



# 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-PS11-0016**

**Project Number: For Info Only**

Field ID: DH 54  
Date Sampled: 09/20/2010  
Date Received: 12/09/2010  
**Approved:** 2/25/2011 15:22  
TH Number:  
Depth: 0.00 to 16.00  
Grade Spec:  
Spec Class:  
Quality Spec:  
Plant Name:  
Comment:

Billing Agency:  
Project Engineer: D. MARTIN  
Submitter: DNR - S. KOSTKA  
IAS Name:  
Legal: NE1/4 SW1/4 Sec 32 - 051 - 26  
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")	98			
31.5mm (1 1/4")	95			
25.0mm (1")	93			
19.0mm (3/4")	88			
16.0mm (5/8")	85			
12.5mm (1/2")	83			
9.5mm (3/8")	80			
4.75mm (#4)	73			
2.36mm (#8)	70			
2.00mm (#10)	68			
1.18mm (#16)	61			
600um (#30)	41			
425um (#40)	27			
300um (#50)	16			
150um (#100)	6			
75um (#200)	4.0			

% Shale in Sand	***0.0
% Spall Argillite	0.5
% Carbonate	0.0
% Iron Oxide	0.80
% Unsound Chert	0.60
% Schist	0.38
% Total Spall	0.5
% BA Spall +4	1.9

\* 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*