – Board review last week of July. Approved. Formal contract amendment sent 7/31/2023. Deductive Change Order Status Approved. |
|------------|---|

3.0 - REVIEW OF WORK IN PROGRESS

| | |
|------------|---|
| 3.1 | <ul style="list-style-type: none"> Management: <ul style="list-style-type: none"> o Continued work on procurement, submittals, and RFIs. |
| 3.2 | <ul style="list-style-type: none"> Field: <ul style="list-style-type: none"> o Wharton-Smith worked on: |

| | |
|--|--|
| | <ul style="list-style-type: none"> ▪ F/R/P CCT effluent slab ▪ Formed and reinforced walls for first lift ▪ Installed gravity sewer structures and piping. ▪ Installed 20" HDPE into Reject Pond. ○ Cogburn <ul style="list-style-type: none"> ▪ Completed FPL Conduit run from Hwy90 to XFMR ▪ Installed communications conduits from Hwy90 to plant. ○ Tim-Prep worked on: <ul style="list-style-type: none"> ▪ Continued excavation of stormwater pond ▪ Constructing site road ▪ Continued building reject pond. ▪ Built-up BNR & XFMR pads. |
|--|--|

4.0 - UPCOMING WORK

| | |
|-----|---|
| 4.1 | <ul style="list-style-type: none"> • Management: <ul style="list-style-type: none"> ○ GMP-3 procurement, submittals, and RFI's. • Field: <ul style="list-style-type: none"> ○ Wharton-Smith <ul style="list-style-type: none"> ▪ Pour CCT effluent walls (1st lift) ▪ Plug/Patch/Leak Test/Backfill CCT walls ▪ Continue gravity sewer pipe install ○ Tim-Prep <ul style="list-style-type: none"> ▪ Finish building up plant loop road and installing rock ▪ Dig stormwater pond deeper to generate more fill. ▪ Finish building Reject Pond ○ Cogburn <ul style="list-style-type: none"> ▪ Finish telecommunication conduits ▪ Begin In/Under rough in of electrical building (pending layout confirmation RFI) ▪ CCT In/Under ○ Comanco (Mobilizing first week of September) <ul style="list-style-type: none"> ▪ Install reject pond liner ○ GeoTek (Mobilizing 9/5) <ul style="list-style-type: none"> ▪ Ground Improvement/Rigid Inclusions ○ FPL <ul style="list-style-type: none"> ▪ Transformer to be set and energized 9/25/2023 |
|-----|---|

5.0 – SUBMITTALS, RFI, COORDINATION

| | |
|-----|--|
| 5.1 | <ul style="list-style-type: none"> • <u>Submittals</u> <ul style="list-style-type: none"> - High Priority <ol style="list-style-type: none"> 1. Ground Improvements – Rigid Inclusions - See attached submittal log. |
| 5.2 | <ul style="list-style-type: none"> • <u>RFIs</u> <ul style="list-style-type: none"> - 44 RFI's submitted to date, 3 open/Unresolved RFI's <ol style="list-style-type: none"> 1. RFI#015 - Spray Field Monitoring Wells 2. RFI#043 – EQ Pump Motor Service Factor 3. RFI#044 – Electrical Building Coordinates - See attached Open RFI Log. |
| 5.3 | <ul style="list-style-type: none"> • <u>Coordination Items</u> <ul style="list-style-type: none"> - BNR Slab Updated Drawings: Draft design was provided, waiting on updated drawings. WS is moving forward with the draft and has had rebar drawings updated which will be submitted for review this week. |

| | |
|--|---|
| | <ul style="list-style-type: none"> - Electrical/IC Coordination: Wharton-Smith has requested a set of Design Clarification drawings which detail changes to Electrical and Instrumentation. These changes include reducing from two PLC's to a single and utilizing fiber/ethernet communications in lieu of hardwired. - Evoqua BNR Layout Coordination: Last week a coordination meeting has been conducted to resolve layout concerns. The BNR platform will need to be modified to remove cross braces under the platform to allow for access from the site road to the West side of the tanks. Additionally – the stairway is being redesigned with a switchback to resolve the conflict with the 75hp blower. Evoqua has advised that these changes will have a cost impact. Associated costs will be submitted for approval as a Contingency/Allowance Usage Order (CAUO). |
|--|---|

6.0 – CONTINGENCY/ALLOWANCE USAGE ORDERS (CAUO)

| | |
|------------|---|
| 6.1 | <ul style="list-style-type: none"> • CAUO's to be submitted for approval - funded from contingency. <ul style="list-style-type: none"> ○ Thickened BNR Slab ○ CCT Drains (adding drains back to the project) ○ Additional Hydrants ○ Geotechnical Peer Review ○ Influent Manhole Future FM ○ Addition of Metal Building Walls and Galvanizing ○ Electrical Gear Additional Cost for Increased Motor Sizes ○ Evoqua Stair and Platform Modifications |
|------------|---|

7.0 - SCHEDULE

| | |
|------------|---|
| 7.1 | <ul style="list-style-type: none"> • Baseline Schedule updated on 08/04/23 <ul style="list-style-type: none"> ○ Critical Path is currently being driven by the Packaged Plants – Upcoming critical activities are listed below: <ul style="list-style-type: none"> ▪ BNR Packaged Plant submittal approval and release. ▪ Tank slab redesign, this will be required for new rebar shop drawings, submittals, and approvals ▪ Rigid Inclusions contract execution and submittals. ○ See attached CPM Schedule. |
|------------|---|

8.0 – PREVIOUS DISCUSSION

| | |
|-------------------------------|---|
| 8.1 06/01/23 | <ul style="list-style-type: none"> • Mr. Null expressed gratitude towards the team for achieving the DEO expenditure goal on time. • Mr. Duncan suggested weekly meetings could be held to increase RFI/Submittal turnaround times. |
|-------------------------------|---|

9.0 – DISCUSSION

| | |
|-------------------------------|--|
| 9.1 06/01/23 | <ul style="list-style-type: none"> • WS send out progress photos • Columbia County finalizing JE CEI contract • Revisit RFI#041 Drainage Inlet Modification |
|-------------------------------|--|

10.0 - PREVIOUS ACTION ITEMS

| | |
|--------------------------------|---|
| 10.1 07/10/23 | <ul style="list-style-type: none"> • Jones Edmunds provide response to RFI#032 ASAP. Complete |
|--------------------------------|---|

11.0 – NEW ACTION ITEMS

| | |
|------------------|---|
| 11.1 08/07/23 | <ul style="list-style-type: none">• Wharton-Smith to send monthly aerial progress photos• Jones Edmunds to revisit RFI#041 |
|------------------|---|

Next Meeting Time and Date:

TIME: 09:00 AM

LOCATION: On Site

DAY/DATE: 9/11/2023

The above statements represent this writer's understanding of discussions, decisions, clarifications, and actions taken from this meeting. Unless advised otherwise in writing within five (5) days of receipt of these minutes, the above statements shall be considered true and correct and work shall proceed on this basis.

Notes

| <u>Item</u> | <u>Date</u> | <u>Action By</u> | <u>Date Due</u> |
|-------------|-------------|------------------|-----------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

[illegible]

