Foth

Memorandum

2121 Innovation Court, Suite 100 P.O. Box 5095 De Pere, WI 54115-5095 (920) 497-2500 foth.com

August 30, 2023

TO: Molly Long, Wisconsin Department of Natural Resources (WDNR)

CC: Leland Roberts, Rio Tinto; Laura Vedral, Rio Tinto; Steve Donohue, Foth Infrastructure & Environment, LLC (Foth); Bill Adams, Red Cap Consulting; Bob Gensemer, GEI Consultants, Inc. (GEI); Jennifer Lynch, GEI; Ashley Romero, GEI

FR: Nick Glander, Mark Ciardelli, and Sharon Kozicki, Foth

RE: Stream C Spring 2023 Sampling Results Summary Reclaimed Flambeau Mine, Ladysmith, Wisconsin

1. Introduction

Foth and GEI prepared a plan to evaluate Stream C, located on the Reclaimed Flambeau Mine site in Ladysmith, WI. The *Stream C Evaluation Work Plan – Revision 1*, (*Work Plan*) (Foth and GEI, 2023) was submitted to the Department on July 14, 2023.

This memorandum presents the activities and results from the spring 2023 Stream C sampling.

2. Scope of Work

As outlined in the *Work Plan* (Foth and GEI, 2023), the spring scope of work included the following:

- Water chemistry
- Flow monitoring

2.1 Water Chemistry

Water quality monitoring was completed at ten locations during qualifying flow events. The trigger for a qualifying storm event was defined as at least 0.5 inches of rainfall at the Site with visible surface water flow at the *Work Plan* locations. The monitoring locations are shown on Figure 2, and the analytical results are summarized in Table 1. One duplicate sample was collected during each sampling event.

Field parameters were measured and recorded using a water quality meter. Water samples were collected using a peristaltic pump and new tubing for each sample to minimize the potential for sediment disturbance and cross-contamination between samples following the guidance outlined in the *Work Plan* (Foth and GEI, 2023).

Laboratory analytical activities were performed by Pace Analytical Services (Pace), located in Green Bay, Wisconsin. Pace is a Wis. Admin. Code NR 149-certified laboratory.

Where appropriate, elements of the 2020 *Quality Assurance Project Plan (QAPP)* (Foth, 2020) were utilized to manage quality through all phases of each sampling event, including sample collection, sample custody and transportation, and data validation and management.

2.2 Flow

Flow monitoring consisted of visual observations and flow rate determination. Visual observations were documented using a combination of field notes, pictures, and videos.

When there was flow, flow rate was manually monitored near the mouth of Stream C with a hand-held velocimeter unit, which records velocity and depth at multiple locations at a stream cross-section and automatically calculates flow rate. The location of flow monitoring near the mouth of Stream C, at SW-STM, was established during the first event based on field observations, and the same location was used during subsequent flow monitoring. Its location is shown on Figure 2.

Flow rates were monitored with a hand-held velocimeter unit at the Hwy 27 and Copper Park Lane culverts until dedicated pressure transducers were installed to continuously monitor the pressure/flow. The pressure transducers were installed on May 17, 2023, in the existing staff gauge brackets at the two culverts and set to record water depth every 15 minutes. Pressure-to-flow conversion was accomplished with a combination of continuous depth monitoring and known flow hydraulics associated with the culvert characteristics using the standard operating procedure (SOP) established in the *Work Plan*.

The results are presented in the next section.

3. Spring 2023 Stream C Activities

3.1 Initial Spring Event

On April 19, 2023, with several inches of snow still present, a qualifying event occurred that totaled 0.53 inches of rain. The sampling event began around 11:00 a.m. Field parameters and surface water samples were collected from the ten sample locations throughout the day. The field forms are provided in Attachment 1. The photographic log is provided in Attachment 2.

Flow was noted at the beginning of the sampling event. Velocity measurements were taken at the upstream end of the two culverts and at sample location SW-STM near the confluence of the Flambeau River. This data is provided on the cover page of the field forms.

The surface water samples were collected and submitted to Pace for laboratory analysis. During processing of the samples at the laboratory, Pace contacted Foth to confirm the sample collection procedure as the chain-of-custody indicated dissolved constituents were not field-filtered. Upon discussions with the field sampler and a review of the sampling procedure, it was determined that the chain-of-custody was accurate; therefore, Foth removed the dissolved set from the analysis. As the samples had not been field-filtered and had already been preserved, they could not be lab-filtered. Foth decided to analyze the total constituents to gather as much usable data as possible for the study. The analytical summary is provided in Table 1.

The team concluded that the sampling event should be redone as soon as possible to collect a complete analytical suite of constituents, as stated in the *Work Plan*.

3.2 Initial Spring Sampling Event - Revisit

On April 29, 2023, another qualifying rain event triggered the re-visit sampling event with precipitation recorded at 0.5 inches of rain. The rain occurred overnight, and the sampling began the following morning. Field parameters and surface water samples were collected from the ten sample locations. The field forms from the April 29 sampling event are provided as Attachment 3. The photographic log from the April 29 event is provided as Attachment 4. The analytical summary is provided in Table 1.

The collected samples were delivered to Pace Laboratory for analysis. The analytical reports for both events are provided as Attachment 5.

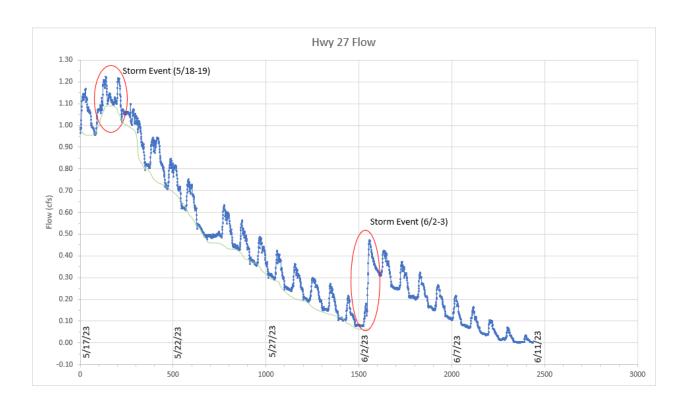
3.3 Flow Inspections

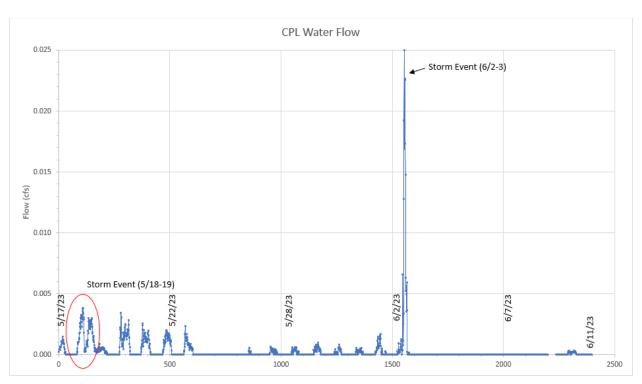
Flow observations are completed on a bi-monthly schedule. The field forms for these events are provided in Attachment 6. Flow was manually monitored during both spring sampling events at the upstream or inlet side of the culvert. The flow results are provided on the respective sampling event field form.

Transducers were installed at the upstream or inlet side of the culverts at both Hwy 27 and Copper Park Lane culverts. The transducers started collecting data on May 16, 2023. The flow charts through July 12, 2023, are provided below.

Some points to note are as follows:

- Due to dry weather conditions, flow was noted to have stopped at Hwy 27 on June 11, 2023.
- ◆ The light green line loosely sketched in the Hwy 27 plot attempts to correct for the ponded/stagnant water observed in the Hwy 27 culvert. With this correction, the actual background flow is in the 0.10 to 0.15 cubic feet per second (cfs) range.
- ◆ The daily cycling observed in the Hwy 27 culvert is most likely explained by a temperature-related effect related to evapotranspiration.
- No daily cycling is observed at the Copper Park Lane culvert. This is likely because there
 is no standing water in or adjacent to this culvert; therefore, evapotranspiration effects
 are not as prominent.
- ◆ The two storm events noted show a maximum flow of about 0.15 to 0.35 cfs in the Hwy 27 culvert (after correcting for the ponded water discussed above) and are relatively short-lived (6 to 8 hours).
- ◆ The Copper Park Lane culvert shows low flow during the runoff events, and events last for only a few hours at most; zero flow is observed during non-event periods.
- ◆ The flow observed at Copper Park Lane during storm events compared to Hwy 27 suggests that flow dissipates (infiltrates, evaporates, gets lost to storage, etc.) between the two culverts.





4. Future Sampling Events

Due to the lack of qualifying rain events, the second spring event has been canceled. The next Stream C sampling event will commence in the fall of 2023. In the meantime, flow analysis has continued with periodic inspections and data downloads from the dedicated transducers.

5. References

Foth Infrastructure & Environment, LLC (Foth), 2020. Quality Assurance Project Plan: Long-Term Care Monitoring for the Reclaimed Flambeau Mine. August 2020.

Foth and GEI Consultants, Inc., (GEI) 2023. Steam C Evaluation Work Plan – Revision 1. 21 July 2023.

Attachments

Figure 1 Site Location Map

Figure 2 Stream C Evaluation Locations

Table 1 Spring 2023 Analytical Results Summary

Attachment 1 Field Forms - April 19, 2023

Attachment 2 Photographic Log – April 19, 2023

Attachment 3 Field Forms – April 29, 2023

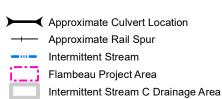
Attachment 4 Photographic Log – April 29, 2023 Attachment 5 Pace Laboratory Analytical Reports

Attachment 6 Flow Inspection Forms

Figures



- Corporation and its data suppliers.
- 2. Horizontal datum based on NAD 1983. Horizontal coordinates based on Wisconsin State Plane North (Feet).
- Surface Water Sampling Locations
- Groundwater Wells MONITORED FOR WATER LEVELS ONLY
- **Groundwater Wells**
- Flambeau River Surface Water Monitoring Location

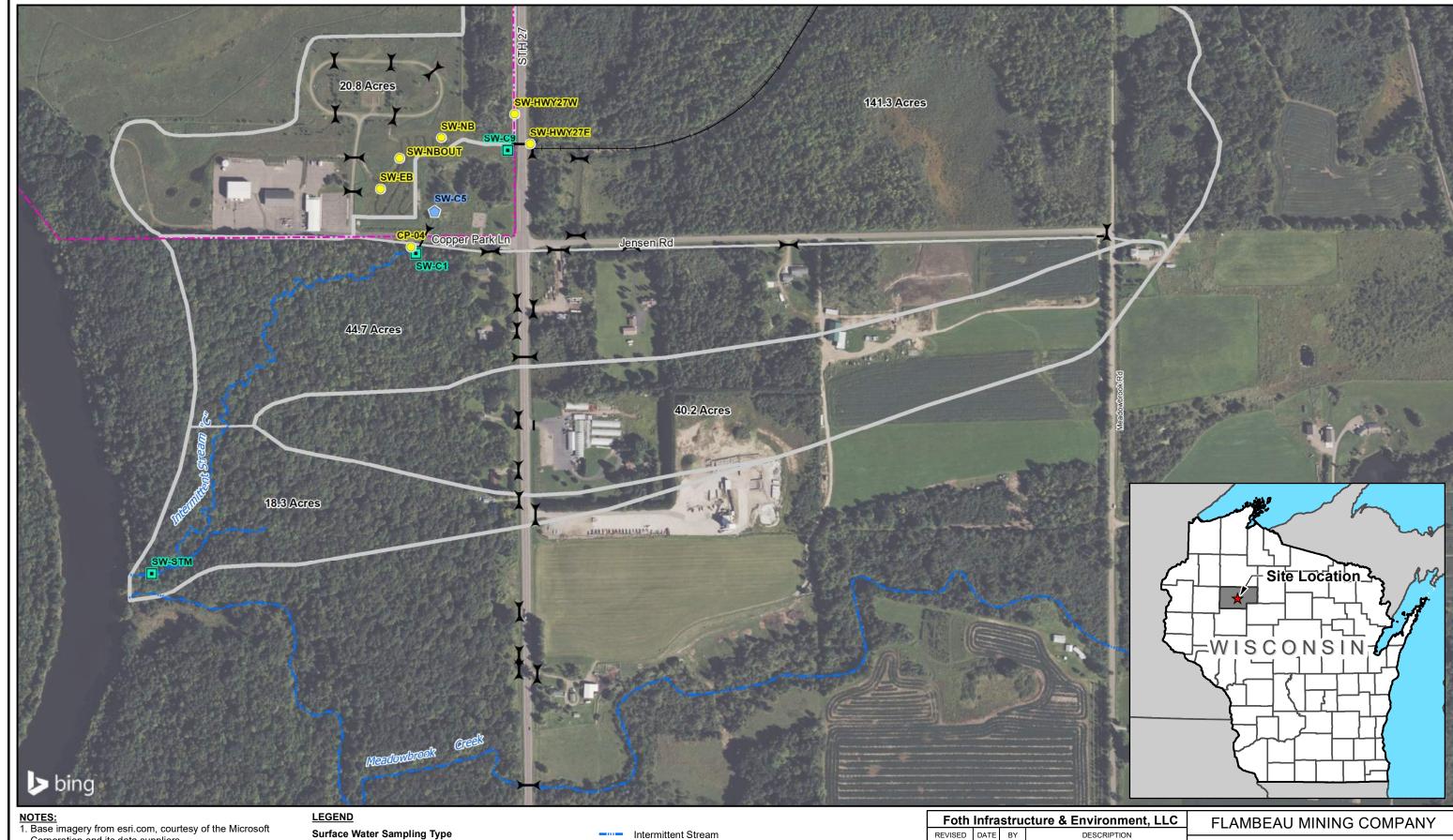


REVISED DATE DESCRIPTION DATE: MAR. '23 PREPARED BY: MCC2

FIGURE 1

SITE LAYOUT MAP STREAM C EVALUATION WORK PLAN





- Corporation and its data suppliers.

