



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-PS11-0014

Project Number: For Info Only

Field ID: DH 161
Date Sampled: 11/16/2010
Date Received: 12/09/2010
Approved: 2/25/2011 15:27
TH Number:
Depth: 3.00 to 10.00
Grade Spec:
Spec Class:
Quality Spec:
Plant Name:
Comment:

Billing Agency:
Project Engineer: D. MARTIN
Submitter: DNR- H. ARENDS
IAS Name:
Legal: SW1/4 SW1/4 Sec 04 - 123 - 30
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")	91			
25.0mm (1")	87			
19.0mm (3/4")	81			
16.0mm (5/8")	76			
12.5mm (1/2")	72			
9.5mm (3/8")	67			
4.75mm (#4)	56			
2.36mm (#8)	49			
2.00mm (#10)	47			
1.18mm (#16)	40			
600um (#30)	29			
425um (#40)	21			
300um (#50)	16			
150um (#100)	9			
75um (#200)	6.8			

% Shale in Sand	***0.0
% Carbonate	14.1
% Iron Oxide	0.50
% Unsound Chert	0.10
% Total Sample Spall	0.3
% BA Spall +4	0.6

* 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:
STEARNS CO.

Copies To
DNR - H. ARENDS

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

Report Approved By:

David B. Bahr