



STATE OF ALASKA
DOT & PF

SOILS & AGGREGATE, METHOD C
FIELD WORKSHEET

Acceptance Verification Info. QC

Sample No: BM(B-MOD)-G-1

Project Name: Kivalina Evacuation and School Site Access Road

Federal No: 0002432

AKSAS No: NFWHY00366

Material: Select Modified, Type B

Source: Kisimigiuqtuq Hill

Item No: 203.2006.0000

Location: Kivalina

Sta. / Sampled from: Stockpile

Sampled by / Qual. No: James Gwayi-Chore/Nathaniel Appeloni

Cl & Grade Reference: _____

Quantity Represented: 1/5,000 CY

Date: 6/28/20

FRACTURE — WAQTC FOP for TP 61

Single Face Double Face All Face

Fractured Mass F		% Q = [Q / (F + Q + N)] x 100
Questionable Mass Q		* % Questionable =>
Unfractured Mass N		* Recount if > 15%
% Fracture		← [(F+(Q/2)) / (F+Q+N)] x 100
Test by/date:		← Spec.

GRADATION — WAQTC FOP for T 27 / T 11 — Method C

mm / USC	Increment 1	Increment 2	Cumulative Mass Retained C	Cumulative % Retained (C / M) x 100	% Passing = 100 - % Retained	Specs.
100 / 4"						
*75 / 3"					t	
50 / 2"						
*37.5 / 1 1/2"						
25 / 1"	0	0	0	0	100	100
*19.0 / 3/4"	1286.0	1389.9	4563.2	8.2	92	
12.5 / 1/2"	4930.9	4745.8	17253.7	31.0	69	
*9.5 / 3/8"	6648.4	6419.9	23801.8	42.8	57	
6.3 / 1/4"	8457.9	8404.9	31567.0	56.8	43	
*4.75 / #4	9385.6	9445.4	35663.2	64.2	36	
Pan	4493.2	500.4	19922.4	← M1	CA Check Sum (≤ 0.3%)	
Dry Mass AFTER Sieving = (D + M1)			55585.6	← G	[(M - G) / M] x 100 =	
Original Dry Mass BEFORE Sieving			55585.6	← M	0	
			31.628	← F = (M1 / M3) (0.001)	Test by/date: 6/27/20	

MOISTURE CONTENT — WAQTC FOP for T 255 / T 265

C	Container	Constant Mass	
A	Moist Mass + Container	Time	Gross Mass / Net Mass
Mw	Wet Mass A - C		
B	Dry Mass + Container		
Md	Dry Mass B - C		
W	Moisture, %		
W = [(Mw - Md) / Md] x 100		% Change =>	
Test by/date:	% Change = [(Mp - Mn) / Mp] x 100		
Mp = Previous Mass Measured / Mn = New Mass Measured			

mm / USC	Cumulative Mass B	Total Sample Cumulative Mass C = (F x B) + D	Cumulative % Retained (C / M) x 100	% Passing = 100 - % Retained	Specs.
*2.36 / #8	213.5	42415.8	76.3	24	
2.00 / #10					
*1.18 / #16	331.3	46141.6	83.0	17	
*.600 / #30	397.7	48241.7	86.8	13	
.425 / #40	420.8	48972.3	88.1	12	
*.300 / #50	441.9	49639.6	89.3	11	
.180 / #80					
*.150 / #100	474.0	50654.9	91.1	9	
.075 / #200	501.0	51508.8	92.7	s 7.3	
Cum. Pan P	505.6	#200 on - 3" = [(s / t) x 100] =>		7.3	
H =>	506.0	← Total Mass AFTER Wash		FA Check Sum (≤ 0.3%)	
M3 =>	629.9	← - #4 Mass BEFORE Wash		[(H - P) / H] x 100 =	
			Test by/date: 6/28/20	0.1	

LIQUID AND PLASTIC LIMIT — WAQTC FOP for T 89 and T 90

	LL	PL
N Number of Blows		
C Container		
A Moist Mass + Container		
Mw Moist Mass A - C		
B Dry Mass + Container		
Md Dry Mass B - C		PL
W Moisture Content, % [(Mw - Md) / Md] x 100		
LL W x (N / 25) ^{0.121}		LL Spec.
Test by/date:	Plastic Index LL - PL	PI Spec.

Remarks:

Inc. 1 Mp (Before) = 13878.8
 Inc. 2 Mp (Before) = 14445.8 = 55585.6 ✓
 Inc. 3 Mp (Before) = 14811.8
 Inc. 4 Mp (Before) = 12449.2

FM =>		← Fineness Modulus Target (From MD)
	to	← FM Limits (± 0.2 of Mix Design FM)
(FM = Fineness Modulus = Total of % Retained of *Sieves / 100)		

Signature / Date: _____ 6/27/20

Checked by / Date: Nathaniel Appeloni 6/28/2020