



Client: Menzel Lake Gravel
Address: P.O. Box 1494
Marysville, WA 98270
Attn: Rob Hild
Revised On: _____

Date: July 1, 2025
Project: Q.C. - Menzel Lake Gravel - 2025
Project #: 25B026
Sample #: B25-0404
Date sampled: June 27, 2025
Control No: 7012025

As requested and authorized by the Client, MTC has performed the following test(s) on the sample number referenced above. The testing was performed in accordance with current, applicable AASHTO, ASTM, and/or WSDOT standards, which are referenced on the correlating test report pages. The results obtained in our laboratory are as detailed below and/or on the following pages:

Test(s) Performed:	Test Results	Test(s) Performed:	Test Results
X Sieve Analysis	Out on the #4 sieve	Sulfate Soundness	
Proctor		Bulk Density & Voids	
Sand Equivalent		WSDOT Degradation	
Fracture Count		LA Abrasion	
Moisture Content		Cation Exchange Capacity	
Specific Gravity, Coarse			
Specific Gravity, Fine			
Hydrometer Analysis			
Atterberg Limits			

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call the number below and ask to speak with your Project Manager or the Laboratory Manager.

A handwritten signature in black ink that reads 'Alex Eifrig'.

Respectfully Submitted,
Alex Eifrig
WABO Supervising Laboratory Technician

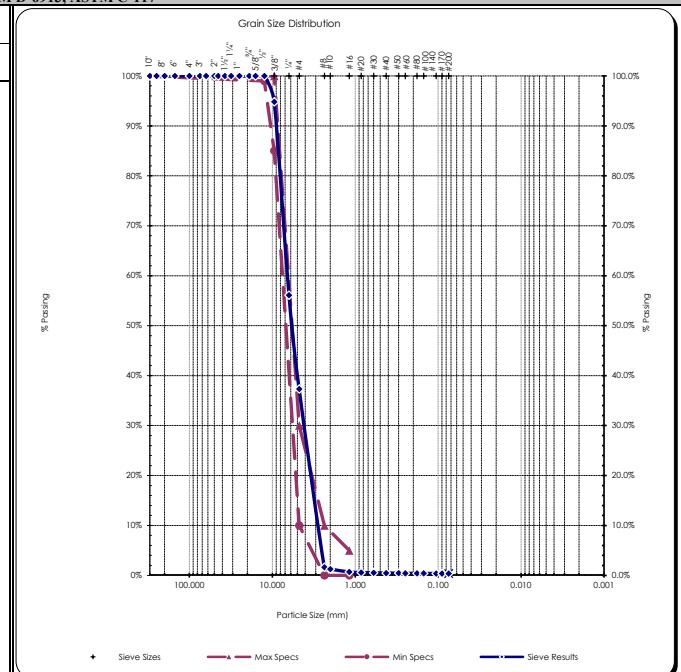
Sieve Report

Project: Q.C. - Menzel Lake Gravel - 2025 Project #: 25B026 Client: Menzel Lake Gravel Source: Menzel Lake Gravel Pit / Washed pea gravel material Sample#: B25-0404		Date Received: 27-Jun-25 Sampled By: Client Date Tested: 30-Jun-25 Tested By: Z. Romney Control No.: 7012025	Unified Soil Classification System, ASTM D-2487 GP, Poorly graded Gravel with Sand Sample Color: Gray
Method(s) ASTM D-2216, ASTM D-2419, ASTM D-4318, ASTM D-5281			
Specifications 2024 WSDOT 9-03.1(4)C Grading #8 Sample Meets Specs ? No			
			$D_{(5)} = 2.585$ mm % Gravel = 62.7% Coeff. of Curvature, $C_C = 0.94$ $D_{(10)} = 2.920$ mm % Sand = 37.0% Coeff. of Uniformity, $C_U = 2.27$ $D_{(30)} = 3.255$ mm % Silt & Clay = 0.4% Fineness Modulus = 5.64 $D_{(50)} = 4.259$ mm Liquid Limit = n/a Plastic Limit = n/a $D_{(60)} = 5.797$ mm Plasticity Index = n/a Moisture %, as sampled = n/a $D_{(60)} = 6.623$ mm Sand Equivalent = n/a Req'd Sand Equivalent = n/a $D_{(90)} = 9.102$ mm Fracture %, 1 Face = n/a Req'd Fracture %, 1 Face = n/a Dust Ratio = 36/47 Fracture %, 2+ Faces = n/a Req'd Fracture %, 2+ Faces = n/a
Method(s) ASTM C-136, ASTM D-6913, ASTM C-117			
Sieve Size US Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max Specs Min
12.00"	300.00	100%	
10.00"	250.00	100%	
8.00"	200.00	100%	
6.00"	150.00	100%	
4.00"	100.00	100%	
3.00"	75.00	100%	
2.50"	63.00	100%	
2.00"	50.00	100%	
1.75"	45.00	100%	
1.50"	37.50	100%	
1.25"	31.50	100%	
1.00"	25.00	100%	
3/4"	19.00	100%	
5/8"	16.00	100%	
1/2"	12.50	100%	100.0%
3/8"	9.50	95%	90.0%
1/4"	6.30	56%	50.0%
#4	4.75	37.3%	30.0%
#8	2.36	1.6%	2%
#10	2.00	1.3%	1%
#16	1.18	0.7%	1%
#20	0.850	1%	5.0%
#30	0.600	0.5%	0.0%
#40	0.425	0.5%	
#50	0.300	0.4%	
#60	0.250	0%	
#80	0.180	0%	
#100	0.150	0.4%	
#140	0.106	0%	
#170	0.090	0%	
#200	0.075	0.4%	0.4%

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All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Comments: **Sample fails to meet gradation specification requirements, has too much material passing on the #4 sieve.**



Alex Eifrig

Reviewed by:

Alex Eifrig

WABO Supervising Laboratory Technician