

2908 Morrison Ave.
Suite 3
Bismarck, ND 58504
Phone: 701-255-7180

Client:

North Dakota Department of Trust Lands
1707 North 9th Street
Bismarck, ND 58501

Project:

B2306100
Williams County Gradations
48.59768, -103.62364
Appam, ND 58830

Sample Information

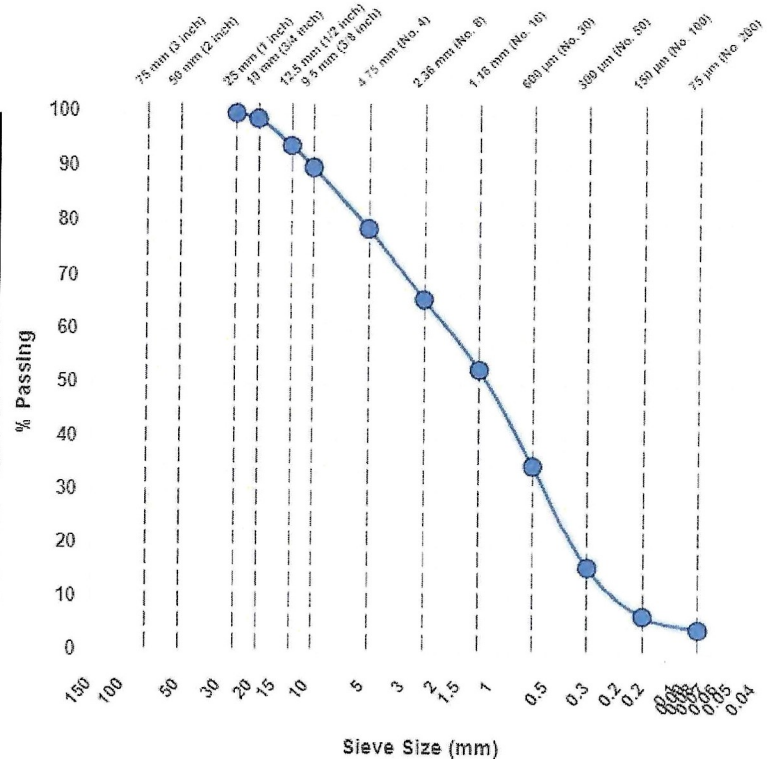
Sample Number: 541290
Sampling Method: Stockpile ASTM D75/AASHTO T2
Location: Plant Stockpile
Location Details: SSW Stockpile
Specification: NDDOT 816 Class 8 Surface Aggregate
Sample Date: 07/15/2023
Received Date: 07/17/2023
Tested Date: 08/04/2023

Sampled By: Ewing, Jonathan
Material: Granular Material
Lab: 200 40th Ave NE, Minot, ND
Tested By: Shattuck, Courtney

Laboratory Data

Sieve Size	Passing %	Specification
25 mm (1 inch)	100	
19 mm (3/4 inch)	99	
12.5 mm (1/2 inch)	94	
9.5 mm (3/8 inch)	90	
4.75 mm (No. 4)	79	35 - 80
2.36 mm (No. 8)	66	
1.18 mm (No. 16)	53	
600 µm (No. 30)	35	
300 µm (No. 50)	16	
150 µm (No. 100)	7	
75 µm (No. 200)	4.6	

Test Method: Composite Sieving
Split At What Size: 4.75 mm (No. 4)
Fineness Modulus: 3.55



General

Results: Pass - The above test results meet the referenced specifications.

Courtney Shattuck

Uncertainty was not taken into account in determining whether the test results meet the requirements. The results included in this report relate only to the items inspected or tested. Sampled per project specifications or industry standards. Also, this report is for the exclusive use of the addressed parties. We assume no responsibility to other parties regarding this report. The information indicated in this report shall not be reproduced, except in full, without prior written approval.

