

ECUA GENERAL RESOLUTION NO. GR20-49

A GENERAL RESOLUTION AUTHORIZING THE EXECUTIVE DIRECTOR TO SIGN AN ENGINEERING SERVICES PROPOSAL FROM HDR ENGINEERING, INC., (HDR) FOR DESIGN OF A GRANULAR ACTIVATED CARBON (GAC) TREATMENT SYSTEM TO TREAT THE WATER FROM THE MULDOON AND AVONDALE WELL SITES; AUTHORIZING THE USE OF FUNDS FROM CIP PROJECT RW001N - GAC FILTER VESSEL MAINTENANCE.

BE IT RESOLVED BY THE EMERALD COAST UTILITIES AUTHORITY:

WHEREAS, the Emerald Coast Utilities Authority (hereinafter "ECUA") Board previously approved acquisition of GAC vessels to serve the Muldoon and Avondale Well sites, and construction of foundations and access for the GAC vessels; and

WHEREAS, staff solicited and received a proposal from HDR in the amount of \$63,570 for GAC site design for installation of the GAC treatment facility; and

WHEREAS, HDR is on the list of firms who are approved to provide Engineering Services to ECUA, and their most recently signed Agreement for Professional Engineering Services is already on file; and

WHEREAS, staff has been satisfied with the quality of HDR's work in the past and finds the cost to be reasonable; and

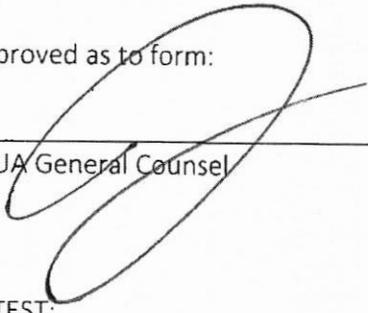
NOW THEREFORE, be it resolved by the Emerald Coast Utilities Authority:

SECTION 1. ECUA hereby authorizes the Executive Director to sign the attached proposal; and

SECTION 2. ECUA hereby authorizes transfer and use of funds from CIP Project RW001N - GAC Filter Vessel Maintenance to CW0006 - Muldoon and Avondale GAC Treatment in the amount of \$63,570; and

SECTION 3. This General Resolution shall take effect upon adoption.

Approved as to form:



ECUA General Counsel

Adopted on:

ATTEST:

Amanda Miller, Administrative Coordinator

Lois Benson, Board Chairman

Date: October 20, 2020
Account Number:
Amount: \$63,570.00
Type of Resolution: General Resolution

EXPLANATION TO ECUA BOARD

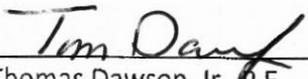
Originating Department: Water Production

REMARKS:

In November 2019, the Board approved the purchase of six GAC vessels to provide treatment of the well water from the Avondale and Muldoon wells. The contaminants targeted for removal will be perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). Recent water sample test results from these two wells indicate low levels of these two compounds in the groundwater at each well. The combined concentration of these contaminants is less than half of the Environmental Protection Agency Health Advisory placed into effect in 2016. The vessels are currently being fabricated and are expected to be delivered in October. The foundations have been designed and are under construction.

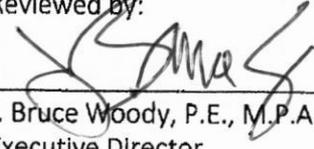
The same engineering firm that performed the foundation design, HDR, has provided the attached proposal for the GAC treatment design. Staff has reviewed the proposal and finds the cost to be reasonable for the scope of work. Escambia County Development Review Committee and Florida Department of Environmental Protection (FDEP) permitting for stormwater were previously performed, but this proposal will include FDEP potable water permitting for the GAC treatment.

Submitted by:



Thomas Dawson, Jr., P.E.
Director of Water Production
969-3341

Reviewed by:



J. Bruce Woody, P.E., M.P.A.
Executive Director



Attachment A: Scope of Services for Engineering Services
Emerald Coast Utilities Authority – Muldoon GAC Filter Piping Proposal for Engineering Services
Task Order
ECUA Agreement Dated $\frac{6}{12/1/18}$

HDR Engineering, Inc. (“HDR” or “Consultant”) is pleased to submit this scope of services (the “Scope”) to the Emerald Coast Utilities Authority (“ECUA” or “Client”) for engineering services for Muldoon GAC Filter Piping.

