

TASK ORDER 2023-01

ENGINEERING SCOPE OF SERVICES for ROWAN COUNTY LANDFILL PHASE V CONSTRUCTION CQA

This Task Order pertains to an Agreement by and between Rowan County, North Carolina, (“OWNER”), and HDR Engineering, Inc. of the Carolinas (“ENGINEER”), signed January 21, 2021, (“the Agreement”). Engineer shall perform services on the project described below as provided herein and in the Agreement. This Task Order shall not be binding until it has been properly signed by both parties. Upon execution, this Task Order shall supplement the Agreement as it pertains to the project described below.

TASK ORDER NUMBER: 2023 - 01

BACKGROUND

The Phase V Permit Application is expected to be approved by NCDEQ in March 2023. In an effort to allow adequate time for transition from Phase IV to Phase V, construction of Phase V is anticipated to begin by March 2023 so that Phase V is operational by November 2023. To quicken the availability of useable landfill airspace, Phase V construction was divided into two cells with Cell 1 having a four-month construction duration. The overall project construction schedule is nine months.

PART 1.0 PROJECT DESCRIPTION

This task outlines the engineering services for conducting construction administration and construction quality assurance (CQA) services for construction of a nineteen-acre cell of the Phase V unit of the Rowan County Landfill.

PART 2.0 SCOPES OF SERVICES TO BE PERFORMED BY ENGINEER ON THE PROJECT

A detailed description of the activities to be performed under this task order is provided below.

Task 1 – Construction Administration and Construction Quality Assurance Services

This task item addresses engineering services to provide construction administration and CQA services for the Phase V Landfill Unit. The specific activities HDR will perform to complete this task are described as follows.

Work Activities:

1. Conform construction documents to addenda.
2. Issue construction plans and specifications to the County and contractor.
3. Attend and preside at preconstruction conference.
4. Review and approve project submittals from contractor(s) including project schedule, surveys and shop drawings.
5. Review and approve monthly pay requests and transmit for County approval.
6. Evaluate design changes and prepare modifications to Contract Documents to address design changes.
7. Evaluate field orders and change order proposals and prepare documents for execution.
8. Attend monthly on-site progress meetings. Coordinate with contractor(s) and the County regarding contract compliance.

9. Provide coordination and oversight for testing services as required in the project specifications.
10. Observe/document subgrade proof rolling, review test data, and verify that the fill is acceptable.
11. Confirm that required CQC testing frequencies are being met, and observe testing associated with borrow source testing work.
12. Review geosynthetic (raw material) submittals including manufacturer quality control certificates and personnel qualifications.
13. Conduct cursory inventory of geosynthetics and document storage and protection measures employed.
14. Review and document the adequacy of the liner system anchor trenches.
15. Review that the geosynthetic installer has properly labeled, placed, tested, repaired (as needed), and documented the geosynthetic material deployments.
16. Visually observe each geosynthetic panel during placement and document necessary repairs.
17. Review weekly reports for conformance with project work requirements including project schedules.
18. Review laboratory test results and communicate with the County on an as needed basis.
19. Prepare observation logs and conformance data sheets (as required) in accordance with the CQA Plan, including photographic documentation on a selected basis.
20. Prepare contract close-out documentation and process final pay request, lien waivers, and other final contract documents.
21. Coordinate with Duke Energy to extend service from the existing lift station to the leachate pump enclosure.

Deliverables:

1. Reviewed and approved shop drawings.
2. Reviewed pay requests from the contractor.

Clarifications:

1. HDR will not coordinate or schedule the contractor's work.
2. Construction monitoring services assume construction duration of 240 days. Meeting attendance, site visits, and expenses are based on this duration.
3. Construction monitoring services assume an HDR representative will be on-site full time for major components of the work and periodically for the remainder of the construction duration.
4. There will be no conformance testing of geosynthetics. The certification will rely totally on manufacturer QC Certificates.
5. The effort estimated for shop drawing submittal review has been based on not more than two (2) review cycles. Additional review cycles due to the lack of attention to detail by the Contractor may require additional compensation.
6. This scope only includes costs associated with coordination of providing power to the leachate pump enclosure. The County will pay for actual installation costs.

Task 2 – Construction Certification Report

This task item addresses engineering services to provide a construction certification report for Phase V Landfill Unit. HDR will prepare up to two Phase V Construction Certification packages for submittal to County staff and NCDEQ. The package will include all construction quality control and assurance documentation developed during the construction of the Phase V cells which will include at a minimum asbuilt surveys and record drawings, laboratory and field test results for soil and geosynthetics, and manufacturer's material certifications.

Work Activities:

1. Document that all quality assurance requirements have been addressed and satisfied and provide the County with a report summarizing CQA activities.
2. Provide the County with certification that the geosynthetics were installed in accordance with the manufacturer's recommendations.
3. At the completion of the construction, compile all required forms, logs, and data sheets, and provide a final report certifying that the work has been performed in general accordance with the Contract Documents and solid waste permit.

Deliverables:

1. Phase V Certification Report, one draft and four final copies for each cell construction.

Clarifications:

1. As-built (survey) drawings are to be provided by contractor as part of CQC. Should CQA survey be required it will be covered under the contingency for additional services. All CQC data for certification shall be provided by contractor to the Engineer.
2. CQA costs include subconsultant testing (soils and geosynthetics) as required by the Contract Documents and referenced herein.
3. CQC testing services to be provided by the contractor as defined in the Contract Documents.
4. All CQC test results will be provided to Engineer for preparation of the Certification report.

PART 3.0 SCHEDULE

The schedule for these tasks will begin immediately upon approval.

	<u>Estimated Start</u>
Task 1 Construction Administration and Construction Quality Assurance Services	March 2023
Task 2 Construction Certification Report (Cell 1 date)	June 2023

PART 4.0 PAYMENTS TO ENGINEER

	<u>Estimated Cost</u>
Task 1 Construction Administration and Construction Quality Assurance Services	\$536,550
Task 2 Construction Certification Report	<u>\$42,350</u>
Task Order Fee Estimate	\$578,900

This Task Order is executed this _____ day of _____, 2023.

ROWAN COUNTY, NORTH CAROLINA
"OWNER"

DATE: _____

BY: _____

NAME: _____

TITLE: _____

ADDRESS: _____

HDR ENGINEERING, INC. OF THE CAROLINAS
"ENGINEER"

DATE: 1/6/2023

BY: 

NAME: Johnathon Henderson, PE

TITLE: Area Manager

ADDRESS: 440 South Church St.

Suite 1000

Charlotte, NC 28202