



# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

### ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S109230

Client: DeSoto County

Project Name: DeSoto County - Split Sampling

Date Received: 09/28/2021

Time Received: 13:40

Lab ID: S109230-01 (Water)      Sample Description: SFM D 001  
 Date Sampled: 09/28/2021      Sample Method: Grab  
 Time Sampled: 09:08      Source ID: 003001

Parameter	Result	Error	Qualifier	Units	MDL	PQL	Procedure	Analysis		Analyst
								Date	Time	
Chlorophyll a	9.43			ug/L	0.14	0.56	EPA 445	10/07/2021	08:41	DJ
Fluoride	1.78			mg/L	0.0500	0.200	EPA 300.0	10/06/2021	17:05	AC
Nitrate-Nitrite	0.124			mg/L	0.0100	0.0380	EPA 353.2	10/05/2021	09:30	KW
Phosphorus, Total	1.32			mg/L	0.0100	0.0400	EPA 365.4	10/05/2021	13:28	KW
Residue-fixed	1.00			mg/L	1.00	1.00	EPA 160.4	09/30/2021	09:00	DJ
Residue-nonfilterable (TSS)	1.60			mg/L	1.00	1.00	SM 2540 D	09/30/2021	09:00	DJ
Sulfate	119			mg/L	0.400	1.60	EPA 300.0	10/06/2021	17:05	AC
Total Kjeldahl Nitrogen	0.551			mg/L	0.100	0.400	EPA 351.2	10/05/2021	13:28	KW
Total N	0.675			mg/L	0.110	0.438	TKN + Total nitrate-nitrite	10/05/2021	13:28	KW
Dissolved Oxygen Saturation	86.1			per cent			FT 1500	09/28/2021	09:08	KC
Flow Rate	15.8			MGD			FT 1800	09/28/2021	09:08	KC
pH	7.90			SU			FT 1100	09/28/2021	09:08	KC
Specific Conductance	594			umhos/cm			FT 1200	09/28/2021	09:08	KC
Staff Gauge	1.58			feet			Calculated	09/28/2021	09:08	KC
Water Temperature	28.1			°C			FT 1400	09/28/2021	09:08	KC
Turbidity	5.44			NTU			FT 1600	09/28/2021	09:08	KC
Gross-Alpha	4.1	+/- 2.5		pCi/L	3	3	EPA 900.0	10/07/2021	07:48	FRS
Arsenic	1.65		I	UG/L	0.689	2.756	SM 3113 B	10/06/2021	11:06	Bench
Oil and Grease	1.37		U	MG/L	1.37	5.48	EPA 1664A	10/04/2021	09:22	Bench



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Work Order Number: S109230  
Project Name: DeSoto County - Split Sampling