PROJECT UNDERSTANDING

The purpose of this Task Order is to establish the scope and fees to perform professional engineering services for the new GAC filter piping to serve the new filters at the Avondale filter site and at the Muldoon GAC Treatment Facility. HDR will provide engineering services for the design of the piping, specifications, cost estimating, permitting, and limited construction administration services. In addition to the site piping ECUA wishes to have site lighting installed at the Avondale filter site. We are pleased to present the following proposal for engineering services, broken down into the following tasks:

SCOPE OF SERVICES

Task 1 – Project Management

HDR will provide project management services for the duration of the project. This task also includes quality control/quality assurance reviews prior to each submittal to ECUA. Quality control reviews will be performed at 60%, 90%, and Final milestones.

Task 2 – Design Services

ECUA and HDR will make a site visit to evaluate the proposed piping routes and coordinate with existing GAC filter tank installations and well piping stub-outs. The specific Engineering Design Services that HDR agrees to furnish to the ECUA for the PROJECT are described below.

Review Existing Information

HDR shall review pertinent information and data regarding the PROJECT, which is to be provided by ECUA. Information and data that will be reviewed includes Muldoon Water Treatment Facility As-Built Drawings, and existing survey information.

60-Percent Design

HDR understands that ECUA wishes to have stainless steel piping aboveground and either ductile iron or PVC piping below ground. The design includes the influent, effluent, and backwash piping to/from the filters. The piping design will include a stub-out for the future addition of five filters at the Avondale filter site.

The design will also include site lighting at the Avondale filter site. It is expected that 2-4 light poles will be necessary. The electrical design will also include four GFCI outlets stubbed aboveground at the edge of the slab spaced equally along the slab. HDR will coordinate with Gulf Power for a new electrical service to the site.

hdrinc.com

25 West Cedar St Suite 200 Pensacola, FL 32502
T 850-432-6800 F 850-432-8010

Both sites will have manual pressure gauges and no active electrical controls. The drawings will contain the operational protocol for the "valves trees". This protocol will be limited to identifying which valves to utilize for the following three scenarios:

- Series operations
- Parallel operations
- Backwash operations

At the Muldoon filter site, the piping design includes a new underground 12" to pipe water to the new filter slab, and aboveground stainless steel piping to the filter. The piping design will include a stub-out for the future addition of one filter.

HDR will prepare and submit to the ECUA for review 60-percent design documents. ECUA shall review the 60-Percent submittal and provide comments to HDR. HDR will attend one design review meeting for the filter piping. The design documents will contain the following information:

- Cover, legends per discipline, and general notes – three sheets
- GAC Treatment Facility civil drawings including site plan, details – four sheets
- GAC Treatment Facility mechanical drawings including associated piping and details – eight sheets
- Electrical – Site Lighting Design – three sheets
- Outline Technical specifications for the PROJECT

90-Percent Design Documents

HDR will prepare and submit to ECUA the 90-percent design documents for the GAC Treatment Facility. The design documents will address comments to the 60-percent submittal and include the following information:

- 90% drawings
- Technical specifications for the PROJECT.
- Cost Estimate

Final Design Documents

HDR will prepare and submit to ECUA the final design documents for the GAC Treatment Facility. The design documents will address comments to the 90-percent submittal and include the following information:

- Final drawings
- Final Technical specifications for the PROJECT.
- Cost Estimate

Task 3 – Permitting Services

HDR shall prepare permitting documents for submittal. HDR shall incorporate review comments arising from the permitting process into the project drawings and specifications. The only permits anticipated for this project is the FDEP Construction Permit and an Escambia County R/W permit.

Task 4 – Bidding Services

HDR will attend a pre-bid meeting, and answer questions during bidding and issue revisions/clarifications. HDR will assist with the bid calculation and recommendation of award. HDR will facilitate one pre-bid site visit as part of this task. HDR will review the bids, prepare a bid tab, and issue a recommendation of award.

Task 5 – Construction Services

HDR will attend the pre-construction meeting with the Contractor and ECUA. In addition, HDR will make weekly site visits during construction to provide limited site inspection and verify general compliance with the design plans. A construction duration of twenty weeks is assumed for inspection time. HDR will answer a maximum of (3) three Requests for Information (RFIs) from the Contractor and review a maximum of (8) Material Submittals.