 2. Horizontal datum based on NAD 1983. Horizontal coordinates based on Wisconsin State Plane North (Feet).
- Flow, Visual Oberservation, Water Quality, WET Test
- Visual Oberservation, Water Quality, WET Test
- Visual Oberservation, Water Quality
- → Approximate Culvert Location



Flambeau Project Area

Intermittent Stream C Drainage Area



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FIGURE 2

REAM C EVALUATION LOCATIONS REAM C EVALUATION WORK PLAN

Date: MARCH 2023 DATE: MAR. '23 Scale APPROVED BY: SVF DATE:MAR.'23 Drafted by: Project No: 17F777.23

Table

Table 1 Spring 2023 Analytical Results Summary Reclaimed Flambeau Mine - Ladysmith, WI

								SW-C5
	Location	CP-04	CP-04	SW-C1	SW-C1	SW-C5	SW-C5	(Field Dup)
Chemical Name	Unit	4/19/2023	4/29/2023	4/19/2023	4/29/2023	4/19/2023	4/29/2023	4/29/2023
Temperature	deg c	1.17	7.83	2.01	6.57	2.16	6.85	NA
Specific Conductance	umhos/cm	287	784	74	130	65	103	NA
рН	S.U.	7.66	6.13	6.63	6.19	6.43	6.01	NA
Redox Potential	mV	42.9	54.3	37.6	74.3	31.1	78.1	NA
Dissolved Oxygen	mg/L	7.56	1.64	11.01	9.71	10.78	8.07	NA
Color	Visual	Stained Lt. Brown						
Odor	Smell	None						
Turbidity	Visual	None	Slight	None	None	None	None	None
Dissolved Organic Carbon	mg/L	NS	9.4	NS	7.8	NS	7.6	8.2
Total Suspended Solids	mg/L	2.9	5.2	3.8	0.93	10.5	0.51	1.3
Dissolved Alkalinity as CaCO3	mg/L	NS	34.5	NS	15.6	NS	14.9	12.1
Total Alkalinity as CaCO3	mg/L	60.0	39.5	10	17.3	8.6	11.1	12.9
Dissolved Calcium	ug/L	NS	11900	NS	6320	NS	4760	4440
Total Calcium	ug/L	5370	12900	3160	6470	2900	4650	4760
Dissolved Chloride	mg/L	NS	165	NS	27.2	NS	24.2	23.8
Total Chloride	mg/L	52.3	167	15.0	27.0	12.5	20.8	21.2
Dissolved Copper	ug/L	NS	10.1	NS	5.8	NS	6.4	6.1
Total Copper	ug/L	19.0	12.7	6.3	7.3	7.6	6.7	7.2
Dissolved Hardness	mg/L	NS	58.9	NS	26.9	NS	20.4	19.3
Total Hardness	mg/L	27.7	60.5	13.1	27.4	12.2	19.7	19.9
Dissolved Iron	ug/L	NS	< 58.0	NS	130	NS	126	153
Total Iron	ug/L	577	478	681	291	972	265	268
Dissolved Magnesium	ug/L	NS	7060	NS	2700	NS	2080	2000
Total Magnesium	ug/L	3480	6860	1270	2720	1220	1970	1940
Dissolved Manganese	ug/L	NS	89.9	NS	14.5	NS	5.0	4.9
Total Manganese	ug/L	21.2	103	13.8	17.8	33.9	7.5	7.2
Dissolved Potassium	ug/L	NS	2240	NS	1040	NS	1020	955
Total Potassium	ug/L	1130	2300	994	1090	1030	976	1000
Dissolved Sodium	ug/L	NS	104000	NS	17000	NS	14900	14000
Total Sodium	ug/L	40900	101000	9650	16500	8650	13600	13600
Dissolved Sulfate	mg/L	NS	7.5	NS	3.7	NS	3.2	3.3
Total Sulfate	mg/L	5.0	8.2	2.6	3.7	2.2	3.1	3.2
Dissolved Sulfide	mg/L	NS	< 1.2	NS	< 1.2	NS	< 1.2	< 1.2
Dissolved Zinc	ug/L	NS	< 10.3	NS	< 10.3	NS	< 10.3	< 10.3
Total Zinc	ug/L	15.2	10.4	< 10.3	< 10.3	11.7	< 10.3	16.3

Table 1 (continued)

	Location	SW-C9	SW-C9	SW-EB	SW-EB	SW-HWY27E	SW-HWY27E	SW-HWY27W
Chemical Name	Unit	4/19/2023	4/29/2023	4/19/2023	4/29/2023	4/19/2023	4/29/2023	4/19/2023
Temperature	deg c	4.12	6.77	2.45	7.50	4.09	6.56	2.68
Specific Conductance	umhos/cm	52	54	164	273	23	30	324
pH	s.u.	6.76	5.55	6.68	6.75	6.13	5.73	5.92
Redox Potential	mV	74.7	85.7	22.3	28.3	68.2	83.1	71.8
Dissolved Oxygen	mg/L	11.49	7.77	10.77	10.18	10.63	11.02	9.66
Color	Visual	Stained Lt. Brown						
Odor	Smell	None	None	None	Slight Organic	None	None	None
Turbidity	Visual	None	None	Slight	Slight	Slight	Slight	Slight
Dissolved Organic Carbon	mg/L	NS	8.7	NS	7.2	NS	8.3	NS
Total Suspended Solids	mg/L	3.3	6.4	4.3	2.8	2.4	1.4	0.80
Dissolved Alkalinity as CaCO3	mg/L	NS	< 7.4	NS	35.5	NS	< 7.4	NS
Total Alkalinity as CaCO3	mg/L	7.2	< 7.4	17.5	36.0	5.4	< 7.4	5.5
Dissolved Calcium	ug/L	NS	2400	NS	10800	NS	1930	NS
Total Calcium	ug/L	2220	2520	6300	11200	2120	2220	6890
Dissolved Chloride	mg/L	NS	10.6	NS	68.0	NS	4.8	NS
Total Chloride	mg/L	49.2	11.0	36.1	61.1	5.9	4.1	95.6
Dissolved Copper	ug/L	NS	3.8	NS	4.9	NS	3.6	NS
Total Copper	ug/L	17.7	5.0	6.9	6.3	4.1	4.1	6.0
Dissolved Hardness	mg/L	NS	9.8	NS	46.9	NS	7.9	NS
Total Hardness	mg/L	8.4	10.3	25.8	47.6	8.5	9.1	26.2
Dissolved Iron	ug/L	NS	290	NS	93.6	NS	214	NS
Total Iron	ug/L	689	741	707	480	683	584	431
Dissolved Magnesium	ug/L	NS	919	NS	4810	NS	756	NS
Total Magnesium	ug/L	684	983	2460	4740	780	856	2180
Dissolved Manganese	ug/L	NS	17.5	NS	17.8	NS	11.5	NS
Total Manganese	ug/L	31.6	24.9	27.7	24.1	15.1	17.6	77.3
Dissolved Potassium	ug/L	NS	684	NS	1470	NS	635	NS
Total Potassium	ug/L	738	770	1730	1560	922	699	1790
Dissolved Sodium	ug/L	NS	7140	NS	37600	NS	3080	NS
Total Sodium	ug/L	29000	7010	19700	37000	4340	3680	49100
Dissolved Sulfate	mg/L	NS	1.3	NS	6.9	NS	1.4	NS
Total Sulfate	mg/L	6.4	1.3	4.1	6.8	1.6	1.2	5.0
Dissolved Sulfide	mg/L	NS	< 1.2	NS	< 1.2	NS	< 1.2	NS
Dissolved Zinc	ug/L	NS	< 10.3	NS	< 10.3	NS	< 10.3	NS
Total Zinc	ug/L	20.7	11.6	< 10.3	< 10.3	< 10.3	25.5	24.8

Table 1 (continued)

					SW-NB				
	Location	SW-HWY27W	SW-NB	SW-NB	(Field Dup)	SW-NBOUT	SW-NBOUT	SW-STM	SW-STM
Chemical Name	Unit	4/29/2023	4/19/2023	4/29/2023	4/19/2023	4/19/2023	4/29/2023	4/19/2023	4/29/2023
Temperature	deg c	6.77	3.17	7.68	NA	2.97	7.26	3.71	6.30
Specific Conductance	umhos/cm	387	267	264	NA	58	199	72	147
рН	s.u.	6.55	6.63	6.54	NA	6.77	6.42	6.53	7.64
Redox Potential	mV	64.4	63.8	63.7	NA	46.1	68.5	66.6	49.3
Dissolved Oxygen	mg/L	8.62	10.79	7.77	NA	11.00	8.30	11.86	11.12
Color	Visual	Stained Lt. Brown							
Odor	Smell	Slight Organic	Slight Organic	Slight Organic	None	Slight Organic	Slight Organic	None	None
Turbidity	Visual	Slight	Slight	Slight	None	Slight	Slight	None	None
Dissolved Organic Carbon	mg/L	10.8	NS	10.0	NS	NS	9.2	NS	8.7
Total Suspended Solids	mg/L	3.3	1.9	< 0.49	1.5	2.4	0.82	9.0	2.1
Dissolved Alkalinity as CaCO3	mg/L	< 7.4	NS	< 7.4	NS	NS	21.0	NS	18.9
Total Alkalinity as CaCO3	mg/L	< 7.4	6.7	< 7.4	6.8	18.6	20.7	10	16.8
Dissolved Calcium	ug/L	10200	NS	8250	NS	NS	8970	NS	7110
Total Calcium	ug/L	10200	7000	8800	6790	5540	9950	3410	7440
Dissolved Chloride	mg/L	131	NS	86.0	NS	NS	53.9	NS	31.6
Total Chloride	mg/L	121	74.9	75.4	67.5	5.8	48.6	15.6	31.1
Dissolved Copper	ug/L	3.6	NS	4.5	NS	NS	3.2	NS	4.9
Total Copper	ug/L	4.2	15.3	5.6	7.8	6.1	3.7	6.0	6.2
Dissolved Hardness	mg/L	40.4	NS	35.0	NS	NS	38.8	NS	30.3
Total Hardness	mg/L	40.5	27.5	36.6	26.9	22.9	42.8	13.8	31.5
Dissolved Iron	ug/L	284	NS	169	NS	NS	116	NS	130
Total Iron	ug/L	528	694	392	760	652	370	718	371
Dissolved Magnesium	ug/L	3640	NS	3490	NS	NS	3990	NS	3050
Total Magnesium	ug/L	3660	2430	3550	2420	2200	4360	1280	3150
Dissolved Manganese	ug/L	57.0	NS	26.0	NS	NS	13.1	NS	10.3
Total Manganese	ug/L	63.1	36.4	29.3	38.6	10.8	32.1	20.6	16.5
Dissolved Potassium	ug/L	1640	NS	1390	NS	NS	1240	NS	1070
Total Potassium	ug/L	1760	1690	1460	1720	1980	1370	1110	1180
Dissolved Sodium	ug/L	58400	NS	36000	NS	NS	24400	NS	17700
Total Sodium	ug/L	59000	35700	35500	34200	3740	25300	9520	17900
Dissolved Sulfate	mg/L	3.1	NS	2.5	NS	NS	3.2	NS	3.8
Total Sulfate	mg/L	3.2	4.1	2.4	3.8	2.8	3.1	2.5	3.6
Dissolved Sulfide	mg/L	< 1.2	NS	< 1.2	NS	NS	< 1.2	NS	< 1.2
Dissolved Zinc	ug/L	30.2	NS	19.0	NS	NS	< 10.3	NS	< 10.3
Total Zinc	ug/L	30.3	23.4	18.2	25.9	< 10.3	< 10.3	< 10.3	< 10.3
Notes:	<u> </u>			-	-				Prepared by: MCC2

Notes:

< = less than

CaCO3 = calcium carbonate

deg c = Degree Celcius

mg/L = milligrams per liter mV = millivolts

NA = Not Applicable

NS = Not Sampled

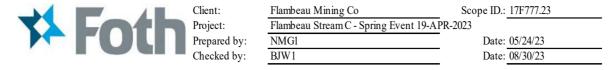
s.u. = Standard Unit

ug/L = micrograms per liter

umhos/cm = micromhos per centimeter

Prepared by: MCC2 Checked by: NMG1

Attachment 1 Field Forms – April 19, 2023



TECHNICIAN(S) NAME (INITIALS), COMPANY

Jin Engelhardt / Merjent

SUMMARY OF SAMPLING ACTIVITIES

Sample Date(s): 4/19/2023

Activities:

Collected field parameter measurements, and water quality samples for laboratory analysis by Pace Analytical.

Collected field quality control samples for laboratory analysis by Pace Analytical

Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

Stream C Samples: Total Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness

Dissolved Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness

Total Alkalinity (EPA310.2), Cl, Sulfate Dissolved Alkalinity (EPA310.2), Cl, Sulfate

DOC TSS Total Sulfide Dissolved Sulfide

Velocity Measurements (collecteed at US end of culverts and at SW-STM near confluence of Flambeau River):

Location:	Velocity (ft/sec)	Depth (ft)
HWY 27 Culvert	1.2	3.8
Copper Park Lane Culvert	3.8	0.44
SW-STM Confluence	2.8	1.92

FIELD REPORT ATTACHMENTS

Summary of Field Parameters Summary of Field Quality Control Samples Field Forms

COMMENTS

The data collected during this event was conducted under the "Stream C Evaluation Work Plan" dated March 10, 2023.



Flambeau Mining Co So

Flambeau Stream C - Spring Event 19-APR-2023 NMGl BJW1

Date: 05/24/23 Date: 08/30/23

SUMMARY OF FIELD PARAMETERS

Location	Sample Date	Sample Time	pH (SU)	Specific Conductance (mS/cm)	Temperature (⁰ C)	ORP (mV)	DO (mg/l)	Odor (visual)	Turbidity (visual)	Color (visual)
SW-C9	4/19/2023	1715	6.76	52.000	4.12	74.7	91.9%	None	None	Stained lt. Brown
SW-C1	4/19/2023	1230	6.63	74.000	2.01	37.6	83.1%	None	None	Stained lt. Brown
SW-STM	4/19/2023	1630	6.53	72.000	3.71	66.6	93.8%	None	None	Stained lt. Brown
SW-C5	4/19/2023	1330	6.43	65.000	2.16	31.1	81.8%	None	None	Stained lt. Brown
SW-EB	4/19/2023	1500	6.68	164.000	2.45	22.3	82.4%	None	Slight	Stained lt. Brown
SW-NBOUT	4/19/2023	1545	6.77	58.000	2.97	46.1	85.4%	Slt. Organic	Slight	Stained lt. Brown
SW-NB	4/19/2023	1630	6.63	267.000	3.17	63.8	84.3%	Slt. Organic	Slight	Stained lt. Brown
SW-HWY27W	4/19/2023	1745	5.92	324.000	2.68	71.8	74.4%	None	Slight	Stained lt. Brown
SW-HWY27E	4/19/2023	1800	6.13	23.000	4.09	68.2	84.9%	None	Slight	Stained lt. Brown
CP-04	4/19/2023	1130	7.66	287.000	1.17	42.9	55.9%	None	None	Stained lt. Brown

Note:

ORP = Oxidation Reduction Potential μmhos/cm = micromhos/centimeter

SU = Standard Unit

mV = Millivolts

°C = Degrees Celsius

NA = not applicable



Flambeau Mining Co	Scope ID.: 17F777.23
Timing Co	200 pt 12 1/1 ///.20

Flambeau Stream C - Spring Event 19-APR-2023 NMG1 Date: 05/24/23 BJW1 Date: 08/30/23

SUMMARY OF FIELD QUALITY CONTROL SAMPLES

Sample ID	Sample Date	Description
SW-NB-DUP_20230419	4/19/2023	Duplicate Taken at SW-NB location



Flambeau Mining Co	Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-AI	PR-2023
NMG1	Date: 05/24/23
BIW1	Date: 08/30/23

FIELD NOTES

Site ID: SW-C9 Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump,

Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate
1	N	Plastic 250 mL	None	TSS
1	Y	Amber 125 mL	H2SO4	DOC
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (°C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1715	6.76	52.000	4.12	74.70	0.92	None	None	Stained lt. Brown



Flambeau Mining Co Sco Flambeau Stream C - Spring Event 19-AP NMG1 Scope ID.: <u>17F777.23</u>

BJW1

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

Site ID: SW-C1 Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter		
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate		
1	N	Plastic 250 mL	None	TSS		
1	Y	Amber 125 mL	H2SO4	DOC		
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide		
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide		

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1230	6.63	74.000	2.01	37.60	0.83	None	None	Stained lt. Brown



 Flambeau Mining Co
 Scope ID.: 17F777.23

 Flambeau Stream C - Spring Event 19-APR-2023
 Date: 05/24/23

BJW1

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

Site ID: SW-STM Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Col	llected I	Filtered (Y/N) Bottle		Preservative	Parameter	
	1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
	1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
	1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate	
	1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
	1	N	Plastic 250 mL	None	TSS	
	1	Y	Amber 125 mL	H2SO4	DOC	
	1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
	1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (°C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
-	1630	6.53	72.000	3.71	66.60	0.94	None	None	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-APR-2023
NMG1 Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

Site ID: SW-C5 Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected Filtered (Y/N)		Bottle	Preservative	Parameter		
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate		
1	N	Plastic 250 mL	None	TSS		
1	Y	Amber 125 mL	H2SO4	DOC		
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide		
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide		

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
-	1330	6.43	65.000	2.16	31.10	0.82	None	None	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-APR-2023
NMG1 Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

SW-EB Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter		
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate		
1	N	Plastic 250 mL	None	TSS		
1	Y	Amber 125 mL	H2SO4	DOC		
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide		
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide		

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
_	1500	6.68	164.000	2.45	22.30	0.82	None	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-APR-2023
NMGI

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

SW-NBOUT Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Col	llected I	Filtered (Y/N) Bottle		Preservative	Parameter	
	1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
	1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
	1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate	
	1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
	1	N	Plastic 250 mL	None	TSS	
	1	Y	Amber 125 mL	H2SO4	DOC	
	1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
	1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
-	1545	6.77	58.000	2.97	46.10	0.85	Slt. Organic	Slight	Stained lt. Brown



 Flambeau Mining Co
 Scope ID.: 17F777.23

 Flambeau Stream C - Spring Event 19-APR-2023
 Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

Site ID: SW-NB Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter	
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate	
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
1	N	Plastic 250 mL	None	TSS	
1	Y	Amber 125 mL	H2SO4	DOC	
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

_	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (°C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
-	1630	6.63	267.000	3.17	63.80	0.84	Slt. Organic	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-APR-2023
NMGI Date: 05/24/23

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

SW-HWY27W Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

BJW1

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate
1	N	Plastic 250 mL	None	TSS
1	Y	Amber 125 mL	H2SO4	DOC
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1745	5.92	324.000	2.68	71.80	0.74	None	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-APR-2023
NMGI Date: 05/24/23

BJW1

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

SW-HWY27E Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate
1	N	Plastic 250 mL	None	TSS
1	Y	Amber 125 mL	H2SO4	DOC
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
_	1800	6.13	23.000	4.09	68.20	0.85	None	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 19-APR-2023

NMG1

Date: 05/24/23 Date: 08/30/23 BJW1

FIELD NOTES

CP-04 Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/19/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 6 degrees Celcius, Overcast, light rain, 10-15mph East Wind. 0.53-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate
1	N	Plastic 250 mL	None	TSS
1	Y	Amber 125 mL	H2SO4	DOC
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1130	7.66	287.000	1.17	42.90	0.56	None	None	Stained lt. Brown

Attachment 2 Photographic Log – April 19, 2023





Client's Name: Flambeau Mine Company Site Location: FMC - Stream C **Project No.** 17F777.23

 Photo No.
 Date:

 April 19, 2023

Direction Photo Taken:

West

Photo Taken By:Jim Engelhardt

Description:Sample Point CP04



 Photo No.
 Date: April 19, 2023

Direction Photo Taken:

East

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C1



Photo No. April 19, 2023

South

Direction Photo Taken:

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-NBOUT



 Photo No.
 Date: April 19, 2023

Direction Photo Taken:South

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C5





Photographic Log

Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

 Photo
 Date:

 No.
 April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C9



Photo No. April 19, 2023

Direction Photo

Direction Photo Taken:South

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-HWY27E



Photo No. April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sampling Point
SW-EB



 Photo No.
 Date:

 April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sampling Point
SW-HWY27W





Photographic Log

Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. 9

Date: April 19, 2023

Direction Photo Taken:

West

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-NB



Photo No. 10

Date: April 19, 2023

Direction Photo Taken:

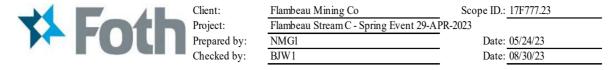
West

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-STM



Attachment 3 Field Forms – April 29, 2023



TECHNICIAN(S) NAME (INITIALS), COMPANY

Jin Engelhardt / Merjent

SUMMARY OF SAMPLING ACTIVITIES

Sample Date(s): 4/29/2023

Activities:

Collected field parameter measurements, and water quality samples for laboratory analysis by Pace Analytical.

Collected field quality control samples for laboratory analysis by Pace Analytical

Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

Stream C Samples: Total Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness

Dissolved Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness

Total Alkalinity (EPA310.2), Cl, Sulfate Dissolved Alkalinity (EPA310.2), Cl, Sulfate

DOC TSS Total Sulfide Dissolved Sulfide

Velocity Measurements (collecteed at US end of culverts and at SW-STM near confluence of Flambeau River):

Location:	Velocity (ft/sec)	Depth (ft)
HWY 27 Culvert	0.1	1.26
Copper Park Lane Culvert	2.4	0.22
SW-STM Confluence	0.9	0.42

FIELD REPORT ATTACHMENTS

Summary of Field Parameters Summary of Field Quality Control Samples Field Forms

COMMENTS

The data collected during this event was conducted under the "Stream C Evaluation Work Plan" dated March 10, 2023.



Flambeau Stream C - Spring Event 29-APR-2023 NMGl BJW1

Date: 05/24/23 Date: 08/30/23

SUMMARY OF FIELD PARAMETERS

Location	Sample Date	Sample Time	pH (SU)	Specific Conductance (mS/cm)	Temperature (⁰ C)	ORP (mV)	DO (mg/l)	Odor (visual)	Turbidity (visual)	Color (visual)
SW-C9	4/29/2023	1230	5.55	0.054	6.77	85.7	7.77	None	None	Stained lt. Brown
SW-C1	4/29/2023	1430	6.19	0.130	6.57	74.3	9.71	None	None	Stained lt. Brown
SW-STM	4/29/2023	1030	7.64	0.147	6.30	49.3	11.12	None	None	Stained lt. Brown
SW-C5	4/29/2023	1530	6.01	0.103	6.85	78.1	8.07	None	None	Stained lt. Brown
SW-EB	4/29/2023	1630	6.75	0.273	7.50	28.3	10.18	Slt. Organic	Slight	Stained lt. Brown
SW-NBOUT	4/29/2023	1700	6.42	0.199	7.26	68.5	8.30	Slt. Organic	Slight	Stained lt. Brown
SW-NBOUT	4/29/2023	1815	6.54	0.264	7.68	63.7	7.77	Slt. Organic	Slight	Stained lt. Brown
SW-HWY27W	4/29/2023	1130	6.55	0.387	6.77	64.4	8.62	Slt. Organic	Slight	Stained lt. Brown
SW-HWY27E	4/29/2023	1200	5.73	0.030	6.56	83.1	11.02	None	Slight	Stained lt. Brown
CP-04	4/29/2023	1330	6.13	0.784	7.83	54.3	1.64	None	Slight	Stained lt. Brown

Note:

ORP = Oxidation Reduction Potential μmhos/cm = micromhos/centimeter

SU = Standard Unit

mV = Millivolts

°C = Degrees Celsius

NA = not applicable



Flambeau Mining Co	Scope ID.: 1	7F777.23
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Flambeau Stream C - Spring Event 29-APR-2023 NMG1 Date: 05/24/23 BJW1 Date: 08/30/23

SUMMARY OF FIELD QUALITY CONTROL SAMPLES

Sample ID	Sample Date	Description
SW-C5-DUP_20230429	4/29/2023	Duplicate Taken at SW-C5 location



Flambeau Mining Co	Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 29-AI	PR-2023
NMGl	Date: 05/24/23
RIW1	Date: 08/30/23

FIELD NOTES

Site ID: SW-C9 Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump,

Date: 4/29/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter		
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate		
1	N	Plastic 250 mL	None	TSS		
1	Y	Amber 125 mL	H2SO4	DOC		
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide		
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide		

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (°C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
_	1230	5.55	0.054	6.77	85.70	7.77	None	None	Stained lt. Brown



F	Flambeau Mining Co	Scope ID.:	17F777.23
F	Flambeau Stream C - Spring Event 29-A	PR-2023	

NMGI BJW1 Date: 05/24/23 Date: 08/30/23

FIELD NOTES

Site ID:SW-C1Equipment:GPS, Multi-parameter probe, Camera, Peristaltic pump,Date:4/29/2023Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	#Collected Filtered (Y/N) Bottle		Preservative	Parameter		
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate		
1	N	Plastic 250 mL	None	TSS		
1	Y	Amber 125 mL	H2SO4	DOC		
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide		
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide		

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
_	1430	6.19	0.130	6.57	74.30	9.71	None	None	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 29-APR-2023
NMGI Date: 05/24/23

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

Site ID: SW-STM Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/29/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

BJW1

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter	
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	N	Plastic 250 mL	Plastic 250 mL None Total Alkalinity, C		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
1	N	Plastic 250 mL	None	TSS	
1	Y	Amber 125 mL	H2SO4	DOC	
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
•	1030	7.64	0.147	6.30	49.30	11.12	None	None	Stained lt. Brown



 Flambeau Mining Co
 Scope ID.: 17F777.23

 Flambeau Stream C - Spring Event 29-APR-2023
 Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

Site ID: SW-C5 Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/29/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter	
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate	
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
1	N	Plastic 250 mL	None	TSS	
1	Y	Amber 125 mL	H2SO4	DOC	
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

_	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (°C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
-	1530	6.01	0.103	6.85	78.10	8.07	None	None	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 29-APR-2023
NMGI Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

Site ID: SW-EB Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/29/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter	
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	N	**		Total Alkalinity, Chloride, Sulfate	
1	Y			Dissolved Alkalinity, Chloride, Sulfate	
1	N	Plastic 250 mL	None	TSS	
1	Y	Amber 125 mL	H2SO4	DOC	
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

_	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
_	1630	6.75	0.273	7.50	28.30	10.18	Slt. Organic	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID: 17F777.23
Flambeau Stream C - Spring Event 29-A PR-2023
NMGI Date: 05/24/23

BJW1

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

SW-NBOUT Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: Disposable Filters, Battery

4/29/2023 Technician(s) Initials: Jim Engelhardt / Merjent

Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected Filtered (Y/N)		Bottle	Preservative	Parameter		
1	N Plastic 250 mL		HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	1 Y P		HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)		
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate		
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate		
1	N	Plastic 250 mL	None	TSS		
1	Y	Amber 125 mL	H2SO4	DOC		
1	1 N Plasti		Zinc Acetate & NaOH	Total Sulfide		
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide		

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1700	6.42	0.199	7.26	68.50	8.30	Slt. Organic	Slight	Stained lt. Brown



 Flambeau Mining Co
 Scope ID.: 17F777.23

 Flambeau Stream C - Spring Event 29-APR-2023
 Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

Site ID: SW-NB Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/29/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter	
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate	
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
1	N	Plastic 250 mL	None	TSS	
1	Y	Amber 125 mL	H2SO4	DOC	
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1815	6.54	0.264	7.68	63.70	7.77	Slt. Organic	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 29-APR-2023
NMGI Date: 05/24/23

BJW1

Date: 05/24/23 Date: 08/30/23

FIELD NOTES

SW-HWY27W Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump, Date: 4/29/2023 Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter	
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)	
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate	
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate	
1	N	Plastic 250 mL	None	TSS	
1	Y	Amber 125 mL	H2SO4	DOC	
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide	
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide	

FIELD PARAMETERS

_	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (°C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
-	1130	6.55	0.387	6.77	64.40	8.62	Slt. Organic	Slight	Stained lt. Brown



Flambeau Mining Co Scope ID.: 17F777.23
Flambeau Stream C - Spring Event 29-APR-2023
NMGI Date: 05/24/23

Date: 05/24/23 BJW1 Date: 08/30/23

FIELD NOTES

SW-HWY27E Site ID: Equipment: GPS, Multi-parameter probe, Camera, Peristaltic pump,

Date: 4/29/2023 Disposable Filters, Battery Technician(s) Initials: Jim Engelhardt / Merjent

Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate
1	N	Plastic 250 mL	None	TSS
1	Y	Amber 125 mL	H2SO4	DOC
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide

FIELD PARAMETERS

Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
1200	5.73	0.030	6.56	83.10	11.02	None	Slight	Stained lt. Brown



 $\frac{\text{Flambeau Mining Co}}{\text{Flambeau Stream C - Spring Event 29-APR-2023}} \frac{17F777.23}{2}$

NMG1 BJW1 Date: 05/24/23 Date: 08/30/23

FIELD NOTES

Site ID:CP-04Equipment:GPS, Multi-parameter probe, Camera, Peristaltic pump,Date:4/29/2023Disposable Filters, Battery

Technician(s) Initials: Jim Engelhardt / Merjent Weather, Stream Conditions and Comments:

Temp: 5 degrees Celcius, Overcast, light rain, 10-15mph North Wind. 0.5-inches of rain occurred overnight according to Rusk Co. AP online

LABORATORY ANALYTICAL PARAMETERS

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO ₃	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO_3	Dissolved (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	N	Plastic 250 mL	None	Total Alkalinity, Chloride, Sulfate
1	Y	Plastic 250 mL	None	Dissolved Alkalinity, Chloride, Sulfate
1	N	Plastic 250 mL	None	TSS
1	Y	Amber 125 mL	H2SO4	DOC
1	N	Plastic 500 mL	Zinc Acetate & NaOH	Total Sulfide
1	Y	Plastic 500 mL	Zinc Acetate & NaOH	Dissolved Sulfide

FIELD PARAMETERS

	Time	pH (SU)	Specifc Conductance (mS/cm)	Temperature (⁰ C)	Redox Potential (mV)	Dissolved Oxygen (mg/l)	Odor	Turbidity	Color
•	1330	6.13	0.784	7.83	54.30	1.64	None	Slight	Stained lt. Brown

Attachment 4 Photographic Log – April 29, 2023



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

Date: 4/29/23

Direction Photo Taken:

South to North

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

Copper Park Lane Culvert – US 2.



Photo

No. Date: 4/29/23

Direction Photo Taken:

West to East

Photo Taken By:
Jim Engelhardt
(Merjent)

Description: CP-04 looking east.



Photo No.

2

Date: 4/29/23

Direction Photo Taken:

North to South

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

Copper Park Lane Culvert – US 2.



Photo No.

Date: 4/29/23

Direction Photo Taken:

East to West

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

CP-04 looking west.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

5

Date: 4/29/23

Direction Photo Taken:

SW to NE

Photo Taken By:

Jim Engelhardt (Merjent)

Description: SW-C1 looking northeast.



Photo No.

Date: 4/29/23

Direction Photo Taken:

South to North

Photo Taken By:
Jim Engelhardt
(Merjent)

Description: SW-C5 looking north.



Photo No.

Date: 4/29/23

Direction Photo Taken:

NE to SW

Photo Taken By:Jim Engelhardt

Jim Engeinard (Merjent)

Description:

SW-C1 looking southwest.



Photo No.

Date: 4/29/23

Direction Photo Taken:

North to South

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

SW-C5 looking south.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

9

Date: 4/29/23

Direction Photo Taken:

South to North

Photo Taken By:
Jim Engelhardt
(Merjent)

Description: SW-EB looking north.



Photo No. 11

Date: 4/29/23

Direction Photo Taken:

South to North

Photo Taken By:
Jim Engelhardt
(Merjent)

Description: SW-HWY27E looking north.



Photo No.

10

Date: 4/29/23

Direction Photo Taken:

North to South

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

SW-EB looking south.



Photo No.

12

Date: 4/29/23

Direction Photo Taken:

NW to SE

Photo Taken By:Jim Engelhardt

Im Engelhardi (Merjent)

Description:

SW-HWY27E looking southeast.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

13

Date: 4/29/23

Direction Photo Taken:

South to North

Photo Taken By:
Jim Engelhardt
(Merjent)

Description: SW-HWY27W looking north.



Photo No. 15

Date: 4/29/23

Direction Photo Taken:

West to East

Photo Taken By: Jim Engelhardt (Merjent)

Description: SW-NB looking east.



Photo No.

14

Date: 4/29/23

Direction Photo Taken:

North to South

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

SW-HWY27W looking south.



Photo No.

16

Date: 4/29/23

Direction Photo Taken:

East to West

Photo Taken By:

Jim Engelhardt (Merjent)

Description:

SW-NB looking west.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

17

Date: 4/29/23

Direction Photo Taken:

SE to NE

Photo Taken By:

Jim Engelhardt (Merjent)

Description: SW-NBOUT looking northeast.



Photo No.

19

Date: 4/29/23

Direction Photo Taken:

West to East

Photo Taken By:
Jim Engelhardt
(Merjent)

Description: SW-STM looking east.



Photo No. 18

Date: 4/29/23

Direction Photo Taken:

North to South

Photo Taken By:

Jim Engelhardt (Merjent)

Description: SW-NBOUT

looking south.



Photo No.

20

Date: 4/29/23

Direction Photo Taken:

East to West

Photo Taken By:

Jim Engelhardt (Merjent)

Description: SW-STM looking west.



Attachment 5 Pace Laboratory Analytical Reports





May 05, 2023

Nick Glander Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod nolteneyor

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

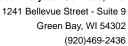
cc: MARK CIARDELLI, Foth Infrastructure & Environment,

LLC

Krystal Clark, Foth Infrastructure & Environment SHARON KOZICKI, Foth Infrastructure & Environment,

LLC







CERTIFICATIONS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A



SAMPLE SUMMARY

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261107001	SW-C9_20230419	Water	04/19/23 17:15	04/21/23 09:55
40261107002	SW-C1_20230419	Water	04/19/23 12:30	04/21/23 09:55
40261107003	SW-STM_20230419	Water	04/19/23 18:30	04/21/23 09:55
40261107004	SW-C5_20230419	Water	04/19/23 13:30	04/21/23 09:55
40261107005	SW-EB_20230419	Water	04/19/23 15:00	04/21/23 09:55
40261107006	SW-NBOUT_20230419	Water	04/19/23 15:45	04/21/23 09:55
40261107007	SW-NB_20230419	Water	04/19/23 16:30	04/21/23 09:55
40261107008	SW-NB-DUP_20230419	Water	04/19/23 16:35	04/21/23 09:55
40261107009	SW-HWY27W_20230419	Water	04/19/23 17:45	04/21/23 09:55
40261107010	SW-HWY27E_20230419	Water	04/19/23 18:00	04/21/23 09:55
40261107011	CP-04_20230419	Water	04/19/23 11:30	04/21/23 09:55



SAMPLE ANALYTE COUNT

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

### 40261107001 SW-C9_20230419	Lab ID	Sample ID	Method	Analysts	Analytes Reported
SM 2540D SRK 1 1 1 1 1 1 1 1 1	40261107001	SW-C9_20230419	EPA 6020B	KXS	9
SM 4500-SF (2000)			SM 2320B	TMK	1
BPA 300.0 HMB 2 2 2 2 2 2 2 2 2			SM 2540D	SRK	1
Magenta Mage			SM 4500-S F (2000)	HNT	1
SM 2320B			EPA 300.0	HMB	2
SM 2540D SRK 1 SM 4500-SF (2000) HNT 1 1 1 1 1 1 1 1 1	40261107002	SW-C1_20230419	EPA 6020B	KXS	9
SM 4500-S F (2000)			SM 2320B	TMK	1
PA 300.0			SM 2540D	SRK	1
PA 6020B			SM 4500-S F (2000)	HNT	1
SM 2320B TMK 1 SM 2540D SRK 1 SM 2540D SRK 1 SM 2540D SRK 1 SM 2540D SRK 1 SM 2500-S F (2000) HNT 1 1 SM 2500-S F (2000) HNT 1 1 SM 2540D SRK 1 SM 2320B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1			EPA 300.0	HMB	2
SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 1 1 1 1 1 1 1 1	40261107003	SW-STM_20230419	EPA 6020B	KXS	9
SM 4500-S F (2000)			SM 2320B	TMK	1
### BEPA 300.0 HMB 2 ### BEPA 6020B KXS 9 ### SM 2320B TMK 1 ### SM 2540D SRK 1 ### SM 2540D SRK 1 ### SM 4500-S F (2000) HNT 1 ### BEPA 6020B KXS 9 ### SM 2540D SRK 1 ### SM 4500-S F (2000) HNT 1 ### BEPA 6020B KXS 9 ### BEPA 6020B KXS 9 ### SM 2320B TMK 1 ### SM 2540D SRK 1 ### SM 2540D SRK 1 ### SM 2540D SRK 1 ### SM 2540D HMB 2 ### SM 2540D SRK 1 ### SM 2540D HMB 2 ### SM 2540D HMB 2 ### SM 2540D SRK 1 ### SM 2540D HMB 2 ### SM 2540D SRK 1 ##			SM 2540D	SRK	1
### BPA 6020B			SM 4500-S F (2000)	HNT	1
SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107005 SW-EB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 2540D SRK 1 SM 2540D SRK 1 EPA 300.0 HMB 2 EPA 300.0 HMB 2 40261107006 SW-NBOUT_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 2320B TMK 1 SM 2540D SRK 1 SM 2320B TMK 1 EPA 300.0 HMB 2 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 2540D SRK 1 SM 2540D SRK 1 EPA 300.0 HMB 2 EPA 6020B KXS 9 SW-NB-DUP_20230419 EPA 6020B KXS 9			EPA 300.0	HMB	2
SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 1 EPA 300.0 HMB 2 2 2 2 2 2 2 2 2	40261107004	SW-C5_20230419	EPA 6020B	KXS	9
SM 4500-S F (2000)			SM 2320B	TMK	1
BPA 300.0 HMB 2 40261107005 SW-EB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107006 SW-NBOUT_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 EPA 300.0 HMB 2 SM 2320B KXS 9 SM 2320B KXS 9 SM 2320B KXS 9 SM 2320B TMK 1 SM 2320B TMK 1 SM 2540D SRK 1 EPA 300.0 HNT 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 300.0 HNT 1 EPA 300.0 HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 2540D	SRK	1
### BEPA 6020B			SM 4500-S F (2000)	HNT	1
SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 EPA 300.0 HNT 1 EPA 300.0 HNT 1 EPA 300.0 HMB 2 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 SM 2540D SRK 1 EPA 300.0 HMB 2 SM 2540D SRK 1 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 300.0 HMB 2 SM 2540D SRK 1 EPA 300.0 HMB 2 SM 4500-S F (2000) HNT 1			EPA 300.0	HMB	2
SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107006 SW-NBOUT_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 SM 2540D SRK 1 EPA 300.0 HMB 2 EPA 6020B KXS 9 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 SM 2320B TMK 1 EPA 300.0 HMB 2 EPA 6020B KXS 9 SM 2320B TMK 1 EPA 6020B KXS 9 SM 2320B TMK 1 EPA 6020B KXS 9 SM 2540D SRK 1 EPA 300.0 HNT 1 EPA 300.0 HNT 1	40261107005	SW-EB_20230419	EPA 6020B	KXS	9
SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107006 SW-NBOUT_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 SM 4500-S F (2000) HNT 1			SM 2320B	TMK	1
EPA 300.0 HMB 2 40261107006 SW-NBOUT_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 4500-S F (2000) HNT 1 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 SM 4500-S F (2000) HNT 1			SM 2540D	SRK	1
### A0261107006 SW-NBOUT_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 ### A0261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 EPA 300.0 HMB 2 SM 2320B TMK 1 SM 2320B TMK 1 SM 2320B TMK 1 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 4500-S F (2000)	HNT	1
SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 EPA 300.0 HNT 1 EPA 300.0 HNT 1 EPA 300.0 HNT 1			EPA 300.0	HMB	2
SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 2540D SRK 1 SM 2540D SRK 1 EPA 300.0 HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9	40261107006	SW-NBOUT_20230419	EPA 6020B	KXS	9
SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 2320B	TMK	1
EPA 300.0 HMB 2 40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 2540D	SRK	1
40261107007 SW-NB_20230419 EPA 6020B KXS 9 SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 4500-S F (2000)	HNT	1
SM 2320B TMK 1 SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			EPA 300.0	HMB	2
SM 2540D SRK 1 SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9	40261107007	SW-NB_20230419	EPA 6020B	KXS	9
SM 4500-S F (2000) HNT 1 EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 2320B	TMK	1
EPA 300.0 HMB 2 40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 2540D	SRK	1
40261107008 SW-NB-DUP_20230419 EPA 6020B KXS 9			SM 4500-S F (2000)	HNT	1
			EPA 300.0	HMB	2
SM 2320B TMK 1	40261107008	SW-NB-DUP_20230419	EPA 6020B	KXS	9
			SM 2320B	TMK	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Lab ID	Sample ID	Method	Analysts	Analytes Reported
	_ _ ·	SM 2540D		1
		SM 4500-S F (2000)	HNT	1
		EPA 300.0	HMB	2
40261107009	SW-HWY27W_20230419	EPA 6020B	KXS	9
		SM 2320B	TMK	1
		SM 2540D	SRK	1
		SM 4500-S F (2000)	HNT	1
		EPA 300.0	HMB	2
40261107010	SW-HWY27E_20230419	EPA 6020B	KXS	9
		SM 2320B	TMK	1
		SM 2540D	SRK	1
		SM 4500-S F (2000)	HNT	1
		EPA 300.0	HMB	2
40261107011	CP-04_20230419	EPA 6020B	KXS	9
		SM 2320B	TMK	1
		SM 2540D	SRK	1
		SM 4500-S F (2000)	HNT	1
		EPA 300.0	HMB	2

PASI-G = Pace Analytical Services - Green Bay

(920)469-2436



PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Method: EPA 6020B

Description: 6020B MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 05, 2023

General Information:

11 samples were analyzed for EPA 6020B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Method: SM 2320B Description: 2320B Alkalinity

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 05, 2023

General Information:

11 samples were analyzed for SM 2320B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

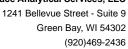
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 443764

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40261249001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 2547941)
 - Alkalinity, Total as CaCO3





PROJECT NARRATIVE

FMC-2023-04 FLAMBEAU MINE CO. Project:

Pace Project No.: 40261107

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 05, 2023

General Information:

11 samples were analyzed for SM 2540D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Method: SM 4500-S F (2000)

Description: 4500S2F Sulfide, lodometric

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 05, 2023

General Information:

11 samples were analyzed for SM 4500-S F (2000) by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 443089

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40261107001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2544322)
 - Sulfide
- MSD (Lab ID: 2544323)
 - Sulfide

(920)469-2436



PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Method: EPA 300.0

Description: 300.0 IC Anions

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 05, 2023

General Information:

11 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 443649

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40261074001,40261107001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2547592)
 - Chloride
 - Sulfate
- MSD (Lab ID: 2547593)
 - Chloride
 - Sulfate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-C9_20230419	Lab ID:	40261107001	Collected	l: 04/19/23	3 17:15	Received: 04/	/21/23 09:55 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	•	Method: EPA 6			hod: El	PA 3010A			
	Pace Analy	ytical Services	- Green Bay	/					
Calcium	2220	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 22:29	7440-70-2	
Copper	17.7	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 22:29	7440-50-8	
Iron	689	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 22:29	7439-89-6	
Magnesium	684	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 22:29	7439-95-4	
Manganese	31.6	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 22:29	7439-96-5	
Potassium	738J	ug/L	789	237	1	04/24/23 06:42	04/27/23 22:29	7440-09-7	
Sodium	29000	ug/L	250	42.0	1		04/27/23 22:29	7440-23-5	
Total Hardness by 2340B	8.4	mg/L	1.7	0.32	1		04/27/23 22:29		
Zinc	20.7J	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 22:29	7440-66-6	
2320B Alkalinity	Analytical	Method: SM 23	320B						
•	Pace Analy	ytical Services	- Green Bay	/					
Alkalinity, Total as CaCO3	7.2J	mg/L	10.0	5.0	1		04/30/23 19:30		
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
·	Pace Analy	ytical Services	- Green Bay	/					
Total Suspended Solids	3.3	mg/L	1.0	0.48	1		04/24/23 13:40		
4500S2F Sulfide, Iodometric	•	Method: SM 45 ytical Services	•	•					
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 13:53		MO
300.0 IC Anions	,	Method: EPA 3 ytical Services		<i>'</i>					
Chloride	49.2	mg/L	10.0	2.2	5		05/04/23 21:41	16887-00-6	MO
Sulfate	6.4	mg/L	2.0	0.44	1		05/02/23 22:51		MO
		3	•						-



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-C1_20230419	Lab ID:	40261107002	Collected:	04/19/23	12:30	Received: 04/	21/23 09:55 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical I	Method: EPA 6	020B Prepai	ation Met	nod: EF	PA 3010A			
	Pace Analy	tical Services	- Green Bay						
Calcium	3160	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:21	7440-70-2	
Copper	6.3J	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:21	7440-50-8	
Iron	681	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:21	7439-89-6	
Magnesium	1270	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:21	7439-95-4	
Manganese	13.8	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:21	7439-96-5	
Potassium	994	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:21	7440-09-7	
Sodium	9650	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:21	7440-23-5	
Total Hardness by 2340B	13.1	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:21		
Zinc	<10.3	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:21	7440-66-6	
2320B Alkalinity	Analytical I	Method: SM 23	320B						
	Pace Analy	tical Services	- Green Bay						
Alkalinity, Total as CaCO3	10J	mg/L	10.0	5.0	1		04/30/23 19:49		
2540D Total Suspended Solids	Analytical I	Method: SM 25	540D						
	Pace Analy	tical Services	- Green Bay						
Total Suspended Solids	3.8	mg/L	1.0	0.48	1		04/24/23 13:40		
4500S2F Sulfide, Iodometric	•	Method: SM 45 /tical Services	•	0)					
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:00		
300.0 IC Anions	,	Method: EPA 3 /tical Services							
Chloride	15.0	mg/L	2.0	0.43	1		05/02/23 23:34	16887-00-6	
Sulfate	2.6	mg/L	2.0	0.44	1		05/02/23 23:34		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-STM_20230419	Lab ID:	40261107003	Collected:	04/19/23	18:30	Received: 04/	21/23 09:55 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical I	Method: EPA 6	020B Prepa	ration Met	nod: EF	PA 3010A			
	Pace Analy	tical Services	- Green Bay						
Calcium	3410	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:35	7440-70-2	
Copper	6.0J	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:35	7440-50-8	
Iron	718	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:35	7439-89-6	
Magnesium	1280	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:35	7439-95-4	
Manganese	20.6	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:35	7439-96-5	
Potassium	1110	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:35	7440-09-7	
Sodium	9520	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:35	7440-23-5	
Total Hardness by 2340B	13.8	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:35		
Zinc	<10.3	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:35	7440-66-6	
2320B Alkalinity	Analytical I	Method: SM 23	20B						
	Pace Analy	tical Services	- Green Bay						
Alkalinity, Total as CaCO3	10J	mg/L	10.0	5.0	1		04/30/23 19:55		
2540D Total Suspended Solids	Analytical I	Method: SM 25	340D						
	Pace Analy	tical Services	- Green Bay						
Total Suspended Solids	9.0	mg/L	1.0	0.48	1		04/24/23 13:40		
4500S2F Sulfide, Iodometric	•	Method: SM 45 ytical Services	•	0)					
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:01		
300.0 IC Anions	,	Method: EPA 3 ytical Services							
Chloride	15.6	mg/L	2.0	0.43	1		05/02/23 23:49	16887-00-6	
Sulfate	2.5	mg/L	2.0	0.44	1		05/02/23 23:49		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-C5_20230419	Lab ID:	40261107004	Collected:	04/19/23	3 13:30	Received: 04/	21/23 09:55 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical I	Method: EPA 6	020B Prepai	ration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Green Bay						
Calcium	2900	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:43	7440-70-2	
Copper	7.6	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:43	7440-50-8	
Iron	972	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:43	7439-89-6	
Magnesium	1220	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:43	7439-95-4	
Manganese	33.9	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:43	7439-96-5	
Potassium	1030	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:43	7440-09-7	
Sodium	8650	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:43	7440-23-5	
Total Hardness by 2340B	12.2	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:43		
Zinc	11.7J	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:43	7440-66-6	
2320B Alkalinity	Analytical I	Method: SM 23	320B						
•	Pace Analy	tical Services	- Green Bay						
Alkalinity, Total as CaCO3	8.6J	mg/L	10.0	5.0	1		04/30/23 20:01		
2540D Total Suspended Solids	Analytical I	Method: SM 25	540D						
	Pace Analy	tical Services	- Green Bay						
Total Suspended Solids	10.5	mg/L	1.0	0.48	1		04/24/23 13:40		
4500S2F Sulfide, Iodometric	•	Method: SM 45 rtical Services	•	0)					
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:02		
300.0 IC Anions	,	Method: EPA 3 rtical Services							
Chloride	12.5	mg/L	2.0	0.43	1		05/03/23 00:03	16887-00-6	
Sulfate	2.2	mg/L	2.0	0.44	1		05/03/23 00:03		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-EB_20230419	Lab ID:	40261107005	Collected:	04/19/23	15:00	Received: 04/	21/23 09:55 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical I	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Green Bay						
Calcium	6300	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:13	7440-70-2	
Copper	6.9	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:13	7440-50-8	
Iron	707	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:13	7439-89-6	
Magnesium	2460	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:13	7439-95-4	
Manganese	27.7	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:13	7439-96-5	
Potassium	1730	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:13	7440-09-7	
Sodium	19700	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:13	7440-23-5	
Total Hardness by 2340B	25.8	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:13		
Zinc	<10.3	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:13	7440-66-6	
2320B Alkalinity	Analytical I	Method: SM 23	320B						
	Pace Analy	tical Services	- Green Bay						
Alkalinity, Total as CaCO3	17.5	mg/L	10.0	5.0	1		04/30/23 20:06		
2540D Total Suspended Solids	Analytical I	Method: SM 25	540D						
	Pace Analy	tical Services	- Green Bay						
Total Suspended Solids	4.3	mg/L	1.0	0.48	1		04/24/23 13:40		
4500S2F Sulfide, Iodometric	•	Method: SM 45 /tical Services	,	0)					
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:05		
300.0 IC Anions	,	Method: EPA 3 /tical Services							
Chloride	36.1	mg/L	2.0	0.43	1		05/03/23 01:00	16887-00-6	
Sulfate	4.1	mg/L	2.0	0.44	1		05/03/23 01:00		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-NBOUT_20230419	Lab ID:	40261107006	Collected	: 04/19/23	15:45	Received: 04/	21/23 09:55 Ma	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
	Pace Anal	ytical Services	- Green Bay							
Calcium	5540	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:50	7440-70-2		
Copper	6.1J	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:50	7440-50-8		
Iron	652	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:50	7439-89-6		
Magnesium	2200	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:50	7439-95-4		
Manganese	10.8	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:50	7439-96-5		
Potassium	1980	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:50	7440-09-7		
Sodium	3740	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:50	7440-23-5		
Total Hardness by 2340B	22.9	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:50			
Zinc	<10.3	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:50	7440-66-6		
2320B Alkalinity	Analytical	Method: SM 23	320B							
	Pace Anal	ytical Services	- Green Bay							
Alkalinity, Total as CaCO3	18.6	mg/L	10.0	5.0	1		04/30/23 20:13			
2540D Total Suspended Solids	Analytical Method: SM 2540D									
	Pace Analytical Services - Green Bay									
Total Suspended Solids	2.4	mg/L	1.0	0.48	1		04/24/23 13:40			
4500S2F Sulfide, Iodometric		Method: SM 45 ytical Services								
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:06			
300.0 IC Anions	•	Method: EPA 3 ytical Services								
Chloride	5.8	mg/L	2.0	0.43	1		05/03/23 01:15	16887-00-6		
Sulfate	2.8	mg/L	2.0	0.44	1		05/03/23 01:15			



