



State of Minnesota Department of Transportation

Aggregates Test Report

Office of Materials and Road Research

1400 Gervais Avenue

Maplewood, MN 55109

Sample ID Number: CO-PS11-0015

Project Number: For Info Only

Field ID: DH 46
Date Sampled: 09/28/2010
Date Received: 12/09/2010
Approved: 2/25/2011 15:25
TH Number:
Depth: 2.00 to 18.00
Grade Spec:
Spec Class:
Quality Spec:
Plant Name:
Comment: COMPOSITE 4 BOREHOLES

Billing Agency:
Project Engineer: D. MARTIN
Submitter: DNR - S. KOSTKA
IAS Name:
Legal: NE1/4 NE1/4 Sec 04 - 044 - 24
Pit Name:
Pit Owner:
Sampled From: DRILL HOLE
Usage: DNR PROSPECTING

Test Procedures: AASHTO T-19, T-21, T-27(M), T-30(M), T-84(M), T-85(M), T-96(M), T-104(M), T-113(M), T-176(M), T-248(M), T-304 Method A, ASTM C123, ASTM C535, ASTM D3042, ASTM D4791(M), Micro Deval(MP), Percent Crushing(MP) M = MN/DOT Modified MP = MN/DOT Procedures

% Passing Sieve:	Lab Test	Field Test	Spec. Limits	
			Low	High
50mm (2")	100			
37.5mm (1 1/2")	96			
31.5mm (1 1/4")	96			
25.0mm (1")	94			
19.0mm (3/4")	90			
16.0mm (5/8")	88			
12.5mm (1/2")	85			
9.5mm (3/8")	82			
4.75mm (#4)	75			
2.36mm (#8)	71			
2.00mm (#10)	69			
1.18mm (#16)	63			
600um (#30)	53			
425um (#40)	45			
300um (#50)	34			
150um (#100)	14			
75um (#200)	6.5			

% Shale in Sand	***0.0
% Spall Argillite	1.6
% Carbonate	0.0
% Iron Oxide	1.00
% Unsound Chert	0.10
% Schist	0.98
% Total Spall	0.7
% BA Spall +4	2.7

* Value does not meet Spec
~ Value out of Field Lab Tolerance
*** Trace (0.00 - 0.05) Detected
% Shale in Sand N.C. = Trace

☐ Meets Requirements
☐ Does Not Meet Requirements
☒ For Info Only
☐ Incentive/Disincentive

☐ Unable to Verify
☐ Unable to Verify, Not Enough Material Supplied
☐ Within Lab-Field Tolerance
☐ Out of Lab-Field Tolerance

Comments:
AITKIN CO.

Copies To
DNR - S. KOSTKA

Charge: 1 - 1012
1 - 1013
1 - 1014
1 - 1029

Report Approved By:

David B. Bahr