

### STATE OF ALASKA

## Department of Transportation & Public Facilities

### Central Materials Lab

5750 EAST TUDOR RD. ANCHORAGE AK 99507  
 Phone (907)-269-6200 FAX (907) 269-6201

### Laboratory Report

QUALITY

PROJECT NAME: Sand Point Airport Runway Bgt.

PROJECT NO. AIP 3-02-0253-0904 / 57797

LABORATORY NO. 04A-2716

SAMPLE OF: Armor Stone

ITEM/SPECIFICATION NO.: P-185a

FIELD NO.: Q-AS-Q-2

SAMPLED FROM: Stockpile

DATE SAMPLED: 12/09/2004

SOURCE/SUPPLIER: Knoll Quarry

QUANTITY REPRESENTED Source

DATE RECEIVED: 12/13/2004

LOCATION/ADDRESS: Sand Point AK

SUBMITTED BY: L. Berger

DATE COMPLETED: 01/03/2005

EXAMINED FOR: Conformance

DATE REPORTED: 01/03/2005

Sieve Analysis

SIEVE	Lab	Specs.
4"		
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"		
1/4"		
#4		
#8		
#16		
#30		
#40		
#50		
#80		
#100		
#200		
.075mm		
.002mm		

± Fracture  
Single Face  
Double Face  
Flat Elongated, 3:1  
5:1  
Uncompacted Voids of FA

	Lab		Specs	
	Coarse	Specs	Fine	Specs
<u>Dry Wt. % of</u>				
<u>Specific Gravity, Bulk</u>	2.76			
<u>Specific Gravity, SSD</u>	2.78	2.65 min		
<u>Specific Gravity, App.</u>	2.82			
<u>ASTM T 89 Absorption</u>	0.7	2 max		
<u>ASTM C 88 Lightweight Part., %</u>				
<u>ASTM C 88 Finest Particles, %</u>				
<u>ASTM C 535 Sulfate Sound, % Loss</u>	2	5 max		
<u>ASTM C 535 L.A. Abrasion, % Loss</u>	47	50 max		
<u>ASTM T-13 % Loss @ 200 revs</u>	5	10 max		
<u>ASTM T-13 Normal Abrasion</u>				
<u>ASTM T-13 Degradation</u>	81	40 min		
<u>Sand Equivalent</u>				
<u>% Organic</u>				

MORTAR MAKING PROPERTIES OF SAND

Organic Impurities [ ] Less [ ] More than 500 PPM  
Compressive Strength, psi (if More than....)  
Control Sample Ratio Spec.

7 Day  
28 Day

Fineness Modulus

LL  
PL  
PI

Remarks: Expensive Breakdown in Ethylene Glycol

CRD-C 148-69

(4.8%) Specs. 2 max

When Processed to conform to grading requirements, this material is satisfactory for:

The Material as Submitted Conforms to Specifications  
 Yes [ ] No [X] NA [ ]

Signature

Newton J. Bingham  
Newton J. Bingham, PE

Regional Materials Engineer

THE TEST RESULTS ARE ONLY REPRESENTATIVE OF THE MATERIAL AS SUBMITTED.