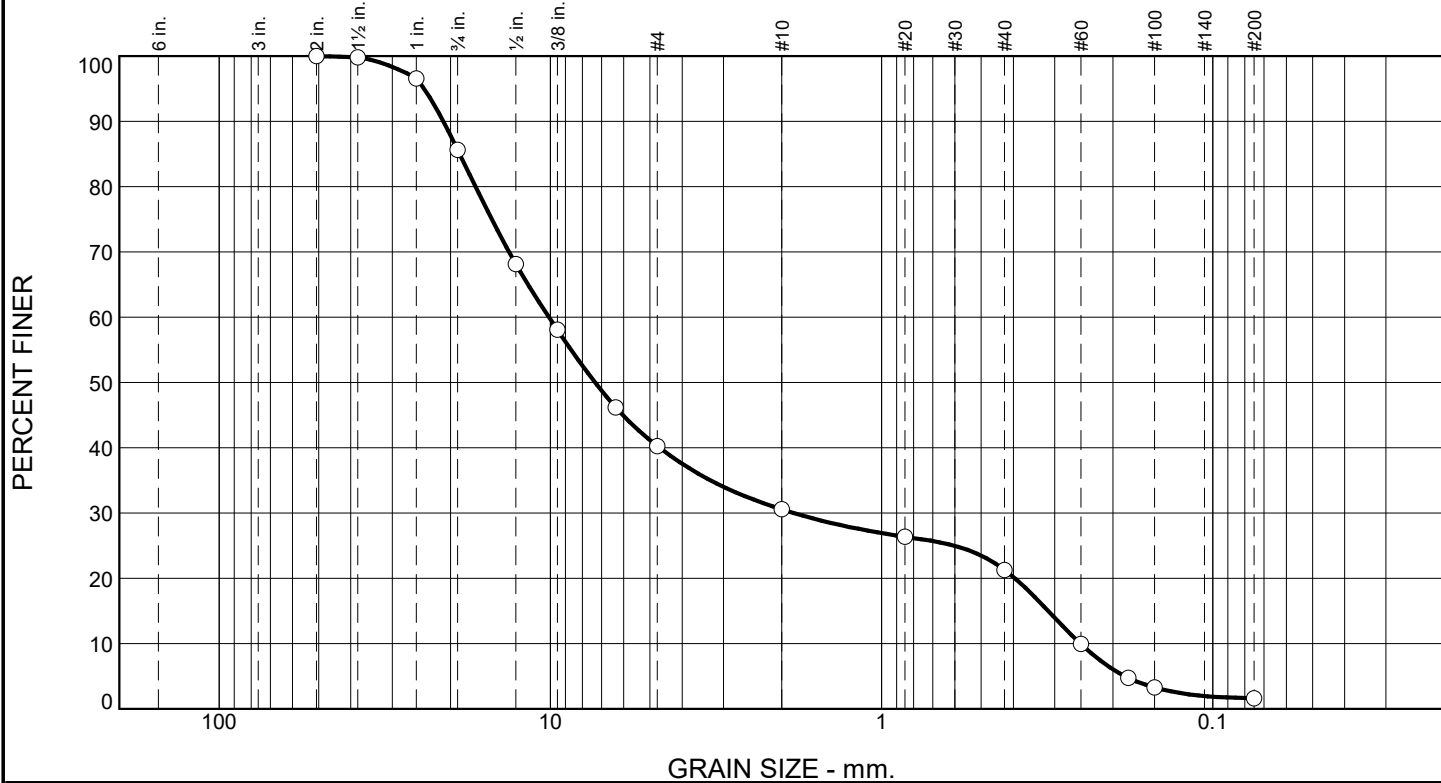


Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt
0	60	38	

Test Results (ASTM C 136 & ASTM C 117)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
2	100		
1.5	100		
1	97		
3/4	86		
1/2	68		
3/8	58		
1/4	46		
#4	40		
#10	31		
#20	26		
#40	21		
#60	10		
#80	5		
#100	3		
#200	1.6		

* (no specification provided)

Material Description well-graded gravel with sand		
Atterberg Limits (ASTM D 4318) PL= NP LL= NV PI=		
Classification USCS (D 2487)= GW AASHTO (M 145)= A-1-a		
Coefficients D ₉₀ = 21.0286 D ₈₅ = 18.7686 D ₆₀ = 10.0981 D ₅₀ = 7.3250 D ₃₀ = 1.8351 D ₁₅ = 0.3135 D ₁₀ = 0.2507 C _u = 40.28 C _c = 1.33		
Remarks Max Dry Density(ASTM D1557):144.0 pcf @ 6.0% moisture non-plasticity assumed		
Date Received: 5/12/25		Date Tested: 5/13/25
Tested By: Kyi Petrie		
Checked By: Stefan Mack, PE		
Title: Engineer		

