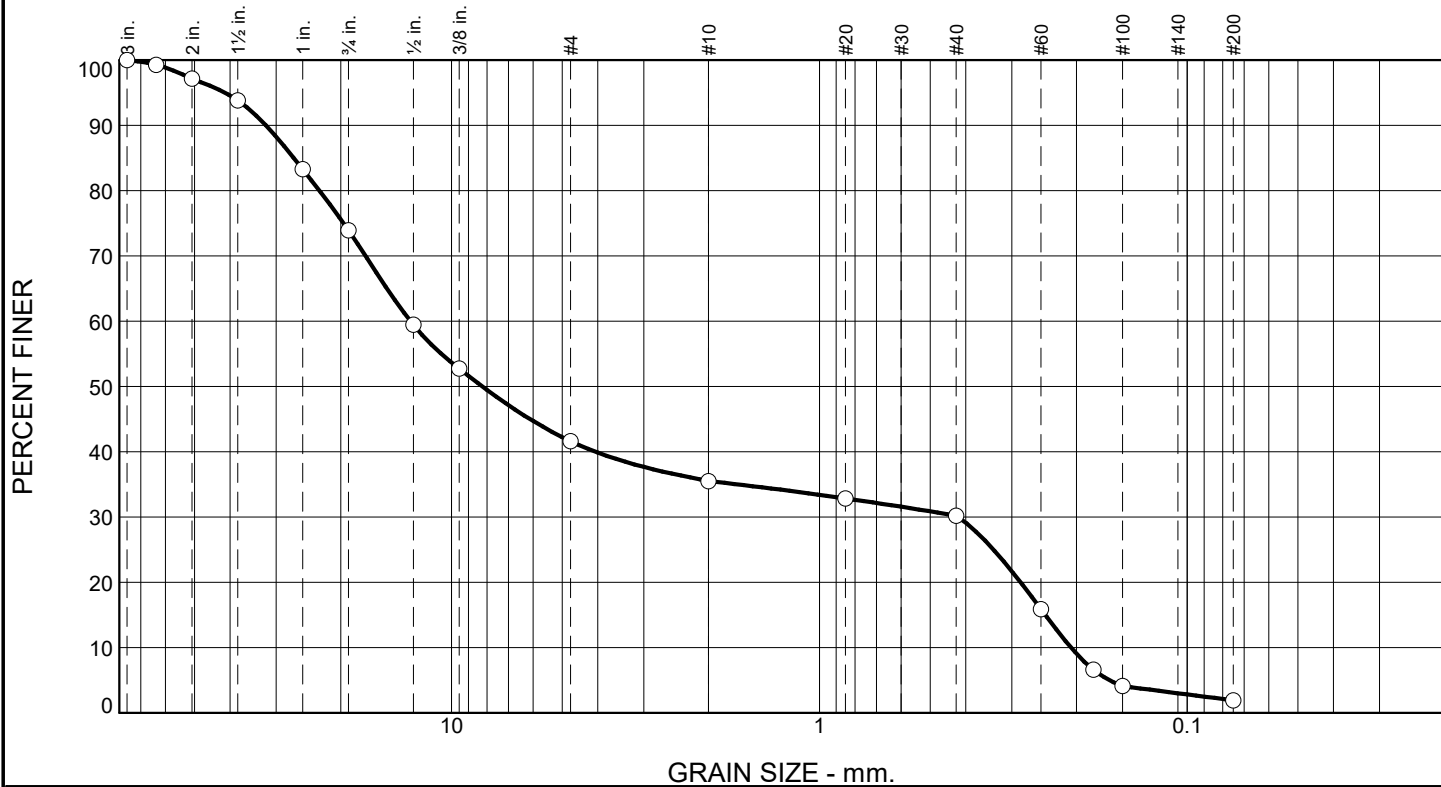


Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt
0	58	40	

Test Results (ASTM C 136 & ASTM C 117)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3	100		
2.5	99		
2	97		
1.5	94		
1	83		
3/4	74		
1/2	59		
3/8	53		
#4	42		
#10	36		
#20	33		
#40	30		
#60	16		
#80	7		
#100	4		
#200	1.9		

* (no specification provided)