| Columbia County NFMIP WWTP - PU4_230731 | | | | Columbia County Progress Update | | | | | | | | | | | | 04-Aug-23 17:32 | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|--|---------------------------------|-------------|---|---|---|----------------------------|---|---|---|---|---|---|-----------------|---|---|---|---|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity ID | Activity Name | Original Duration | Total Float | Start | Finish | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S |
| | SE1250 | Install Site Grounding | 5 | 328 | 17-Oct-23 | 23-Oct-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SE1150 | Install Site Lighting | 10 | 177 | 19-Jun-24 | 02-Jul-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SE1260 | Site Electrical Complete | 0 | 197 | | 02-Jul-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Yard piping | | 115 | 303 | 28-Jun-23 A | 13-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pipelines | | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Process Pipe | | 115 | 303 | 28-Jun-23 A | 13-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1110 | Install 12" influent to package plants from IPS | 10 | 25 | 28-Jun-23 A | 11-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1220 | Install 8" DS-1 | 5 | 27 | 31-Jul-23 | 04-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1240 | 8" EQ-1 from BNRs to CCC | 10 | 22 | 31-Jul-23 | 11-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1170 | Lechaete tank Drain Piping | 5 | 323 | 14-Aug-23 | 18-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1140 | 8" & 12" SE from Package plants to CCC | 10 | 22 | 25-Aug-23 | 08-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1150 | 6" PSD to Manhole | 7 | 22 | 11-Sep-23 | 19-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1190 | Install 3" Chemical Containment Piping | 3 | 286 | 20-Sep-23 | 22-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1200 | Install Plant PW Piping | 5 | 286 | 25-Sep-23 | 29-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1130 | 20" from CCC to pond | 5 | 303 | 07-Dec-23 | 13-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1210 | Yard Piping Complete | 0 | 303 | | 13-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sanitary Sewer | | 43 | 355 | 24-Jul-23 A | 28-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1100 | Install PDPS to MH-102 | 5 | 363 | 24-Jul-23 A | 04-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1080 | Install MH-102 to MH-101 | 2 | 363 | 07-Aug-23 | 08-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1020 | Install PDPS to MH-104 | 3 | 388 | 09-Aug-23 | 11-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1030 | Install MH-104 to Sludge Pump Station | 3 | 22 | 14-Aug-23 | 16-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1090 | Install MH-101 to Ops Building | 1 | 360 | 14-Aug-23 | 14-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1040 | Install PDPS to MH-103 | 1 | 22 | 17-Aug-23 | 17-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1050 | Install MH-103 to BNR Drains | 5 | 22 | 18-Aug-23 | 24-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1060 | Install MH-104 to MH-102 | 5 | 314 | 25-Aug-23 | 31-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1070 | Install MH-102 to Leachate Drains & Chem Stora | 2 | 314 | 01-Sep-23 | 05-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | YP1010 | Install PDPS Package Lift Station | 3 | 355 | 26-Sep-23 | 28-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WWTP | | 428 | 0 | 24-Jul-23 A | 13-Apr-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Influent Pump Station | | 359 | 34 | 07-Aug-23 | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1000 | Excavate and install IPS | 15 | 314 | 07-Aug-23 | 25-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1100 | Install Master Manhole and Influent Piping | 5 | 314 | 28-Aug-23 | 01-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1120 | Backfill and Compact - Prepare slab grade | 3 | 314 | 05-Sep-23 | 07-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1230 | In/Under Electrical and Mechanical | 5 | 314 | 08-Sep-23 | 14-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1010 | F/R/P Slab on Grade | 7 | 314 | 15-Sep-23 | 25-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1040 | Aggru-Liner | 5 | 314 | 26-Sep-23 | 02-Oct-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1020 | Install Pumps and Piping | 15 | 229 | 05-Feb-24 | 23-Feb-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1030 | Install Submersible Mixer | 2 | 229 | 26-Feb-24 | 27-Feb-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1050 | Pull & Terminate Wire | 10 | 35 | 03-Dec-24 | 16-Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1140 | Local I/O Check | 2 | 40 | 17-Dec-24 | 18-Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1060 | Start-Up and Testing | 5 | 34 | 30-Dec-24 | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP1070 | Influent Pump Station Complete | 0 | 34 | | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lechaete | | 215 | 34 | 01-Mar-24 | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1130 | Mobilize & Recieve Tank Material | 3 | 145 | 01-Mar-24 | 05-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1140 | T1: Set and anchor tank base | 2 | 145 | 06-Mar-24 | 07-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1150 | T1: Erect and bolt up tank walls | 10 | 145 | 08-Mar-24 | 21-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1160 | T1: Set and bolt up tank roof | 5 | 145 | 22-Mar-24 | 28-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1170 | T1: Leak Test Tank | 5 | 145 | 29-Mar-24 | 04-Apr-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1180 | T2: Set and anchor tank base | 2 | 145 | 05-Apr-24 | 08-Apr-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>Remaining Level of Effort</div> <div>Actual Level of Effort</div> | | | <div>Actual Work</div> <div>Remaining Work</div> | | | <div>Critical Remaining Work</div> <div>Milestone</div> | | | Columbia County NFMIP WWTP | | | | | | | | | | | | TASK filter: Completed. | | | | | | | | | | | | | | |
| | | | | | | | | | July 31, 2023 | | | | | | | | | | | | Page 4 of 8 | | | | | | | | | | | | | | |

| Columbia County NFMIP WWTP - PU4_230731 | | | | Columbia County Progress Update | | | | | | | | | | | | 04-Aug-23 17:32 | | | | | | | | | | | | | | | | | | | |
|--|-----------------|---|-------------|---|-----------|-----------|---|----------------------------|---|---|---|---|---|---|---|-----------------|---|---|---|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity ID | Activity Name | Original Duration | Total Float | Start | Finish | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S |
| | LT1190 | T2: Erect and bolt up tank walls | 10 | 145 | 09-Apr-24 | 22-Apr-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1200 | T2: Set and bolt up tank roof | 5 | 145 | 23-Apr-24 | 29-Apr-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1210 | T2: Leak test tank | 5 | 145 | 30-Apr-24 | 06-May-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1220 | Tank Punchlist | 5 | 145 | 07-May-24 | 13-May-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1040 | F/R/P pads for equipment | 10 | 145 | 14-May-24 | 28-May-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1050 | Install pumps | 5 | 145 | 29-May-24 | 04-Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1060 | Install Blowers | 3 | 145 | 05-Jun-24 | 07-Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1070 | Install flanged piping | 5 | 145 | 10-Jun-24 | 14-Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1080 | Install air piping | 7 | 145 | 17-Jun-24 | 25-Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1090 | Install diffusers | 5 | 145 | 26-Jun-24 | 02-Jul-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1100 | Pull & Terminate Wire | 10 | 35 | 10-Dec-24 | 23-Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1230 | Local I/O Check | 2 | 35 | 24-Dec-24 | 26-Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1110 | Startup and Testing | 5 | 34 | 30-Dec-24 | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LT1120 | Leachate Complete | 0 | 34 | 06-Jan-25 | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Packaged Plants | | 371 | 0 | 05-Sep-23 | 19-Feb-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1430 | Peform Rigid Inclusions - Ground Improvements | 15 | 3 | 05-Sep-23 | 25-Sep-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1150 | Prepare Grade for Slab on Grade | 10 | 3 | 26-Sep-23 | 09-Oct-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1160 | Grounding | 5 | 3 | 10-Oct-23 | 16-Oct-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1010 | F/R/P Slabs for tanks | 20 | 3 | 17-Oct-23 | 13-Nov-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1000 | In/Under Electric | 5 | 3 | 14-Nov-23 | 20-Nov-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1190 | Evoqua Mobilization | 5 | 0 | 28-Nov-23 | 04-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1200 | PP1: Erect center clarifier drive shaft | 7 | 0 | 05-Dec-23 | 13-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1210 | PP1: Erect clarifier tank walls | 15 | 0 | 14-Dec-23 | 05-Jan-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1220 | PP1: Erect exterior tank walls and bulkheads | 30 | 0 | 08-Jan-24 | 16-Feb-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1230 | PP1: Grout and install clarifer scrapers | 10 | 0 | 19-Feb-24 | 01-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1240 | PP1: Install mixers and aeration piping | 5 | 0 | 04-Mar-24 | 08-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1250 | PP1: Skimmers, Scum Troughs, Screens | 5 | 0 | 11-Mar-24 | 15-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1260 | PP1: Install process piping | 10 | 0 | 18-Mar-24 | 29-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1270 | PP1: Leak tests | 10 | 0 | 01-Apr-24 | 12-Apr-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1280 | PP1: Coatings | 15 | 0 | 15-Apr-24 | 03-May-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1290 | PP1: Complete | 1 | 0 | 06-May-24 | 06-May-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1300 | PP2: Erect center clarifier drive shaft | 6 | 0 | 07-May-24 | 14-May-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1310 | PP2: Erect clarifier tank walls | 15 | 0 | 15-May-24 | 05-Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1320 | PP2: Erect exterior tank walls and bulkheads | 30 | 0 | 06-Jun-24 | 18-Jul-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1330 | PP2: Grout and install clarifer scrapers | 10 | 0 | 19-Jul-24 | 01-Aug-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1340 | PP2: Install mixers and aeration piping | 5 | 0 | 02-Aug-24 | 08-Aug-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1350 | PP2: Skimmers, Scum Troughs, Screens | 5 | 0 | 09-Aug-24 | 15-Aug-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1360 | PP2: Install process piping | 10 | 0 | 16-Aug-24 | 29-Aug-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1370 | PP2: Leak tests | 10 | 0 | 30-Aug-24 | 13-Sep-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1380 | PP2: Coatings | 15 | 0 | 16-Sep-24 | 04-Oct-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1390 | PP2: Complete | 1 | 0 | 07-Oct-24 | 07-Oct-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1110 | Pour slab around entire area | 15 | 8 | 08-Oct-24 | 28-Oct-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1400 | Erect platform between packaged plants | 15 | 0 | 08-Oct-24 | 28-Oct-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1020 | F/R/P Equipment Pads for Pumps and Blowers | 10 | 8 | 29-Oct-24 | 11-Nov-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1170 | Install Misc. Metals | 15 | 0 | 29-Oct-24 | 18-Nov-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1100 | Install drum screens and conveyor | 3 | 0 | 19-Nov-24 | 21-Nov-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP1040 | Install IR pumps | 5 | 0 | 22-Nov-24 | 02-Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div></div> Remaining Level of Effort</div> <div><div></div> Actual Level of Effort</div> | | | | <div><div></div> Critical Remaining Work</div> <div><div></div> Milestone</div> | | | | Columbia County NFMIP WWTP | | | | | | | | | | | | TASK filter: Completed. | | | | | | | | | | | | | | | |
| | | | | July 31, 2023 | | | | | | | | | | | | Page 5 of 8 | | | | | | | | | | | | | | | | | | | |

[illegible]

[illegible]

| Columbia County NFMIP WWTP - PU4_230731 | | | | Columbia County Progress Update | | | | | | | | | | | | | | 04-Aug-23 17:32 | | | | | | | | | | | | | | | | | |
|---|---------------------------------------|---|-------------|---------------------------------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity ID | Activity Name | Original Duration | Total Float | Start | Finish | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S |
| OB1000 | Operations Building | 357 | 30 | 15-Aug-23 | 10-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1000 | Install In/Under Electric/Mechanical/TBD? | 5 | 360 | 15-Aug-23 | 21-Aug-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1010 | Set Operations Building | 5 | 276 | 21-Dec-23 | 28-Dec-23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1020 | Install I&C Monitoring Equipment | 10 | 241 | 19-Feb-24 | 01-Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1040 | Pull & terminate wire | 3 | 30 | 02-Jan-25 | 06-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1050 | Local I/O Check | 2 | 30 | 07-Jan-25 | 08-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1060 | Start-up and testing | 2 | 30 | 09-Jan-25 | 10-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OB1030 | Operations Building Complete | 0 | 30 | | 10-Jan-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Start-Up & Testing | | 35 | 0 | 24-Feb-25 | 13-Apr-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SU1000 | Truck in Seeding Material | 10 | 0 | 24-Feb-25 | 07-Mar-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SU1010 | Introduce Raw Flow | 5 | 0 | 10-Mar-25 | 14-Mar-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SU1015 | 30-Day Functional/Performance Testing | 30 | 0 | 15-Mar-25 | 13-Apr-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remaining Level of Effort

 Actual Work

Actual Level of Effort

 Remaining Work

Critical Remaining Work

 Milestone

Columbia County NFMIP WWTP

July 31, 2023

TASK filter: Completed.