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-NB_20230419	Lab ID:	40261107007	Collected:	04/19/23	3 16:30	Received: 04/	21/23 09:55 Ma	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
	Pace Analy	tical Services	- Green Bay							
Calcium	7000	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:57	7440-70-2		
Copper	15.3	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:57	7440-50-8		
Iron	694	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:57	7439-89-6		
Magnesium	2430	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:57	7439-95-4		
Manganese	36.4	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:57	7439-96-5		
Potassium	1690	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:57	7440-09-7		
Sodium	35700	ug/L	250	42.0	1	04/24/23 06:42		7440-23-5		
Total Hardness by 2340B	27.5	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:57			
Zinc	23.4J	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:57	7440-66-6		
2320B Alkalinity	Analytical I	Method: SM 23	320B							
•	Pace Analy	tical Services	- Green Bay							
Alkalinity, Total as CaCO3	6.7J	mg/L	10.0	5.0	1		04/30/23 20:30			
2540D Total Suspended Solids	Analytical Method: SM 2540D									
	Pace Analytical Services - Green Bay									
Total Suspended Solids	1.9	mg/L	1.0	0.48	1		04/24/23 13:40			
4500S2F Sulfide, Iodometric	•	Method: SM 45 rtical Services	,	0)						
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:07			
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	74.9	mg/L	10.0	2.2	5		05/04/23 22:24	16887-00-6		
Sulfate	4.1	mg/L	2.0	0.44	1		05/03/23 01:29	14808-79-8		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-NB-DUP_20230419	Lab ID: 40261107008 Collected: 04/19/23 16:35 Received: 04/21/23 09:55 Matrix: Wa						atrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: EF	PA 3010A				
	Pace Anal	ytical Services	- Green Bay	,						
Calcium	6790	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:05	7440-70-2		
Copper	7.8	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:05	7440-50-8		
Iron	760	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:05	7439-89-6		
Magnesium	2420	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:05	7439-95-4		
Manganese	38.6	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:05	7439-96-5		
Potassium	1720	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:05	7440-09-7		
Sodium	34200	ug/L	250	42.0	1	04/24/23 06:42		7440-23-5		
Total Hardness by 2340B	26.9	mg/L	1.7	0.32	1	04/24/23 06:42				
Zinc	25.9J	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:05	7440-66-6		
2320B Alkalinity	Analytical	Method: SM 23	320B							
·	Pace Anal	ytical Services	- Green Bay	,						
Alkalinity, Total as CaCO3	6.8J	mg/L	10.0	5.0	1		04/30/23 20:35			
2540D Total Suspended Solids	Analytical Method: SM 2540D									
·	Pace Analytical Services - Green Bay									
Total Suspended Solids	1.5	mg/L	1.0	0.48	1		04/24/23 13:40			
4500S2F Sulfide, Iodometric	•	Method: SM 45 ytical Services	`	,						
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:09			
300.0 IC Anions	Analytical	Method: EPA 3	0.00							
	Pace Anal	ytical Services	- Green Bay	,						
Chloride	67.5	mg/L	10.0	2.2	5		05/04/23 23:22	16887-00-6		
Sulfate	3.8	mg/L	2.0	0.44	1		05/03/23 01:44			
	0.0	9/ =	2.0	0.14	•		33,00,20 01.44	000 70 0		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-HWY27W_20230419	Lab ID:	40261107009	Collected:	04/19/23	3 17:45	Received: 04/	21/23 09:55 Ma	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A				
	Pace Ana	lytical Services	- Green Bay							
Calcium	6890	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:12	7440-70-2		
Copper	6.0J	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:12	7440-50-8		
ron	431	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:12	7439-89-6		
Magnesium	2180	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:12	7439-95-4		
Manganese	77.3	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:12	7439-96-5		
Potassium	1790	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:12	7440-09-7		
Sodium	49100	ug/L	250	42.0	1	04/24/23 06:42	04/28/23 00:12	7440-23-5		
Total Hardness by 2340B	26.2	mg/L	1.7	0.32	1	04/24/23 06:42	04/28/23 00:12			
Zinc	24.8J	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:12	7440-66-6		
2320B Alkalinity	Analytical Method: SM 2320B									
	Pace Ana	lytical Services	- Green Bay							
Alkalinity, Total as CaCO3	5.5J	mg/L	10.0	5.0	1		04/30/23 20:41			
2540D Total Suspended Solids	Analytical Method: SM 2540D									
	Pace Analytical Services - Green Bay									
Total Suspended Solids	0.80J	mg/L	1.0	0.48	1		04/24/23 13:41			
4500S2F Sulfide, Iodometric	-	Method: SM 45		0)						
		lytical Services	•							
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:11			
300.0 IC Anions	Analytical Method: EPA 300.0									
	Pace Ana	lytical Services	- Green Bay							
Chloride	95.6	mg/L	10.0	2.2	5		05/04/23 23:36	16887-00-6		
Sulfate	5.0	mg/L	2.0	0.44	1		05/03/23 01:58	14808-79-8		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: SW-HWY27E_20230419	Lab ID:	40261107010	Collected	04/19/23	18:00	Received: 04/	21/23 09:55 Ma	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A				
	Pace Anal	ytical Services	- Green Bay							
Calcium	2120	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:19	7440-70-2		
Copper	4.1J	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:19	7440-50-8		
Iron	683	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:19	7439-89-6		
Magnesium	780	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:19	7439-95-4		
Manganese	15.1	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:19	7439-96-5		
Potassium	922	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:19	7440-09-7		
Sodium	4340	ug/L	250	42.0	1	04/24/23 06:42		7440-23-5		
Total Hardness by 2340B	8.5	mg/L	1.7	0.32	1	04/24/23 06:42				
Zinc	<10.3	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:19	7440-66-6		
2320B Alkalinity	Analytical	Method: SM 23	320B							
•	Pace Anal	ytical Services	- Green Bay							
Alkalinity, Total as CaCO3	5.4J	mg/L	10.0	5.0	1		04/30/23 20:47			
2540D Total Suspended Solids	Analytical Method: SM 2540D									
	Pace Analytical Services - Green Bay									
Total Suspended Solids	2.4	mg/L	1.0	0.48	1		04/24/23 13:41			
4500S2F Sulfide, Iodometric	•	Method: SM 45 ytical Services	•	,						
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:12			
300.0 IC Anions	,	Method: EPA 3 ytical Services								
Chloride	5.9	mg/L	2.0	0.43	1		05/03/23 02:12	16887-00-6		
Sulfate	1.6J	mg/L	2.0	0.44	1		05/03/23 02:12			



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Sample: CP-04_20230419	Lab ID: 40261107011		Collected: 04/19/23 11:30			D Received: 04/21/23 09:55 Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: EF	PA 3010A				
	Pace Anal	ytical Services	- Green Bay	′						
Calcium	5370	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:41	7440-70-2		
Copper	19.0	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:41	7440-50-8		
Iron	577	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:41	7439-89-6		
Magnesium	3480	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:41	7439-95-4		
Manganese	21.2	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:41	7439-96-5		
Potassium	1130	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:41	7440-09-7		
Sodium	40900	ug/L	250	42.0	1	04/24/23 06:42		7440-23-5		
Total Hardness by 2340B	27.7	mg/L	1.7	0.32	1	04/24/23 06:42				
Zinc	15.2J	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:41	7440-66-6		
2320B Alkalinity	Analytical	Method: SM 23	320B							
•	Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	60.0	mg/L	10.0	5.0	1		05/01/23 20:09			
2540D Total Suspended Solids	Analytical Method: SM 2540D									
	Pace Analytical Services - Green Bay									
Total Suspended Solids	2.9	mg/L	1.0	0.48	1		04/24/23 13:41			
4500S2F Sulfide, Iodometric	•	Method: SM 45 ytical Services	•	,						
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:15			
300.0 IC Anions	Analytical	Method: EPA 3	0.00							
	Pace Analytical Services - Green Bay									
Chloride	52.3	mg/L	2.0	0.43	1		05/03/23 02:27	16887-00-6		
Sulfate	5.0	mg/L	2.0	0.44	1		05/03/23 02:27			
	0.0	9/ =	2.0	0.17	•		55,00,20 02.21	000 70 0		



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

QC Batch: 443052 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

METHOD BLANK: 2544145 Matrix: Water

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
				7 thaty20a	
Calcium	ug/L	<76.2	254	04/27/23 21:45	
Copper	ug/L	<1.9	6.4	04/27/23 21:45	
Iron	ug/L	<58.0	250	04/27/23 21:45	
Magnesium	ug/L	<31.2	250	04/27/23 21:45	
Manganese	ug/L	<1.2	4.0	04/27/23 21:45	
Potassium	ug/L	<237	789	04/27/23 21:45	
Sodium	ug/L	<42.0	250	04/27/23 21:45	
Total Hardness by 2340B	mg/L	< 0.32	1.7	04/27/23 21:45	
Zinc	ug/L	<10.3	34.4	04/27/23 21:45	

LABORATORY CONTROL SAMPLE:	2544146					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Calcium	ug/L	10000	10100	101	80-120	
Copper	ug/L	250	243	97	80-120	
Iron	ug/L	10000	9950	100	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	250	241	96	80-120	
Potassium	ug/L	10000	9610	96	80-120	
Sodium	ug/L	10000	9510	95	80-120	
Total Hardness by 2340B	mg/L		66.9			
Zinc	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX S	PIKE DUPL	ICATE: 2544	147		2544148							
Parameter	Units	40261107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	2220	10000	10000	12500	12100	103	99	75-125	3	20	
Copper	ug/L	17.7	250	250	265	267	99	100	75-125	1	20	
Iron	ug/L	689	10000	10000	11100	10900	104	102	75-125	2	20	
Magnesium	ug/L	684	10000	10000	11200	11200	105	105	75-125	0	20	
Manganese	ug/L	31.6	250	250	284	282	101	100	75-125	0	20	
Potassium	ug/L	738J	10000	10000	10700	10700	100	99	75-125	0	20	
Sodium	ug/L	29000	10000	10000	38900	39700	99	107	75-125	2	20	
Total Hardness by 2340B	mg/L	8.4			77.4	76.3				1	20	
Zinc	ug/L	20.7J	250	250	274	275	101	102	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

QC Batch: 443610 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010

METHOD BLANK: 2547490 Matrix: Water

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Alkalinity, Total as CaCO3 mg/L <5.0 10.0 04/30/23 19:20

LABORATORY CONTROL SAMPLE: 2547491

Date: 05/05/2023 03:56 PM

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Alkalinity, Total as CaCO3 mg/L 25 25.5 102 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547492 2547493

MS MSD

40261107001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 7.2J 25 20 Alkalinity, Total as CaCO3 25 33.1 33.1 104 103 80-120 0 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

QC Batch: 443764 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261107011

METHOD BLANK: 2547938 Matrix: Water

Associated Lab Samples: 40261107011

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Alkalinity, Total as CaCO3 mg/L <5.0 10.0 05/01/23 19:58

LABORATORY CONTROL SAMPLE: 2547939

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Alkalinity, Total as CaCO3 mg/L 200 206 103 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547940 2547941

MS MSD 40261249001 Snike Snike

40261249001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits 476 20 M0 Alkalinity, Total as CaCO3 mg/L 312 200 200 460 82 74 80-120 3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

QC Batch: 443098 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

METHOD BLANK: 2544352 Matrix: Water

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 04/24/23 13:40

LABORATORY CONTROL SAMPLE: 2544353

Spike LCS LCS % Rec Parameter Units Result % Rec Limits Qualifiers Conc. 114 80-120 **Total Suspended Solids** mg/L 100 114

SAMPLE DUPLICATE: 2544354

Date: 05/05/2023 03:56 PM

40261159001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 54.0 58.0 7 10 Total Suspended Solids mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

QC Batch: 443089

QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric

Laboratory: Pace Analytical Services - Green Bay

SM 4500-S F (2000)

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

Analysis Method:

40261107008, 40261107009, 40261107010, 40261107011

METHOD BLANK: 2544320 Matrix: Water

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Sulfide mg/L <1.2 4.0 04/25/23 13:46

LABORATORY CONTROL SAMPLE: 2544321

LCS LCS Spike % Rec Units Result % Rec Limits Qualifiers Parameter Conc. Sulfide mg/L 46.8 44.4 95 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544322 2544323

MS MSD

40261107001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Sulfide 75 <1.2 46.8 46.8 35.2 34.8 74 80-120 10 M0 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

LARORATORY CONTROL SAMPLE:

MATRIX CRIZE & MATRIX CRIZE DURI ICATE.