#### Wet Chemistry - Quality Control

Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B109332 - DEFAULT PREP Wet Chem</b>											
<b>Blank (B109332-BLK1)</b>				Prepared & Analyzed: 09/30/21							
Residue-nonfilterable (TSS)	1.00	U	mg/L	1.00	1.00						
<b>LCS (B109332-BS1)</b>				Prepared & Analyzed: 09/30/21							
Residue-nonfilterable (TSS)	45.0		mg/L	1.00	1.00	46.2		97.4	90-110		
<b>Duplicate (B109332-DUP1)</b>				Source: S109217-01				Prepared & Analyzed: 09/30/21			
Residue-nonfilterable (TSS)	12.0	J-2	mg/L	1.00	1.00		13.0			8.00	5
<b>Duplicate (B109332-DUP2)</b>				Source: S109229-03				Prepared & Analyzed: 09/30/21			
Residue-nonfilterable (TSS)	3.20	J-2	mg/L	1.00	1.00		3.60			11.8	5
<b>Batch B109333 - DEFAULT PREP Wet Chem</b>											
<b>Blank (B109333-BLK1)</b>				Prepared & Analyzed: 09/30/21							
Residue-fixed	1.00	U	mg/L	1.00	1.00						
<b>Duplicate (B109333-DUP1)</b>				Source: S109217-01				Prepared & Analyzed: 09/30/21			
Residue-fixed	8.20	J-2	mg/L	1.00	1.00		9.40			13.6	5
<b>Duplicate (B109333-DUP2)</b>				Source: S109229-03				Prepared & Analyzed: 09/30/21			
Residue-fixed	1.80	J-2	mg/L	1.00	1.00		1.40			25.0	5
<b>Batch B110011 - Nutrient Prep</b>											
<b>Blank (B110011-BLK1)</b>				Prepared & Analyzed: 10/05/21							
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B110011 - Nutrient Prep</b>											
<b>Blank (B110011-BLK2)</b>											
						Prepared & Analyzed: 10/05/21					
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						
<b>Blank (B110011-BLK3)</b>											
						Prepared & Analyzed: 10/05/21					
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400						
Total Kjeldahl Nitrogen	0.100	U	mg/L	0.100	0.400						
<b>LCS (B110011-BS1)</b>											
						Prepared & Analyzed: 10/05/21					
Total Kjeldahl Nitrogen	1.96		mg/L	0.100	0.400	2.00		98.0	90-110		
Phosphorus, Total	2.02		mg/L	0.0100	0.0400	2.00		101	90-110		
<b>LCS (B110011-BS2)</b>											
						Prepared & Analyzed: 10/05/21					
Total Kjeldahl Nitrogen	1.90		mg/L	0.100	0.400	2.00		95.2	90-110		
Phosphorus, Total	2.02		mg/L	0.0100	0.0400	2.00		101	90-110		
<b>LCS (B110011-BS3)</b>											
						Prepared & Analyzed: 10/05/21					
Phosphorus, Total	2.01		mg/L	0.0100	0.0400	2.00		100	90-110		
Total Kjeldahl Nitrogen	1.87		mg/L	0.100	0.400	2.00		93.5	90-110		
<b>Duplicate (B110011-DUP1)</b>											
			<b>Source: S109209-01</b>			Prepared & Analyzed: 10/05/21					
Total Kjeldahl Nitrogen	0.707	J-3	mg/L	0.100	0.400		0.750			5.90	30
Phosphorus, Total	0.675		mg/L	0.0100	0.0400		0.674			0.148	30
<b>Duplicate (B110011-DUP2)</b>											
			<b>Source: S109221-01</b>			Prepared & Analyzed: 10/05/21					
Total Kjeldahl Nitrogen	0.927	J-3	mg/L	0.100	0.400		0.927			0.00	30
Phosphorus, Total	0.352		mg/L	0.0100	0.0400		0.355			0.849	30
<b>Duplicate (B110011-DUP3)</b>											
			<b>Source: S109232-01</b>			Prepared & Analyzed: 10/05/21					
Total Kjeldahl Nitrogen	0.237	I	mg/L	0.100	0.400		0.249			4.94	30
Phosphorus, Total	2.81	J-3	mg/L	0.0100	0.0400		2.79			0.643	30



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B110011 - Nutrient Prep</b>											
<b>Duplicate (B110011-DUP4)</b>			<b>Source: S109232-02</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Total Kjeldahl Nitrogen	0.110	I, J-3	mg/L	0.100	0.400		0.135			20.4	30
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400		U				30
<b>Duplicate (B110011-DUP5)</b>			<b>Source: S109241-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Total Kjeldahl Nitrogen	0.111	I, J-3	mg/L	0.100	0.400		0.136			20.2	30
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400		U				30
<b>Duplicate (B110011-DUP6)</b>			<b>Source: S109248-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Total Kjeldahl Nitrogen	0.193	I, J-3	mg/L	0.100	0.400		0.231			17.9	30
Phosphorus, Total	0.0100	U	mg/L	0.0100	0.0400		U				30
<b>Matrix Spike (B110011-MS1)</b>			<b>Source: S109209-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Total Kjeldahl Nitrogen	1.96	J-3	mg/L	0.100	0.400	1.00	0.750	121	90-110		
Phosphorus, Total	1.61		mg/L	0.0100	0.0400	1.00	0.674	93.6	90-110		
<b>Matrix Spike (B110011-MS2)</b>			<b>Source: S109221-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Total Kjeldahl Nitrogen	2.09	J-3	mg/L	0.100	0.400	1.00	0.927	116	90-110		
Phosphorus, Total	1.33		mg/L	0.0100	0.0400	1.00	0.355	97.7	90-110		
<b>Matrix Spike (B110011-MS3)</b>			<b>Source: S109232-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Total Kjeldahl Nitrogen	1.21		mg/L	0.100	0.400	1.00	0.249	96.1	90-110		
Phosphorus, Total	3.67	J-3	mg/L	0.0100	0.0400	1.00	2.79	87.9	90-110		
<b>Matrix Spike (B110011-MS4)</b>			<b>Source: S109232-02</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Phosphorus, Total	0.958		mg/L	0.0100	0.0400	1.00	U	95.8	90-110		
Total Kjeldahl Nitrogen	1.03	J-3	mg/L	0.100	0.400	1.00	0.135	89.1	90-110		
<b>Matrix Spike (B110011-MS5)</b>			<b>Source: S109241-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Phosphorus, Total	0.970		mg/L	0.0100	0.0400	1.00	U	97.0	90-110		
Total Kjeldahl Nitrogen	1.01	J-3	mg/L	0.100	0.400	1.00	0.136	87.2	90-110		