Page 8 of 8

22-114 COLUMBIA COUNTY SUBMITTAL LOG SUBMITTAL LOG

FA: For approval

FI: For information

FC: For review and comment

FR: For record

8/7/2023

| SUBMITTAL NO. | DESCRIPTION | TYPE | DATE SUBMITTED | DATE RETURNED | STATUS | VENDOR/SUBCONTRACTOR |
|---------------|---|------|----------------|---------------|---------------------------------------|----------------------|
| 01290-001 | Schedule of Values | FR | | | | Wharton-Smith |
| 01320-001 | Baseline Schedule Narrative | FR | 4/12/2023 | 5/2/2023 | APPROVED/APPROVED AS NOTED | Wharton-Smith |
| 01325-001 | Pre-Construction Video | FI | 4/11/2023 | 4/28/2023 | REVISE & RESUBMIT | Wharton-Smith |
| 01350-001 | SWPPP | FR | 3/31/2023 | 5/8/2023 | APPROVED/APPROVED AS NOTED | Wharton-Smith |
| 01350-001A | SWPPP | FR | 5/24/2023 | 6/23/2023 | APPROVED/APPROVED AS NOTED | Wharton-Smith |
| 01355-001 | Hurricane Preparedness Plan | FR | | | | Wharton-Smith |
| 01450-001 | Soil Tests - 4.17.23-7.7.23 | FR | 7/19/2023 | 7/21/2023 | APPROVED/APPROVED AS NOTED | Wharton-Smith |
| 01755-001 | Testing Procedures | FR | | | | Wharton-Smith |
| 01780-001 | Warranties, Bonds, and Service and Maintinence Contracts | FR | | | | Wharton-Smith |
| 01785-001 | Land Surveyor Info | FR | | | | Wharton-Smith |
| 01785-002 | Land Survey | FR | | | | Wharton-Smith |
| 01810-001 | Water Tightness Tests | FR | | | | Wharton-Smith |
| 01815-001 | Sequence of Construction Plan | FR | | | | Wharton-Smith |
| 01815-002 | Temporary Systems Plans | FR | | | | Wharton-Smith |
| 02071-001 | Geomembrane (HDPE) Product Data/ Installer Qualifications | FA | 5/4/2023 | 5/19/2023 | APPROVED/APPROVED AS NOTED | COMANCO |
| 02071-002 | Geomembrane Quality Control Certificates | FA | 6/28/2023 | 7/17/2023 | APPROVED/APPROVED AS NOTED | COMANCO |
| 02230-001 | Sitework Permits | FR | | | | Wharton-Smith |
| 02240-001 | Dewatering Plan With Application | FR | | | | Wharton-Smith |
| 02240-002 | Dewatering Record Drawings | FR | | | | Wharton-Smith |
| 02300-001 | Ground Improvements - BNR Tanks | FR | 7/27/2023 | | SUBMITTED-UNDER REVIEW | GeoTek |
| 02300-002 | Records (Existing Conditions) | FR | | | | Wharton-Smith |
| 02300-003 | Testing Agency Invoices | FR | | | | Wharton-Smith |
| 02305-001 | Material Test Reports (Soil) | FR | | | | Wharton-Smith |
| 02305-002 | Records (Existing Conditions) | FI | | | | Wharton-Smith |
| 02370-001 | Silt Fence Fabric | FA | 3/2/2023 | 3/17/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | Tim-Prep Inc. |
| 02530-001 | Gravity Sewer | FA | | | | TBD |
| 02600-001 | Filter Point Mat | FA | | | | TBD |
| 02820-001 | Chain Link Fences and Gates | FA | 4/27/2023 | 5/31/2023 | APPROVED/APPROVED AS NOTED | All-Florida Fence |
| 02920-001 | Seeding and Sodding | FA | | | | TBD |
| 03100-001 | Concrete Formwork and Accessories Product Data | FA | | | | TBD |
| 03200-001 | Concrete Reinforcement - BNR | FA | 4/11/2023 | 5/5/2023 | APPROVED/APPROVED AS NOTED | Trinity |
| 03200-002 | Concrete Reinforcement - CC Tanks | FA | 4/11/2023 | 5/18/2023 | APPROVED/APPROVED AS NOTED | Trinity |
| 03200-003 | Concrete Reinforcement - Chemical Storage | FA | 4/11/2023 | 5/11/2023 | APPROVED/APPROVED AS NOTED | Trinity |
| 03200-004 | Concrete Reinforcement - Electrical Building | FA | 4/21/2023 | 5/24/2023 | APPROVED/APPROVED AS NOTED | Trinity |
| 03200-005 | Concrete Reinforcement - Influent Pump Station | FA | 4/24/2023 | 5/25/2023 | APPROVED/APPROVED AS NOTED | Trinity |
| 03200-006 | Concrete Reinforcement - Leachate Tanks | FA | 4/24/2023 | 5/25/2023 | APPROVED/APPROVED AS NOTED | Trinity |
| 03200-007 | Concrete Reinforcement - CC Tanks Walls & Top Slab | FA | 5/11/2023 | 5/31/2023 | APPROVED/APPROVED AS NOTED | Trinity |

| | | | | | | |
|------------|---|----|-----------|-----------|---------------------------------------|--------------------------------|
| 03250-001 | Concrete Joints and Joint Accessories | FA | 4/7/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | WSI |
| 03300-001 | Curing Compound | FA | 4/7/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | WSI |
| 03300-002 | Concrete Mix Design | FA | 4/10/2023 | 5/5/2023 | REVISE & RESUBMIT | SRM |
| 03300-002A | Concrete Mix Design | FA | 5/24/2023 | 6/29/2023 | APPROVED/APPROVED AS NOTED | SRM |
| 03300-002B | Concrete Mix Design | FA | 6/30/2023 | 8/2/2023 | APPROVED/APPROVED AS NOTED | SRM |
| 03480-001 | Precast Concrete Storm Inlets | FA | 2/21/2023 | 4/7/2023 | APPROVED/APPROVED AS NOTED | Tim-Prep Inc. |
| 03480-002 | Precast Concrete Manholes | FA | 2/23/2023 | 4/4/2023 | APPROVED/APPROVED AS NOTED | OLDCASTLE INFRASTRUCTURE, Inc. |
| 03480-003 | Precast Wet Wells | FA | 2/23/2023 | 3/17/2023 | REVISE & RESUBMIT | OLDCASTLE INFRASTRUCTURE, Inc. |
| 03480-003A | Precast Wet Wells | FA | 3/31/2023 | 4/27/2023 | APPROVED/APPROVED AS NOTED | OLDCASTLE INFRASTRUCTURE, Inc. |
| 03480-004 | Precast Storm Sewer Piping | FA | 3/2/2023 | 4/4/2023 | APPROVED/APPROVED AS NOTED | Tim-Prep Inc. |
| 03480-005 | Precast Concrete MH-104 | FA | 4/17/2023 | 4/27/2023 | APPROVED/APPROVED AS NOTED | OLDCASTLE INFRASTRUCTURE, Inc. |
| 03480-006 | Fiberglass Plant Drain PS Wet Well | FA | 6/19/2023 | 7/18/2023 | REVISE & RESUBMIT | Messina & Associates |
| 03490-001 | Polymer Concrete Manholes and Pump Stations | FA | | | | TBD |
| 03600-001 | Grouting | FA | 4/7/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | WSI |
| 03610-001 | Non-Shrink Epoxy Machinery Grout: Product Data | FA | 4/7/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | WSI |
| 03930-001 | Schedule of Demolition | FA | | | | WSI |
| 03930-002 | Concrete Bonding | FA | | | | TBD |
| 05500-001 | Influent PS Access Hatches | FA | 4/27/2023 | | APPROVED/APPROVED AS NOTED | Hydra Services, Inc. |
| 05500-001A | Influent PS Access Hatches | FA | 7/19/2023 | 7/21/2023 | APPROVED/APPROVED AS NOTED | Hydra Services, Inc. |
| 05500-002 | Metal Fabrications Shop Drawings | FA | | | | TBD |
| 05520-001 | Metal Handrails and Railings | FA | | | | TBD |
| 09900-001 | Painting and Coating Product Data | FA | | | | TBD |
| 09900-002 | Painting and Coating Surface Preparation Product Data | FA | | | | TBD |
| 09900-003 | Paint Color Swatches | FA | | | | TBD |
| 11000-001 | PDPS Packaged Pump Station | FA | 7/6/2023 | 7/21/2023 | REVISE & RESUBMIT | Messina & Associates |
| 11214-001 | Vertical Turbine Pumps: Internal Recycle Pumps | FA | 6/14/2023 | 7/18/2023 | APPROVED/APPROVED AS NOTED | Trillium Flow |
| 11214-002 | Vertical Turbine Pumps Product Data | FA | | | | TBD |
| 11214-003 | Vertical Turbine Pumps Testing Procedures | FI | | | | TBD |
| 11220-001 | Submersible Mixer Shop Drawings | FA | | | | TBD |
| 11220-002 | Submersible Mixer Product Data | FA | | | | TBD |
| 11220-003 | Submersible Mixer Test Reports | FR | | | | TBD |
| 11260-001 | Chemical Metering Pumps and Skids | FA | 5/23/2023 | 6/30/2023 | REVISE & RESUBMIT | Lutz-JESCO |
| 11331-001 | Drum Screens and Conveyor Compactor | FA | 4/19/2023 | 5/17/2023 | APPROVED/APPROVED AS NOTED | SAVECO North America, Inc. |
| 11355-001 | IR End-Suction Non-Clog Centrifugal Pumps Shop Drawings | FA | 5/24/2023 | 7/13/2023 | REVISE & RESUBMIT | Trillium Flow |
| 11355-002 | EQ End-Suction Non-Clog Centrifugal Pumps Shop Drawings | FA | 5/24/2023 | 7/13/2023 | REVISE & RESUBMIT | Trillium Flow |
| 11356-001 | Progressing Cavity Pumps | FA | 5/5/2023 | 6/15/2023 | REVISE & RESUBMIT | DXP/Netsch |
| 11356-001A | Progressing Cavity Pumps | FA | 7/19723 | 8/2/2023 | APPROVED/APPROVED AS NOTED | DXP/Netsch |
| 11378-001 | Positive Displacement Blowers Shop Drawings | FA | 5/19/2023 | 6/15/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | Universal Blowers |
| 11378-001A | Positive Displacement Blowers | FA | 8/2/2023 | | SUBMITTED-UNDER REVIEW | Universal Blowers |
| 11390-001 | BNR Package Plant | FA | 6/8/2023 | 7/6/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | Evoqua |
| 11390-001A | BNR Package Plant | FA | 7/27/2023 | | SUBMITTED-UNDER REVIEW | Evoqua |
| 11390-002 | BNR Package Plant Final Coatings | FA | 6/23/2023 | 7/24/2023 | APPROVED/APPROVED AS NOTED | Evoqua |
| 11535-001 | Submersible Pumps/Mixer - Influent PS | FA | 6/2/2023 | 8/3/2023 | REVISE & RESUBMIT | Hydra Services, Inc. |
| 11535-002 | Submersible Pumps - Reject PS | FA | 6/9/2023 | 7/21/2023 | REVISE & RESUBMIT | Hydra Services, Inc. |
| 11550-001 | Coarse-Bubble Diffusers - Leachate Tanks | FA | 5/26/2023 | 6/16/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | SSI Aeration, Inc. |
| 11550-001A | Coarse-Bubble Diffusers - Leachate Tanks | FA | 7/27/2023 | 8/2/2023 | APPROVED/APPROVED AS NOTED | SSI Aeration, Inc. |
| 11551-001 | Fine-Bubble Diffusers - Aeration Basin & Aerobic Digester | FA | 6/12/2023 | 7/21/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | SSI Aeration, Inc. |
| 11600-001 | Laboratory Equipment Shop Drawings and instructions | FA | | | | TBD |
| 11605-001 | Composite Sampling Equipment | FA | | | | TBD |
| 13060-001 | Fiber Optic Cabling | FA | | | | TBD |