The Contract Documents will indicate that the Contractor shall provide certified welders to perform all welding operations, as well as require third party testing (non-destructive testing method, such as UV testing) for the pipe welds. HDR will review the results of that test.

HDR will prepare a set of Record Drawings indicating the actual locations of the constructed facilities to include site features. The Record Drawing deliverable will be prepared in accordance with ECUA Section 4000 include a full-size record set as well as an electronic submittal. All location information shall be provided by the contractor and approved by the ECUA Inspector.

ECUA will provide an on-site inspector periodically during construction. Any certifications by HDR will be limited to and based on conditions and activities observed by HDR personnel, as well as review of records/test results delivered by ECUA Inspector.

PROJECT ASSUMPTIONS

The following assumptions are made for this scope of services. Modifications to these assumptions may be incorporated into the scope of services by an amendment to this scope of services.

- The design will be based on the federal, state, and local codes and standards in effect, or that may be reasonably known, on the effective date of the authorization to proceed. Any changes in these codes may necessitate a change in scope.
- Backwash from filters will be routed to on-site ponds at both sites.
- No additional geotech work included in this proposal.
- Design services for existing well pump improvements are excluded from this scope of services.
- The design will include the “valve trees” between each pair of filters. HDR will utilize the Calgon Model 10 valve tree drawings from Calgon. These will be shown as a “package item” to be provided by Calgon (or approved equivalent).
- Quality control reviews will be performed throughout the design of the project. Reviews will be performed at the 60- 90- and 100-percent phases of the project.
- ECUA’s master specifications, as available, will be used as the basis for specifications, including ECUA’s standard “Front-End Documents”. HDR will supplement with items not covered by master specs.
- The drawings will follow HDR CADD standards. AutoCAD®, Version 2018 or later will be used to develop the drawings.
- Any permit application fees are to be paid by ECUA.

- Any fees for new power service to site are to be paid by the Contractor or ECUA.
- ECUA will provide periodic on-site inspector and provide testing reports to HDR.
- The total disturbed area for the project is less than 1.0 acres and therefore an FDEP erosion control permit is not required.

Exclusions:

- GAC Filter Design – Calgon Model 10 is selected filter model
- GAC Filter Anchor System (part of previous slab proposal)
- Landscape Plans (previously submitted)
- P&ID plans for filters
- Subsurface Utility Engineering
- Environmental/wetlands services
- Rezoning Services
- Public Meetings
- Resident Construction Inspection
- Fees for Permit Applications or Agency Reviews
- Additional permits other than specified in this scope of services.

DELIVERABLES

Submittals will be made according to the following milestones:

Generally –

- a) Meeting minutes from meetings and conferences with ECUA staff and regulatory agencies.
- b) Timely invoices concurrent with the work.

Task 2 –Design

- a) A total of 3 draft copies of the Contract Documents (3 half-size drawings and a pdf will be submitted for the 60% design, 3 half-size drawings and a pdf will be submitted for the 90% design and 3 full-size drawings and specifications for the Final submittal) will be submitted to the ECUA for their use and comment at each of the two design review points.

Task 5 –Bidding Services

- a) Recommendation of Award
- b) Conformed drawings for Contractor.

SCHEDULE

The schedule below assumes a two-week review time for ECUA staff. The duration of the project within this Task Order is as follows:

- Authorization to Proceed - Upon Execution by Both Parties
- Task 2 Completion - 60 days after NTP

PROFESSIONAL FEES

The cost proposal for these services is shown below. The lump sum price for the tasks described above is the following:

<u>Task</u>	<u>Amount</u>
Task 1 – Project Management	\$7,275
Task 2 – Design Services	\$33,636
Task 3 – Permitting Services	\$1,850
Task 4 – Bidding Services	\$2,935
Task 5 – Construction Services	\$17,874
TOTAL	\$63,570

DATE OF ISSUANCE TO ECUA – 9-28-20

Authorization:

ECUA
"OWNER"

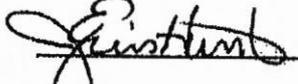
HDR ENGINEERING, INC.
"HDR"

ECUA
"OWNER"

BY: _____

NAME: J. Bruce Woody, P.E.,
M.P.A.

HDR ENGINEERING, INC.
"HDR"

BY: 

NAME: Jennifer E. Hunt,
P.E.