



## 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-PS11-0034

Project Number: For Info Only

Field ID: LL-415  
Date Sampled: 09/16/2010  
Date Received: 02/04/2011  
Approved: 3/10/2011 10:45  
TH Number:  
Depth: 2.00 to 5.00  
Grade Spec:  
Spec Class:  
Quality Spec:  
Plant Name:  
Comment: AITKIN CO

Billing Agency:  
Project Engineer: D. MARTIN  
Submitter: S. KOSTKA  
IAS Name:  
Legal: NW1/4 Sec 08 - 046 - 27  
Pit Name:  
Pit Owner:  
Sampled From: DRILL HOLE  
Usage: 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")	98			
31.5mm (1 1/4")	97			
25.0mm (1")	95			
19.0mm (3/4")	90			
16.0mm (5/8")	88			
12.5mm (1/2")	81			
9.5mm (3/8")	78			
4.75mm (#4)	71			
2.36mm (#8)	64			
2.00mm (#10)	61			
1.18mm (#16)	51			
600um (#30)	39			
425um (#40)	33			
300um (#50)	27			
150um (#100)	15			
75um (#200)	9.6			

% Shale in Sand	0.2
%Total Shale +4	***0.0
%TotalSamplShale	0.1
% Spall Argillite	1.7
% Carbonate	0.0
% Iron Oxide	0.60
% Schist	0.11
%TotalSamplSpall	0.8
% BA Spall +4	2.3

\* 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:  
PROSPECTING

Copies To  
DNR - S. KOSTKA

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

Report Approved By: