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Vanasse Hangen Brustlin, Inc.
1355 Peachtree St, NE
Suite 100
Atlanta, Georgia 30309

Client Authorization

☒ **New Contract**

Date: 5/6/26

☐ **Amendment No.**

Project No.: P204045.000

Project Name **Long-Term WPP Monitoring**
City of Sandersville, GA

To:	City of Sandersville	<u>Cost</u>	<u>Amendment</u>	<u>Contract</u>
	c/o Turnipseed Engineers, Inc.	<u>Estimate</u>		<u>Total</u>
	2255 Cumberland Pkwy, SE			
	Bldg. 400A	Water Quality		\$16,845
	Atlanta, GA 30339	Monitoring		
		(Lump Sum)		
	Email: dtyre@turnipseed.com			
		Biological		\$10,315
		Monitoring		
		(Lump Sum)		

As Requested By: D. Tyre

☒ Fixed Fee

☐ Time & Expenses

☐ Cost + Fixed Fee

☐ Other

This Agreement is composed of Part I, Part II. Part I includes details of the services to be performed, timing of the services, and compensation. Part II (attached) contains the Terms and Conditions of Agreement, which are proposed general terms of the engagement between City of Sandersville, hereinafter called the "Client" and Vanasse Hangen Brustlin, Inc. (VHB). Turnipseed Engineers, Inc., will act as Client's representative in this Agreement.

SCOPE OF SERVICES

Water Quality Monitoring

Water quality monitoring will be conducted at three (3) locations in 2026, during which a total of four sampling events (three dry and one wet) will be performed. The dry weather events will be collected more than 60 days apart, when possible. A dry weather event is one with no rainfall for at least 72 hours prior to sampling. A wet weather event is defined as >0.2 inch of rainfall preceded by dry conditions (no rainfall) for at least 72 hours prior to the rain event. Rainfall information will be tracked (real-time) using the USGS National Water Dashboard website for nearby sites.

Stream flow will be measured directly during dry weather events at each site. Single, discrete grab samples will be collected for all events. Sampling for the wet weather event will be conducted on the rising limb of the hydrograph, whenever possible.

Samples from all study sites will be analyzed in the laboratory (GEPD-approved) for the following parameters: COD, BOD₅, TSS, alkalinity, hardness, total phosphorus and orthophosphate, TKN, ammonia, and nitrate-nitrite. Additionally, samples from the wet event will be analyzed for dissolved metals (Cd, Cu, Pb, and Zn), and the required filtering will be done at and by the laboratory. "Clean sampling techniques" will be employed for the wet/metals sampling. In addition to laboratory analyses, the following *in situ* parameters will be measured during sample collection: air and water temperature, dissolved oxygen (DO), DO saturation (%), pH, specific conductance, salinity, and turbidity.

In addition to the aforementioned parameters, *E. coli* will be monitored over two sampling periods. **In August of 2022, the USEPA approved GDNr's revised water quality standards which included the replacement of the existing state bacterial standard for fecal coliform with that of *E. coli*.** During each sampling period, a total of four grab samples will be collected within a 30-day period. No two samples will be collected within 24 hours of another. Sampling for *E. coli* will be performed between the months of May and October to correspond to state standards. Flow measurements are not required during *E. coli* monitoring.

An electronic copy of the report will be provided that describes the methods used, results, and a discussion of results and potential problem areas. An EPD spreadsheet also will be completed and submitted. The water quality report will be provided to Turnipseed Engineers in early 2027.

Biological and Habitat Monitoring

Biological monitoring will be performed at two (2) study sites (LC and SCC) in 2026. The habitat and macroinvertebrate community assessments will be conducted under the GEPD's current SOP *Macroinvertebrate Biological Assessment of Wadeable Streams in Georgia* dated March 2007. The fish community assessments will be performed under the GDNr's Wildlife Resources Division current protocols for fish sampling *Part I: Standard Operating Procedures for Conducting Biomonitoring on Fish Communities in Wadeable Streams in Georgia*.

Sampling of the fish communities will occur between April and October, and macroinvertebrate sampling will occur between October and February, as per state protocols. Macroinvertebrate sampling and habitat assessments will be performed by a 2-person crew, while fish sampling will be conducted by a 3-person crew. Benthic macroinvertebrates will be collected via dip netting, and fishes will be sampled by electrofishing (backpacks). Macroinvertebrate samples will be preserved and analyzed in the laboratory, whereas collected fishes will be processed (enumerated and identified) primarily on-site and returned to the stream. Some voucher fish specimens may be preserved and taken to the laboratory for identification, when necessary.

Prior to biological surveys, water quality will be assessed via *in situ* measurements of the following parameters: air and water temperature, DO, DO saturation, pH, specific conductance, salinity, and turbidity.

During macroinvertebrate sampling efforts, the following water chemistry parameters should be sampled: TSS, alkalinity, hardness, ammonia, nitrate-nitrite, TKN, total phosphorus, orthophosphate, and dissolved metals (Cd, Cu, Pb, and Zn). "Clean sampling techniques" will be employed for metals sampling, and the required filtering will be done at and by the laboratory.

An electronic copy of the report will be provided that describes the methods used, results, and a discussion of results and potential problem areas. The biological monitoring report will be provided to Turnipseed Engineers by May of 2027.

ASSUMPTIONS

It is understood that VHB will perform services under the sole direction of the Client. In the performance of these services, VHB will communicate its efforts with those of other project team members.

- No access problems to site(s) (site easily accessible)

SERVICES NOT INCLUDED

The following services have not been included in this Agreement at this time:

- No meetings

Should work be required in these areas, or areas not previously described, VHB will prepare a proposal or amendment, at the Client's request, that contains the Scope of Services, fee, and schedule required to complete the additional work items.

CLIENT FURNISHED INFORMATION

VHB will rely upon the accuracy and completeness of Client-furnished information in connection with the performance of services under this Agreement.

SCHEDULE

VHB will begin performance of the above services on the date written authorization to proceed is received. The schedule is also subject to timely delivery of information promised by the Client and is exclusive of Client and local review of interim products.

COMPENSATION

VHB will perform the Scope of Services contained in this agreement on a lump sum basis. VHB will invoice for the percentage of work completed based on the major components of the project. Invoices may be rendered upon documentation of completion of the following components of the project:

- Each wet and dry water quality sampling event, with laboratory reports provided
- Each 30-day bacteriological sampling period, with laboratory reports provided
- Final water quality report, data and data spreadsheets.
- Completion of fish sampling (biological monitoring years only)
- Completion of macroinvertebrate sampling (biological monitoring years only)
- Final biological monitoring report, supporting data, and spreadsheets (biological monitoring years only)

Task	Lump Sum Fee
Water Quality Monitoring	\$16,845
Biological and Habitat Monitoring	\$10,315
TOTAL	\$27,160

Prepared By: ge/jp

Department Approval: J.K. Jenkins

Please execute this Client Authorization for VHB to proceed with the above scope of services at the stated estimated costs. No services will be provided until it is signed and returned to VHB.

☒ Subject to attached terms & conditions.

☐ Subject to terms & conditions in our original agreement dated

**Vanasse Hangen Brustlin, Inc.
Authorization**

JKJ By _____
 Jay K. Jenkins
 Title Operations Manager, Atlanta
 Date _____

Client Authorization (Please sign original and return)

By _____
 Title _____
 Date _____