

# LEONARDITE PRODUCTS-LLC

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## Heavy Minerals Analysis Source Line of Dry Products

Analysis Performed	As Received	Dry Weight Basis	Detection Limit	Method
Aluminum	5,658	7678 mg/kg	5	EPA 6010
Arsenic	13.6	18.5 mg/kg	0.5	EPA 6020
Barium	689	935 mg/kg	0.5	EPA 6010
Cadmium	n.d.	n.d. mg/kg	0.5	EPA 6010
Calcium	17,209	23,353 mg/kg	1	EPA 6010
Chromium	8.7	11.9 mg/kg	1	EPA 6010
Cobalt	6	8.7 mg/kg	1	EPA 6010
Copper	11.8	16.1 mg/kg	1	EPA 6010
Iron	10,424	14,146 mg/kg	5	EPA 6010
Lead	5.9	8.1 mg/kg	5	EPA 6010
Magnesium	5,096	6,915 mg/kg	1	EPA 6010
Manganese	201	272 mg/kg	1	EPA 6010
Molybdenum	2	2.8 mg/kg	1	EPA 6010
Nickel	22.9	31.1 mg/kg	1	EPA 6010
Percent Solids	73.69	%	0.01	SM 2540 G
Phosphorus	52.7	71.5 mg/kg	10	EPA 6010
Potassium	252	342 mg/kg	10	EPA 6010
Selenium	2.83	3.84 mg/kg	0.5	EPA 6020
Sodium	764	1,037 mg/kg	1	EPA 6010
Sulfur	15,514	21,053 mg/kg	25	EPA 6010
Zinc	46.4	63 mg/kg	1	EPA 6010

Analysis conducted by Midwest Laboratories, Inc.  
December, 2013

**THE**   
**SOURCE**  
NORTH DAKOTA LEONARDITE

HPTA<sup>®</sup>  
MEMBER  
HUMIC PRODUCTS TRADE ASSOCIATION