Date: 05/05/2023 03:56 PM

QC Batch: 443649 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

METHOD BLANK: 2547588 Matrix: Water

25/7580

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007,

40261107008, 40261107009, 40261107010, 40261107011

25 47502

Parameter	Units	Result	Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	05/02/23 19:16	
Sulfate	mg/L	< 0.44	2.0	05/02/23 19:16	

LABORATORT CONTROL SAWIFLE.	2547509	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	
Sulfate	mg/L	20	19.9	100	90-110	

MATRIX SPIKE & MATRIX SF	PIKE DUPLI	CATE: 2547	590		2547591							
			MS	MSD								
	4	40261074001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	109	100	100	213	208	104	98	90-110	3	15	
Sulfate	mg/L	62.9	100	100	170	163	107	101	90-110	4	15	

MATRIX SPIKE & MATRIX SP	IKE DUP	_ICATE: 2547	592		2547593							
			MS	MSD								
		40261107001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	49.2	100	100	160	160	111	111	90-110	0	15	MO
Sulfate	mg/L	6.4	20	20	28.6	28.6	111	111	90-110	0	15	MO

25 47502

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 05/05/2023 03:56 PM

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40261107001	SW-C9_20230419	EPA 3010A	443052	EPA 6020B	443126
10261107002	SW-C1 20230419	EPA 3010A	443052	EPA 6020B	443126
10261107003	SW-STM_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107004	SW-C5_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107005	SW-EB_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107006	SW-NBOUT_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107007	SW-NB_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107008	SW-NB-DUP_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107009	SW-HWY27W_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107010	SW-HWY27E_20230419	EPA 3010A	443052	EPA 6020B	443126
0261107011	CP-04_20230419	EPA 3010A	443052	EPA 6020B	443126
	_				
0261107001	SW-C9_20230419	SM 2320B	443610		
0261107002	SW-C1_20230419	SM 2320B	443610		
0261107003	SW-STM_20230419	SM 2320B	443610		
0261107004	SW-C5_20230419	SM 2320B	443610		
0261107005	SW-EB_20230419	SM 2320B	443610		
0261107006	SW-NBOUT_20230419	SM 2320B	443610		
0261107007	SW-NB_20230419	SM 2320B	443610		
0261107008	SW-NB-DUP_20230419	SM 2320B	443610		
0261107009	SW-HWY27W_20230419	SM 2320B	443610		
0261107010	SW-HWY27E_20230419	SM 2320B	443610		
0261107011	CP-04_20230419	SM 2320B	443764		
0261107001	SW-C9_20230419	SM 2540D	443098		
0261107002	SW-C1_20230419	SM 2540D	443098		
0261107003	SW-STM_20230419	SM 2540D	443098		
0261107004	SW-C5_20230419	SM 2540D	443098		
0261107005	SW-EB_20230419	SM 2540D	443098		
0261107006	SW-NBOUT_20230419	SM 2540D	443098		
0261107007	SW-NB_20230419	SM 2540D	443098		
0261107008	SW-NB-DUP_20230419	SM 2540D	443098		
0261107009	SW-HWY27W_20230419	SM 2540D	443098		
0261107010	SW-HWY27E_20230419	SM 2540D	443098		
0261107011	CP-04_20230419	SM 2540D	443098		
0261107001	SW-C9_20230419	SM 4500-S F (2000)	443089		
0261107002	SW-C1 20230419	SM 4500-S F (2000)	443089		
0261107003	SW-STM_20230419	SM 4500-S F (2000)	443089		
0261107004	SW-C5_20230419	SM 4500-S F (2000)	443089		
0261107005	SW-EB_20230419	SM 4500-S F (2000)	443089		
0261107006	SW-NBOUT_20230419	SM 4500-S F (2000)	443089		
0261107007	SW-NB_20230419	SM 4500-S F (2000)	443089		
0261107008	SW-NB-DUP_20230419	SM 4500-S F (2000)	443089		
0261107009	SW-HWY27W_20230419	SM 4500-S F (2000)	443089		
0261107009 0261107010	SW-HWY27E_20230419	SM 4500-S F (2000)	443089		
0261107011	CP-04_20230419	SM 4500-S F (2000)	443089		
	_	, ,			
0261107001	SW-C9_20230419	EPA 300.0	443649		
10261107002	SW-C1 20230419	EPA 300.0	443649		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

Date: 05/05/2023 03:56 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261107003	SW-STM_20230419	EPA 300.0	443649		
40261107004	SW-C5_20230419	EPA 300.0	443649		
40261107005	SW-EB_20230419	EPA 300.0	443649		
40261107006	SW-NBOUT_20230419	EPA 300.0	443649		
40261107007	SW-NB_20230419	EPA 300.0	443649		
40261107008	SW-NB-DUP_20230419	EPA 300.0	443649		
40261107009	SW-HWY27W_20230419	EPA 300.0	443649		
40261107010	SW-HWY27E_20230419	EPA 300.0	443649		
40261107011	CP-04_20230419	EPA 300.0	443649		

OF Z **CHAIN-OF-CUSTODY Analytical Request Document** LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here Pace Analytical* 140261107 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields Billing Information: ALL SHADED AREAS are for LAB USE ONLY ACCOUNTING ZIZI LUNDVATION COURT FOTH Container Preservative Type ** Lab Project Manager: SAME AS BILLING DEPERE WI 54115 U U 2 4545 ** Preservative Types. (1) nitric acid. (2) sulfuric acid. (3) hydrochloric acid. (4) sodium hydroxide. (5) zinc acetate. MIH . COM (6) methanol. (7) sodium bisulfate. (8) sodium thiosulfate. (9) hexane. (A) ascorbic acid. (8) ammonium sulfate. Site Collection Info/Address: (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other Analyses Lab Profile/Line: Customer Project Name/Number: State: County/City: Time Zone Collected: ab Sample Receipt Checklist: RUSK []PT[]MT[KLCT [)ET Custody Seals Present/Intact Y N NA Site/Facility ID #: Phone: Phone: 920-497-2500 | Site/Facility ID #: Funktow Mine Co Compliance Monitoring? Custody Signatures Present Y N NA Collector Signature Present () Yes () No Bottles Inter Collected By (print): Purchase Order #: DW PWS ID #: Correct Bothle Sufficient Volume IM ENGELHARDT Quote #: DW Location Code: Samples Received of Collected By (signature): Immediately Packed on Ice: Turnaround Date Required: VOA - Headspade Acceptab USDA Regulated Soils 164 Yes () No Samples in Holding Field Filtered (if applicable): Residual Chlorine Present Sample Disposal: Cl Strips: [] Dispose as appropriate [] Return [] Same Day (] Next Day Yes [] No Sample pH Acceptable l Archive: (] 2 Day (] 3 Day (] 4 Day [] 5 Day DOC Analysis: pH Strips:] Hold: (Expedite Charges Apply) Sulfide Present Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Lead Acetate Strips: Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT) LAB USE ONLY: Collected (or # of Lab Sample # / Comments: Comp / Composite End Customer Sample ID Matrix * Grab Composite Start) Cl Ctns Time Time SW -09 8 GOB 5W-C1 SW-STM SW-C5 /: 30 SW-EB 3:00 SW-NBOUT SW-NB 4:30 SW-NB DUP 4:35 SW-HWYZ7W 5:45 5W-HWYZ7E 6:00 SHORT HOLDS PRESENT (<72 hours): Y N N/A Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None Lab Sample Temperature Info: Temp Blank Received: Y N NA Packing Material Used: Lab Tracking #: 2830240 Therm ID#: Cooler 1 Temp Upon Receipt: Samples received via: Cooler 1 Therm Corr. Factor: Radchem sample(s) screened (<\$00 cpm): Y N FEDEX UPS Client Courier Pace Courier Cooler 1 Corrected Temps: Relinquished by/Company: (Signature) MTJL LAB USE ONLY Comments: Date/Time: Received by/Company: (Signature) Date/Time: 4-20-23 10:00AK Table #: Acctnum: Relinquished by/Company: (Signature) Date/Time: Trip Blank Received: N NA Template: HCL MeOH Other Prelogin: Relinquished by/Company: (Signature) **Pagg**e 31 of 38 Non Conformance(s): YES / NO

YES / NO

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form

Effective Date: 8/16/2022

		t Na ners n			ervation	L on ha	ve be	en ch	ecked Lab	and r Lot# o	noted b	elow.		Sam	s)		4	ceip prese			(0 H adju	sted)						tıal wh	•	\leftarrow	Date/ ime.	
				Glass	لـــــــــــــــــــــــــــــــــــــ					Plast							als					ars			Gen	eral]	s (>6mm) *	pH ≤2	4aOH+Zn Act pH ≥9	1≥12	152	pH after adjusted	Volume
Pace Lab#	AG10	BG1U	AG1H	AG4S	AGSU	AG2S	BG3U	BP1U	врзи	врзв	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	V G9H	VG9M	VG9D	JGFU	വദാ	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (HZSO4 p	NaOH+Zn	NaOH pH ≥12	HNO3 pH <2	pH affer	(mL)
001	7 28%		S002 1					1	2	W79	2	3	3			6					24									X		X		2.5 / 5
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Exceptio	ns to	preser	vation	check	VOA,	, Coli	form,	тос,	TOX,	ТОН,	O&G,	WI D	RO, F	henol	ics, O	h <u>er</u>	DC	2		_	Hea	dspac	e in V	OA VI	als (>6	imm)	: □Ye	s □t	Vo 🗷	V/A	*If y	es look	in hea	dspace column
AG1U			_		17		BF	1U			tic un					V	39C	40 m	L clea	ar asc	orbic	w/ HC)	JG	FU	4 oz	ambe	rjaru	inpres	3			1	
BG1U								23U			astic i					1	G9T			ber Na									unpres	6			l	
AG1H AG4S						∩ 4		23B 23N			astic N astic H						39U 39H	40 m	ıL clea	ar vial ar vial	unpre	es			SFU PFU	4 oz	clear	jar un	ipres inpres					
AG5U								·3N •3S			astic f						39M			ar viai ar vial		Н			7FU 25T				Na Th		ate			
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BG3U										-								•						_	V 1		Ū					ļ		
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DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR

Effective Date: 8/17/2022

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Folk	Project #: 1.0 U . 400C4407
	WO#: 40261107
17 000 On 141 1 1000 -1121	
Tracking #: 11033 K31014589 //3	40261107
Custody Seal on Cooler/Box Present: yes no Seals intact:	
- · · · · · · · · · · · · · · · · · · ·	ges no
Packing Material: Bubble Wrap Bubble Bags None Thermometer Used SR - Type of Ice. Wet	Slue Dry None Meltwater Only
Cooler Temperature Uncorr 0.5 /Corr:/. 5(3)	Person examining contents:
	Fissue is Frozen: ☐ yes☐ no Date: 4/3/18 Initials S
Temp should be above freezing to 6°C.	7,2,7
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.	Labeled By Initials:
Chain of Custody Present:	1.
Chain of Custody Filled Out: ✓ Yes □No □N/A	2.
Chain of Custody Relinquished: ✓Yes □No □N/A	3.
Sampler Name & Signature on COC:	4.
Samples Arrived within Hold Time: ☐Yes ☐No	5.
- DI VOA Samples frozen upon receipt □Yes □No	Date/Time:
Short Hold Time Analysis (<72hr): □Yes ☑No	6.
Rush Turn Around Time Requested:	7.
Sufficient Volume:	8.
For Analysis: Tyes TNo MS/MSD: Tyes TNo TN/A	
Correct Containers Used:	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace	
Containers Intact: ✓ Ves □No	10.
Filtered volume received for Dissolved tests	11.
Sample Labels match COC:	12.
-Includes date/time/ID/Analysis Matrix: LJ	
Trip Blank Present: □Yes □No □VIA	13.
Trip Blank Custody Seals Present □Yes □No □N/A	
Pace Trip Blank Lot # (ıf purchased):	
Client Notification/ Resolution:	If checked, see attached form for additional comments
Person Contacted: Date/ Comments/ Resolution:	lime:
17 023 K31 OL 4589 9785 1	DOD/1.0
12023 83101 1256 2433	7,0/2.0
PM Review is documented electronically in LIMs. By releasing the	project, the PM acknowledges they have reviewed the sample logic

OF Z **CHAIN-OF-CUSTODY Analytical Request Document** LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here -Pace Analytical* 140261107 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields Company: Billing Information: ALL SHADED AREAS are for LAB USE ONLY ACCOUNTING FOTH ZIZI INNOVATION COURT DEPOSE, WI. 54115 Container Preservative Type ** Lab Project Manager: U U U 2 451451 ** Preservative Types. (1) mitric acid. (2) sulfunc acid. (3) hydrochloric acid. (4) sodium hydroxide, (5) zinc acetate. SHAREN . KOSKKIC FOTH . COM (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, Site Collection Info/Address: Copy To: (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other Analyses Lab Profile/Line: Customer Project Name/Number: County/City: Time Zone Collected: Lab Sample Receipt Checklist: WII RUSK []PT[]MT[KLCT []ET Custody Seals Present/Intact Y N NA Phone: Email: 920-497-2500 Site/Facility ID #: Compliance Monitoring? HARONESS Custody Signatures Present Y N NA Collector Signature Present FLAMBEOW MINE CO [] Yes [] No Sottles Intel Purchase Order #: Collected By (print): DW PWS ID #: IM ENGELHARDT Sufficient Volum Quote #: DW Location Code: Samples Rec immediately Packed on ice: Turnaround Date Required: VOA - Headspace Acc Swill USDA Regulated Soils Y N NA [**b⊈**⊻es Samples in Holding Field Filtered (if applicable): Sample Disposal: Residual Chlorine Pres [] Same Day [] Next Day **∱**XYes C1 Strips: Dispose as appropriate [] Return [] No Sample pH Acceptable []2 Day []3 Day []4 Day []5 Day Analysis: DOC pH Strips: (Expedite Charges Apply) Sulfide Present Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Lead Acetate Strips: Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT) LAB USE ONLY: Lab Sample # / Comments: Comp / Collected (or # of Composite End Customer Sample ID Matrix * Grab Composite Start) C Ctns Time Date Time SW -09 20230419 OT 600 8 1715 5W-C1_20230419 SW - STM_20230419 1830 Sw - C5_20230419 1330 5W-EB_20230419 3:00 1500 SW - NBOUT_20230419 1545 JW-NB 20230419 1630 SW - NB - DUP 20230419 1635 5W - HWYZ7W_2023 419 1745 5W-HWYZ76 20230419 1800 Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Sample Temperature Info: Revised 4/24/2023 @ 1200 Temp Blank Received: Y N NA Packing Material Used: Lab Tracking #: 2830240 By Nick Glander (Foth) Cooler 1 Temp Upon Receipt: Samples received via: . Cooler 1 Therm Corr. Factor: Radchem sample(s) screened (<500 cpm); Y N NA FEDEX UPS Client Courier Pace Courier Cooler 1 Corrected Temps: Comments: Relinguished by/Company: (Signature) Received by/Company: (Signature) MTJL LAB USE ONLY Date/Time: Date/Time: 4-20-23 /D:041K Table #: Acctnum: Relinquished by/Company: (Signature) Date/Time: N Trip Blank Received: Tempiate: HCL MeOH TSP Other Prelogin: Relinquished by/Company: (Signature) Non Conformance(s): Page:

Non Conformance(s):

YES / NO

Page:

Effective Date: 8/16/2022

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			G	ilass	i					Plast	tic					Vi	als				Jŧ	31'S			Gen	eral		(>6mm) *	± 52	Act pH ≥9	212	25	affer adjusted	Volume
e # 50 V		BG10	AG1H	AG4S	AGSU	AG2S	BG3U	BP1U	врзи	ВРЗВ	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	V G9H	VG9M	VG9D	JGFU	າເອກ	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials	HZSO4 pH	NaOH+Zn Act pH ≥9	NaOH pH ≥12	ни волн	pti affer a	(mL)
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DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR Effective Date: 8/17/2022

