

PRE-BID MEETING SUMMARY

Title: Buttermilk Grouting DEL2515208029 E008-340

Location: Project Site

Date & Time: Friday September 11, 2026 at 11 am. (EST)

AGENDA DETAILS

1. **THE INFORMATION CONTAINED IN THIS SUMMARY IS INTENDED TO CORRECT ANY COMPOSITION ERRORS AND SERVE TO ELIMINATE ANY MISUNDERSTANDING OF THE BASIC PLANS AND SPECIFICATIONS THE SAME AS IF BEING ORIGINALLY INCORPORATED THEREIN.**
2. **DNR STAFF IN ATTENDANCE**
 - a. Brandy Gibson, Operations Coordinator
 - b. Travis Dunn, Chief Project Manager
 - c. Jay Akes, Project Manager/Engineer
 - d. Dan Hillman, Environmental Specialist
 - e. Shawn Clifford, Chief Engineer
3. **OTHER ATTENDEES**
 - a. See sign-in sheet
4. **BID INFORMATION**
 - a. The plans and specifications are available at [DNR: Engineering: DNR Projects Bidding Information](http://www.in.gov/dnr/engineering/bidding/). (www.in.gov/dnr/engineering/bidding/).
 - b. The bids are due in Indianapolis, as described in the NTB.
 - c. **The bid opening is scheduled for Thursday, October 8, 2026, at 2:00 PM. Bids must be received by 1:30. Please see the NTB for instructions on submitting you bid.**
 - d. This project has an estimate of over \$150,000; **pre-qualification by Public Works in 1799.13 Mine Grouting is required.**
 - e. Pre-Qualification questions can be made to Tracy Cross with the Department of Administration, Public Works Division, at (317)232-3255.

5. CONTRACT INFORMATION

- a. The contract will be funded by utilizing dedicated federal AML grant reimbursable funds.
- b. Base bid quantities are identified in the specifications. The Schedule of Supplemental Unit Price Sheet must be submitted with the bid.
- c. The **2024 AML Standard Specifications** are located on the AML Construction page: <https://www.in.gov/dnr/reclamation/abandoned-mines/aml-contractors-and-bidding/>.
- d. A contract and purchase order **may** be in place withing **8-12 weeks from the bid date (late December/early January)**.
- e. The contractor must schedule a pre-construction meeting with the Division of Reclamation within 10 calendar days of the date on the notification to proceed prior to starting construction.
- f. The **Construction Period is 240 days** after the contract is awarded.
- g. There is a **penalty assessment for late completion** at a rate of **\$250.00 per calendar day**.
- h. The **contractor is to include a \$100,000 remediation allowance** in the base bid for owner directed charges. There will be a line item on the schedule of values.
- ~~i. Minority and Women Business goals have been established and are identified in the NTB.~~
- j. AVS Checks will be performed on the low bidder to ensure no negative history in the federal mine database (bond forfeitures and outstanding violations).
- k. Davis Bacon prevailing wage is required on this project.
- l. Build America Buy America is required on this project.
- m. Road Bond: contractor should contact the county to discuss. (See project manager comments below for additional details on road bond).

6. BRIEF PROJECT DESCRIPTION

The work consists of stabilizing underground mined areas (average 60 ft. deep with an average 5.00 ft seam height) highly susceptible to subsidence within a developed area south of the town of Winslow in Pike County, Indiana consisting of utilizing 104-6" grout injection holes and 15,921 cubic yards of flyash, sand, and cement grout mixture.

7. GENERAL COMMENTS

Project Manager Comments:

Water:

Can we utilize the water from Whitney Pit or Arm Pit?

If the contractor decides to set up a batch plant, the contractor may utilize Whitney Pit or Arm Pit for water supply needs.

Boat launches must always remain open and accessible to the public.

Road Use:

Preference: Deliveries may utilize either side of Royalty Road.