| | | | | | | |
|------------|--|----|-----------|-----------|---------------------------------------|---------------------------|
| 13100-001 | Large Modular Pre-Cast Concrete Building Plans/Specs | FA | 5/23/2023 | 6/16/2023 | REVISE & RESUBMIT | Concrete Modular |
| 13120-001 | Pre-Engineered Metal Building - Chemical Storage | FA | 6/1/2023 | 7/28/2023 | APPROVED/APPROVED AS NOTED | Brevard Constructors |
| 13127-001 | Mobile Office/Lab Trailer - Plans/Specs | FA | | | | TBD |
| 13150-001 | Programmable Logic Controller Panels | FA | 7/27/2023 | | SUBMITTED-UNDER REVIEW | Rocha |
| 13201-001 | Glass-Fused-To-Steel Liquid Storage Tanks | FA | 4/19/2023 | 5/17/2023 | APPROVED/APPROVED AS NOTED | Florida Aquastore |
| 13206-001 | Sodium Hypo Tanks | FA | | | | TBD |
| 13300-001 | Plant Monitoring and Control System Training Plan | FI | | | | Rocha |
| 13420-001 | Fiber Optic Communication Subsystem (FOCS) Cable Schedule | FI | | | | Rocha |
| 13420--002 | FOCS Component Product Data | FA | | | | Rocha |
| 13500-001 | Process Control System (PCS) Testing Plans | FI | | | | Rocha |
| 13600-001 | Process Control System Instrumentation | FA | | | | TBD |
| 13600-002 | PCS Field Instruments | FA | | | | Rocha |
| 13600-003 | PCS Control Panels, Consoles, and Cabinets | FA | | | | Rocha |
| 13600-004 | PCS Field Wiring and Piping Diagrams | FA | | | | Rocha |
| 13600-005 | PCS Operator Interface Graphics Layout | FA | | | | Rocha |
| 13600-006 | Plant Monitoring and Control System | FA | | | | Rocha |
| 13600-007 | PCS I/O Identification and Data | FA | | | | Rocha |
| 13600-008 | Preliminary Software Documentation | FA | | | | Rocha |
| 13600-009 | System Software Documentation | FA | | | | Rocha |
| 13600-010 | HMI Screens | FA | | | | Rocha |
| 13600-011 | PCS Shipping, Handling, Storage, Installation, and Start-up Instructions | FI | | | | Rocha |
| 13615-001 | Parshall Flume | FA | 6/19/2023 | 7/18/2023 | REVISE & RESUBMIT | MFG Construction Products |
| 13615-001A | Parshall Flume | FA | 7/27/2023 | | SUBMITTED-UNDER REVIEW | MFG Construction Products |
| 15000-001 | Blow-Off Hydrant | FA | 4/4/2023 | 5/31/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15000-002 | Static Mixer | FA | 5/5/2023 | 5/26/2023 | APPROVED/APPROVED AS NOTED | Statiflo |
| 15000-003 | Trench Drain | FA | 6/28/2023 | 7/21/2023 | APPROVED/APPROVED AS NOTED | Ferguson Waterworks |
| 15050-001 | Misc. Mechanical | FA | | | | TBD |
| 15053-001 | HVAC | FA | | | | TBD |
| 15055-001 | Tracer Wire | FA | 3/30/2023 | 5/2/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15060-001 | Pipe Hangers and Supports | FA | | | | TBD |
| 15062-001 | Hangers and Supports for HVAC Piping and Equipment | FA | | | | TBD |
| 15065-001 | Fabricated Gates | FA | 5/30/2023 | 6/16/2023 | APPROVED/APPROVED AS NOTED | RW Gate |
| 15075-001 | Process Equipment, Piping, and Valve Identification | FA | | | | TBD |
| 15080-001 | Outside Pipe Insulation | FA | | | | TBD |
| 15105-001 | Wall Pipes, Seep Rings, and Penetrations | FA | | | | TBD |
| 15110-001 | Manual, Check, and Process Valves | FA | 3/28/2023 | 4/25/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | Core & Main |
| 15110-002 | Process Valve Actuators | FA | | | | TBD |
| 15119-001 | Electric Motor Actuators for Gates | FA | | | | TBD |
| 15121-001 | Misc. Pipe Fittings and Accessories | FA | | | | Core & Main |
| 15121-001 | Flexible Pipe Couplings and Expansion Materials | FA | | | | Core & Main |
| 15125-001 | Tapping Sleeves | FA | 2/2/2023 | 2/16/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15125-001 | Gate Valves, Tapping Valves, and Fire Hydrants | FA | 2/2/2023 | 2/16/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15125-001A | Gate Valves, Tapping Valves, and Fire Hydrants | FA | 3/30/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15125-003 | Eyewash Stations | FA | 7/19/2023 | 8/3/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15140-001 | Domestic Water Piping | FA | | | | Core & Main |
| 15144-001 | Pressure Testing of Piping | FA | | | | Core & Main |
| 15145-001 | Domestic Water Piping Specialties | FA | | | | Core & Main |
| 15146-001 | HDPE Pipe | FA | 3/28/2023 | 4/27/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | Core & Main |
| 15146-002 | HDPE Pipe Fittings and Adapters | FA | 3/30/2023 | 5/2/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15146-003 | HDPE Flange Adapters | FA | 7/19/2023 | 8/3/2023 | APPROVED/APPROVED AS NOTED | Core & Main |

| | | | | | | |
|------------|--|----|-----------|-----------|---------------------------------------|-------------|
| 15150-001 | Sanitary Waste and Vent Piping | FA | | | | Core & Main |
| 15155-001 | Ductile Iron Pipe and Fittings | FA | 2/2/2023 | 2/16/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15155-001A | Ductile Iron Pipe and Fittings | FA | 3/30/2023 | 4/28/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15155-002 | Mechanical Restraints | FA | 3/28/2023 | 4/27/2023 | APPROVED AS NOTED/RESUBMIT OR CONFIRM | Core & Main |
| 15155-003 | Nuts and Bolts for DI Pipe and Fittings | FA | 3/30/2023 | 5/2/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15155-004 | Flanged Fittings and Adapters | FA | 7/19/2023 | 8/2/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15250-001 | Small-Diameter Piping | FA | | | | Core & Main |
| 15276-001 | Stainless Steel Pipe Materials List | FI | | | | TBD |
| 15276-002 | Stainless Steel Pipe | FA | | | | Core & Main |
| 15285-001 | PVC Drainage Piping and Fittings | FA | 2/2/2023 | 2/16/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15285-001A | PVC Drainage Piping and Fittings | FA | 3/30/2023 | 4/28/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15290-001 | PVC Pipe, 3 Inches and Smaller | FA | | | | Core & Main |
| 15291-001 | PVC Pressure Pipe and Fittings | FA | 2/2/2023 | 2/16/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15291-001A | PVC Pressure Pipe and Fittings | FA | 3/30/2023 | 5/2/2023 | APPROVED/APPROVED AS NOTED | Core & Main |
| 15294-001 | CPVC Waste Drainpipe, 4 Inches and Smaller | FA | | | | Core & Main |
| 16000-001 | General Electrical | FA | 3/23/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16000-002 | Dry Type Transformers | FA | 3/28/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16000-003 | Low-Voltage Switchboards | FA | 3/28/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16060-001 | Power Distribution System Coordination Study | FR | | | | Cogburn |
| 16110-001 | Raceways and Fittings | FA | | | | Cogburn |
| 16130-001 | Junction, Pull, and Service Boxes | FA | | | | Cogburn |
| 16140-001 | Push Button Devices | FA | 4/11/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16150-001 | Electric Motors | FA | | | | Cogburn |
| 16160-001 | Panelboards | FA | 3/28/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16170-001 | Safety Switches | FA | 3/28/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16216-001 | Diesel Engine Driven Generator | FA | 1/20/2023 | 1/26/2023 | APPROVED/APPROVED AS NOTED | RING POWER |
| 16250-001 | Automatic Transfer Switch | FA | 3/28/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16402-001 | Electrical Pull Boxes | FA | 3/24/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16450-001 | Grounding System | FA | | | | Cogburn |
| 16500-001 | Lighting System | FA | 3/23/2023 | 4/19/2023 | REVISE & RESUBMIT | Cogburn |
| 16500-001A | Lighting System | FA | 6/20/2023 | 7/24/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16601-001 | Lightning Protection System | FA | 4/18/2023 | 5/4/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16921-001 | Surge Protective Devices | FA | 3/28/2023 | 4/19/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16921-002 | 480-Volt Motor Control Centers | FA | 5/22/2023 | 6/24/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| 16921-003 | Combo FVNR Starters | FA | 5/22/2023 | 6/6/2023 | APPROVED/APPROVED AS NOTED | Cogburn |
| | | | | | | |