Sample (Conditio	n Upo	n Receipt Fo	rm (SCUR)	
11			Project #	<i>t</i> :	
Client Name: FOH		<u></u>		MO#:	40261107
Courier: 🔲 CS Logistics 🔲 Fed Ex 🔲 Speede	e 🎵 UP	s 🗔 v	/altco	2001	
Client Pace Other:					
Tracking #: 12023 R31014	589	773	YW .	40261107	
Custody Seal on Cooler/Box Present: yes	no Sea	als intact	: 🔲 yes 🥅 no		
Custody Seal on Samples Present: 📋 yes 🛱			: 🗌 yes 🗎 no		
Packing Material: 🔲 Bubble Wrap 🗾 Bubb	le Bags	Non	e 🔲 Other _		***************************************
Thermometer Used SR - 7	Type of to	e Wet	Blue Dry None	Meltwater t	
Cooler Temperature Uncorr 0.5 /Corr:/.	5(2)				Person examining contents:
Temp Blank Present: yes 🔲 no	Bio	logical	lissue is Frozen:	: 🗌 yes 🗌 no	Date: 4/4/3 Initials:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dr	y Ice.				Labeled By Initials:
Chain of Custody Present:	√es □N	lo 🗆 N/A	1.		<u> </u>
Chain of Custody Filled Out:	ZiYes □N	lo 🗆 N/A	2.		
Chain of Custody Retinquished:	Yes ON	o □n/a	3.		
Sampler Name & Signature on COC:	ZYes □N	lo □n/A	4.		
Samples Arrived within Hold Time:	ZYes ON	ia	5.		
- DI VOA Samples frozen upon receipt	Yes □N	o	Date/Time:		
Short Hold Time Analysis (<72hr):	□Yes ZN	0	6.		
Rush Turn Around Time Requested:	□Yes ZN	0	7.		nun
Sufficient Volume:	·		8.		
For Analysis: Tayes No MS/MSD:	: 🗆 Yes 📈	o On/a			
Correct Containers Used:	7 Yes □N	lo	9.		
Correct Type: Pace Green Bay, Pace IR, Non-Pace	<i>,</i>				
Containers Intact:	Yes ON	io .	10.		
Filtered volume received for Dissolved tests	DYes □N	o □n/A	11.		
Sample Labels match COC:	Yes 🗆	o On/A	12.		
-Includes date/time/ID/Analysis Matrix: (2				
Trip Blank Present:	□Yes □N	o DKA	13.		
Trip Blank Custody Seals Present	□Yes □N	lo DANIA			
Pace Trip Blank Lot # (if purchased):	•••				
Client Notification/ Resolution:		5		If checked, see attac	hed form for additional comments
Person Contacted: Comments/ Resolution:		Date/	ııme:	<u></u>	
12023 K3T 01 4589	978		2000	11.0	
17 M 23 M 21 M 1256	7 4723	·		2.0	

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logic

Page_ 20f_ 2





May 19, 2023

Nick Glander Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod nottemeyor

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

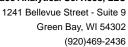
cc: MARK CIARDELLI, Foth Infrastructure & Environment,

LLC

Krystal Clark, Foth Infrastructure & Environment SHARON KOZICKI, Foth Infrastructure & Environment,

LLC







CERTIFICATIONS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A



SAMPLE SUMMARY

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261550001	SW-C9_20230429	Water	04/29/23 12:30	05/02/23 08:20
40261550002	SW-C1_20230429	Water	04/29/23 14:30	05/02/23 08:20
40261550003	SW-STM_20230429	Water	04/29/23 10:30	05/02/23 08:20
40261550004	SW-C5_20230429	Water	04/29/23 15:30	05/02/23 08:20
40261550005	SW-EB_20230429	Water	04/29/23 16:30	05/02/23 08:20
40261550006	SW-NBOUT_20230429	Water	04/29/23 17:00	05/02/23 08:20
40261550007	SW-NB_20230429	Water	04/29/23 18:15	05/02/23 08:20
40261550008	SW-HWY27W_20230429	Water	04/29/23 11:30	05/02/23 08:20
40261550009	SW-HWY27E_20230429	Water	04/29/23 12:00	05/02/23 08:20
40261550010	CP-04_20230429	Water	04/29/23 13:30	05/02/23 08:20
40261550011	SW-C5-DUP-20230429	Water	04/29/23 15:30	05/02/23 08:20



SAMPLE ANALYTE COUNT

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40261550001	SW-C9_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
40261550002 SW-C1_20230429	EPA 6020B	KXS	9	
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
	EPA 310.2	DAW	1	
	EPA 310.2	DAW	1	
		SM 5310C	TJJ	1
0261550003	SW-STM_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
0261550004	SW-C5_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
40261550005	SW-EB_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
40261550006 SW-NBOUT_20230429	EPA 6020B	KXS	9	
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
	SM 4500-S F (2000)	EXM	1	
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
40261550007	SW-NB_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
40261550008	SW-HWY27W_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	НМВ	2
		EPA 300.0	НМВ	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
0261550009	SW-HWY27E_20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
0261550010 CP-04_20230429	EPA 6020B	KXS	9	
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
0261550011	SW-C5-DUP-20230429	EPA 6020B	KXS	9
		EPA 6020B	KXS	9
		SM 2540D	HNT	1
		SM 4500-S F (2000)	EXM	1
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1





SAMPLE ANALYTE COUNT

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Lab ID Sample ID Method Analysts Reported

PASI-G = Pace Analytical Services - Green Bay



Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: EPA 6020B

Description: 6020B MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for EPA 6020B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: EPA 6020B

Description: 6020B MET ICPMS, Dissolved

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for EPA 6020B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for SM 2540D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 443914

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- SW-C1_20230429 (Lab ID: 40261550002)
 - Total Suspended Solids
- SW-C5-DUP-20230429 (Lab ID: 40261550011)
 - Total Suspended Solids
- SW-C5_20230429 (Lab ID: 40261550004)
 - Total Suspended Solids
- SW-HWY27E_20230429 (Lab ID: 40261550009)
 - Total Suspended Solids
- SW-NBOUT_20230429 (Lab ID: 40261550006)
 - Total Suspended Solids
- SW-NB_20230429 (Lab ID: 40261550007)
 - Total Suspended Solids
- SW-STM_20230429 (Lab ID: 40261550003)
 - Total Suspended Solids

T3: Insufficient sample received from client to perform the analysis per EPA method requirements.

- SW-C1_20230429 (Lab ID: 40261550002)
 - Total Suspended Solids
- SW-C5-DUP-20230429 (Lab ID: 40261550011)
 - Total Suspended Solids



PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

Analyte Comments: QC Batch: 443914

T3: Insufficient sample received from client to perform the analysis per EPA method requirements.

- SW-C5_20230429 (Lab ID: 40261550004)
 - Total Suspended Solids
- SW-HWY27E_20230429 (Lab ID: 40261550009)
 - Total Suspended Solids
- SW-NBOUT_20230429 (Lab ID: 40261550006)
 - Total Suspended Solids
- SW-NB_20230429 (Lab ID: 40261550007)
 - Total Suspended Solids
- SW-STM_20230429 (Lab ID: 40261550003)
 - Total Suspended Solids

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PROJECT NARRATIVE

FMC-2023_04 FLAMBEAU MINE CO. Project:

Pace Project No.: 40261550

Method: SM 4500-S F (2000) Description: 4500S2F Sulfide, Iodometric

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for SM 4500-S F (2000) by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

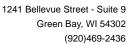
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.





PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: SM 4500-S F (2000)

Description: 4500S2F Sulfide, Diss Iodometro

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for SM 4500-S F (2000) by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: EPA 300.0
Description: 300.0 IC Anions

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

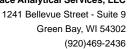
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.





PROJECT NARRATIVE

FMC-2023_04 FLAMBEAU MINE CO. Project:

Pace Project No.: 40261550

Method: **EPA 300.0**

Description: 300.0 IC Anions, Dissolved

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: EPA 310.2 Description: 310.2 Alkalinity

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for EPA 310.2 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: EPA 310.2

Description: 310.2 Alkalinity, Dissolved

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for EPA 310.2 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 444473

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40261504001,40261550006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 2551372)
 - · Alkalinity, Total as CaCO3, Dissolved



PROJECT NARRATIVE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: May 19, 2023

General Information:

11 samples were analyzed for SM 5310C by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-C9_20230429	Lab ID:	40261550001	Collected	l: 04/29/23	3 12:30	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical I	Method: EPA 6	020B Prepa	aration Met	hod: EF	PA 3010A			
	-	tical Services							
Calcium	2520	ug/L	254	76.2	1	05/03/33 06:07	05/16/23 13:45	7440 70 2	
Copper	5.0J	ug/L ug/L	6.4	1.9	1	05/03/23 06:07			
ron	741	ug/L	250	58.0	1		05/16/23 03:07		
Magnesium	983	ug/L	250	31.2	1		05/16/23 03:07		
Vanganese	24.9	ug/L	4.0	1.2	1		05/16/23 03:07		
Potassium	770J	ug/L	789	237	1		05/16/23 03:07		
Sodium	7010	ug/L	250	42.0	1		05/16/23 03:07		
Total Hardness by 2340B	10.3	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 03:07		
Zinc	11.6J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 03:07	7440-66-6	
020B MET ICPMS, Dissolved	Analytical I	Method: EPA 6	020B Prepa	aration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Green Bay	/					
Calcium, Dissolved	2400	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 16:05	7440-70-2	
Copper, Dissolved	3.8J	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 06:10	7440-50-8	
ron, Dissolved	290	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 06:10	7439-89-6	
Magnesium, Dissolved	919	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 06:10	7439-95-4	
Manganese, Dissolved	17.5	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 06:10	7439-96-5	
Potassium, Dissolved	684J	ug/L	789	237	1	05/03/23 06:33	05/16/23 06:10	7440-09-7	
Sodium, Dissolved	7140	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 06:10	7440-23-5	D9
otal Hardness by 2340B, Dissolved	9.8	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 06:10		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 06:10	7440-66-6	
2540D Total Suspended Solids	Analytical I	Method: SM 25	40D						
	Pace Analy	tical Services	- Green Bay	<i>'</i>					
Total Suspended Solids	6.4	mg/L	1.0	0.48	1		05/03/23 14:04		
1500S2F Sulfide, lodometric	Analytical I	Method: SM 45	00-S F (200	00)					
	Pace Analy	tical Services	- Green Bay	/					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:24		
4500S2F Sulfide, Diss Iodometrc	Analytical I	Method: SM 45	00-S F (200	00)					
	Pace Analy	tical Services	- Green Bay	/					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:02		
300.0 IC Anions	Analytical I	Method: EPA 3	00.0						
	Pace Analy	tical Services	- Green Bay	/					
Chloride	11.0	mg/L	2.0	0.43	1		05/15/23 19:42	16887-00-6	
Sulfate	1.3J	mg/L	2.0	0.44	1		05/15/23 19:42		
300.0 IC Anions, Dissolved	Analytical I	Method: EPA 3	00.0						
		tical Services		/					
Chloride, Dissolved	10.6	mg/L	2.0	0.43	1		05/16/23 04:58	16887-00-6	
Sulfate, Dissolved	1.3J	mg/L	2.0	0.44	1		05/16/23 04:58	14808-79-8	



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-C9_20230429	Lab ID:	40261550001	Collected	d: 04/29/2	3 12:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	У					
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		05/10/23 10:52		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
•	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 12:08		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
_	Pace Ana	lytical Services	- Green Ba	y					
Dissolved Organic Carbon	8.7	mg/L	0.50	0.14	1		05/04/23 12:02		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-C1_20230429	Lab ID:	40261550002	Collected	: 04/29/23	3 14:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A			
	Pace Anal	lytical Services	- Green Bay						
Calcium	6470	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 14:14	7440-70-2	
Copper	7.3	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	291	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 03:36	7439-89-6	
Magnesium	2720	ug/L	250	31.2	1		05/16/23 03:36		
Manganese	17.8	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 03:36	7439-96-5	
Potassium	1090	ug/L	789	237	1	05/03/23 06:07	05/16/23 03:36	7440-09-7	
Sodium	16500	ug/L	250	42.0	1	05/03/23 06:07			
Total Hardness by 2340B	27.4	mg/L	1.7	0.32	1	05/03/23 06:07			
Zinc	<10.3	ug/L	34.4	10.3	1		05/16/23 03:36	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A			
	-	lytical Services							
Calcium, Dissolved	6320	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 16:49	7440-70-2	
Copper, Dissolved	5.8J	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 06:40	7440-50-8	
Iron, Dissolved	130J	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 06:40	7439-89-6	
Magnesium, Dissolved	2700	ug/L	250	31.2	1		05/16/23 06:40		
Manganese, Dissolved	14.5	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	1040	ug/L	789	237	1	05/03/23 06:33	05/16/23 06:40	7440-09-7	
Sodium, Dissolved	17000	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 06:40	7440-23-5	D9
Total Hardness by 2340B, Dissolved	26.9	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 06:40		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 06:40	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25 lytical Services							
Total Suspended Solids	0.93J	mg/L	1.0	0.49	1		05/03/23 14:04		PP,T3
·		•					03/03/23 14.04		11,13
4500S2F Sulfide, Iodometric	-	Method: SM 45 lytical Services							
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:34		
4500S2F Sulfide,Diss Iodometrc	-	Method: SM 45 lytical Services							
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:08		
300.0 IC Anions	,	Method: EPA 30 lytical Services							
Chloride	27.0	mg/L	2.0	0.43	1		05/15/23 21:11	16887-00-6	
Sulfate	3.7	mg/L	2.0	0.44	1		05/15/23 21:11		
300.0 IC Anions, Dissolved		Method: EPA 30 lytical Services							
Chloride, Dissolved	27.2	mg/L	2.0	0.43	1		05/16/23 05:13	16887-00-6	D9
Sulfate, Dissolved	3.7	mg/L	2.0	0.44	1		05/16/23 05:13		



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-C1_20230429	Lab ID:	40261550002	Collected	d: 04/29/23	3 14:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	17.3J	mg/L	25.0	7.4	1		05/10/23 10:53		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	15.6J	mg/L	25.0	7.4	1		05/10/23 12:09		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
	Pace Ana	lytical Services	- Green Ba	У					
Dissolved Organic Carbon	7.8	mg/L	0.50	0.14	1		05/04/23 12:19		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-STM_20230429	Lab ID:	40261550003	Collected	d: 04/29/23	3 10:30	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: Ef	PA 3010A			
	-	ytical Services	•						
Calcium	7440	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 14:29	7440-70-2	
Copper	6.2J	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	371	ug/L	250	58.0	1		05/16/23 03:51		
Magnesium	3150	ug/L	250	31.2	1		05/16/23 03:51		
Manganese	16.5	ug/L	4.0	1.2	1		05/16/23 03:51		
Potassium	1180	ug/L	789	237	1	05/03/23 06:07			
Sodium	17900	ug/L	250	42.0	1	05/03/23 06:07			
Total Hardness by 2340B	31.5	mg/L	1.7	0.32	1	05/03/23 06:07		20 0	
Zinc	<10.3	ug/L	34.4	10.3	1		05/16/23 03:51	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: Ef	PA 3010A			
,		ytical Services							
Calcium, Dissolved	7110	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:03	7440-70-2	
Copper, Dissolved	4.9J	ug/L	6.4	1.9	1	05/03/23 06:33			
Iron, Dissolved	130J	ug/L	250	58.0	1	05/03/23 06:33			
Magnesium, Dissolved	3050	ug/L	250	31.2	1		05/16/23 06:55		
Manganese, Dissolved	10.3	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	1070	ug/L	789	237	1	05/03/23 06:33			
Sodium, Dissolved	17700	ug/L	250	42.0	1	05/03/23 06:33			
Total Hardness by 2340B, Dissolved	30.3	mg/L	1.7	0.32	1		05/16/23 06:55	20 0	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 06:55	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25		/					
Total Suspended Solids	2.1	mg/L	1.1	0.50	1		05/03/23 14:04		PP,T3
·		•			·		00/00/20 11.01		,
4500S2F Sulfide, lodometric	•	Method: SM 45 ytical Services -	,	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:35		
4500S2F Sulfide,Diss Iodometrc	•	Method: SM 45	,	,					
		ytical Services -	Green Bay						
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:11		
300.0 IC Anions	•	Method: EPA 30 ytical Services		/					
Chloride	31.1	mg/L	2.0	0.43	1		05/15/23 22:10	16887-00-6	
Sulfate	3.6	mg/L	2.0	0.44	1		05/15/23 22:10		
300.0 IC Anions, Dissolved	•	Method: EPA 30 ytical Services		/					
Chloride, Dissolved	31.6	mg/L	2.0	0.43	1		05/16/23 05:28	16887-00-6	D9
Ciliolide, Dissolved		····- -		55					