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B110011 - Nutrient Prep</b>											
<b>Matrix Spike (B110011-MS6)</b>			<b>Source: S109248-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Phosphorus, Total	0.958		mg/L	0.0100	0.0400	1.00	U	95.8	90-110		
Total Kjeldahl Nitrogen	1.08	J-3	mg/L	0.100	0.400	1.00	0.231	84.9	90-110		
<b>Reference (B110011-SRM1)</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>								
Total Kjeldahl Nitrogen	1.96		mg/L	0.100	0.400	2.00		97.8	90-110		
Phosphorus, Total	1.94		mg/L	0.0100	0.0400	2.00		97.0	90-110		
<b>Batch B110012 - Nutrient Prep</b>											
<b>Blank (B110012-BLK1)</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>								
Nitrate-Nitrite	0.0160	I	mg/L	0.0100	0.0380						
<b>Blank (B110012-BLK2)</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>								
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380						
<b>LCS (B110012-BS1)</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>								
Nitrate-Nitrite	1.04		mg/L	0.0100	0.0380	1.00		104	90-110		
<b>LCS (B110012-BS2)</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>								
Nitrate-Nitrite	1.01		mg/L	0.0100	0.0380	1.00		101	90-110		
<b>Duplicate (B110012-DUP1)</b>			<b>Source: S109226-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380		U				30
<b>Duplicate (B110012-DUP2)</b>			<b>Source: S109228-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380		0.0100				30



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#### Wet Chemistry - Quality Control

Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B110012 - Nutrient Prep</b>											
<b>Duplicate (B110012-DUP3)</b>			<b>Source: S109229-10</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380		U				30
<b>Duplicate (B110012-DUP4)</b>			<b>Source: S109236-07</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.0100	U	mg/L	0.0100	0.0380		U				30
<b>Matrix Spike (B110012-MS1)</b>			<b>Source: S109226-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.484		mg/L	0.0100	0.0380	0.500	U	96.8	90-110		
<b>Matrix Spike (B110012-MS2)</b>			<b>Source: S109228-01</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.472		mg/L	0.0100	0.0380	0.500	0.0100	92.4	90-110		
<b>Matrix Spike (B110012-MS3)</b>			<b>Source: S109229-10</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.465		mg/L	0.0100	0.0380	0.500	U	93.0	90-110		
<b>Matrix Spike (B110012-MS4)</b>			<b>Source: S109236-07</b>			<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	0.457		mg/L	0.0100	0.0380	0.500	U	91.4	90-110		
<b>Reference (B110012-SRM1)</b>						<b>Prepared &amp; Analyzed: 10/05/21</b>					
Nitrate-Nitrite	1.07		mg/L	0.0100	0.0380	1.00		107	90-110		
<b>Batch B110040 - Anion Prep</b>											
<b>Blank (B110040-BLK1)</b>						<b>Prepared &amp; Analyzed: 10/06/21</b>					
Sulfate	0.400	U	mg/L	0.400	1.60						
Fluoride	0.0500	U	mg/L	0.0500	0.200						
<b>Blank (B110040-BLK2)</b>						<b>Prepared &amp; Analyzed: 10/07/21</b>					
Fluoride	0.0500	U	mg/L	0.0500	0.200						
Sulfate	0.400	U	mg/L	0.400	1.60						



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#### Wet Chemistry - Quality Control

Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B110040 - Anion Prep</b>											
<b>LCS (B110040-BS1)</b>											
						Prepared & Analyzed: 10/06/21					
Fluoride	0.477		mg/L	0.0500	0.200	0.500		95.4	90-110		
Sulfate	4.73		mg/L	0.400	1.60	5.00		94.6	90-110		
<b>LCS (B110040-BS2)</b>											
						Prepared & Analyzed: 10/07/21					
Fluoride	0.457		mg/L	0.0500	0.200	0.500		91.5	90-110		
Sulfate	4.63		mg/L	0.400	1.60	5.00		92.6	90-110		
<b>Duplicate (B110040-DUP1)</b>											
			<b>Source: S109236-01</b>			Prepared & Analyzed: 10/06/21					
Sulfate	1.38	I	mg/L	0.400	1.60		1.40			0.871	20
Fluoride	0.624		mg/L	0.0500	0.200		0.632			1.35	20
<b>Duplicate (B110040-DUP2)</b>											
			<b>Source: S109236-02</b>			Prepared & Analyzed: 10/06/21					
Sulfate	3.34		mg/L	0.400	1.60		3.32			0.516	20
Fluoride	0.472		mg/L	0.0500	0.200		0.473			0.254	20
<b>Duplicate (B110040-DUP3)</b>											
			<b>Source: S109241-02</b>			Prepared & Analyzed: 10/07/21					
Sulfate	4.75		mg/L	0.400	1.60		4.74			0.272	20
Fluoride	0.736		mg/L	0.0500	0.200		0.739			0.366	20
<b>Matrix Spike (B110040-MS1)</b>											
			<b>Source: S109236-01</b>			Prepared & Analyzed: 10/06/21					
Sulfate	6.09		mg/L	0.400	1.60	5.00	1.40	93.9	90-110		
Fluoride	1.11		mg/L	0.0500	0.200	0.500	0.632	94.9	90-110		
<b>Matrix Spike (B110040-MS2)</b>											
			<b>Source: S109236-02</b>			Prepared & Analyzed: 10/06/21					
Fluoride	0.962		mg/L	0.0500	0.200	0.500	0.473	97.7	90-110		
Sulfate	8.18		mg/L	0.400	1.60	5.00	3.32	97.2	90-110		
<b>Matrix Spike (B110040-MS3)</b>											
			<b>Source: S109241-02</b>			Prepared & Analyzed: 10/07/21					
Fluoride	1.21		mg/L	0.0500	0.200	0.500	0.739	94.0	90-110		
Sulfate	9.53		mg/L	0.400	1.60	5.00	4.74	95.9	90-110		



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Analyte	Result	Qualifiers	Units	MDL	PQL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B110040 - Anion Prep</b>											
<b>Reference (B110040-SRM1)</b>				Prepared & Analyzed: 10/06/21							
Fluoride	10.3		mg/L	0.0500	0.200	10.0		103	90-110		
Sulfate	98.3		mg/L	0.400	1.60	100		98.3	90-110		
<b>Reference (B110040-SRM2)</b>				Prepared & Analyzed: 10/06/21							
Fluoride	0.995		mg/L	0.0500	0.200	1.00		99.5	90-110		
Sulfate	9.60		mg/L	0.400	1.60	10.0		96.0	90-110		
<b>Batch B110041 - DEFAULT PREP Wet Chem</b>											
<b>Blank (B110041-BLK1)</b>				Prepared: 10/04/21 Analyzed: 10/07/21							
Chlorophyll a	0.14	U	ug/L	0.14	0.56						
<b>LCS (B110041-BS1)</b>				Prepared: 10/06/21 Analyzed: 10/07/21							
Chlorophyll a	61.3		ug/L	0.14	0.56	58.7		104	90-110		
<b>Duplicate (B110041-DUP1)</b>				Source: S109229-01				Prepared: 09/29/21 Analyzed: 10/07/21			
Chlorophyll a	0.48	I, J-2	ug/L	0.14	0.56		0.67			33.0	30





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*Courtney McManus*

10/14/2021

Courtney McManus For Joshua Lipham / Technical Director

Date

### **DATA QUALIFIERS THAT MAY APPLY:**

- U = Not detected at or above the adjusted reporting limit
- I = The value is between the MDL and the PQL
- V = The analyte was detected in both the sample and the associated method blank
- J-3 = A sample matrix interference is suspected. Does not interfere with data usability.
- J-2 = The reported value failed to meet the established quality control criteria for either precision or accuracy. The data usability is not effected.