Source of Sample: Mullins Pit
Sample Number: 25-346

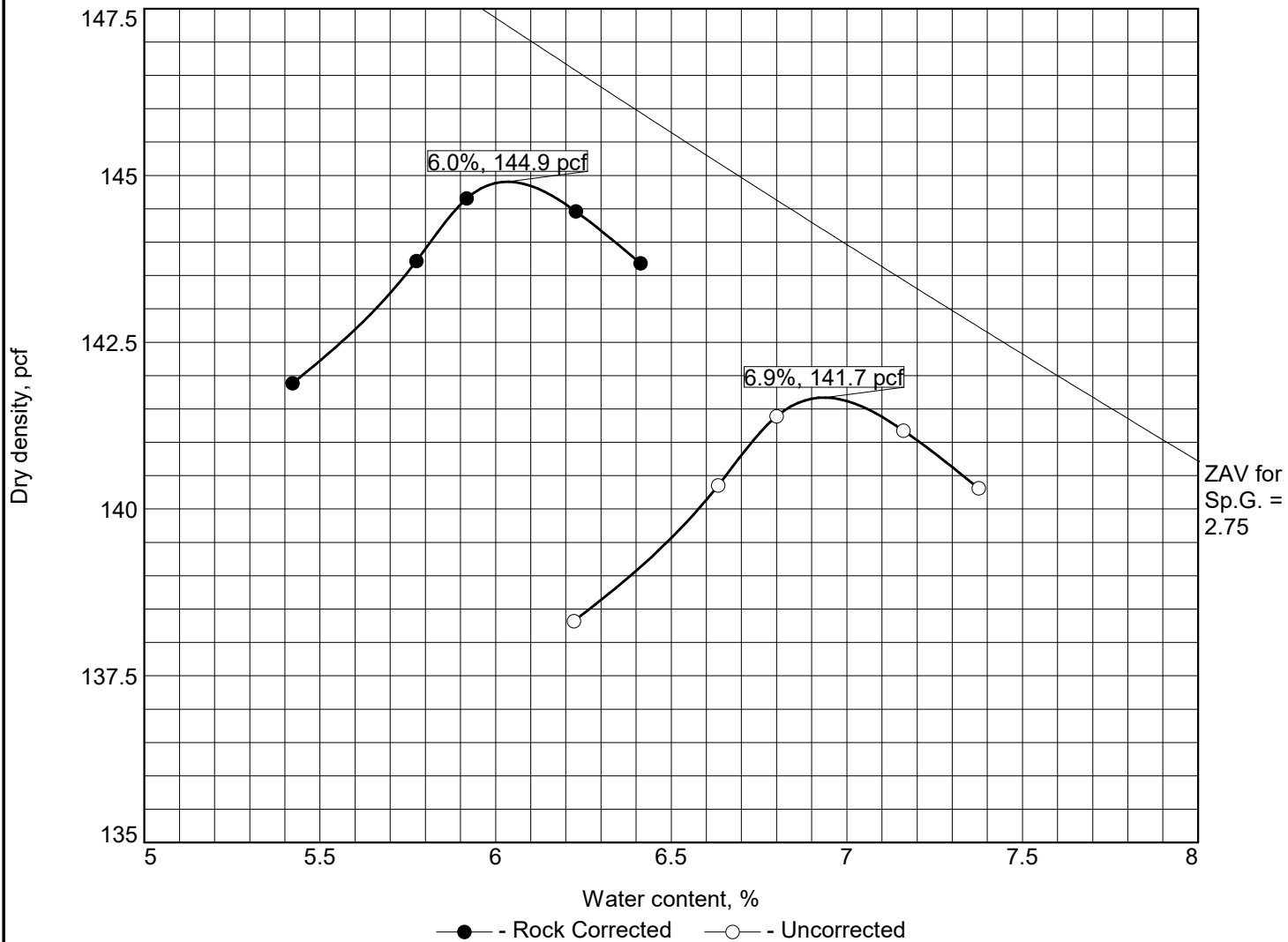
Date Sampled: 5/12/25

MAPPA TESTLAB
 1956 Richardson Highway
 North Pole, Alaska 99705

Client: Alcan Builders
 Project: EIE430
 Eielson AFB, AK
 Project No:

Figure

COMPACTION TEST REPORT For Curve No. 25-346



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GW	A-1-a		2.7	NV		14	1.6

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 144.9 pcf		141.7 pcf	well-graded gravel with sand
Optimum moisture = 6.0 %		6.9 %	
Project No. Client: Alcan Builders Project: EIE430 Eielson AFB, AK Date: 5/13/25 Source of Sample: Mullins Pit Sample Number: 25-346			Remarks: specific gravity assumed
MAPPA TESTLAB 1956 Richardson Highway North Pole, Alaska 99705			

Figure

Figure

Tested By: Kyi Mack Checked By: Stefan Mack, PE