Bonding: The contractor will need to bond all of Royalty Road, the portion of the CR. 475 S. (NO 7 road) up to CR 175 E (Buttermilk Road) and the portion of Buttermilk Road in the project.

Current bond rates are: \$275,000/Blacktop mile

Are there Freeze/Thaw restrictions:

Yes, this contract will likely be signed in January. However, due to freeze/thaw restrictions that will likely be placed on the road by the Pike County Highway Department, the start date for construction will be May 1, 2027. If weather conditions allow for an earlier start date, the contractor will need to seek approval from the project manager/Engineer. The DNR will work with the contractor to request a time extension from public works to allow for project completion.

Project Signage:

The contractor will put up signage at the north and south end of Buttermilk Road that indicates Road Construction-local traffic only.

8. QUESTIONS & COMMENTS

We have been asked to share the bid tab and unit price sheet for the last grouting project we completed. Please see that information below.

SCHEDULE OF SUPPLEMENTAL UNIT PRICES
SITE 2333 Blackburn Road Grouting
PROJECT NO. E008-341

Unknown site conditions or design changes will have an impact on the amount of labor and materials required to complete this contract according to the plans and specifications. Therefore, the contractor shall prepare his lump sum bid based on the estimated dimensions or quantities provided in the plans and specifications. The contractor agrees to accept the following unit prices to adjust the amount of the contract, if actual site conditions or later changes in the design require quantities more than or less than those estimated. These unit prices shall be submitted with the lump sum bid.

1.	Mobilization & Demobilization (Limited to 8%).....	\$ 183,820.00	/LS
2.	Site Prep, Repair, Engineering (Limited to 10%).....	\$ 229,780.00	/LS
3.	Quality Control (Limited to 3%).....	\$ 68,930.00	/LS
4.	Private Locate Service.....	\$ 101.00	/HRS
5.	Temporary Check Dam, Straw Bales.....	\$ 8.00	/EACH
6.	Temporary Silt Fence.....	\$ 4.00	/LFT
7.	Drilling and Casing, Vertical Injection Holes.....	\$ 19.00	/LFT
8.	Drilling and Casing, Angled Injection Holes.....	\$ 24.00	/LFT
9.	Injection Material, Grout Mix.....	\$ 155.00	/CYS
10.	Injection Material, High Slump Mix.....	\$ 149.00	/CYS
11.	Injection Material, Concrete Mix.....	\$ 240.00	/CYS
12.	Accelerator.....	\$ 4.00	/LBS
13.	Fine Aggregate.....	\$ 60.00	/TONS
14.	Coarse Aggregate.....	\$ 60.00	/TONS
15.	Confirmation Drilling.....	\$ 56.00	/LFT
16.	Borehole Photography.....	\$ 100.00	/HRS
17.	Revegetation.....	\$ 1,000.00	/ACRE

Req #:		Alt. #1		Alt. #2	Alt. #3	Alt. #4	Alt. #5	Alt. #6	Notes
PROJECT NO: DEL2315208539 - E008341									
Project Location: PIKE COUNTY, IN									
Project Desc: BLACKBURN ROAD GROUTING									
CATEGORIES:									
DATE: 11/21/2023 Time: 2:31 PM									
BIDDER		Alt. #1		Alt. #2	Alt. #3	Alt. #4			
Bid Amount									
1	Richard Goettle Inc	\$5,054,265.40							
2	Howard Concrete Pumping Co Inc	\$2,298,290.00							
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
BID CLERK: Tracy Cross <i>Tracy L. Cross</i>		DNR Representative: Jana Montgomery		Estimate: Over / Under					
State Form 3803096		Project Mgr.: <i>Jana Montgomery</i>		Designer:					
CAPW Form 110A									

Drilling Specs are provided on the bid page.

Q. How should the holes be drilled?

A. Typically holes are drilled vertically, if utilities are in the way, the hole can be angle drilled. The size of the hole and casing requirements are noted in the special provisions.

