ADDENDUM NO. 1
September 28, 2016
Residuals Lagoon
Highway 211 Water Treatment Plant
Brunswick County, NC

The following Addendum items are hereby incorporated into the Contract Documents. Bidder must acknowledge receipt of the Addendum in the proper place in the Contract Documents/Bid Form. All other terms, conditions, and description remain the same.

Response to Contractor Questions:

1. Will have approx 5,000 CY of excess fill dirt from the EQ Lagoon excavation. Does the owner have an area we can waste this material or do we need to include hauling and disposal fees in our bid price?

The owner does not have a disposal location identified. Include hauling and disposal costs in your price.

2. Clarify what photos are required in addition to preconstruction video, Section 013233-1.

Reference Article 5 of the General Conditions for preconstruction video requirements. Reference CHANGES TO CONTRACT SPECIFICATIONS below for progress photo requirements.

3. Confirm that engineered fill material requirement for the lagoon fill, Section 312000-8.

Reference CHANGES TO CONTRACT SPECIFICATIONS below.

4. Clarify ramp detail – provide section, Sheet S-02.

Plan view shown on Plan 1/S-02 and section view shown on Section 4/S-02.


Yes. Reference Section 5.0 – Construction Considerations of the Report of Preliminary Subsurface Exploration and Geotechnical Engineering Analysis.

6. How do you want the 6” SCH 40 PVC tied into the existing storm drain? Sheet C-06

Reference CHANGES TO CONTRACT SPECIFICATIONS below.


There is no painting required for the residuals lagoon contract.

8. Curb at existing lagoon NCDOT 8”x12” Sheet C-06? 6” x 6” on C-08? Which one is to be used?
Use 8-inch by 12” curb. Reference CHANGES TO CONTRACT DRAWINGS below.

9. Does the existing lagoon have pressure relief valves?

No

10. Which detail for the telescoping valve walkway is correct? C-08 or S-03?

Reference CHANGES TO CONTRACT DRAWINGS below.

11. Do the slab on grade construction joints get 6” PVC water stop as shown on S-01 or self-expanding as shown on S-02?

Use self-expanding water stop

12. Is it the intent of this note, if the slopes on the lagoon cannot be poured the same day they are excavated – then a mud mat is required? S-01 Note 8.

Reference ECS Environmental’s Report of Preliminary Subsurface Exploration and Geotechnical Engineering Analysis and, in particular, the recommendations found in Section 5.0 – Construction Considerations.

13. What is the dark line that runs from the high service pump station to the proposed tank 3? Which contract is it in? C-06.

Electrical conduit associated with tank monitoring level sensor. This conduit is not in the Residuals Lagoon contract.

14. The Existing Lagoon Modification detail on C-08 shows a pressure treated timber walkway with railing. S-03 details a galvanized steel access platform with aluminum railing. Please confirm which is correct.

Galvanized steel is correct. Reference CHANGES TO CONTRACT DRAWINGS below.

15. The same detail on C-08 notes a 6” high concrete curb around all sides of the existing lagoon. A note on C-06 and detail on C-11 shows an 8” x 12” curb. Which is correct and what reinforcing is required in the curb?

Proposed curb shall extend 6-inches above grade. Reference CHANGES TO CONTRACT DRAWINGS below.

16. Note 12 on S-02 refers us to Civil Plans for sidewalk layout. I don’t see any new sidewalk. Is there any required?

There is no sidewalk.

17. Section 330501.2.1.A – Gravity Drain Pipe, Manholes and Valves appears to be calling for materials to be made in the USA. Please verify if import material is required on this project, or all material must be domestic.

Reference CHANGES TO CONTRACT SPECIFICATIONS below.
18. What is the duration of the Tank Contract?

The exact duration has not been finalized, but it will be less than the Residuals Lagoon contract time and also require substantial completion in a timeframe that allows the tank to be placed in service by end of May 2017.

19. When will the Tank Contract be advertised?

Early October 2016.

20. Who will perform the tap to the existing force main?

The Residuals Lagoon contractor.

21. When does the County anticipate that the contract award will go to Commissioners for approval?

The current plan is to have recommendation ready for the Commissioners November 7 2016 meeting.

CHANGES TO CONTRACT SPECIFICATIONS

1. **REPLACE** the first two sentences of Section 2 of the Form of Construction Contract with the following sentence.