### **NOTES:**

- MDL = Method Detection Limit
- PQL = Practical Quantification Limit
- %REC = Percent Recovery
- RPD = Relative Percent Difference

For questions and comments regarding these results, please contact Joshua Lipham @ (863) 428-2732 (email: Joshua.Lipham@mosaicco.com).  
*Results relate only to the samples.*

S109230

Mosaic Minerals Environmental  
13830 Circa Crossing Dr.

Date: 9-28-21  
COC #:

Mosaic Environmental  
7450 CR 630  
Mulberry, FL 33860  
(863) 534 - 9769

Lithia, FL 33547

Samples For:

Owner: Mike Mooneyham

Revision Date: 09/7/2021

Sampled By (Print):

*Phillip Baxter*

Sampler Signature:

Project Name: DeSoto County Split Sampling

						A	B	C	D	E	F	G					COMMENTS						
Date:	Time:	LAB ID #	SOURCE ID #	Sample ID	Type	Unpreserved 950 ml: TSS, FSS	Unpreserved 250 ml: F, SO4	H2SO4 500ML: TOTAL P, TOTAL N	Unpreserved 500 ml Amber, Chloro-A	H2SO4 950ml Glass Amber, Oil and Grease	HNO3 250ML: AS	HNO3 1/2 gal: GA15, RA 226/228											
9-28-21	9:08	-01	03001	8FM001	G	1	1	1	1	1	1	1											
Items:						Relinquished By:						Accepted By:						Date / Time:					
7						<i>[Signature]</i>						<i>[Signature]</i>						9-28-21 @ 13:40					



TEMP 4.5 C  
THERMOMETER ID  
1080409  
PHX2 ✓ INIT *ke*  
PH PAPER ID  
0051201



SURFACE WATER DATA SHEET

Project: Desoto County Split

Sampler(s): Phillip Baxter

Date: 9-28-21

FDEP-FW-1100 FDEP-FW-1200 FDEP-FW-1400 FDEP-FW-1600 FDEP-FW-1500

Source ID	Location	TYPE	TIME	PH	COND	TEMP	Turbidity	DO	DO Sat	SAMPLE DEPTH	FLOW	STAFF GAUGE	WATER ELEVATION	COLOR
				6.0 < PH < 8.5 S.U.	< 1275 µS	°C	< 29 NTU's	> 5.0 mg/L	> 38 %	Feet	MGD	Feet	MSL	
	<u>SFM-001 (Split Sampling)</u>	<u>G</u>	<u>9:08</u>	<u>7.90</u>	<u>594</u>	<u>28.1</u>	<u>5.94</u>	<u>—</u>	<u>86%</u>	<u>1.0</u>	<u>15.71</u>	<u>1.58</u>	<u>—</u>	<u>LT.</u>

Source ID	Location	Width (ft)	x Depth (ft)	x Velocity (ft/s)	= CFS	x 0.64632 = MGD

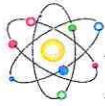
Sampling Sequence: VOC, Organics, Metals, Microbio, Inorganics/Physical, Rad

BEGIN TIME 9:08 END TIME 9:20

FIELD CONDITIONS FOR SAMPLING DATE :

CLOUD COVER: 0 Clear / Scattered / Broken / Overcast WIND DIRECTION: 0 N / NE / E / SE / S / SW / W / NW / Variable / Calm  
AMBIENT TEMP. (°C) start: 28.0 end: 28.0 VISIBILITY start: Clear end: Clear

COMMENTS:



# Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407) 382-7744

Certification I. D. # E83033

Work Order #: 2110011

Report Date: 10/08/21

Report to:

Mosaic Fertilizer, LLC.

13830 Circe Crossing Drive

Lithia, FL 33547

Attention: Joshua Lipham / Adriana Rivers

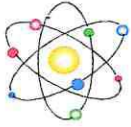
I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and TNI Standards. The test results in this report relate only to the samples received.

Signed

Michael J. Naumann – President

Shawn M. Naumann – Laboratory Manager

Date 10-8-21



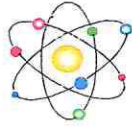
Florida Radiochemistry Services, Inc.