Columbia County NFMIP WWTP
RFI LOG

| RFI # | INITIATED BY | DESCRIPTION | DATE RECEIVED | DATE SUBMITTED | DATE RETURNED | CURRENT STATUS | Notes | RFI Subject |
|-------|--------------|----------------------------------|---------------|----------------|---------------|----------------|---|--|
| 001 | Jose Romero | Evoqua Performance Testing | 3/9/2023 | 3/9/2023 | 3/24/2023 | Answered | Submitted performance testing document is insufficient and will require additional correspondance | "Attached is the proposed Process Performance Warranty from Evoqua and is intended to clarify the test protocol and dispute resolution associated with the performance of the Package Plants within Specification Section 11390. Please confirm this is acceptable." |
| 002 | Jose Romero | Potable Water piping Elimination | 3/14/2023 | 3/14/2023 | 4/3/2023 | Answered | Accepted. Clarify with EOR on direction of water service and backflow shift. The dead end still requires a fire hydrant oe blow-off for flushing purposes. | To reflect comments thus far: 500-LF of the potable water line as detailed on drawings C17 and M1 has been eliminated South of the second hydrant assembly. The water service with back flow assembly and flushing connection will shift North accordingly. |
| 003 | Jose Romero | VTP Witnessed Testing | 3/14/2023 | 3/14/2023 | 3/24/2023 | Answered | Factory witnessed testing requirements for VTP's has been removed | The requirement for factory witnessed testing for the vertical turbine pumps as detailed in specification section 11214, 2.05-C was removed as a way to reduce costs during GMP-1. Please confirm removal of factory witnessed testing for vertical turbine pumps. |
| 004 | Jose Romero | CCC Drain Elimination | 3/14/2023 | 3/14/2023 | 4/3/2023 | Answered | (4/3/23) - 4 sumps will be necessary. 2 at influent, 2 at effluent. Pumps to be provided by contractor. Pump-out connection recommended. Requires additional correspondance. (4/13/23) - 1. An alternative proposal for Chlorine Contact Tank (CCT) drains is provided herein that allows the use of the package plant drain pump station installed at the shallower depth. The CCT will be used for the current 0.5 MGD WWTF and the future 1.5 MGD WWTF expansion and for both facilities, it is a critical unit treatment process that needs to meet Class I reliability requirements in accordance with best management practices and FDEP guidelines. The suggested revisions will allow plant operations to easily, and completely drain CCT structure for routine cleaning and maintenance or following a plant upset event and put it back into operation within a reasonable timeframe per rule to meet discharge permit requirements. See attached drawing markups. 2. Drains are not required for both flow meters near the CCT. The piping layout allows flow to bypass meter if it requires removal for repair and/or replacement and temporary final effluent containment vessels can be used by Owner when performing maintenance on the flow meters. | Drains associated with the chlorine contact tank were eliminated during the value engineering efforts. In lieu of the drains, two (2) - 2'x'2'x2' sumps will be cast into the base of the tank for pump out means. |
| 005 | Jose Romero | Coating Modifications | 3/14/2023 | 3/14/2023 | 3/24/2023 | Answered | Acknowledged, provide submittals | A deduct has been accepted by Columbia County to reduce the concrete structures that are coated and to allow for a Sherwin-Williams alternate coating to be provided in lieu of Tnemec. Below is a summarization of the changes: 1. Concrete coatings have been eliminated from the chlorine contact tank and the chemical storage and feed system structure. 2.The sump in the chemical storage and feed systems structure, detailed on drawing S11, will be coated and funded from project contingency allowance. |
| 006 | Jose Romero | Hot Dip Galvanized Supports | 3/14/2023 | 3/14/2023 | 3/24/2023 | Answered | HDG Supports are acceptable | During the value engineering process Columbia County agreed to utilize hot dip galvanized steel in lieu of 316 stainless steel for all of the pipe supports on the project. Please confirm. |
| 007 | Jose Romero | Plant Drain and PS Modifications | 3/14/2023 | 3/14/2023 | 4/19/2023 | Answered | 1. Alternative proposal for gravity drains system to package lift station in accordance with best management practices and FDEP guidelines. See attached drawings. 2. Contractor shall have valves above grade and 6" discharge piping for the PDPS as shown on sheet M15 of the Contract Drawings. 3. Contractor shall submit a new pump design with a maximum total head at primary design condition of 40 feet at 400 GPM due to new invert of the PDPS. 4. MH-103 remains unchanged with regards to depth, diameter, and inverts. 5. MH-104 diameter remains unchanged. East IE is 174.2 with MH-106 removed, North IE is 174.10, and South IE is 175.1 with the alternative proposal. The lowest invert of the manhole is 174.10. 6. Fiberglass PDPS pipe invert elevations for the North and East remained unchanged from the original precast manhole. The South pipe IE is now 173.81 and the PDPS IE is now 166.35. 7. Contractor shall verify the following with the manufacturer for the package pump station: • a wetwell diameter of 8' as shown in M15 of the Contract Drawings; • a package triplex capable of adding a third future pump as shown in M15 of the Contract Drawings; • show on the proposed package station drawings a wetwell vent, pipe supports, alarm elevations, link seals, top and bottom concrete slabs, location of aluminum access cover, pipe penetrations with invert elevations, drainage for valve vault, fillet; and • buoyancy calculations. 8. Contractor shall verify with manufacturer that aluminum hatch will have a maximum deflection of L/240, have a ¼" aluminum channel frame, have a removable lock handle, and that the hatch shall be watertight with a drainage coupling to the channel frame in accordance with Specification 5500 Section 2.14.A of the Contract Documents. 9. Contractor shall use float switches that use two #19 AWG stranded conductors in accordance with Specification 11535 Section 2.04.A of the Contract Documents. 10. Contractor shall use 120-volt control panel circuitry in accordance with Specification 11535 Section 2.05.C.1 of the Contract Documents. 11. The Contractor shall show that motor control will have redundant high- and low-level alarms to provide backup to switches in accordance with Specification 11535 Section 2.05.C.3 paragraph a and b of the Contract Documents. 12. Contractor shall provide a list of proposed deviations to current specifications (if any) for proposed pump station controls and instrumentation. | During the value engineering process the following cost saving modifications and alternatives were identified: 1. Manholes MH-105 and MH-106 can be eliminated to reduce cost. 2. The total depth of the remaining manholes and lift station can be greatly reduced. 3. Due to the total reduction in system depth, a packaged lift station can be utilized. 4. Lift station discharge can be run above grade and pad mounted. Attached is an example of the proposed packaged lift station and a redlined site drawing showing modifications. Please provide the following information and applicable updated drawings: Packaged lift station: 1. Please provide size of fiberglass manhole and required invert elevations. 2.Please provide required pump sizing and horsepower. Manholes MH-103 and MH-104: 1. Please provide required diameter, depths, and inverts of manholes. |
| 008 | Jose Romero | Site Light Fixture Changes | 3/14/2023 | 3/14/2023 | 3/24/2023 | Answered | Confirmed that alternate lighting can be submitted for review | During the value-engineering process, it was proposed that light fixtures could be modified to save cost. Below are the proposed modifications. Please note that sufficient information will be provided during the submittal process for these suggested alternates. 1. Lithonia RSX series fixtures are proposed for Fixtures C as detailed on drawing E22. See attached cutsheet for reference. 2. Round tapered aluminum direct burial poles are proposed for Fixture C and D. |