   “2. That the Party of the First Part shall commence work to be performed under this Contract on a date to be specified in a written order of the Party of the Second Part and shall 1) prepare the site for the 1 MG Finished Water Tank Contractor within 60 calendar days and 2) fully complete all work hereunder within 300 consecutive calendar days from said date. For each day in excess thereof of either duration, liquidated damages shall be as stated in the Notice to Bidders.”

2. **ADD** Section 1.16 to Specification 011000-Summary, as follows:

   “1.16 PROJECT MILESTONES
   A. A portion of the site work shall be completed with 60 days of the Notice to Proceed such that the Finished Water Tank Contractor can commence with work to meet the overall project schedule. This work shall include:
   1. Silt Fence installation down gradient of the proposed tank
   2. Chain link fence removal around proposed tank
   3. Clear the area for the Finished Water Tank contractor’s staging area and tank site
   4. Stormwater Basin Construction
   5. Outlet Structure & Discharge pipe installation
   6. General grading of the area north of the Residuals Lagoon including swale and check dams
   7. Stormwater Basin Construction (excluding riprap inlet for future tank overflow drain pipe)
B. If this milestone is not met, liquidated damages in the amount of $1,000 per day shall be assessed until the milestone is met.”

3. REPLACE Section 1.5.D.1.f of Specification 013100 – Project Management and Coordination with the following:

“f. Requests for interpretation of Engineer’s action on submittals.”

4. REPLACE Section 1.5.D.2 of Specification 013100 – Project Management and Coordination with the following:

“2. Engineer’s action may include a request for additional information, in which case Engineer's time for response will date from time of receipt of additional information.”

5. REPLACE Section 1.5.F of Specification 013100 – Project Management and Coordination with the following:

“F. On receipt of Engineer’s action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Engineer within two business days if Contractor disagrees with response.”

6. REPLACE Specification 013233 – Photographic Documentation with the attached revised Specification 013233.

7. REVISE Section 2.1.B of Specification 312000 – Earth Moving, as follows:

“B. Satisfactory Soils. Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter. It shall contain less than 35 percent fines content passing the number 200 sieve, and have a Liquid Limit (LL) and Plasticity Index (PI) less than 35 and 9, respectively, have a standard Proctor (ASTM D 698) maximum dry density of at least 100 pounds per cubic foot (pcf).”

8. REVISE Section 2.1.F of Specification 312000 – Earth Moving, as follows:

“F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; No. 57 crushed stone with at least 95 percent passing a 1-inch sieve, 25-60 percent passing a ½-inch sieve, and not more than 0.6 percent passing a No. 200 sieve.”

9. REVISE Section 3.10.C of Specification 312000 – Earth Moving, as follows:

“1. Trenches under footings/foundations. Backfill trenches excavated under footings/foundations with satisfactory soil.”

10. REVISE Section 3.11.B of Specification 312000 – Earth Moving, as follows:

1. Under grass and planted areas, use satisfactory soil material.
2. Under walks and pavements, use satisfactory soil material.
3. Under steps and ramps, use engineered fill.
4. Under building slabs, use engineered fill.
5. Under footings and foundations, use engineered fill.
6. For areas below concrete lagoon and below existing grade, use engineered fill for replacement of unsuitable materials and for aggregate foundation below slab.
7. For areas below concrete lagoon and above existing grade, use satisfactory soil material for fill to achieve finished grade and use engineered fill for aggregate foundation below slab.”

11. **REVISE** Section 3.4.A of Specification 312319– Dewatering, as follows:

   “A. Observation Wells: Provide observation wells or piezometers and record measurements each day.”

12. **REVISE** Section 3.3.B of Specification 315000– Excavation Support and Protection, as follows:

   “A. Accurately place the piling, using templates and guide frames unless otherwise recommended in writing by the sheet piling manufacturer.”

13. **REVISE** Section 3.7.A.1 of Specification 315000– Excavation Support and Protection, as follows:

   “1. If Contractor elects to leave support system in place, remove excavation support and protection systems to a minimum depth of 48 inches below overlying construction or to a depth sufficient to complete other construction activities and abandon remainder.”

14. **ADD** Section 2.8 – Pipe Manifold Adapter to Specification 330501 – Gravity Drain Pipe, Manholes and Valves, as follows:

   “2.8 Pipe Manifold Adapter

   A. Three piece connection consisting of PVC hub, rubber sleeve and stainless steel band inserted into a cored hole on the existing pipe.

   B. Manufacturers:

   a. InertaTee
   b. Or equal”

15. **DELETE** Section 2.1.A from Specification 330501 – Gravity Drain Pipe, Manholes and Valves.

16. **ADD** the Public Water Supply Permit Approval letter from NC DEQ to Appendix B.

