

Missouri Department of Transportation

1711 Highway 61 S
Hannibal, Missouri 63401
573.248.2490
Fax: 573.248.2467
1.888.ASK MODOT (275.6636)

October 9, 2018

Mr. Jay Johnson
Ideal Sand
P.O. Box 416
West Burlington, IA 52655

Dear Mr. Johnson:

A source approval sample was obtained from production by our personnel September 26. This sample represents sand from your plant, Ideal Sand, located 2 miles northeast of Wayland, MO. The sample was submitted to and tested in the Central Laboratory under SiteManager ID 18NELWK081.

This material has been approved for the production of material to meet the requirements of Section 1005, Class A. This constitutes approval for all other production that is intended for 1005 or lower quality material. Below are the test results:

<u>Test Method</u>	<u>Test Result</u>
Bulk Specific Gravity (AASHTO T85)	2.613
Absorption (AASHTO T85)	0.6
Unit Weight (AASHTO T19)	109

All material produced from your plant must meet all other requirements of the specifications for which it is specifically being produced, such as gradation, percentage of deleterious substances, etc. Attached is a copy of our Quarry Ledge Information Summary, which includes the most recent source sample data for all ledges within this quarry.

If you have any questions in regards to this approval, please contact me at (573) 248-2543, or at michael.baxter@modot.mo.gov.

Sincerely,



Michael Baxter, P.E.
Assistant Construction and Materials Engineer

Ideal Sand, Wayland Sand Pit – 3021900313



Our mission is to provide a world-class transportation system that is safe, innovative, reliable and dedicated to a prosperous Missouri.

www.modot.org



QUARRY LEDGE INFORMATION SUMMARY - Source

Oct 9, 2018

Ideal Sand, Wayland Sand Pit

PH#
(816)754-6783

2.0 Mi Ne/O Wayland,
Mo 52655 West Burlington Clark County

Longitude: -91.5619 Latitude: 40.3986

PS#: 3021900313

Ledge	Formation/ Member	Description/Components		Micro Deval	LA	SPG	Abs	Unit Weight	MoDOT T14	T104	T161
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A									
1005FACCNS..CA	18NELWK081	2018 0926				2.613	0.6	109			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class B.									
1005FACCNS..CB	18NECJH062	2018 0904				2.591	1.0	107 108			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A.									
1005FACCNS..CA	17NECJH043	2017 0504				2.613	0.8	109			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A.									
1005FACCNS..CA	16NEMA0188	2016 0412				2.606	0.9	109			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A.									
1005FACCNS..CA	15NEMA0175	2015 0406				2.627	0.6	109			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A.									
1005FACCNS..CA	14NEMA0187	2014 0328				2.612	0.8	110			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A.									
1005FACCNS..CA	13NEMA0194	2013 0405				2.612	0.8	109			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005 fine aggregate for concrete. Sand is Class A.									
1005FACCNS..CA	12NEMA0170	2012 0326				2.610	0.9	110			



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Longitude: -91.5619 Latitude: 40.3986

PS#: 3021900313

Ledge	Formation/ Member	Description/Components		Micro Deval	LA	SPG	Abs	Unit Weight	MoDOT T14	T104	T161
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005.2 Fine Aggregate for concrete. Sand is a Class B									
1005FACCNS..CB	033MA0210	2003	0429			2.627	0.5	107			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005.2 fine aggregate for concrete									
1005FACCNS..CB	023MA0529	2002	0913			2.627	0.5	110			
SAND	Glacial sand	Material represents Glacial Sand									
1005FACCNS..CB	023MA0473	2002	0815			2.602	0.9	105			
SAND	Glacial sand	Material represents Glacial Sand									
		Sample complies with Specification 1005.2 fine aggregate for concrete									
1005FACCNS..CB	023MA0276	2002	0607			2.620	0.7	112			