Columbia County NFMIP WWTP
RFI LOG

| | | | | | | | | |
|-----|-------------|--|-----------|-----------|-----------|----------|--|---|
| 009 | Jose Romero | Pre-Engineered Fiberglass Building Removal | 3/14/2023 | 3/14/2023 | 4/3/2023 | Answered | <p>1. Contractor shall build a high enough wall with deep enough wing-walls on the North side of the bulk storage canopy to protect analyzer equipment from rain and sun exposure from the North, West, and East.</p> <p>2. Contractor shall use north wall for support and mounting. The analyzer shall face the south side.</p> <p>3. Contractor shall include a floor drain near the analyzer and provide drainage piping to both samplers and analyzer that does not share the same pipe from the hypochlorite emergency spill drain line as shown on sheet M16 of the contract drawings.</p> <p>4. Contractor shall provide a details sheet with section view that shows mounting and layout of the new analyzer location and supporting equipment</p> | <p>During the value engineering efforts for GMP-1 it was identified that the pre-engineered fiberglass chemical building could be eliminated, and the equipment could be placed under the bulk storage canopy.</p> <p>See the attached drawing and advise if the proposed bulk storage canopy layout is acceptable. Below are a list of the items moved and modified.</p> <p>-The influent sampler, effluent sampler, analyzer board, and commercial sink have been placed on the west wall of the canopy building.</p> <p>-The 6" drain has been extended to the Northeast to collect drainage from the commercial sink and effluent sampler.</p> <p>-The potable water line tees before it enters the south side of the canopy building and runs to the North to feed the commercial sink.</p> <p>Lines SA-1 and SA-2 have been re-routed to enter the West side of the canopy building.</p> |
| 010 | Jose Romero | Sitework Changes - Import Fill | 3/14/2023 | 3/14/2023 | 4/18/2023 | Answered | <p>1. Any excess topsoil will be stockpiled in designated area onsite.</p> <p>2. The ability to use insitu soils in borrow areas will be dependent on requirements of approved sieveanalysis from soil proctors.</p> <p>3. The grades in the southeast prtion of the plant were modified to form a sheet flow from the edge of the proposed interior plant roadway to the center of the proposed swale that runs along the property line from the east to the west towards the effluent storage pond.</p> <p>4. We will expand the current pond per the drawing to the extent that the borrow fill is required.</p> <p>5. The asphalt surface has been deleted in its entirety.</p> <p>6. Base limerock thickness has been reduced to 6" from 8" where asphalt paving was to take place.</p> <p>7. We will use strippings for fill in the proposed stormwater pond berms/slopes and other areas that are deemed to be a viable place to disgard it.</p> <p>8. All fill for the structures/effluent pond/roadways will be structural fill borrowed from onsite as approved.</p> <p>9. The grades in the middle of the site to the east of the interior plant roadway were modified to form a sheet flow from the edge of the roadway to the centerline of the proposed swale to the east.</p> | <p>During the value engineering efforts for GMP-1 it was proposed that the SWMF pond could be shifted to significantly reduce the amount of imported fill dirt required. The proposed change shifts the pond Northeast towards the Effluent Storage Pond. See the attached drawing from our site subcontractor for reference of the proposed change.</p> <p>This drawing was evaluated by Moore Bass Consulting, they provided the below comments and concerns. Please provide direction and revised drawings for this change:</p> <p>1.)</p> <p>-If the pond is regraded as shown in the PDF (1st page),the plan will need to be revised to accommodate an access berm around the backside (West side) for maintenance vehicles.</p> <p>-On the second attached drawing, circled in green and with green arrows indicates where the 20' maintenance access could be graded to cross the swale and run adjacent to the effluent pond. The grading would need to remain at the elevation noted for other portions of the maintenance access area around the pond.</p> <p>-On the third attached drawing, circled in red with red arrows indicates how the access berm was accommodated on the original design. Vehicles would have driven down and back up the slope to exit. If there is room to make this slope 10:1 and add a geoweb underlay for the sloped portion, that would be ideal.</p> <p>2.)</p> <p>Our site subcontractor provided a list of clarifications for items they propose to modify, this can be found on the 4th page of the attached document.</p> <p>-Item #3: Moore Bass evaluated this proposed change and confirmed that this was acceptable.</p> <p>-Item #9: Impervious areas should not be sent to the East because the swale treatment calculations would not hold up to the additional volume that would be added</p> <p>-Please evaluate item #3 and #9 to ensure that the revised grading doesn't create low areas or extensions of the swale that may get soggy or lack positive outfall to drain or remain dry.</p> |
| 011 | Jose Romero | ABB Gear | 3/14/2023 | 3/14/2023 | 3/24/2023 | Answered | <p>Additional correspondence will be required after short circuit study is completed.</p> | <p>During GMP-1 ABB provided value engineering services to reduce cost on the specified electrical gear for the project by proposing modifications to the gear. Please see the attached document with mark-ups documenting their proposed changes. Any necessary changes that are identified after the short circuit study will be made and funded via a contingency draw.</p> |
| 012 | Jose Romero | Spray Field and Pipe Corridor Easement Documents | 3/16/2023 | 3/16/2023 | 7/28/2023 | Answered | <p>It has come to Jones Edmunds attention that the concerns and requested documentation in "RFI 012 – Spay Field and Pipe Corridor Easement Documents" have been resolved between the Owner, Weyehaeuser and Wharton-Smith. No technical feedback is required from Jones Edmunds at this time.</p> | <p>In accordance with note 3 on drawing M19, please provide easement(s) documents between Columbia County and Weyerhauser with legal description of the easement(s) for us to provide to the surveyor for staking of the pipe corridor and sprayfields.</p> |
| 013 | Jose Romero | GMP-1 Value Engineering Summary | 3/16/2023 | 3/16/2023 | 4/3/2023 | Answered | <p>Acknowledged. No exceptions noted.</p> | <p>The intent of this RFI is to summarize the changes made during the GMP-1's value-engineering efforts:</p> <p>1. Standard concrete precast with Agru liner is being provided in lieu of polymer precast for the following sewage drainage structures: MH-101, 102, 103, 104, influent pump station, and the master sanitary manhole.</p> <p>2. Ribbon curbing has been removed, instead, sod will be utilized to stabilize edge of roadways. See attached drawing C12.</p> <p>3. A concrete cap will be provided over all electrical ductbanks in lieu of fully encased ductbanks. The cap will be 4" non-reinforced concrete, red powder will be placed on the concrete caps during the curing process to allow for safe identification in the future. See attached document for clarity.</p> <p>4. Valve position indicators have been removed from valves. In lieu of valve indicators, valve boxes will be installed as detailed in the attached document on drawing M35, detail 4.</p> <p>5. The reclaimed water piping diameter has been reduced from 12" to 8" from the effluent of the chlorine contact tanks to the spray fields as indicated on drawing M18.</p> <p>6. The potable water main from Highway 90 into the plant has been reduced from 8" to 6" diameter.</p> |