17. **ADD** the NC DEMLR Stormwater Permit Exclusion letter as Appendix F.

**CHANGES TO THE DRAWINGS**

1. Sheet C-08, Detail EX LAGOON MODIFICATION DETAIL, **REPLACE** “PRESSURE TREATED TIMBER WALKWAY WITH RAILING” with “WALKWAY WITH RAILING” as it will not be constructed of timber.
2. Sheet C-11, Detail NCDOT 8”x12” CONCRETE CURB, REVISE 8-inch burial depth to 6-inch burial depth such that 6-inches of the curb height extends above grade.

3. Sheet S-01, DELETE Detail 4 – Sidewalk Detail.

4. Sheet S-02, DELETE Note 12.

Given the minor changes to the drawings, new sheets are NOT being issued at this time.

**PRE-BID MEETING MINUTES**

Meeting Minutes with sign-in sheet are attached for reference.

END OF ADDENDUM NO. 1
PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for the following:

1. Preconstruction photographs.
2. Periodic construction photographs.
3. Final completion construction photographs.

1.3 INFORMATIONAL SUBMITTALS

A. Digital Photographs: Submit image files within three days of taking photographs.

1. Digital Camera: Minimum sensor resolution of 8 megapixels.
2. Identification: Provide the following information with each image description in file metadata tag:
   a. Name of Project.
   b. Date photograph was taken.
   c. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

1.4 USAGE RIGHTS

A. Owner and Engineer shall have unlimited reproduction of photographic documentation.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

A. Digital Images: Provide images in JPG format, produced by a digital camera with minimum sensor size of 8 megapixels.
PART 3 - EXECUTION

3.1 CONSTRUCTION PHOTOGRAPHS

A. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.

1. Maintain key plan with each set of construction photographs that identifies each photographic location.

B. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.

1. Date and Time: Include date and time in file name for each image.

C. Preconstruction Photographs: Before starting construction, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points.

1. Take 20 photographs to show existing conditions adjacent to property before starting the Work.
2. Take 20 photographs of existing buildings either on or adjoining property to accurately record physical conditions at start of construction.
3. Take additional photographs as required to record settlement or cracking of adjacent structures, pavements, and improvements.

D. Periodic Construction Photographs: Take 10 photographs each work day and submit a CD with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.

E. Final Completion Construction Photographs: Take at least 20 color photographs after date of Substantial Completion for submission as project record documents.

END OF SECTION 013233
August 31, 2016

Ms. Ann Hardy, County Manager
Brunswick County
Post Office Box 249
Bolivia, North Carolina 28422

Re: Engineering Plans and Specifications Approval
Ground Task
Highway 211 WTP Improvements -
1 MG Finished Water Tank and Residuals Lagoon
Brunswick County Water System
Water System No.: NC0410045, Brunswick County
Serial No.: 16-00506

Dear Ms. Hardy:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans and specifications are approved under Division of Water Resources Serial Number 16-00506, dated August 31, 2016.

Engineering plans and specifications prepared by Steven Hilderhoff, P.E., call for the construction of a 1.0 MG pre-stressed concrete finished water tank, with dimensions of 110 feet in diameter and 14 feet in depth; with baffle walls at the Highway 211 WTP facility. Treated water will first flow into the existing 0.25 MG finished water tank and then second to existing 1.25 MG finished water tank and then last into the proposed 1.0 MG finished water tank. Engineering plans and specifications also call for the construction of a concrete lined residual thickening lagoon for the storage of clarifier sludge waste, supernatant disposal or recycling pumping stations and other associated piping also at the Highway 211 WTP. Residuals from the two existing ClariCones can either flow into the existing sludge pond or into the proposed new sludge lagoon, the solids settled can be removed if needed, and the supernatant can either be pumped into the sanitary sewer line nearby or can also be pumped back to the head of the water treatment plant.

Please note that in accordance with 15A NCAC 18C .0303(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer’s Certification and an Applicant’s Certification submitted in accordance 15 A NCAC 18C .0303 (a) and (c).
ANN HARDY, COUNTY MANAGER  
BRUNSWICK COUNTY  
P O BOX 249  
BOLIVIA, NC 28422

Re: Authorization to Construct  
HWY 211 WTP IMP - 1.0 MG FINISHED WATER TANK & RESIDUALS  
LAGOON  
BRUNSWICK COUNTY WATER SYSTEM  
BRUNSWICK COUNTY, NC 0410045  
Authorization to Construct (This is not a Final Approval)

Dear Applicant:

This letter is to confirm that a complete Engineer’s Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for HWY 211 WTP IMP - 1.0 MG FINISHED WATER TANK & RESIDUALS LAGOON, Serial No. 16-00506.