Material Description

Interior Under Slab Existing Gravel
3-inch Gravel with Sand

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= GP AASHTO (M 145)= A-1-a

Coefficients

D₉₀= 31.9842 D₈₅= 26.8453 D₆₀= 12.9309
D₅₀= 8.2385 D₃₀= 0.4194 D₁₅= 0.2431
D₁₀= 0.2069 C_u= 62.50 C_c= 0.07

Remarks

Max Dry Density(ASTM D1557):142.9 pcf @ 6.8% moisture
Non-plasticity assumed

Date Received: 4/4/25 Date Tested: 4/9/25

Tested By: Sylvia Mack

Checked By: Stefan Mack, PE

Title: Engineer

Source of Sample: Ft Wainwright Building 3015
Sample Number: 25-258

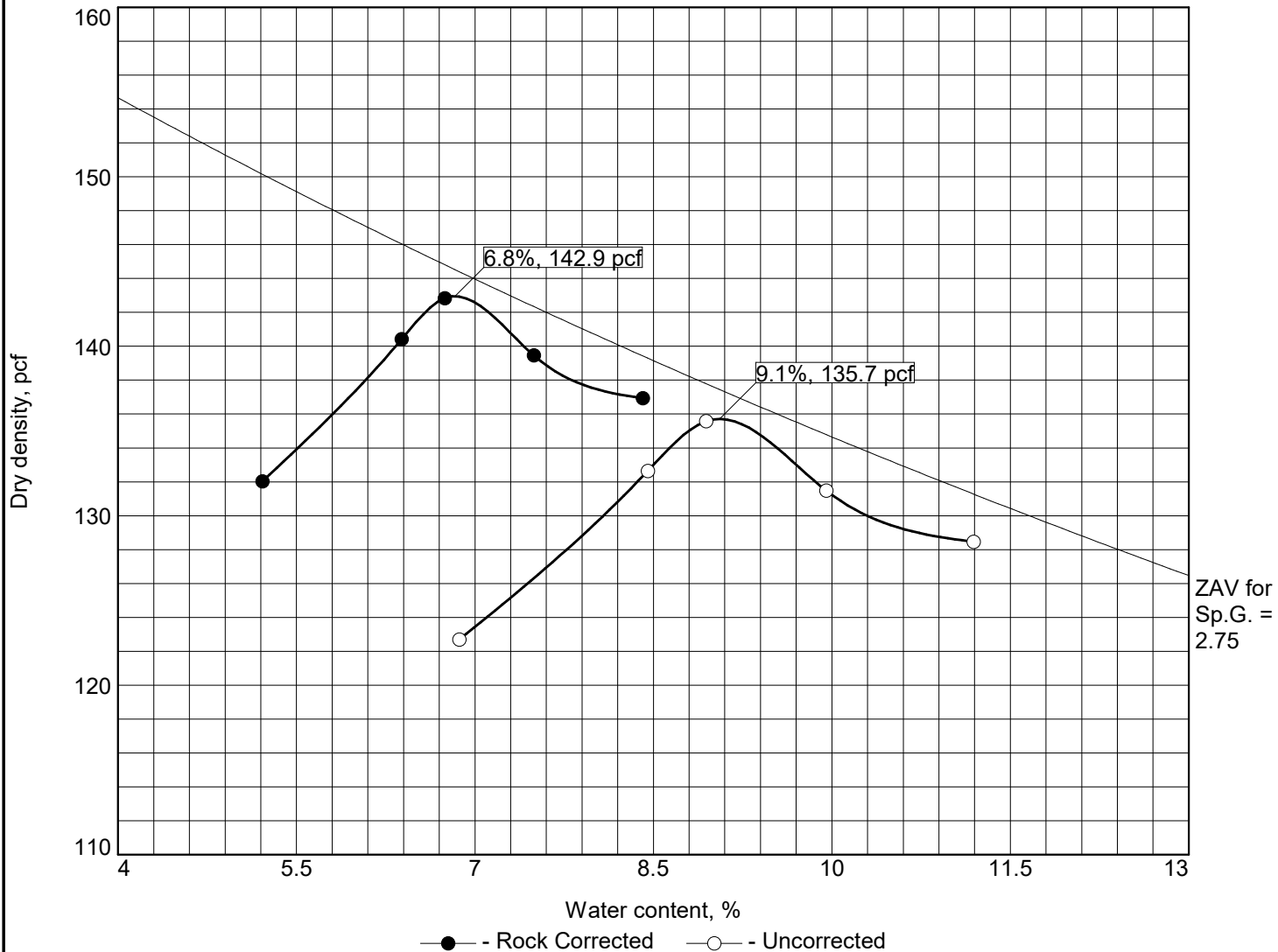
Date Sampled: client

MAPPA TESTLAB
1956 Richardson Highway
North Pole, Alaska 99705

Client: Alcan Builders
Project: FTW Repair OWS B3015
Ft Wainwright, Alaska
Project No:

Figure

COMPACTION TEST REPORT For Curve No. 25-258



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						
	GP	A-1-a		2.70	NV	NP	26	1.9

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 142.9 pcf		135.7 pcf	Interior Under Slab Existing Gravel 3-inch Gravel with Sand
Optimum moisture = 6.8 %		9.1 %	
Project No. Client: Alcan Builders Project: FTW Repair OWS B3015 Ft Wainwright, Alaska Source: FTW Building 3015 Date: Sample No.: 25-258			Remarks: PO# 202428
MAPPA TESTLAB 1956 Richardson Highway North Pole, Alaska 99705			
			Figure

Figure

Tested By: Mika Mack, CET Checked By: Stefan Mack, PE