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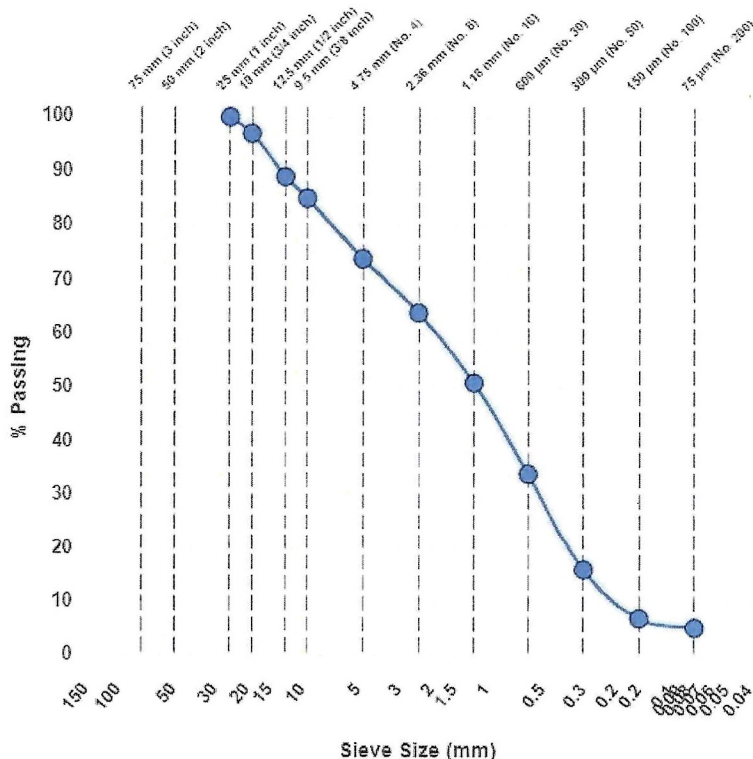
Sample Information

Sample Number: 541289
Sampling Method: Stockpile ASTM D75/AASHTO T2
Location: Plant Stockpile
Location Details: ENE Stockpile
Specification: NDDOT 816 Class 8 Surface Aggregate
Sample Date: 07/15/2023
Received Date: 07/17/2023
Tested Date: 08/04/2023
Sampled By: Ewing, Jonathan
Material: Granular Material
Lab: 200 40th Ave NE, Minot, ND
Tested By: Shattuck, Courtney

Laboratory Data

Sieve Size	Passing %	Specification
25 mm (1 inch)	100	
19 mm (3/4 inch)	97	
12.5 mm (1/2 inch)	89	
9.5 mm (3/8 inch)	85	
4.75 mm (No. 4)	74	35 - 80
2.36 mm (No. 8)	64	
1.18 mm (No. 16)	51	
600 µm (No. 30)	34	
300 µm (No. 50)	16	
150 µm (No. 100)	7	
75 µm (No. 200)	5.3	

Test Method: Composite Sieving
Split At What Size: 4.75 mm (No. 4)
Fineness Modulus: 3.72



General

Results: Pass - The above test results meet the referenced specifications.

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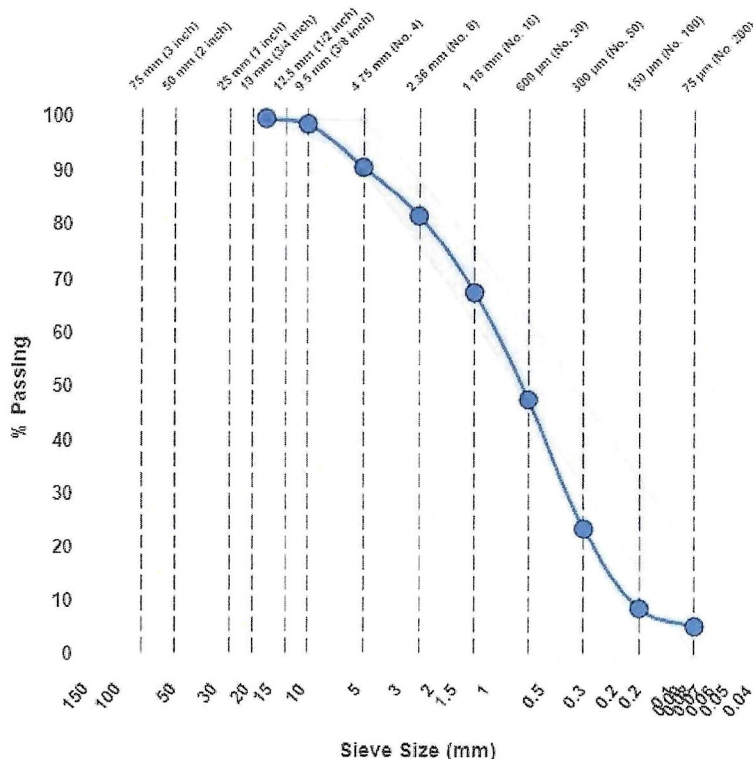
Sample Information

