



# 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-PS12-0040**

**Project Number: For Info Only**

Field ID: 267  
Date Sampled:  
Date Received: 12/10/2012  
**Approved:** 12/24/2012 10:13  
TH Number:  
Depth:  
Grade Spec:  
Spec Class:  
Quality Spec:  
Plant Name:  
Comment: 49-23-11

Billing Agency:  
Project Engineer: D. MARTIN  
Submitter: C. JENNINGS  
IAS Name:  
Pit #:  
Pit Name:  
Pit Owner:  
Sampled From: GRAB AITKIN CO.  
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
200mm (8")	100			
75mm (3")	89			
63mm (2 1/2")	89			
50mm (2")	89			
37.5mm (1 1/2")	84			
31.5mm (1 1/4")	82			
25.0mm (1")	79			
19.0mm (3/4")	76			
12.5mm (1/2")	70			
9.5mm (3/8")	67			
4.75mm (#4)	58			
2.36mm (#8)	50			
2.00mm (#10)	49			
1.18mm (#16)	43			
600um (#30)	30			
425um (#40)	21			
300um (#50)	13			
150um (#100)	4			
75um (#200)	2.4			

% Shale in Sand	0.1
% Iron Oxide	0.02
% Unsound Chert	0.03
% Spall Argillite	0.4
% Misc. Spall	0.09
% Carbonate	0.5
% NonSpall Argillite	0.5
% TotalSpallSpall	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:



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% Passing	Lab	Field	Spec. Limits
Sieve:	Test	Test	Low High

**Copies To**  
DNR - H.ARENS

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

Report Approved By: