



Lab Number: 17- 2906

## Certificate of Analysis

Customer: Giles Chemical  
Date Sampled: December 29, 2017  
Product: Magox 93HRC  
Car Number: GPFX 10369

Bin or Silo: F,G,WS  
Mesh: 200

Chemical			Particle Size	
The following chemical results are reported on an ignited basis.			Screen mesh sizes are reported in U.S.A. series sizes.	
<u>TEST</u>	<u>Result</u>		<u>Mesh</u>	<u>Percent</u>
Loss	<u>2.57</u>	%	<u>100</u>	<u>4.6</u>
Insol.	<u>2.83</u>	%	<u>200</u>	<u>26.2</u>
R2O3	<u>1.04</u>	%	<u>-200</u>	<u>69.2</u>
CaO	<u>3.47</u>	%		
MgO	<u>92.66</u>	%		
Mg		%		
P2O5		%		
The following chemical results are reported on an "as is" basis.				
Sulfur		%		
Reactivity(Giles)	<u>24.0</u>	10 minute rise in degrees Celcius		
Railcar Seal Numbers:	<u>769-777</u>			
Tapped bulk density	<u>67.9</u>	lbs/cu ft		

Analyzed By: Steve Wanko

Signature: \_\_\_\_\_

Chad Blumhagen / Chief Chemist

Date: December 30, 2017

WESTERN OPERATIONS

STATE ROUTE 361 ♦ P.O. BOX 177 ♦ GABBS, NV 89409 ♦ 775.285.2601 ♦ FAX 775.285.4021