Sample Number:	541286	Sampled By:	Ewing, Jonathan
Sampling Method:	Stockpile ASTM D75/AASHTO T2		
Location:	Plant Stockpile		
Location Details:	West Stockpile		
Specification:	NDDOT 816 Class 44 Aggregate		
Sample Date:	07/15/2023	Material:	Granular Material
Received Date:	07/17/2023	Lab:	200 40th Ave NE, Minot, ND
Tested Date:	08/04/2023	Tested By:	Shattuck, Courtney

Laboratory Data

Sieve Size	Passing %	Specification
16 mm (5/8 inch)	100	100
9.5 mm (3/8 inch)	99	
4.75 mm (No. 4)	91	90 - 100
2.36 mm (No. 8)	82	
1.18 mm (No. 16)	68	
600 µm (No. 30)	48	
300 µm (No. 50)	24	
150 µm (No. 100)	9	
75 µm (No. 200)	5.7	0 - 20

Test Method: Composite Sieving
Split At What Size: 4.75 mm (No. 4)
Fineness Modulus: 2.79



General

Results: Pass - The above test results meet the referenced specifications.

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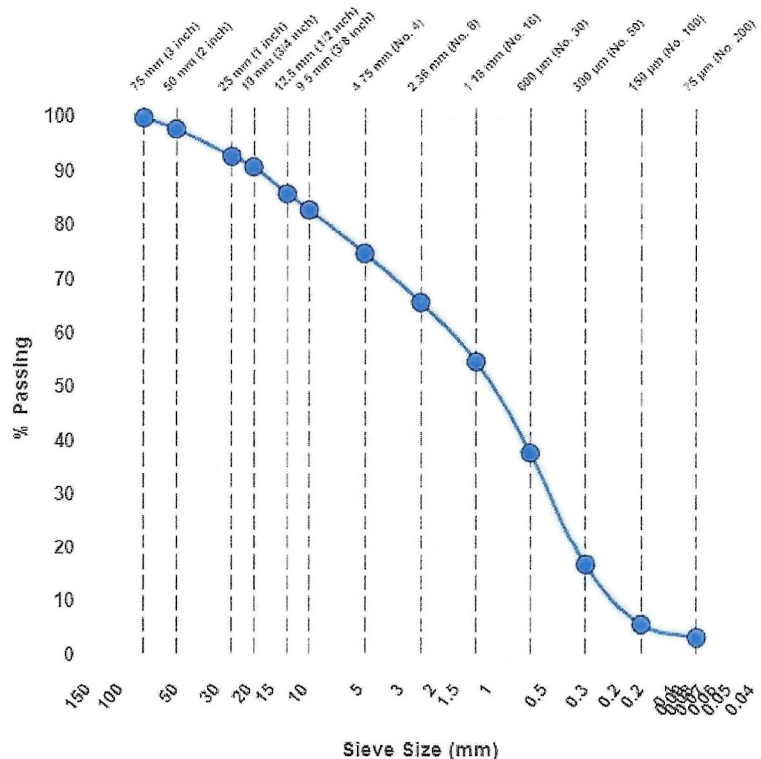
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Sample Information

Sample Number:	541288	Sampled By:	Ewing, Jonathan
Sampling Method:	Stockpile ASTM D75/AASHTO T2		
Location:	Plant Stockpile		
Location Details:	NNW Stockpile		
Specification:			
Sample Date:	07/15/2023	Material:	Granular Material
Received Date:	07/17/2023	Lab:	200 40th Ave NE, Minot, ND
Tested Date:	08/04/2023	Tested By:	Shattuck, Courtney

Laboratory Data

Sieve Size	Passing %	Specification
75 mm (3 inch)	100	
50 mm (2 inch)	98	
25 mm (1 inch)	93	
19 mm (3/4 inch)	91	
12.5 mm (1/2 inch)	86	
9.5 mm (3/8 inch)	83	
4.75 mm (No. 4)	75	
2.36 mm (No. 8)	66	
1.18 mm (No. 16)	55	
600 µm (No. 30)	38	
300 µm (No. 50)	17	
150 µm (No. 100)	6	
75 µm (No. 200)	3.6	



Test Method: Composite Sieving
Split At What Size: 4.75 mm (No. 4)
Fineness Modulus: 3.69

General

Results: The test is for informational purposes.
Remarks: Meets no ND DOT Classification - Poorly Graded Gravel (GP)

Courtney Shattuck