



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: MT Sulphur and Chemical
Project: COA Q2 - Full Test
Lab ID: B23030297-002
Client Sample ID: MSCC YB Disintegrating Sulfur Granules (85%)

Revised Date: 03/29/23
Report Date: 03/17/23
Collection Date: 03/03/23 15:45
Date Received: 03/03/23
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture (As Received)	ND	wt%		0.2		D2974	03/09/23 14:34 / srm
Ash	13.4	wt%		0.01		D2974	03/07/23 13:03 / jlw
WATER EXTRACTABLE CONSTITUENTS							
Chloride, 1:2	6	mg/kg		1		E300.0	03/07/23 21:33 / caa
CHEMICAL CHARACTERISTICS							
Carbon, Total	0.29	wt%		0.01		Leco	03/14/23 16:30 / srm
Acidity, 1:2	ND	mg/kg		10		E305.1	03/09/23 17:17 / nrb
Nitrogen, Kjeldahl, Total as N	ND	mg/kg		100		E351.2	03/09/23 16:00 / jaw
SIEVE ANALYSIS							
0.5 in (12.5 mm), Retained	< 0.1	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
No. 4 (4.75 mm), Retained	< 0.1	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
No. 20 (850 um), Retained	99.1	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
Pan	0.9	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
INORGANICS							
Sulfur, by loss on ignition	86.8	wt%		0.100		Calculation	03/07/23 13:03 / jlw
METALS, TOTAL HF DIGESTION							
Silicon	ND	wt%		1		SW6010B	03/10/23 16:34 / jpv
METALS, TOTAL - EPA SW846							
Aluminum	1240	mg/kg	D	5		SW6010B	03/15/23 06:13 / jpv
Antimony	ND	mg/kg		0.02		SW6020	03/09/23 05:51 / jks
Arsenic	0.4	mg/kg		0.2		SW6020	03/09/23 05:51 / jks
Barium	13.4	mg/kg	D	0.1		SW6020	03/09/23 05:51 / jks
Beryllium	0.1	mg/kg	D	0.1		SW6020	03/09/23 05:51 / jks
Boron	ND	mg/kg	D	3		SW6010B	03/15/23 06:13 / jpv
Cadmium	ND	mg/kg		0.05		SW6020	03/09/23 05:51 / jks
Calcium	950	mg/kg	D	30		SW6010B	03/15/23 06:13 / jpv
Chromium	ND	mg/kg	D	0.5		SW6020	03/09/23 05:51 / jks
Cobalt	0.21	mg/kg		0.05		SW6020	03/09/23 05:51 / jks
Copper	ND	mg/kg		0.5		SW6020	03/16/23 16:30 / aem
Iron	1410	mg/kg	D	50		SW6010B	03/15/23 06:13 / jpv
Lead	3.11	mg/kg		0.05		SW6020	03/09/23 05:51 / jks
Lithium	ND	mg/kg	D	2		SW6020	03/14/23 07:47 / aem
Magnesium	387	mg/kg	D	10		SW6020	03/09/23 05:51 / jks
Manganese	162	mg/kg	D	0.3		SW6010B	03/15/23 06:13 / jpv
Molybdenum	0.15	mg/kg		0.05		SW6020	03/09/23 05:51 / jks
Nickel	0.5	mg/kg	D	0.5		SW6020	03/16/23 16:30 / aem
Phosphorus	42	mg/kg	D	10		SW6010B	03/15/23 06:13 / jpv
Potassium	162	mg/kg	D	10		SW6020	03/09/23 05:51 / jks
Selenium	ND	mg/kg		0.2		SW6020	03/09/23 05:51 / jks

Report Definitions:
 RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 D - Reporting Limit (RL) increased due to sample matrix
 MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)



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METALS, TOTAL - EPA SW846							
Silver	ND	mg/kg		0.05		SW6020	03/09/23 05:51 / jks
Sodium	2050	mg/kg	D	20		SW6020	03/09/23 05:51 / jks
Thallium	ND	mg/kg		0.05		SW6020	03/09/23 05:51 / jks
Tin	ND	mg/kg	D	5		SW6020	03/09/23 05:51 / jks
Titanium	10.0	mg/kg	D	0.1		SW6020	03/16/23 16:30 / aem
Vanadium	0.4	mg/kg		0.1		SW6020	03/16/23 16:30 / aem
Zinc	6	mg/kg		1		SW6010B	03/15/23 06:13 / jpv
Mercury	ND	mg/kg		0.1		SW7471B	03/07/23 12:11 / mh
Tellurium	ND	mg/kg		1		SW6020	03/08/23 11:26 / aem

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