

ANALYTICAL REPORT

Alternative Testing
Laboratories, Inc

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 [REDACTED]
 Projectile Tube Cleaning
 737 Eljer Way
 Ford City PA 16226

Date July 22, 2013

 Report #
 Q1306442

Project Information

PO# / WO# Verbal

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Chain Attached

Sample ID	Sample Description	Result	Units	Parameter	Methodology
Q1306442-001	[REDACTED] U#1 Top B waterbox	9.23	%	Moisture	ASTM D 2216
		11.4	%	Aluminum Oxide	ICP-AES
		4.01	%	Calcium Oxide	ICP-AES
		0.02	%	Copper Oxide	ICP-AES
		8.13	%	Iron III Oxide	ICP-AES
		27.7	%	Loss on Ignition @ 1000 C	ASTM C 25
		1.62	%	Magnesium Oxide	ICP-AES
		18.5	%	Manganese Oxide	ICP-AES
		0.03	%	Molybdenum Oxide	ICP-AES
		0.48	%	Nickel Oxide	ICP-AES
		0.63	%	Phosphorus Oxide	ICP-AES
		1.52	%	Potassium Oxide	ICP-AES
		20.4	%	Silicon Dioxide	ICP-AES
		0.62	%	Sodium Oxide	ICP-AES
		0.16	%	Sulfur	Combustion IR
		0.67	%	Titanium Oxide	ICP-AES
		0.09	%	Zinc Oxide	ICP-AES
Q1306442-002	[REDACTED] U#1 Top A waterbox	7.10	%	Moisture	ASTM D 2216
		11.4	%	Aluminum Oxide	ICP-AES
		2.98	%	Calcium Oxide	ICP-AES
		0.01	%	Copper Oxide	ICP-AES
		8.73	%	Iron III Oxide	ICP-AES
		27.1	%	Loss on Ignition @ 1000 C	ASTM C 25
		1.56	%	Magnesium Oxide	ICP-AES
		16.7	%	Manganese Oxide	ICP-AES
		0.03	%	Molybdenum Oxide	ICP-AES
		0.25	%	Nickel Oxide	ICP-AES
		0.59	%	Phosphorus Oxide	ICP-AES
		1.51	%	Potassium Oxide	ICP-AES
		20.9	%	Silicon Dioxide	ICP-AES
		1.32	%	Sodium Oxide	ICP-AES
		0.15	%	Sulfur	Combustion IR
		0.93	%	Titanium Oxide	ICP-AES
		0.10	%	Zinc Oxide	ICP-AES

Reported on a dry basis. No Free Metals present.

Work Inspected By:

[REDACTED] Lab Manager