BARRICK
PUEBLO VIEJO JV

PV-F-83817
Laboratory Particle Size Distirbution of Fine Soils using the Hydrometer Analysis
2025-01-22 Rev.5 - Next Revision 2030-01-22

Laboratory Information

Laboratory:	Test Standard:	Test Method:	Hydrometer Type:
Technician:	Test Date:	Prep. Method.	Mixing Method:
Sample By	Report Date:	Dispersion Device	Specific Gravity was:

Sample Information

Structure:	Sample Name:	Depth From
Work Area	Sample Number:	Depth To:
Source	Sample Date:	North
Material Type:	Elevation	East

Hydrometer Analysis

Dispersing Agent	$(NaPO_3)_6$
Amount used (g)	
Temperature of test, T (ºC)	
Viscosity of water (g*s/cm2)	
Mass density of water Calibrated ($_{\rho}c$)	
Acceleration (cm/s2)	
Volume of suspension (Vsp) cm3	
Meniscus Correction, Cm	

Atterber Limit Results

Liquid Limit (%)	
Plasticity Index (%)	

Specific Gravity

SG	

Container		Screen	(mm)	Wt Ret	% Ret	Cum % Ret	% Pass
Wt Wet Soil + Tare (gr)		2.5	63				
Wt Dry Soil + Tare (gr)		2	50.8				
Tare (gr)		1.5	37.5				
Wt Dry Soil (gr)		1	25.0				
Wt Washed (gr)		3/4"	19.0				
Wt Wash Pan (gr)		1/2"	12.50				
		3/8"	9.5				
		No. 4	4.75				
		10	2.00				
		16	1.18				
		20	0.85				
		50	0.3				
		60	0.25				
		100	0.15				
		140	0.106				
		200	0.075				
Pan							
Total Pan							

Moisture Content Companion Sample

Trial No.	
Tare Name.	
Oven Temperature (°C)	
Tare Plus Wet Soil (gr)	
Tare Plus Dry Soil (gr)	
Water, Ww (gr)	
Tare (gr)	
Dry Soil, Ws (gr)	
Moisture Content (%)	

Hydrometer Calibration:		Hydrometer measure of fluid:	
Hydrometer ID:		Hydrometer ID:	
Temperature (ºC)	Actual Reading	Temperature (ºC)	Actual Reading

Air dried mass hidrometer specimen (gr)	
Dry mass of Hidrometer Specimen (gr)	
Mass retained on No. 200 after Hidrometer (gr)	
Dry mass of hidrometer Specimen passing No. 200 (gr)	
Fine Content of Hidrometer Specimen (%)	

Classification of Soils as per USCS, ASTM designation D 2487-06

Summary Grain Size Distribution Parameter

Coarser than Gravel%	
Gravel%	
Sand%	
Fines%	
D10 (mm) =	
D15 (mm) =	
D30 (mm) =	
D60 (mm) =	
D85 (mm) =	
Cc:	
Cu:	

Reading #	Date	Hour	Reading Time, T (min)	Temp °C	Hydrometer Readings (Rm)	A or B depending of the Hydrometer type	Offset at Reading (r_{dm})	*Mass Percent Finer (N_m) (%)*	Effective Length(H_m)	*D*, mm	passing percentage respect to the total sample
1											
2											
3											
4											
5											
6											
7											
8											
9											

Laboratory Comments:

Reviewed By:_____

Date:_____

Aprroved By: _____

Date: _____