Q. Will there be a specific number of holes that can be drilled each day?
Multiple holes can be drilled each day but, only 50 yards of grouting mixture can be put in each hole per day.

Please see the bid documents for drilling specifications.

The drilling logs are provided on page 7 of this document.

9. ADDENDUM ITEMS

10. ADDITIONAL QUESTIONS

Questions after the pre-bid meeting will be received via email at cgibson@dnr.in.gov by the close of business on Friday September 18, 2024.

Any Clarification points will be provided on the [DNR: Engineering: DNR Projects Bidding Information](#) page no later than the close of business on Friday September 25, 2026.

CBNG 1/23/2024

END



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Fax (317) 849-4278

TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-01
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1130885.82
Indiana EASTING 2906195.677

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/22/24 Hammer Wt. 140 lbs.
Date Completed 3/22/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
SURFACE ELEVATION 471.41													
2 in Topsoil		471.2	0.2										
Brown, SILTY CLAY (CL) (blank drilled)				5									
				10									
Brown, SANDSTONE (blank drilled to 23.5 ft)		462.9	8.5	15									
- brown and orange between 14 ft and 19 ft				20									
- gray below 19 ft				25									
				30									
				35									
		431.4	40.0										

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion None ft.
▼ After -- hours -- ft.
⚠ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
CA - Casing Advancer
MD - Mud Drilling
HA - Hand Auger



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(continued)													
Brown, SANDSTONE					5	RC							RC-5: Recovery = 100% RQD = 74%
				45	6	RC							RC-6: Recovery = 100% RQD = 90%
				50	7	RC							RC-7: Recovery = 100% RQD =
				55	8	RC							RC-8: Recovery = 100% RQD = 52%
- with coal streaks between 60.5 ft and 65.5 ft				60	9	RC							RC-9: Recovery = 100% RQD = 36%
				65	10	RC							RC-10: Recovery = 100% RQD = 88%
				70	11	RC							RC-11: Recovery = 100% RQD = 44%
				75	12	RC							RC-12: Recovery = 100% RQD = 8%
		392.9	78.5										
Gray, SHALE with coal fragments		391.4	80.0										

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion None ft.
▼ After -- hours -- ft.
⚠ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
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MD - Mud Drilling
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-01
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PROJECT LOCATION Pike County, NORTHING 1130885.82
Indiana EASTING 2906195.677

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/22/24 Hammer Wt. 140 lbs.
Date Completed 3/22/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-tsf	Remarks
(continued)												
Gray, SHALE - with coal fragments between 80 ft and 80.5 ft					13	RC						RC-13: Recovery = 100% RQD = 63%
Bottom of Test Boring at 84.5 ft		386.9	84.5									Grouted boring from 84.5 ft to surface.

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion None ft.
▼ After -- hours -- ft.
⊠ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-02
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1131366.717
Indiana EASTING 2906206.658

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/25/24 Hammer Wt. 140 lbs.
Date Completed 3/25/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
SURFACE ELEVATION 446.75													
Brown, SILTY CLAY (CL)				5									
- moist below 6.0 ft													
Gray, SANDSTONE		436.8	10.0	10									
Gray, SHALE		430.9	15.9	15	1	RC							RC-1: Recovery = 91% RQD = 36%
Gray, SANDSTONE		430.7	16.1		2	RC							RC-2: Recovery = 94% RQD = 46%
				20	3	RC							RC-3: Recovery = 100% RQD = 80%
				25	4	RC							RC-4: Recovery = 84% RQD = 26%
				30	5	RC							RC-5: Recovery = 94% RQD = 24%
				35	6	RC							RC-6: Recovery = 94% RQD = 58% Lost water at 37.7 ft.
- with shale streaks at 37.2 ft		409.0	37.8										
Void		408.7	38.1										