**Sample Login**

<b>Client:</b>	<b>The Mosaic Company</b>	<b>Date / Time Received</b>	<b>Work order #</b>
		<b>10/05/21 11:35</b>	<b>2110011</b>
<b>Client Contact:</b>	<b>Joshua Lipham/Adriana Rivers</b>		
<b>Project I.D.</b>	<b>DeSoto County DeSoto County - Split Sampling</b>		
<b>Lab Sample I.D.</b>	<b>Client Sample I.D.</b>	<b>Sample Date/Time</b>	<b>Analysis Requested</b>
<b>2110011-01</b>	<b>S109230-01 SFM D 001</b>	<b>09/28/21 09:08</b>	<b>Gross Alpha</b>

**Analysis Results**

<b>Gross Alpha</b>	<b>4.1</b>
<b>Error +/-</b>	<b>2.5</b>
<b>MDL</b>	<b>3.0</b>
<b>EPA Method</b>	<b>900.0</b>
<b>Prep Date</b>	<b>10/06/21</b>
<b>Prep Time</b>	<b>08:30</b>
<b>Analysis Date</b>	<b>10/07/21</b>
<b>Analysis Time</b>	<b>07:48</b>
<b>Analyst</b>	<b>MJN</b>
<b>Units</b>	<b>pCi/l</b>



QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	2110010-03	10/07/21	3.8	10.0	15.7	16.2	119	3.1
		<b>Quality</b>	<b>Control</b>	<b>Limits</b>				
		<b>% RPD</b>		<b>% Rec.</b>				
Gross Alpha		20.0		70-130				

SUBCONTRACT ORDER  
Mosaic Fertilizer, LLC Environmental Laboratory



DeSoto County  
DeSoto County - Split Sampling

S109230

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory  
7450 CR 630 Building 1  
Mulberry, FL 33865  
Phone: 863-428-2764  
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Florida Radiochemistry Service  
5456 Hoffner Avenue #201  
Orlando, FL 32812-2517  
Phone : (407) 382-7733

Sub Lab ID

Sample ID: S109230-01 003001

SFM D 001

Water Sampled: 09/28/21 09:08

GA 15

Containers:

1

*J. Copponet*  
Released By

*M. Munn*  
Received By

10-5-21 @ 11:35  
Date

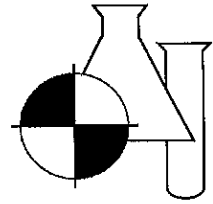
Released By

Received By

Date

# BENCHMARK

## EnviroAnalytical Inc.



NELAC Certification #E84167

### ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 21091829

Mosaic Fertilizer, L L C  
13830 Circa Crossing Drive  
Lithia, FL 33547

Project Name : DESOTO COUNTY - SPLIT SAMPLING

Project ID : S109230

Date Received : 09/29/2021

Time Received : 1420

Joshua Lipham

Submission Number:	21091829	Sample Point:	003001
Sample Number:	001	Sample ID:	S109230-01
Sample Date:	09/28/2021	Sample Description:	SFM D 001
Sample Time:	0908	Sample Method:	Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
OIL & GREASE	1.37 U	MG/L	1.37	5.48	1664A	10/04/2021 09:22	CE
ARSENIC	1.65 I	UG/L	0.689	2.756	SM3113B	10/06/2021 11:06	IE

*[Signature]*  
Dale B. Dixon / Laboratory Director

10/13/2021

Date

Tülay Tanrisever - Technical Director/QC Officer

Kara Peterson / QA Officer

#### DATA QUALIFIERS THAT MAY APPLY:

- A = Value reported is an average of two or more determinations.
- G2 = Accuracy standard exceeds acceptable control limits. Duplicate and spike values are within control limits. Reported data are usable.
- B = Results based upon colony counts outside the ideal range.
- H = Value based on field kit determination. Results may not be accurate.
- I = Reported value is between the laboratory MDL and the PQL.
- J1 = Estimated value. Surrogate recovery limits exceeded.
- J2 = Estimated value. No quality control criteria exists for component.
- J3 = Estimated value. Quality control criteria for precision or accuracy not met.
- J4 = Estimated value. Sample matrix interference suspected.
- J5 = Estimated value. Data questionable due to improper lab or field protocols.
- K = Off-scale low. Value is known to be < the value reported.
- L = Off-scale high. Value is known to be > the value reported.
- N = Presumptive evidence of presence of material.
- O = Sampled, but analysis lost or not performed.
- Q = Sample held beyond accepted hold time.