The Authorization to Construct is valid for 24 months from the Issue Date (refer to next page). Authorization to Construct may be extended if the Rules Governing Public Water Supplies and site conditions have not changed (see Rule .0305). The Authorization to Construct and the engineering plans and specifications approval letter shall be posted at the primary entrance of the job site before and during construction.

Upon completion of the construction or modification, and prior to placing the new construction or modification into service, the applicant must submit an Engineer’s Certification and Applicant Certification directly to SHASHI BHATTA, P.E. of this office.

- **Engineer Certification:** in accordance with Rule .0303 (a), the applicant shall submit a certification statement signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department’s engineering plan and specification approval letter.
- **Applicant Certification:** in accordance with Rule .0303 (c), the applicant shall submit a signed certification statement indicating that the requirements for an Operation and Maintenance Plan and Emergency Management Plan have been satisfied in accordance with Rule .0307 (d) and (e) and that the system has a certified operator in accordance with Rule .1300. The “Applicant Certification” form is available at [http://www.deh.enr.state.nc.us/pws/](http://www.deh.enr.state.nc.us/pws/) (click on Plan Review Forms, under Plan Review heading).

If this Authorization to Construct is for a new public water system, the owner must submit a completed application for an Operating Permit and the appropriate fee. For a copy of the application for an Operating Permit please call (919) 707-9085.

Once the certifications and permit application and fee, (if applicable), are received and determined adequate, the Department will issue a Final Approval letter to the applicant. In accordance with Rule .0309 (a), no portion of this project shall be placed into service until the Department has issued Final Approval.

If the Public Water Supply Section can be of further assistance, please call (919) 707-9100.

Sincerely,

Robert W. Midgett, P.E., Operations Branch Head  
Public Water Supply Section  
Division of Water Resources

cc: HEIDI COX, Wilmington Regional Office  
Dewberry Engineers Inc
North Carolina Department of Environmental Quality  
Division of Water Resources  

Public Water System Authorization to Construct

<table>
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<tr>
<th>Public Water System Name and Water System No.:</th>
<th>BRUNSWICK COUNTY WATER SYSTEM NC0410045</th>
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<td>Project Name:</td>
<td>HWY 211 WTP IMP - 1.0 MG FINISHED WATER TANK &amp; RESIDUALS LAGOON</td>
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<td>Serial No.:</td>
<td>16-00506</td>
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<tr>
<td>Issue Date:</td>
<td>08/31/2016</td>
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<tr>
<td>Expiration Date:</td>
<td>24 Months after Issue Date</td>
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In accordance with NCAC 18C. 0305, this Authorization to Construct must be posted at the primary entrance to the job site during construction.
August 25, 2016

John Atkinson, Manager
St. James Development Co., LLC, Property Owner
4006 St. James Drive, SE
Southport, NC 28461

and

Jerry Pierce, Director of Public Utilities
Brunswick County, Improvement Owner
PO Box 249
Bolivia, NC 28422

Subject: Stormwater Permit Exclusion - Redevelopment
        Brunswick County NC 211 Water Treatment Plant
        Project Number SW8 160607
        Brunswick County

Dear Mr. Atkinson and Mr. Pierce:

On August 8, 2016, the Wilmington Regional Office of the Division of Energy, Mineral and Land Resources (DEMLR) received a complete request to exclude the subject proposed redevelopment project from Stormwater Management Permit requirements. Staff review of the plans and supporting documentation has determined that the project proposes activities that are excluded from State Stormwater permitting requirements as set forth in Section 2.43(d)(3) of Session Law 2008-211, effective October 1, 2008, and the stormwater rules under Title 15A NCAC 2H.1000, as amended.

Therefore, the director of the DEMLR is hereby providing confirmation that the subject project is excluded from State Stormwater permitting requirements under the following conditions: 1) The project must be constructed as shown on the plans submitted to this Office; 2) The proposed built-up area of 136,094 square feet does not exceed the existing built-up area of 140,855 square feet; and, 3) The proposed stormwater control, vegetated sheet flow, vegetated conveyance and a detention pond, provides equal protection of surface waters as the existing stormwater control, which is sheet flow over gravel and vegetation and a vegetated conveyance. There is 4,761 square feet of BUA remaining to be redeveloped within the 14.9-acre project area. If permeable pavement is proposed to keep the post-developed BUA amount equal to the existing BUA amount, then this exclusion is also conditioned on that amount of permeable pavement being installed and maintained per the approved plans, supplement and O&M agreement.

