

**RIVERS END RESOURCES LLC
RON JOHNSON
15610 SPOHN RD
FREDERICKTOWN OH 43019-**

REPORT OF ANALYSIS

For: (10740) RIVERS END RESOURCES LLC
SAMPLE ANALYSIS

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: MTV LIME		Lab Number: 8964307				
Moisture	36.6	%	0.1	SM 2540 G-(1997)	jsp9-2021/09/13	eas2-2021/09/13
Total neutralizing value (CaCO ₃ eq)	61.3	%	0.1	AOAC 955.01	jed2-2021/09/13	eas2-2021/09/13
ECCE	61.3	%	0.1	Calculation	Auto-2021/09/13	Auto-2021/09/13
% passing 4 sieve	100	%	0.1	ASTM E 276-13 (mod)	may8-2021/09/13	eas2-2021/09/13
% passing 8 sieve	100	%	0.1	ASTM E 276-13 (mod)	may8-2021/09/13	eas2-2021/09/13
% passing 60 sieve	100	%	0.1	ASTM E 276-13 (mod)	may8-2021/09/13	eas2-2021/09/13
% passing 100 sieve	99.9	%	0.1	ASTM E 276-13 (mod)	may8-2021/09/13	eas2-2021/09/13
Boron (total)	n.d.	ppm	100	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Sulfur (total)	n.d.	%	0.05	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Phosphorus (total)	n.d.	%	0.05	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Potassium (total)	n.d.	%	0.05	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Magnesium (total)	0.94	%	0.01	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Sodium (total)	0.02	%	0.01	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Iron (total)	1620	ppm	50.0	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Calcium (total)	21.2	%	0.01	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Manganese (total)	99.8	ppm	20.0	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Zinc (total)	n.d.	ppm	20.0	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Copper (total)	n.d.	ppm	20.0	MWL ME PROC 26	jdg9-2021/09/09	eas2-2021/09/13
Arsenic (total)	n.d.	mg/kg	10.0	EPA 6010	ery3-2021/09/09	trh1-2021/09/10

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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REPORT OF ANALYSIS

For: (10740) RIVERS END RESOURCES LLC
SAMPLE ANALYSIS

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: MTV LIME	Lab Number: 8964307 (con't)					
Chromium (total)	n.d.	mg/kg	1.00	EPA 6010	ery3-2021/09/09	trh1-2021/09/10
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010	ery3-2021/09/09	trh1-2021/09/10
Lead (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2021/09/09	trh1-2021/09/10
pH	9.03	S.U.	0.01	EPA 9045	akn1-2021/09/09	eas2-2021/09/13

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg

cc: Account(s) 4432 AG SPECTRUM

For questions please contact:



Stacie Nelson
Senior Account Manager
snelson@midwestlabs.com (402)829-9840

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RON JOHNSON
15610 SPOHN RD
FREDERICKTOWN OH 43019-****REPORT OF ANALYSIS****For: (10740) RIVERS END RESOURCES LLC
SAMPLE ANALYSIS****Detailed Method Description(s)****SM 2540 G**

Analysis follows MWL WC 060 which is based on SM 2540 G. A sample is weighed placed in a vacuum drying oven to drive off the moisture and re-weighed. The sample is then placed in a muffle furnace at 550°C, cooled, and re-weighed. The residue remaining is the ash and the mass lost is the volatile matter.

ME 042

Analysis follows MWL ME 042 which is based on EPA 6010b, Inductively Coupled Plasma (ICP). A light emission technique where prepared samples are injected into a high energy plasma that forces the elements in the injected sample to emit light energies which are proportional to the level of minerals and metals present. The light is then detected and correlated to the levels of minerals and metals in the original sample.

pH METER

Analysis follows MWL WC 061 which is based on EPA 9045. The sample is mixed with water and the pH of the resulting aqueous solution is measured.

ICP Analysis Fertilizers AOAC 985.01 (mod)

Analysis follows MWL ME 026 which is based on AOAC 985.01. Samples have been prepared using MWL WC 056. Total minerals in fertilizers have been prepared by AOAC 957.02 using mineral acids and heat. Water soluble manganese is prepared by AOAC 972.03 and the other water soluble by AOAC 977.01. Sample analysis involves moving the sample extract into the ICP where it is nebulized and introduced into the high temperature plasma which energizes the electrons of the dissolved minerals/metals. As the energized electrons of the minerals/metals return to ground state, energy is released as light. The emitted wavelength(s) and light intensities are used to identify and quantitate the minerals/metals in the sample

AOAC 955.01

Analysis follows MWL WC 039 which is based on AOAC 955.01. A sample is treated with an excess of acid and then back-titrated with a known base to a phenolphthalein end point

Calculation

Analytical results are entered into applicable formulas to provide a calculated result which is reported.

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21-256-4149

REPORT DATE
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10740



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ISSUE DATE
Sep 13, 2021

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REPORT OF ANALYSIS

For: (10740) RIVERS END RESOURCES LLC
SAMPLE ANALYSIS

Wet Sieve

Sample analysis follows MWL WC 070 which is based on ASTM E 276. A known mass of a solid is obtained and a pre-determined set of sieves obtained. The sample is placed on the upper most (largest screen size) and the sample washed with water to wash the materials through the sieves. The material retained on the individual sieves is removed and weighed and the percent of the total passing through the sieve is calculated and reported.

Fertilizer Prep AOAC 957.02

Samples are prepared using a combination of nitric acid and heat. The heating takes place in a block digester

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