**Columbia County NFMIP WWTP
RFI LOG**

| | | | | | | | | |
|-----|-----------------|-------------------------------------|-----------|-----------|-----------|-------------|---|---|
| 014 | Jose Romero | Spray Field Clarifications | 4/11/2023 | 4/11/2023 | 5/18/2023 | Answered | <p>1. Contractor will not damage, remove, or trim trees on any adjacent lands without prior consent. The spray field are not to be clear cut, and piping is to be laid in between tree rows. It is understood that some trees may need to be removed for equipment installation, but Contractor shall coordinate with Weyerhaeuser to potentially harvest/salvage these trees in lieu of removal by Contractor.</p> <p>2. The proposed zones B, E, and D have less combined acreage than the original Zones A, C, and E. Additionally, the current monitoring well layout would not capture flow from Zone D and B and the intermediate well MWI-2S is in a future zone and would be better constructed at the zone being constructed in this phase. Jones Edmunds will coordinate a revised map with FDEP explaining the proposed adjustments to design. If they agree, coordinates will be provided to Wharton Smith. This item will need to be addressed in a future RFI.</p> <p>3. Installing RCW-3 on grade between the plant and spray fields may be coordinated, if approved by Weyerhaeuser and the Correctional Facility Staff and piping is not obstructing roadway or access to the roadway. Weyerhaeuser requires that their vehicles have unrestricted access to manage and patrol the property. Additionally, the correctional facilities patrol vehicles will also require to have access to any land adjacent to the road, especially in case of emergency pursuit. As discussed in construction progress meetings, Wharton Smith will bury the 8-inch pipe east of the correctional facility to prevent obstruction on anything that would be in Weyerhaeuser's travel area.</p> | <p>During the Value Engineering process, the sprayfield scope was reduced to only include Zones A, C and E with the rest being designated as future. The installation of the spray fields themselves, as detailed, are to be installed on grade between rows of trees based on our understanding (awaiting RFI#012 response) that the complete clearing of the sprayfield areas is not intended nor permitted by the land owner. Upon further site investigation with this understanding in mind, Zones A and C are both heavily overgrown and would require a significant amount of clearing that was not captured as part of the GMP provided. To minimize the additional clearing work needed, we propose installing Zone B and Zone D in lieu of Zone A and Zone C.</p> <p>In addition, due to the unidentified site conditions within the RCW-3 right of way, we are proposing to install the 8" RCW-3 between the plant and spray field areas on grade for ease of access and maintenance as well as eliminate additional work that would need to be added to GMP-3.</p> <p>Attached are drawings detailing the items captures in this RFI.</p> <p>To summarize, please confirm the following:</p> <p>1. The spray fields are not to be clear cut and the spray field headers are to be intalled between rows of planted trees is acceptable.</p> <p>2. Installing spray field zones B (in lieu of A), E, and D (in lieu of C) in as close to conforming with sprayfied detail for Zone E on Drawing M19 as possible is acceptable.</p> <p>3. Installing RCW-3 between the plant and spray field area on grade is acceptable. Air/Vacuum relief valve would be installed at the high points, at least every 1,500LF, and precast concrete saddles would be installed, at a given spacing, to secure the pipe.</p> <p>Please advise if a coordination meeting would be beneficial for all stakeholders to discuss.</p> |
| 015 | Jose Romero | Spray Field Monitoring Wells | 4/11/2023 | 4/11/2023 | | In-Progress | <p>Note 1 on Drawing M18 indicates there are four (4) new monitoring wells to be installed (MWB-1AS, MWI-2S, MWC-3S, and MWC-4S). Please provide northings and eastings for these proposed monitoring wells.</p> <p>Note 7 indicates two (2) existing piezometer are to be grout filled. Please confirm these are B-2 Piezometer and B-4 Piezometer. Please provide northings and eastings for these piezometers. Please confirm if there are any schedule constraints for when these can be grout filled.</p> <p>Please confirm no action is needed for B-1, B-3, and B-5.</p> <p>Attached is a markup of the drawings to clarify our understanding.</p> | |
| 016 | Travis Cassella | BNR Tank Outer Wall Inside Diameter | 4/14/2023 | 4/14/2023 | 4/21/2023 | Answered | <p>81' diameter is correct.</p> <p>Please confirm that the 81'0" inside diameter dimension is correct.</p> | |
| 017 | Travis Cassella | 8in EQ-1 Routing | 4/17/2023 | 4/17/2023 | 4/21/2023 | Answered | <p>Installing the 8" EQ-1 line closer to the CCC as proposed in red by the Contractor on drawing M11 has been noted and is approved. The 8" EQ-1 flow meter station is intended to be directly adjacent to the 12" RCW-1 flow meter station. Access to either flow meter is maintained with the bypass piping installed below grade. The 8" EQ-1 flow meter station can be offset to the East as necessary to provide space between flow meter and the corner of the CCC. See drawings in RFI folder.</p> <p>Drawing M3 and M11 have different routings shown for the 8in EQ-1 line. Please confirm the intent for this line is the routing shown on drawing M3, and note the 8-in EQ-1 line will be installed inside (closer to the CCC as shown on M11) of the 8" RCW-1 line and that this is different than what is shown on M3. Please also identify where the 8" EQ-1 flow meter station is intended with the routing on M3.</p> | |
| 018 | Travis Cassella | 20in RCW-1 Routing | 4/17/2023 | 4/17/2023 | 4/21/2023 | Answered | <p>Re-route accepted. See drawings in RFI folder.</p> <p>The invert elevation of the 20" RCW-1 is at EL. 177.0 per Drawings M12 and CD07. The routing of this line on Drawing M3 has this line being ran where the finish grade elevation is falling from EL. 180 to EL. 179 and as low as EL. 177 in the berm. With 20" DIPS HDPE DR-17 pipe having an OD of 21.6 inches, this line will only have +/- 14.5 inches of cover in the EL. 180 areas and would be less or exposed in some areas of the berm as currently drawn. To maximize cover, please see the attached proposed re-route. Please advise if there are any other protection means needed for this shallow bury pipe (i.e. encasement, concrete cap, etc.).</p> | |
| 019 | Travis Cassella | BNR Centerline Dimension | 4/21/2023 | 4/21/2023 | 5/8/2023 | Answered | <p>NORTHERN BNR TANK TO BE SHIFTED HORIZONTALLY NORTH BY 4'2" TO CREATE 105' 0" OF CENTERLINE SEPARATION BETWEEN BNR TANKS. PADS, PUMPS, BLOWERS, PIPES AND OTHER SUPPORTING EQUIPMENT IN CLOSE PROXIMITY SHALL BE SHIFTED WITH NORTHERN BNR PLANT. PIPES IN AND OUT OF NORTHERN BNR AND FOR SUPPORTING EQUIPOMENT SHALL BE EXTENDED ONLY IN THEIR STRAIGHT HORIZONTAL RUNS WHEN POSSIBLE TO MINIMIZE CHANGES TO ANGLED FITTINGS. 2" PW-1 ROUTING TO REMAIN UNCHANGED.</p> <p>Please confirm centerline dimension between the two BNR tanks.</p> | |
| 020 | Travis Cassella | FPL Electrical Easement | 4/21/2023 | 4/21/2023 | 5/8/2023 | Answered | <p>The future force main can be shifted East to satisfy FPL's requests. FPL must stay within the 30-foot utility easement, or additional landowner coordination will be necessary.</p> <p>FPL has provided preliminary comments regarding their needs for the electrical easement.</p> <p>1. FPL requires the electrical easement to be shifted from the East side of the utility easement to the West side. This will eliminate the need to modify pull boxes in the future once the new roadway swale is constructed.</p> <p>2. FPL requires a 10' wide electrical easement.</p> <p>3. Conduits shall be direct buried from Highway 90 to FPL supplied transformer.</p> <p>4. Pull boxes shall be installed every 700 LF along the conduit run.</p> <p>Please provide confirmation that the future force main can be shifted East to satisfy FPL's requests</p> | |
| 021 | Travis Cassella | Fine Bubble Diffuser SCFM | 4/24/2023 | 4/24/2023 | 5/8/2023 | Answered | <p>Addendum 1 section 2.01.B.1.c and 2.01.B.4.b are correct. Each Aerobic Digester Basin within a Package Plant requires 217 fine-bubble diffusers, each capable of 1.50 SCFM, totaling 325 SCFM.</p> <p>Please confirm the intended SCFM per digester basin.</p> | |
| 022 | Travis Cassella | CAD Files Discrepancy | 4/25/2023 | 4/25/2023 | 5/8/2023 | Answered | <p>CAD files XR001-C-BLDG-SITE and XR001-C-YP-VE are correct. CAD file T3134.0001is a Moore Bass file that needs to be aligned to the correct CAD files previously provided. 2. See attached CAD files for northings and eastings.</p> <p>Discrepancies have been found between the "YP" and "Base" CAD files. While preparing to layout the influent box structure coordinates in the field, our surveyor found that the "XR001-C-YP-VE" drawing lays out the yard piping approximately 5.3 LF west of where the base file lays these structures and pipelines out.</p> <p>Please verify which files are correct and provide updated CAD files to correct this issue.</p> | |
| 023 | Jose Romero | Safety Interlocks | 5/2/2023 | 5/2/2023 | 5/11/2023 | Answered | <p>Safety Interlocks are not required.</p> <p>1.) There are currently no mechanical safety interlocks (Kirk Locks) called for the switchboard breakers feeding MCC-1 and MCC-and the tie breaker between MCC-1 and MCC-2. Please advise if safety interlocks are to be added for operator safety.</p> <p>2.) There are currently no mechanical safety interlocks (Kirk Locks) called out for the MCC-3 and MCC-4 main and tie breakers. Please advise if safety interlocks are to be added for operator safety.</p> | |

**Columbia County NFMIP WWTP
RFI LOG**

| | | | | | | | | |
|-----|-----------------|-----------------------------------|-----------|-----------|-----------|----------|---|---|
| 024 | Jose Romero | BNR Slab Anchor Embedment | 5/12/2023 | 5/12/2023 | 5/26/2023 | Answered | The proposed anchoring embedment's are not acceptable. Please find attached a recommended detail that can be used at anchor locations. Should other alternatives need to be discussed, we can meet with team to discuss. See RFI Drawings. M:\01Jobs2022\22-114 Columbia County NFMIP WWTP\C-22 RFIs\RFI#024 - BNR Slab Embedment | Evoqua has provided preliminary anchor bolt locations and sizing for the BNR Foundation. See below for summary: 1.) Submersible mixers: Evoqua proposes to use 5/8"x5" wedge anchors. The anchors will have a 3-1/2" embedment. 2.) Aeration Pipe Supports (Method 1 – Preferred): Evoqua proposes to drill and epoxy 3/8" all thread rods. The rods will have a 2-3/8" embedment. 3.) Aeration Pipe Supports (Method 2 – Alternate): Evoqua proposes to use 3/8" drop-in anchors. The anchors will have a 1-9/16" embedment. Please review the attached and advise if the proposed embedments and methods are acceptable for the 5-1/2" base slab as shown on sheet S5. |
| 025 | Travis Cassella | Telecommunication Conduits | 5/22/2023 | 5/22/2023 | 5/31/2023 | Answered | The Contractor shall follow the telecommunication conduits as indicated on the attached drawing, C16, provided as part of this RFI. The reason is to avoid potential conflict with the proposed installation of the FPL electrical line and telecommunication pull-boxes and due to the proposed future fill materials needed to create berm for roadway swale as indicated on drawing C12. Contractor responsible for following minimum vertical and horizontal separation requirements as defined in details 1 and 2 of drawing CD4. | The site telecommunication conduits are shown on the West side of the plant entrance road on drawing C16 but are shown on the East side of the road on drawing E03: 1. Please confirm the conduits are to be routed on the West side of the road per drawing C16. 2. Please confirm it is acceptable to install the conduits between the 10' FPL easement and the 6" force main as shown in the attached drawing. |
| 026 | Travis Cassella | Plant Drain Pump Station | 5/24/2023 | 5/24/2023 | 6/6/2023 | Answered | The Contractor shall provide Florida-Engineer Signed and Sealed buoyancy calculations with the proposed fiberglass duplex package plant for review and approval. | Please advise if the following modifications to the plant drain pump station are acceptable. The intent of these modifications are to provide cost saving for Columbia County. They have been previously reviewed and accepted by Columbia County. 1. Provide a duplex packaged station in lieu of a triplex as noted in RFI#007 response. 2. Utilize a fiberglass basin with a fiberglass bottom, additional 57 stone (2' total), and a concrete ballast around the base of the well in lieu of the required concrete bottom slab. 3. Provide an aluminum lid on the pump station, install concrete slab around aluminum lid, and protective bollards along the perimeter of the concrete slab to protect from vehicular traffic. |
| 027 | Jose Romero | Type B Light Fixtures | 5/24/2023 | 5/24/2023 | 6/8/2023 | Answered | Lithonia #ARC2LEDP140KMVOLTDBXD | Response to Submittal 16500-001 – Lighting System states "Type B wall mounted fixtures to be full cutoff." Fixture B (Hologhane W4GLED) shown on sheet E22 lighting fixture schedule is not full cutoff – it has a BUG rating of 0-3-3. Please specify what style wallpack is needed for this fixture. |
| 028 | Travis Cassella | Leachate Tank Elevations | 6/1/2023 | 6/1/2023 | 6/7/2023 | Answered | The "Float Level Control Table" on drawing M6 calls out a finish floor elevation for the leachate tanks at elevation 180.75. The response provided to the "Drawing Discrepancy Coordination Document" stated that the slab between the tanks should have a minimum elevation of 181.25. Please confirm it is acceptable to make the finish floor for the Leachate Tanks 181.25 to match the slab between the tanks. | Provide confirmation on Leachate Tank finish floor elevation. |
| 029 | Travis Cassella | Grating Span | 6/7/2023 | 6/7/2023 | | Answered | | Please advise if the attached grating detail is acceptable to use for sizing aluminum grating depth. |
| 030 | Travis Cassella | Parshall Flume | 6/7/2023 | 6/7/2023 | 6/30/2023 | Answered | The block out on the Parshall flume effluent is meant to show the wall beyond the section cut. In order for the Parshall flume to work accurately, there is meant to be no obstruction on its effluent side. The opening downstream of the effluent of the Parshall flume should be the full 5.00'x2.83' opening, similar to what the channel will have for the grout and flume. The flume elevation has flexibility so long as there is a rise from the influent box and a free fall without obstruction from the effluent box. The grout may be lessened underneath the flume to allow room for the aluminum grating support. | Clarify elevation or block out requirement on effluent side of parshall flume. Provide elevation for top of flume (below embedded angle). |
| 031 | Travis Cassella | Chemical Containment Box | 6/8/2023 | 6/8/2023 | 6/30/2023 | Answered | Drawing M32 Detail is correct. Contractor to provide a 4'x4' Chemical Containment Box with depth as required to allow buried chemical to enter the bottom of the box between 6" and 12" from the bottom, and whose top is 8" above finished grade. It is estimated the depth will be between 4'5" and 4'11". | Please provide clarification regarding the Chemical Containment Box. Drawing M16 calls out a 2'x2' Chemical Containment Box with a depth 3.4' below grade. Drawing M32 Detail 6 calls out a 4'x4' Chemical Containment Box with no specific depth below grade. Please advise on the dimensions and provide elevations of the chemical containment box at the chemical storage building. |
| 032 | Travis Cassella | BNR Slab Thickness | 6/12/2023 | 6/12/2023 | 6/26/2023 | Answered | 1. We need loading on channels under all straight walls to confirm details marked in this submittal. This can be done in coordination meeting. 2. Refer to attached mark-up. See RFI Drawings | Please provide updated drawing S5 detailing required slab thickness. |
| 033 | Travis Cassella | Greenstreak Waterstop | 6/19/2023 | 6/19/2023 | 6/19/2023 | Answered | Use the 6" PVC Waterstop Model 732.. | Please advise if the Greenstreak waterstop is acceptable. |
| 034 | Travis Cassella | Alternate Sampler | 6/20/2023 | 6/20/2023 | 7/28/2023 | Answered | The proposed Teledyne Model 5800 Refrigerated Sampler in lieu of the specified Teledyne Model 6712 Refrigerated Sampler is acceptable. | Please advise if the alternate sampler is acceptable. |
| 035 | Travis Cassella | Combo FVNR Starters Clarification | 6/27/2023 | 6/27/2023 | 7/21/2023 | Answered | Please replace with maintained on/off switch | Please provide clarification on the engineer's submittal comment #1 |

