



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

Date: April 16, 2025
Project: Q.C. - Menzel Lake Gravel - 2025
Project #: 25B026
Sample #: B25-0254
Date sampled: April 14, 2025
Control No: 4162025

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

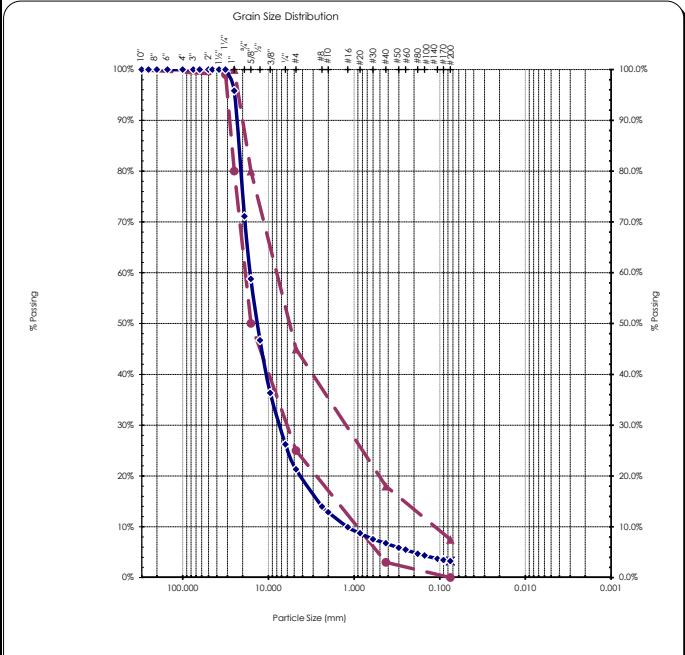
Project: Q.C. - Menzel Lake Gravel - 2025 Project #: 25B026 Client: Menzel Lake Gravel Source: Menzel Lake Gravel Pit / CSBC material Sample#: B25-0254		Date Received: 14-Apr-25 Sampled By: Client Date Tested: 15-Apr-25 Tested By: R. Bohler Control No.: 4162025	Unified Soil Classification System, ASTM-2487 GW, Well-graded Gravel with Sand, Crushed Sample Color: Brown
Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281			
Specifications 2024 WSDOT 9-03.9(3) Crushed Surfacing Base Course Sample Meets Specs ? No	$D_{(5)} = 0.208$ mm $D_{(10)} = 1.206$ mm $D_{(15)} = 2.699$ mm $D_{(30)} = 7.498$ mm $D_{(50)} = 13.457$ mm $D_{(60)} = 16.298$ mm $D_{(90)} = 23.593$ mm Dust Ratio = 12/25	% Gravel = 78.7% % Sand = 18.1% % Silt & Clay = 3.2% Liquid Limit = n/a Plasticity Index = n/a Sand Equivalent = n/a Fracture %, 1 Face = n/a Fracture %, 2+ Faces = n/a	Coeff. of Curvature, $C_C = 2.86$ Coeff. of Uniformity, $C_U = 13.51$ Fineness Modulus = 6.30 Plastic Limit = n/a Moisture %, as sampled = n/a Req'd Sand Equivalent = Req'd Fracture %, 1 Face = Req'd Fracture %, 2+ Faces =

		Method(s) ASTM C-136, ASTM D-6913, ASTM C-117	
		Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing
Sieve Size US	Metric	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%	100.0%
1.00"	25.00	96%	100.0%
3/4"	19.00	71%	71%
5/8"	16.00	59%	59%
1/2"	12.50		47%
3/8"	9.50	36%	36%
1/4"	6.30		26%
#4	4.75	21%	21%
#8	2.36		14%
#10	2.00	13%	13%
#16	1.18		10%
#20	0.850	9%	9%
#30	0.600		8%
#40	0.425	7%	7%
#50	0.300		6%
#60	0.250	5%	5%
#80	0.180		5%
#100	0.150	4%	4%
#140	0.106		4%
#170	0.090		3%
#200	0.075	3.2%	3.2%

Copyright [Searns Engineering & Technical Services PS, 1996-98]

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 is too coarse to meet gradation specification requirements, does not have enough material passing on the #4 sieve.



Reviewed by: *Alex Eifrig*
 Alex Eifrig
 WABO Supervising Laboratory Technician