

Date of Issue: 09/09/2023 04:08:39

DEP Bureau of Laboratories - Harrisburg P.O. Box 1467 2575 Interstate Drive Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059 PA DEP LAP - DEP Lab ID: 22-00223

	Analytical Report For Oil And Gas Mgmt Sample ID: 9563 002 Date Collected: 08/29/2023 09:45:00 AM Lab Sample ID: 12023014344 Status: Completed							
Sample II	D: 9563 002	Date Collected: 08/2		Lab Sample ID: 12023014344	Status: Completed			
Na	me of Sample Collector:	Lucas L Eichner						
	Date Received:	08/30/2023						
	County:	Venango		State:				
	Municipality:	Sugarcreek Boro						
		BELLOWS SPRING						
		RENO PA.						
	Sample Medium:	Water						
	Sample Medium Type:	Water						
	Location:	Bellows Spring - BS2						
	Reason:	Complaint						
	Project:	NOT INDICATED						
	Standard Anlysis:	946						
	Matrix:	Water						
Legal Seal:	1206124	Intact:	Yes					
Legal Seal:	1206126	Intact:	Yes					
Legal Seal:	1206125	Intact:	Yes					
	Stream Condition:							

Analytical Report For Oil And Gas Mgmt

Sample ID: 9563 002 Date Collected: 08/25	9/2023 09:45:00 AM	Lab Sample ID: 12023014344	Status: Completed	
Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
0410 ALKALINITY AS CaCO3 @ pH 4.5	0.6 mg/L	08/30/2023 04:30 PM	JAHOGUE	SM 2320B
* Comment ** Sample bottle had headspace present before analysis				
1105H ALUMINUM, TOTAL (WATER & WASTE) ICPMS	552.000 ug/L	08/31/2023 03:14 PM	SCHOY	EPA 200.8
1002H ARSENIC, TOTAL (WATER & WASTE) BY ICPMS	<3.00 ug/L (U)	08/31/2023 01:09 PM	SCHOY	EPA 200.8
1007M BARIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.228 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
1870 BROMIDE BY ION CHROMATOGRAPHY	1.884 mg/L	08/31/2023 12:08 AM	TVOROBEYCH	EPA 300.0
0916A CALCIUM, TOTAL (WATER & WASTE) BY ICP	25.200 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
00900 HARDNESS, TOTAL (CALCULATED)	95 mg/L	08/31/2023 10:40 AM	CREITMEYER	SM 2340 B
* Comment ** Accredited by NJ only - accreditation not available from PA				
1045M IRON, TOTAL IN MG/L (WATER & WASTE) BY ICP	<0.100 mg/L (U)	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
1132A LITHIUM, TOTAL (WATER & WASTE) BY ICP	<25.0 ug/L (U)	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
0927A MAGNESIUM, TOTAL (WATER & WASTE) BY ICP	7.81 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
01055M MANGANESE, TOTAL in MG/L (WATER & WASTE) BY ICP	0.208 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
00403 pH, Lab (Electrometric)	5.1 pH units	08/30/2023 04:30 PM	JAHOGUE	SM 4500-H+ B
* Comment ** Holding time exceeded				
00937A POTASSIUM, TOTAL (WATER & WASTE) BY ICP	1.35 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
1147H SELENIUM, TOTAL (WATER & WASTE) BY ICPMS	<4.00 ug/L (U)	08/31/2023 01:09 PM	SCHOY	EPA 200.8
0929A SODIUM, TOTAL (WATER & WASTE) BY ICP	88.00 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
0095 SPECIFIC CONDUCTIVITY @ 25.0 C	705.00 umhos/cm	09/01/2023 09:50 AM	MTUZINSKI	SM 2510B
1082M STRONTIUM, TOTAL in MG/L (WATER & WASTE) BY ICP	0.422 mg/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7
0403T Temperature at which pH is measured	20.08 C	08/30/2023 04:30 PM	JAHOGUE	SM 4500-H+ B
0940 Total Chloride-Ion Chromatograph	211.75 mg/L	09/01/2023 06:44 AM	TVOROBEYCH	EPA 300.0
0300 TOTAL DISSOLVED SOLIDS @ 180C	462 mg/L	08/30/2023 10:20 AM	JRONEMUS	SM 2540C-15
0945 Total Sulfate-Ion Chromatograph	6.35 mg/L	08/31/2023 12:08 AM	TVOROBEYCH	EPA 300.0
0530 TOTAL SUSPENDED SOLIDS	<20 mg/L (U)	08/30/2023 10:30 AM	CLONTZ	USGS I-3765-85
2079 TURBIDITY, NEPHELMETRIC	<1 NTU (U)	08/30/2023 03:03 PM	JAHOGUE	EPA 180.1
1092A ZINC, TOTAL (WATER & WASTE) BY ICP	41.00 ug/L	08/31/2023 10:40 AM	CREITMEYER	EPA 200.7

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2016 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report. * denotes tests that the laboratory is not accredited for

U - Indicates analysis was performed for the test but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, reported between Reporting Limit (RL) and Minimum Detection Limit (MDL).

Jennifer Fesler, Technical Director, Bureau of Laboratories

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Date Collected: 08/29/2023 09:45:00 AM

Lab Sample ID: 12023014344

3 of 3