Under Section .1003 (b) of the stormwater rules, the entire common plan of development must be permitted. Therefore, any future development or changes to the proposed development, including, but not limited to, the relocation of built-up area and the construction of additional built-up area, may require approval or a Stormwater Management permit application and permit issuance from the DEMLR prior to any construction. Construction of the project prior to receipt of the required approval or permit or failure to maintain compliance with the exclusion conditions, are violations of Title 15A NCAC 2H.1000 and Session Law 2008-211, and may result in the initiation of appropriate enforcement action.
Please keep in mind that this determination does not affect your legal obligation to obtain other permits and approvals, which may be required by Federal, State, or local government agencies, rule or law. If you have any question, or need additional information concerning this matter, please contact Christine Hall at 910-796-7215.

Sincerely,

[Signature]

Tracy Davis, P.E., Director
Division of Energy, Mineral and Land Resources

GDS/canh:   \Stormwater\Permits & Projects\2016\160607 Exclusion\2016 08 permit 160607

cc:  Donald Covil, Compass Pointe Engineering
      Brunswick County Building Inspections
      Brunswick County Engineering
      Wilmington Regional Office Stormwater File
PRE-BID CONFERENCE

DATE HELD: September 15, 2016
TIME: 2:00 P.M. to 2:30 P.M.
LOCATION: Highway 211 Water Treatment Plant
4305 Southport-Supply Road SE, Southport NC
PROJECT: Highway 211 WTP Residuals Lagoon
Dewberry Project No. 50078533

CONFERENCE

Pre-Bid meeting attendance is not mandatory.

Project’s Description:
- Construction of a residuals lagoon approximately 100 feet by 200 feet by 8 feet deep, and of cast-in-place concrete
- Construction of a 120 gpm decant water pumping station and related pressure pipe

Type of Contract – Contract shall be awarded for the Total Bid as indicated on the Proposal. Note that there are 4 pay items.
- a) All work except crossing under Highway 211
- b) Crossing of Highway 211
- c) Allowance for 3rd party geotechnical work
- d) Excavation of possible unsuitable material below the planned subgrade and replacement with stone

The Proposal and required Attachments to the Bid were reviewed. Bid to include:
- Bid Form
- Bid security
- Identification of Minority Business Participation
- Affidavit A – Listing of Good Faith Efforts OR Affidavit B – Intent to Perform Contract with Own Workforce.

Construction Contract Duration and LDs.
- Contract Times – 300 days to Final Completion
- Liquidated Damages - $1000/day
- Retainage – 5% until 50% completion. IF work is satisfactory to the Owner and Engineer after 50%, retainage may not be required by Owner

Permits.
1. Public Water Supply – Approved, will be issued by addendum
2. Fast Track Sewer Permit – Approved, included
3. Sedimentation and Erosion Control – Approved, included
4. NCDOT Encroachment Agreements – pending approval
5. Stormwater Exemption, will be issued by addendum.

Performance and Payment Bonds ARE required.

Specification Section 11000 – Summary of Work
• There will be a second contract advertised shortly, for the Finished Water Tank Construction
• Residuals lagoon contractor is responsible for E&S and general site work that will support both contracts. It's imperative that the E&S controls and grading work be immediately completed such that the Tank Contractor can commence work.
• The project goal is to have the Finished Water Tank in service by end of April 2017.

Bid Date: Thursday, October 6, 2016 3:00 P.M.
All questions and/or clarifications must be submitted in writing no later than 10 days before bid opening, or 5:00 P.M. on Thursday, September 26, 2016.

Questions
1. What is the duration of the Tank Contract?
2. When will the Tank Contract be advertised?
3. When does the County believe the project award will be taken to the Commissioners for approval?

Responses are provided via addendum.

Close
**PRE-BID CONFERENCE SIGN-IN SHEET**

**DATE HELD:** Thursday, September 15, 2016  
**TIME:** 2:00 P.M.  
**LOCATION:** Highway 211 Water Treatment Plant  
4305 Southport-Supply Road SE, Southport NC  
**PROJECT:** Highway 211 WTP – Residuals Lagoon  
Dewberry Project No. 50078533

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Page 3
# PRE-BID CONFERENCE SIGN-IN SHEET

**DATE HELD:** Thursday, September 15, 2016  
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4305 Southport-Supply Road SE, Southport NC  
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