



**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 #:** B25-0406  
**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	See Attached Report		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.

*Alex Eifrig*

Respectfully Submitted,  
 Alex Eifrig  
 WABO Supervising Laboratory Technician



## Sieve Report

<b>Project:</b> Q.C. - Menzel Lake Gravel - 2025 <b>Project #:</b> 25B026 <b>Client:</b> Menzel Lake Gravel <b>Source:</b> Menzel Lake Gravel Pit / Washed sand material <b>Sample#:</b> B25-0406		<b>Date Received:</b> 27-Jun-25 <b>Sampled By:</b> Client <b>Date Tested:</b> 1-Jul-25 <b>Tested By:</b> Z. Romney <b>Control No.:</b> 7012025		<b>Unified Soil Classification System, ASTM D-2487</b> SP, Poorly graded Sand <b>Sample Color:</b> Brown	
<b>Method(s) ASTM D-2216, ASTM D-2419, ASTM D-4318, ASTM D-5281</b>					
<b>Specifications</b> No Specs		<b>Sample Meets Specs ?</b> N/A		<b>Method(s) ASTM D-2216, ASTM D-2419, ASTM D-4318, ASTM D-5281</b> D <sub>(5)</sub> = 0.291 mm      % Gravel = 0.2%      Coeff. of Curvature, C <sub>c</sub> = 1.16 D <sub>(10)</sub> = 0.433 mm      % Sand = 99.1%      Coeff. of Uniformity, C <sub>u</sub> = 3.97 D <sub>(15)</sub> = 0.560 mm      % Silt & Clay = 0.7%      Fineness Modulus = 3.58 D <sub>(30)</sub> = 0.930 mm      Liquid Limit = n/a      Plastic Limit = n/a D <sub>(50)</sub> = 1.447 mm      Plasticity Index = n/a      Moisture %, as sampled = n/a D <sub>(60)</sub> = 1.718 mm      Sand Equivalent = n/a      Req'd Sand Equivalent = n/a D <sub>(90)</sub> = 3.615 mm      Fracture %, 1 Face = n/a      Req'd Fracture %, 1 Face = n/a Dust Ratio = 5/66      Fracture %, 2+ Faces = n/a      Req'd Fracture %, 2+ Faces = n/a	
<b>Method(s) ASTM C-136, ASTM D-6913, ASTM C-117</b>					
<b>Sieve Size</b> US      Metric		<b>Actual Cumulative Percent Passing</b>	<b>Interpolated Cumulative Percent Passing</b>	<b>Specs Max</b>	<b>Specs Min</b>
12.00"			100%	100.0%	0.0%
10.00"			100%	100.0%	0.0%
8.00"			100%	100.0%	0.0%
6.00"			100%	100.0%	0.0%
4.00"			100%	100.0%	0.0%
3.00"			100%	100.0%	0.0%
2.50"			100%	100.0%	0.0%
2.00"			100%	100.0%	0.0%
1.75"			100%	100.0%	0.0%
1.50"			100%	100.0%	0.0%
1.25"			100%	100.0%	0.0%
1.00"			100%	100.0%	0.0%
3/4"			100%	100.0%	0.0%
5/8"			100%	100.0%	0.0%
1/2"		100%	100%	100.0%	0.0%
3/8"		100%	100%	100.0%	0.0%
1/4"			100%	100.0%	0.0%
#4		99.8%	100%	100.0%	0.0%
#8		79.1%	79%	100.0%	0.0%
#10		70.4%	70%	100.0%	0.0%
#16		40.2%	40%	100.0%	0.0%
#20			27%	100.0%	0.0%
#30		16.6%	17%	100.0%	0.0%
#40		9.7%	10%	100.0%	0.0%
#50		5.2%	5%	100.0%	0.0%
#60			4%	100.0%	0.0%
#80			2%	100.0%	0.0%
#100		1.4%	1%	100.0%	0.0%
#140			1%	100.0%	0.0%
#170			1%	100.0%	0.0%
#200		0.7%	0.7%	100.0%	0.0%

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Grain Size Distribution

Legend: + Sieve Sizes, — Max Specs, — Min Specs, — Sieve Results

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:

Reviewed by:

*Alex Eifrig*

Alex Eifrig  
WABO Supervising Laboratory Technician