



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
MATERIALS & TESTS DIVISION  
GEOTECHNICAL ENGINEERING SECTION  
6601 CENTENNIAL BOULEVARD  
NASHVILLE, TENNESSEE 37243-0360**

January 15, 2021

Interested laboratory testing firms are invited to provide a quotation and requested information for a statewide contract beginning on or about March 1, 2021, to conduct acid-base accounting geochemical testing on soil and/or rock samples for the Tennessee Department of Transportation (TDOT). Contracts will be awarded to the three (3) qualified laboratories submitting the lowest total evaluation cost. A total of three (3) separate contracts will be awarded. Each contract will have a term of four (4) years. Each contract will have an initial ceiling of \$200,000. Contracts may be amended to increase the contract ceiling, but in no event shall the maximum contract amount exceed \$300,000.

The following acid-base accounting geochemical tests shall be required:

- Paste pH: EPA 600/2-78-054 or ASTM D4972-13
- Neutralization potential (NP): EPA 600/2-78-054
- Acidity Potential from T.S. (AP): EPA 600/2-78-054
- Calcium Carbonate Def/Sur- Net Neutralization potential (NNP): EPA 600/2-78-054
- Fizz: EPA 600/2-78-054
- Total Sulfur: ASTM D4239-14
- Pyritic Sulfur: ASTM D2492-02 (2012)

**NOTE:** For requests on projects currently under construction, or as otherwise specified in work orders, there will be a **mandatory** thirty-six (36) hour turnaround time to provide reports. Other requests will require two (2) week turnaround time to provide reports.

To be considered eligible for award of a contract, the following information will be required, and the identified criteria must be met:

- Submit brief resumes/biographies of main personnel expected to participate in the testing and quality control processes.

- Laboratory operations shall be overseen by a person possessing a minimum of four (4) years experience performing laboratory tests similar to those required herein.
- List current applicable accreditations the laboratory has achieved.
- Identify business address of laboratory.
- List current contact information for representative client references for which same or similar testing has been performed.

Samples will be shipped through private courier or hand delivered in accordance with the terms of each work order. The testing is expected to be completed promptly upon sample receipt, as provided in each work order. Please see the attached sample report format for additional information.

Individual work orders will be issued on the basis of price, consultant availability to perform the work, consultant proximity to the project location, and past performance on prior work orders issued under the contract.

Please provide the above information and the completed Price Evaluation Form to Mr. Robert Jowers at [Robert.Jowers@tn.gov](mailto:Robert.Jowers@tn.gov) by or before 4:30 p.m. CDT (5:30 EDT) on January 29, 2021. Once the information is received and evaluated, firms will be contacted regarding the selected laboratories.

Sincerely,



Robert Jowers P.E.  
Civil Engineering Manager 2  
Geotechnical Engineering Section

## SAMPLE REPORT FORMAT

SR 123  
 CNM  
 789  
 Putnam  
 County  
 PIN  
 #012345  
 6

		Paste pH	Neutralization Potential (NP)	Potential Acidity (AP)	CaCO <sub>3</sub> (Def)/Sur Net Neutralization Potential (NNP) (NP- AP)	Neutraliz ation Potential Ratio (NPR) (NP/AP)	Fizz	Total Sulfur *	Pyritic Sulfur
			**	**	**			%	%
Lab ID	Sample ID	EPA 600/2-78- 054 or ASTM 4972	EPA 600/2- 78-054	EPA 600/2- 78-054	EPA 600/2-78- 054			ASTM D4239	ASTM D2492-02 (2012)
K-3871	Sample# 1 Station122+00 CL Ref 38' Left 0'-10';	5.32	0.275	0.131	0.144	2.10	none	0.004 2	<0.0063
K-3872	Sample# 2 Station122+00 CL Ref 12' Right 0'-5'	4.80	0.000	0.228	-0.228	0	none	0.007 3	0.0122
K-3873	Sample# 3 Station 121+50 CL Ref CL 0'-5'	4.90	0.540	0.244	0.296	2.21	none	0.007 8	0.0075
K-3874	Sample# 4 Station 121+50 CL Ref 60' Left 0'-10'	5.33	1.131	0.22	0.912	5.14	none	0.007 0	<0.0070
K-3875	Sample# 5 Station 120+00 CL Ref 68' Left 0'-5'	5.02	0.590	0.23	0.359	2.57	none	0.007 4	0.0086
K-3876	Sample# 4 Station 120+00 CL Ref 25' Right 0'-5'	4.81	0.000	0.22	-0.222	0	none	0.007 1	0.0089

\*\* Tons of  
 CaCO<sub>3</sub> per  
 1000 tons of  
 material

\* The quantitation limit for sulfur was 0.010%

# PRICE EVALUATION FORM

RESPONDENT SIGNATURE:

PRINTED NAME & TITLE:

DATE:

RESPONDENT LEGAL ENTITY NAME:

Unit Item Description

Proposed Cost (per Unit)\*

State Use ONLY

Test Method Name

Effective Date - Dec. 31, 2021

Jan. 1, 2022 - Dec. 31, 2022

Jan. 1, 2023 - Dec. 31, 2023

Jan. 1, 2024 - End of Contract

Average

Evaluation Factor

Evaluation Cost  
(average X factor)

**PYRITE TESTING WITH 36-HOUR TURNAROUND:**  
Preparation of samples for testing; Paste pH: EPA 600/2-78-054 or ASTM D4972-13; Neutralization potential (NP): EPA 600/2-78-054, or modified Skousen 1997 if requested; Acidity Potential from T.S. (AP): EPA 600/2-78-054; Calcium Carbonate Def/Sur- Net Neutralization potential (NNP): EPA 600/2-78-054; Fizz: EPA600/2-78-054; Total Sulfur: ASTM D4239-14; Pyritic Sulfur: ASTM D2492-02 (2012)

3.00

**PYRITE TESTING WITH TWO-WEEK TURNAROUND:**  
Preparation of samples for testing; Paste pH: EPA 600/2-78-054 or ASTM D4972-13; Neutralization potential (NP): EPA 600/2-78-054, or modified Skousen 1997 if requested; Acidity Potential from T.S. (AP): EPA 600/2-78-054; Calcium Carbonate Def/Sur- Net Neutralization potential (NNP): EPA 600/2-78-054; Fizz: EPA600/2-78-054; Total Sulfur: ASTM D4239-14; Pyritic Sulfur: ASTM D2492-02 (2012)

1.00

**TOTAL EVALUATION COST AMOUNT** (sum of evaluation costs above):

The Department will use this sum and the formula below to calculate the cost proposal. Numbers rounded to two (2) places to the right of the decimal point will be standard for calculations. \* The "proposed cost" shall be the price for "EACH" sample request, to include all listed tests completed in accordance with all applicable test methods.