#### NOTES:

- PQL = 4xMDL.
- MBAS calculated as LAS; molecular weight = 340.
- ND = Not detected at or above the adjusted reporting limit.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

- T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.
- U = Analyte analyzed but not detected at the value indicated.
- V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.
- Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
- Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
- ! = Data deviate from historically established concentration ranges.
- ? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- \* = Not reported due to interference.
- Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

#### COMMENTS:



SUBCONTRACT ORDER  
Mosaic Fertilizer, LLC Environmental Laboratory



DeSoto County  
DeSoto County - Split Sampling

S109230

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory  
7450 CR 630 Building 1  
Mulberry, FL 33865  
Phone: 863-428-2764  
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Benchmark Analytical  
1711 12th St. E.  
Palmetto, FL 34221  
Phone : (941) 723-9986

Sub Lab ID

Sample ID: S109230-01 003001

SFM D 001

Water Sampled: 09/28/21 09:08

21091829-11

Oil & Grease, EPA 1664A

As, Total SM3113 B

Sample Receipt Temp. 2.6 °C

Thermometer ID: 258

pH < 2  Init. (A)

Containers:

2

Kopperud  
Released By

[Signature]  
Received By

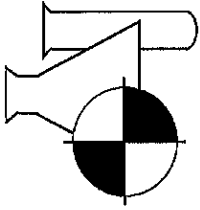
9-29-31@1310  
Date

2

[Signature]  
Released By

(A)  
Received By

9/29/21 1420  
Date



# BENCHMARK

*EnviroAnalytical Inc.*

NELAC Certification #E84167

Submission Number: 21091829  
 Project Name: DESOTO COUNTY - SPLIT SAMPLING

## QC REPORT

SUBMISSION NUMBER	SAMPLE NUMBER	METHOD	ANALYTE	ANALYSIS DATE/TIME	QC FLAG	QC VALUE	SAMPLE RESULT	LR RESULT	LR %RSD	SPK RESULT	STD-SPK %REC
21091099 - 001	595400	1664A	OIL & GREASE	10/04/2021 09:22	MB	0.00	0.700				
		1664A	OIL & GREASE	10/04/2021 09:22	MB	0.00	0.500				
		1664A	OIL & GREASE	10/04/2021 09:22	SPK	40.00	0.500			38.500	95.0
		1664A	OIL & GREASE	10/04/2021 09:22	STD	40.00	41.800				104.5
		1664A	OIL & GREASE	10/04/2021 09:22	STD	40.00	44.300				110.8
		SM3113B	ARSENIC	10/06/2021 11:31	LCS MID	20.00	19.200				96.0
		SM3113B	ARSENIC	10/06/2021 12:51	LCS MID	20.00	18.500				92.5
		SM3113B	ARSENIC	10/06/2021 13:52	LCS MID	20.00	21.700				108.5
		SM3113B	ARSENIC	10/06/2021 10:00	MB	0.00	-0.582				
		SM3113B	ARSENIC	10/06/2021 11:28	MB	0.00	-0.604				
		SM3113B	ARSENIC	10/06/2021 12:48	MB	0.00	0.372				
		SM3113B	ARSENIC	10/06/2021 13:49	MB	0.00	-0.345				
21091930 - 001	596799	SM3113B	ARSENIC	10/06/2021 10:22	MS	20.00	1.420			20.200	93.9
21091999 - 001	596882	SM3113B	ARSENIC	10/06/2021 11:43	MS	20.00	3.230			23.600	101.8
21100003 - 008	596948	SM3113B	ARSENIC	10/06/2021 13:34	MS	20.00	1.700			20.500	94.0
21091930 - 001	596799	SM3113B	ARSENIC	10/06/2021 10:28	MSD		20.200	20.500	1.47		
21091999 - 001	596882	SM3113B	ARSENIC	10/06/2021 11:49	MSD		23.600	24.900	5.63		
		SM3113B	ARSENIC	10/06/2021 10:03	QCS	20.00	20.700				103.0

Comments:

QC FLAGS: MB or BLK = METHOD BLANK LR = LAB REPLICATE MSD = MATRIX SPIKE DUPLICATE STD or LCS = STANDARD SPK or MS = MATRIX SPIKE