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion None ft.
▼ After -- hours -- ft.
⚠ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
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MD - Mud Drilling
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-02
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PROJECT LOCATION Pike County, NORTHING 1131366.717
Indiana EASTING 2906206.658

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/25/24 Hammer Wt. 140 lbs.
Date Completed 3/25/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
(continued)													
Black, SHALE - dark gray between 38.8 ft and 40.7 ft - gray and silty below 40.7 ft				45	7	RC							RC-7: Recovery = 100% RQD = 72%
				50	8	RC							RC-8: Recovery = 100% RQD = 60%
		394.1	52.7	55	9	RC							RC-9: Recovery = 91% RQD = 50%
Void													
Bottom of Test Boring at 58.7 ft		388.1	58.7										Grouted boring from 35 ft to surface.

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
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CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion None ft.
▼ After -- hours -- ft.
⚠ Cave Depth -- ft.

Boring Method

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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-03
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1132162.188
Indiana EASTING 2906234.62

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/21/24 Hammer Wt. 140 lbs.
Date Completed 3/21/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
SURFACE ELEVATION 454.84													
8 in Topsoil		454.1	0.7										
Brown, SILTY CLAY (CL) (blank drilled)													
				5									
		446.3	8.5		1	RC							
Brown, SANDSTONE				10									
					2	RC							
				15									
- brown and orange between 16 ft and 18 ft					3	RC							
- gray below 18 ft				20									
					4	RC							
				25									
					5	RC							
				30									
		420.8	34.0		6	RC							
COAL		420.3	34.5										
Gray, SANDSTONE				35									
- coal streaks below 38 ft					7	RC							
		414.8	40.0										

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion 3.0 ft.
▼ After -- hours -- ft.
⚡ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-03
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1132162.188
Indiana EASTING 2906234.62

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/21/24 Hammer Wt. 140 lbs.
Date Completed 3/21/24 Hammer Drop 30 in.
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Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
(continued)													
Gray, SANDSTONE with coal streaks		411.3	43.5		8	RC							
Dark gray to black, SHALE				45									
COAL		405.8	49.0	50	9	RC							
Gray, UNDERCLAY		400.3	54.5	55	10	RC							
Bottom of Test Boring at 58.0 ft		396.8	58.0										Grouted boring from 58 ft to surface.

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion 3.0 ft.
▼ After -- hours -- ft.
⊠ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-04
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1132774.099
Indiana EASTING 2906263.897

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/20/24 Hammer Wt. 140 lbs.
Date Completed 3/21/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
SURFACE ELEVATION 459.11													
10 in Topsoil		458.3	0.8										
Brown, SILTY CLAY (CL) (blank drilled)				5									
				10									
Gray, weathered, SHALE		447.1	12.0	15	1	RC							
				20	2	RC							
- fresh and sandy below 17 ft				25	3	RC							
				30	4	RC							
				35	5	RC							
					6	RC							Water return between 34 ft and 35 ft. Black water between 35 ft and 36 ft.
		419.1	40.0										

Sample Type

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ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion None ft.
▼ After -- hours -- ft.
⚠ Cave Depth -- ft.

Boring Method

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MD - Mud Drilling
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-04
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PROJECT LOCATION Pike County, NORTHING 1132774.099
Indiana EASTING 2906263.897

DRILLING and SAMPLING INFORMATION

TEST DATA

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(continued)												
Gray, SANDY SHALE					7	RC						
				45								Lost water at 45.5 ft
		410.1	49.0		8	RC						Tool drop between 47.5 ft and 48 ft
Void				50								
		406.6	52.5		9	RC						
Gray, SANDY SHALE												
		403.6	55.5	55								
Bottom of Test Boring at 55.5 ft												Grouted boring from 35 ft to surface.