**Columbia County NFMIP WWTP
RFI LOG**

| | | | | | | | | |
|-----|-----------------|-------------------------------------|-----------|-----------|-----------|-------------|--|--|
| 036 | Travis Cassella | CCT Gate Elevations | 7/3/2023 | 7/3/2023 | 7/28/2023 | Answered | <p>1. It is correct that a concrete wall is intended in accordance with the M-Drawings. The concrete walls below the two gates just south of the Parshall Flume should be 12" thick reinforced with #5 vertical each face @ 6" o.c., coinciding with the first submittal Detail-10. The horizontal reinforcing should be #5 @ 8" o.c. to match the adjacent perpendicular wall to the north of the gates. Top of Concrete elevation should be approximately 181.00 (field adjust as needed for gate coverage/overlap).</p> <p>2. Gates should be 4'x4' with top elevation when closed of approximately 185.00 (field adjust as needed for gate coverage/overlap with concrete opening). Design intent is when gate is closed, it will completely isolate/obstruct flow from going downstream to channel, but if an emergency overflow occurred, flow would spill over top of closed gate before spilling over tank walls to the outside.</p> | Please provide CCT top of gate elevations for G-1 and G-2 |
| 037 | Jose Romero | 8in EQ-1 Routing | 7/6/2023 | 7/6/2023 | 7/28/2023 | Answered | The proposed location and orientation are acceptable, but accessibility to the Chlorine Contact Tanks' stairs must always be maintained. | Please advise if location and orientation of 8in flow meter station is acceptable. |
| 038 | Travis Cassella | Sampling Pumps | 7/25/2023 | 7/25/2023 | 7/28/2023 | Answered | Alternate sampling pumps not acceptable. Sampling pumps shall have a flow rate of 5-10 GPM | <p>Please advise if the attached Little Giant sampling pumps are acceptable for use in lieu of the specified Grundfos Model JP05-SS. These pumps are capable of 1-3 GPM flow rate which is sufficient for feeding the chlorine analyzer panel.</p> <p>The pumps would be fed by a waterproof 120VAC switch above the chamber; this would allow for the starters in the MCC to be spared. See attached marked-up drawings for reference.</p> |
| 039 | Travis Cassella | Influent Composite Sampler Location | 7/25/2023 | 7/25/2023 | 7/28/2023 | Answered | Composite sampler cannot sample flow from EQ basin. | <p>Our I&C subcontractor has recommended that the composite sampler be relocated between the BNR tanks to take samples of the screened flow in the EQ basins. The associated conductivity probe would also be moved with the sampler. The concern is that the 1" sampling line from the influent pump station to the chemical storage building (housing the composite sampler) will become clogged with rags and require frequent maintenance.</p> <p>The composite sampler comes with its own peristaltic pump and will lift up to 28 feet. This would eliminate the need for the sampling pump at the influent pump station and allow for its starter in the MCC to be spared.</p> <p>Additional coordination would be required for the specific location of the sampler. If there is enough space it could be placed on the platform near the drum screens, if not, it would need to be placed on the slab between the tanks.</p> <p>Please advise if this proposed change is acceptable.</p> |
| 040 | Travis Cassella | Stormwater Pond Extension | 7/26/2023 | 7/26/2023 | 8/1/2023 | Answered | <p>1. Please find the attached email and markup, which were coordinated during the VE coordination with Wharton Smith's bidding team. The allowed layout accounted for the future structures intended in that area. The proposed extension will directly impact both the egress and the foundational support of those proposed structures.</p> <p>2. The water management district handbook allows the permanent pool to be as deep as 12 feet in this pond. The current design is estimated near 5.5' deep between normal water elevation and pond bottom (permanent pool), so additional excavation is allowed to acquire remaining fill. The handbook mentions pond slope requirement as 4 to 1 and doesn't distinguish between slopes above or below the normal water elevation.</p> | <p>As indicated in RFI#010's response, the need to re-size the pond to generate enough fill material to mitigate importing is now required. Please see the attached proposed extension of the stormwater pond.</p> <p>The extension of the pond will be along the East bank of the pond as shown in the attached drawings. All required pond sloping will be maintained and storm inlet and MES's will shift East accordingly.</p> <p>Please confirm this is acceptable.</p> |
| 041 | Travis Cassella | Inlet S-4 Modification | 7/25/2023 | 7/25/2023 | 7/28/2023 | Answered | Modification not acceptable, inlet was designed to be above ditch bottom. | <p>Storm inlet structure S-4 has a grate elevation of 182.00, the surround grade is 181.00. Due to the grate being higher than the surrounding grade, water is accumulating around the structure instead of draining.</p> <p>Please see the attached documents and advise if it is acceptable to cut a window into the East side of the structure to allow water to drain into the structure.</p> |
| 042 | Travis Cassella | BNR Instrument Transmitter Assembly | 7/26/2023 | 7/26/2023 | 8/2/2023 | Answered | Due to the questions provided in RFI 042 (BNR Instrument Transmitter Assembly) are related to RFI039 (Influent Composite Sampler Location), please refer to response provided for RFI 039 | <p>This RFI is being submitted to provide supplemental information for RFI#039-Influent Composite Sampler Location.</p> <p>If the influent composite sampler is relocated between the BNR tanks as proposed in RFI#039, an instrumentation transmitter/surge/sunshield assembly would need to be mounted on the platform between the tanks. The transmitter assembly would host the two DO probes and the conductivity probe that are currently designed to be housed in the analyzer board assembly, detailed on drawing M32-Detail 1.</p> <p>See the attached sketch of the proposed transmitter assembly: The assembly with sunshield would be 24" wide x 36" tall and could be single pole stanchion mounted. The assembly would require a 120VAC feed and a fiber run to the PLC panel.</p> <p>Please confirm this instrument transmitter assembly and its proposed location are acceptable.</p> |
| 043 | Travis Cassella | EQ Pump Motor Service Factor | 7/26/2023 | 7/26/2023 | | In-Progress | | <p>Our EQ Pump vendor has requested an exception to submittal review comment #15 on submittal #: 11355-002- EQ Non-Clog Centrifugal Pump. The requested exception is to allow for a Motor Service Factor of 1.0 in lieu of the specified 1.15. Our pump vendors motor provider has stated that due to the low RPM's of the motor, a service factor of 1.15 would generate too much heat.</p> <p>Please review this request and advise if the requested exception is acceptable.</p> |