Sample Type

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Depth to Groundwater

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▽ At Completion None ft.
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-05
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1133251.9
Indiana EASTING 2906283.221

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started	3/20/24	Hammer Wt.	140	lbs.
Date Completed	3/20/24	Hammer Drop	30	in.
Drill Foreman	G. Lauber	Spoon Sampler OD	2.0	in.
Inspector	G. Lauber	Rock Core Dia.	--	in.
Boring Method	HSA	Shelby Tube OD	--	in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
SURFACE ELEVATION 438.7													
	10 in Topsoil	437.9	0.8										
	Blank drilled to 13.5 ft												
	Gray, SHALE	425.2	13.5										
	COAL	421.7	17.0										
	Gray, weathered, SHALE	420.2	18.5		1	RC							RC-1: Recovery = 67% RQD = 0%
					2	RC							RC-2: Recovery = 100% RQD = 54%
					3	RC							RC-3: Recovery = 100% RQD = 90%
	COAL	406.2	32.5		4	RC							RC-4: Recovery = 100% RQD = 8%
	Gray, SHALE	401.2	37.5		5	RC							RC-5: Recovery = 100% RQD = 44%
		398.7	40.0										

Sample Type SS - Driven Split Spoon ST - Pressed Shelby Tube CA - Continuous Flight Auger RC - Rock Core CU - Cuttings CT - Continuous Tube	Depth to Groundwater ● Noted on Drilling Tools <u>None</u> ft. ▽ At Completion <u>1.0</u> ft. ▼ After <u>--</u> hours <u>--</u> ft. ⚠ Cave Depth <u>--</u> ft.	Boring Method HSA - Hollow Stem Augers CFA - Continuous Flight Augers CA - Casing Advancer MD - Mud Drilling HA - Hand Auger
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TEST BORING LOG

CLIENT Department of Natural Resources BORING # B-05
PROJECT NAME Buttermilk Road JOB # 170DR00100
PROJECT LOCATION Pike County, NORTHING 1133251.9
Indiana EASTING 2906283.221

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 3/20/24 Hammer Wt. 140 lbs.
Date Completed 3/20/24 Hammer Drop 30 in.
Drill Foreman G. Lauber Spoon Sampler OD 2.0 in.
Inspector G. Lauber Rock Core Dia. -- in.
Boring Method HSA Shelby Tube OD -- in.

SOIL CLASSIFICATION		Stratum Elevation	Stratum Depth, ft	Depth Scale, ft	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, Blows per 6 in. Increments	Moisture Content, %	Pocket Penetrometer PP-1sf	Remarks
(continued)												
Gray, SHALE		397.2	41.5									
Bottom of Test Boring at 41.5 ft												Grouted boring from 41.5 ft to surface.

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Depth to Groundwater

● Noted on Drilling Tools None ft.
▽ At Completion 1.0 ft.
▼ After -- hours -- ft.
⊠ Cave Depth -- ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
CA - Casing Advancer
MD - Mud Drilling
HA - Hand Auger

Friday, September 11, 2026
11:00 AM
Buttermilk Grouting Site 1820
Project No. DEL2515208029 E008-340
Pike County, IN

Name	Company Name	Phone No.	Email address
Brandy Gibson	DNR	317-416-0059	cgibson@dnr.in.gov
Dan Hillman	DNR	812-452-8444	dan.hillman@dnr.in.gov
Jay Alkes	DNR	812-699-3990	Rakes@dnr.in.gov
David McIlmore	SUN ENERGY GROUP	270-314-9720	DMCILMORE@SUNENERGYGROUP.NET
Shawn Clifford	DNR	(317) 409-9687	self@dnr.in.gov
Bruce Baillie	Howard Concrete	(412) 559-5044	bbaillie@howardconcretepumping.com
Travis Dunn	DNR	812-699-2016	tdunn@dnr.in.gov
Court Schue	Sun Energy Group	812-499-9606	sschue@sunenergygroup.net
Kr Freudenbers	Howard Concrete	812-215-0038	Kr@FreudenbersContracting.com