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-STM_20230429	Lab ID:	40261550003	Collecte	d: 04/29/2	3 10:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Anal	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	16.8J	mg/L	25.0	7.4	1		05/10/23 10:57		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
	Pace Anal	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	18.9J	mg/L	25.0	7.4	1		05/10/23 12:10		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	10C						
	Pace Anal	lytical Services	- Green Ba	y					
Dissolved Organic Carbon	8.7	mg/L	0.50	0.14	1		05/04/23 12:34		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-C5_20230429	Lab ID:	40261550004	Collected	d: 04/29/23	3 15:30	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: Ef	PA 3010A			
	-	ytical Services							
Calcium	4650	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 14:36	7440-70-2	
Copper	6.7	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	265	ug/L	250	58.0	1		05/16/23 03:58		
Magnesium	1970	ug/L	250	31.2	1		05/16/23 03:58		
Manganese	7.5	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 03:58	7439-96-5	
Potassium	976	ug/L	789	237	1	05/03/23 06:07			
Sodium	13600	ug/L	250	42.0	1	05/03/23 06:07		7440-23-5	
Total Hardness by 2340B	19.7	mg/L	1.7	0.32	1	05/03/23 06:07			
Zinc	<10.3	ug/L	34.4	10.3	1		05/16/23 03:58	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: Ef	PA 3010A			
,	-	ytical Services	-						
Calcium, Dissolved	4760	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:11	7440-70-2	D9
Copper, Dissolved	6.4	ug/L	6.4	1.9	1	05/03/23 06:33			
Iron, Dissolved	126J	ug/L	250	58.0	1	05/03/23 06:33			
Magnesium, Dissolved	2080	ug/L	250	31.2	1		05/16/23 07:31		D9
Manganese, Dissolved	5.0	ug/L	4.0	1.2	1	05/03/23 06:33			В
Potassium, Dissolved	1020	ug/L	789	237	1	05/03/23 06:33			D9
Sodium, Dissolved	14900	ug/L	250	42.0	1	05/03/23 06:33			D9
Total Hardness by 2340B, Dissolved	20.4	mg/L	1.7	0.32	1		05/16/23 07:31	7 1 10 20 0	20
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 07:31	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25		,					
		•	•				0=100100 1 1 0 1		
Total Suspended Solids	0.51J	mg/L	1.0	0.48	1		05/03/23 14:04		PP,T3
4500S2F Sulfide, Iodometric	•	Method: SM 45 ytical Services	,	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:37		
4500S2F Sulfide, Diss Iodometro	Analytical	Method: SM 45	00-S F (200	20)					
4300321 Sumue,Diss louometro	•	ytical Services	,	,					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:12		
300.0 IC Anions	•	Method: EPA 30 ytical Services		/					
Chloride	20.8	mg/L	2.0	0.43	1		05/15/23 22:24	16887-00-6	
Sulfate	3.1	mg/L	2.0	0.44	1		05/15/23 22:24		
300.0 IC Anions, Dissolved	•	Method: EPA 30 ytical Services		/					
Chloride, Dissolved	24.2	mg/L	2.0	0.43	1		05/15/23 16:05	16887-00-6	D9
Chionae, Dissoivea		9/	2.0	5.45			33, 13, 20 10.00	.0007 00 0	

REPORT OF LABORATORY ANALYSIS

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Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-C5_20230429	Lab ID:	40261550004	Collected	d: 04/29/2	3 15:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	11.1J	mg/L	25.0	7.4	1		05/10/23 10:58		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
-	Pace Ana	lytical Services	- Green Bay	y					
Alkalinity, Total as CaCO3, Dissolved	14.9J	mg/L	25.0	7.4	1		05/10/23 12:11		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
	Pace Ana	lytical Services	- Green Ba	y					
Dissolved Organic Carbon	7.6	mg/L	0.50	0.14	1		05/04/23 12:49		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-EB_20230429	Lab ID:	40261550005	Collected	d: 04/29/23	10.50	Received: 05/	02/23 00.20 IVI	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: El	PA 3010A			
	•	ytical Services	-						
Calcium	11200	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:13	7440-70-2	
Copper	6.3J	ug/L	6.4	1.9	1	05/03/23 06:07			
ron	480	ug/L	250	58.0	1		05/16/23 04:05		
Magnesium	4740	ug/L	250	31.2	1		05/16/23 04:05		
Manganese	24.1	ug/L	4.0	1.2	1		05/16/23 04:05		
Potassium	1560	ug/L	789	237	1		05/16/23 04:05		
Sodium	37000	ug/L	250	42.0	1		05/16/23 04:05		
Total Hardness by 2340B	47.6	mg/L	1.7	0.32	1	05/03/23 06:07		7440 20 0	
Zinc	<10.3	ug/L	34.4	10.3	1		05/16/23 04:05	7440-66-6	
2020P MET ICPMS Discolved	Analytical	Method: EPA 6	020B Bron	aration Mat	hod: El	DA 2010A			
6020B MET ICPMS, Dissolved	•	ytical Services	-		ilou. Li	-A 30 10A			
21. 5. 1.		•	•			25/22/22 22 22	05/40/00 47 40	7440 70 0	
Calcium, Dissolved	10800	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:18		
Copper, Dissolved	4.9J	ug/L	6.4	1.9	1	05/03/23 06:33			
ron, Dissolved	93.6J	ug/L	250	58.0	1		05/16/23 07:39		
Magnesium, Dissolved	4810	ug/L	250	31.2	1		05/16/23 07:39		D9
Manganese, Dissolved	17.8	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	1470	ug/L	789	237	1		05/16/23 07:39		_
Sodium, Dissolved	37600	ug/L	250	42.0	1	05/03/23 06:33		7440-23-5	D9
Total Hardness by 2340B, Dissolved	46.9	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 07:39		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 07:39	7440-66-6	
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
·	Pace Anal	ytical Services	- Green Bay	/					
Total Suspended Solids	2.8	mg/L	1.0	0.49	1		05/03/23 14:04		
4500S2F Sulfide, Iodometric	Analytical	Method: SM 45	500-S F (200	00)					
TOOOD TO CAME OF THE CAME OF T	•	ytical Services	•	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:39		
4500525 Sulfide Dies la demotre	Analytical	Mathad: SM 4E	:00 S E (20(20)					
4500S2F Sulfide,Diss Iodometrc	•	Method: SM 45 ytical Services	•	•					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:14		
300.0 IC Anions	Analytical	Method: EPA 3	00.0						
, , , , , , , , , , , , , , , , , , ,	,	ytical Services		/					
Chloride	61.1	mg/L	10.0	2.2	5		05/16/23 09:55	16887-00-6	
Sulfate	6.8	mg/L	2.0	0.44	1		05/15/23 23:02		
300.0 IC Anions, Dissolved	Analytical	Method: EPA 3	0.00						
Joseph John John Joseph John John John John John John John Joh	-	ytical Services		/					
Chloride, Dissolved	68.0	mg/L	10.0	2.2	5		05/16/23 14:58	16887-00-6	D9
	00.0	g/ =	10.0	۷.۷	9		30, 10,20 17.00	.0007-00-0	20



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-EB_20230429	Lab ID:	40261550005	Collecte	d: 04/29/23	3 16:30	Received: 05	5/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Anal	ytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	36.0	mg/L	25.0	7.4	1		05/10/23 10:59		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
	Pace Anal	ytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	35.5	mg/L	25.0	7.4	1		05/10/23 12:12		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
_	Pace Anal	ytical Services	- Green Ba	y					
Dissolved Organic Carbon	7.2	mg/L	0.50	0.14	1		05/04/23 13:05		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-NBOUT_20230429	Lab ID:	40261550006	Collected	d: 04/29/23	3 17:00	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: Ef	PA 3010A			
	-	ytical Services	•						
Calcium	9950	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:20	7440-70-2	
Copper	3.7J	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	370	ug/L	250	58.0	1		05/16/23 04:42		
Magnesium	4360	ug/L	250	31.2	1		05/16/23 04:42		
Manganese	32.1	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 04:42	7439-96-5	
Potassium	1370	ug/L	789	237	1	05/03/23 06:07	05/16/23 04:42	7440-09-7	
Sodium	25300	ug/L	250	42.0	1		05/16/23 04:42		
Total Hardness by 2340B	42.8	mg/L	1.7	0.32	1	05/03/23 06:07			
Zinc	<10.3	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 04:42	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: Ef	PA 3010A			
,	-	ytical Services -	•						
Calcium, Dissolved	8970	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:25	7440-70-2	
Copper, Dissolved	3.2J	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 07:46	7440-50-8	
Iron, Dissolved	116J	ug/L	250	58.0	1	05/03/23 06:33			
Magnesium, Dissolved	3990	ug/L	250	31.2	1		05/16/23 07:46		
Manganese, Dissolved	13.1	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	1240	ug/L	789	237	1	05/03/23 06:33			
Sodium, Dissolved	24400	ug/L	250	42.0	1	05/03/23 06:33			
Total Hardness by 2340B, Dissolved	38.8	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 07:46		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 07:46	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25 ytical Services		/					
Total Suspended Solids	0.82J	mg/L	1.0	0.49	1		05/03/23 14:04		PP,T3
4500S2F Sulfide, Iodometric	Analytical	Method: SM 45	00-S F (20(20)					
400021 Gamas, Isaamisa Is	•	ytical Services	,	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:40		
4500S2F Sulfide, Diss Iodometro	Analytical	Method: SM 45	00-S F (200	00)					
4300021 Oumac, 5133 louometro	•	ytical Services	,	,					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:15		
300.0 IC Anions	Analytical	Method: EPA 30	00.0						
	•	ytical Services -		/					
Chloride	48.6	mg/L	2.0	0.43	1		05/15/23 23:16	16887-00-6	
Sulfate	3.1	mg/L	2.0	0.44	1		05/15/23 23:16	14808-79-8	
300.0 IC Anions, Dissolved	•	Method: EPA 30 ytical Services		/					
Chloride, Dissolved	53.9	mg/L	2.0	0.43	1		05/16/23 15:10	16887-00-6	D9
Chionae, Dissolvea			0	5. 15			20, .0, 20 10.10		



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-NBOUT_20230429	Lab ID:	40261550006	Collected	d: 04/29/23	3 17:00	Received: 05	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Anal	ytical Services	- Green Ba	У					
Alkalinity, Total as CaCO3	20.7J	mg/L	25.0	7.4	1		05/10/23 11:00		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
	Pace Anal	ytical Services	- Green Bay	y					
Alkalinity, Total as CaCO3, Dissolved	21.0J	mg/L	25.0	7.4	1		05/10/23 13:11		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
_	Pace Anal	ytical Services	- Green Bay	y					
Dissolved Organic Carbon	9.2	mg/L	0.50	0.14	1		05/04/23 13:52		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-NB_20230429	Lab ID:	40261550007	Collected	l: 04/29/23	3 18:15	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: EF	PA 3010A			
	•	ytical Services	•						
Calcium	8800	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:28	7440-70-2	
Copper	5.6J	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	392	ug/L	250	58.0	1		05/16/23 04:50		
Magnesium	3550	ug/L	250	31.2	1		05/16/23 04:50		
Manganese	29.3	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 04:50	7439-96-5	
Potassium	1460	ug/L	789	237	1	05/03/23 06:07			
Sodium	35500	ug/L	250	42.0	1	05/03/23 06:07			
Total Hardness by 2340B	36.6	mg/L	1.7	0.32	1	05/03/23 06:07			
Zinc	18.2J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 04:50	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: EF	PA 3010A			
	•	ytical Services	-						
Calcium, Dissolved	8250	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:33	7440-70-2	
Copper, Dissolved	4.5J	ug/L	6.4	1.9	1	05/03/23 06:33			
Iron, Dissolved	169J	ug/L	250	58.0	1	05/03/23 06:33			
Magnesium, Dissolved	3490	ug/L	250	31.2	1		05/16/23 07:54		
Manganese, Dissolved	26.0	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	1390	ug/L	789	237	1	05/03/23 06:33			
Sodium, Dissolved	36000	ug/L	250	42.0	1	05/03/23 06:33			D9
Total Hardness by 2340B, Dissolved	35.0	mg/L	1.7	0.32	1		05/16/23 07:54	7 1 10 20 0	20
Zinc, Dissolved	19.0J	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 07:54	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25		,					
Total Suspended Solids	<0.49	mg/L	1.0	0.49	1		05/03/23 14:04		PP,T3
·		•					00/00/20 14:04		11,10
4500S2F Sulfide, lodometric	•	Method: SM 45 ytical Services	•	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:42		
4500S2F Sulfide,Diss Iodometrc	•	Method: SM 45	•	,					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:16		
300.0 IC Anions	•	Method: EPA 3							
	Pace Anal	ytical Services	- Green Bay	′					
Chloride	75.4	mg/L	10.0	2.2	5		05/16/23 13:18	16887-00-6	
Sulfate	2.4	mg/L	2.0	0.44	1		05/15/23 23:31	14808-79-8	
300.0 IC Anions, Dissolved	•	Method: EPA 30 ytical Services		/					
	86.0	mg/L	10.0	2.2	5		05/17/23 17:13	16887-00-6	D9
Chloride, Dissolved									

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-NB_20230429	Lab ID:	40261550007	Collected	d: 04/29/2	3 18:15	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Ana	ytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		05/10/23 11:01		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
-	Pace Ana	ytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 13:16		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
	Pace Ana	ytical Services	- Green Ba	y					
Dissolved Organic Carbon	10.0	mg/L	0.50	0.14	1		05/04/23 15:04		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-HWY27W_20230429	Lab ID: 40	261550008	Collected	: 04/29/23	11:30	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical Me	thod: EPA 6	020B Prepa	aration Met	nod: EF	PA 3010A			
	Pace Analytic								
Calcium	10200	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:35	7440-70-2	
Copper		ug/L	6.4	1.9	1	05/03/23 06:07			
ron		ug/L	250	58.0	1		05/16/23 04:57		
Vagnesium		ug/L	250	31.2	1		05/16/23 04:57		
Manganese		ug/L	4.0	1.2	1		05/16/23 04:57		
Potassium	1760	ug/L	789	237	1		05/16/23 04:57		
Sodium	59000	ug/L	250	42.0	1		05/16/23 04:57		
Total Hardness by 2340B		mg/L	1.7	0.32	1	05/03/23 06:07		7440 20 0	
Zinc	30.3J	ug/L	34.4	10.3	1		05/16/23 04:57	7440-66-6	
020B MET ICPMS, Dissolved	Analytical Me	thod: FPA 6	020B Prena	eration Met	nod: FF	PA 3010A			
1020D WILL TOT WIS, DISSUIVED	Pace Analytic		•		iou. LF	7, 30 107			
Calcium Dissalvad	10200		254	76.2	1	05/03/33 06:33	05/16/23 18:10	7440 70 2	
Calcium, Dissolved		ug/L	6.4	1.9	1	05/03/23 06:33			
Copper, Dissolved		ug/L							
ron, Dissolved		ug/L	250	58.0	1		05/16/23 08:01		
Magnesium, Dissolved	3640	ug/L	250	31.2	1		05/16/23 08:01		
Manganese, Dissolved	57.0 4640	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	1640	ug/L	789	237	1		05/16/23 08:01		
Sodium, Dissolved		ug/L	250	42.0	1	05/03/23 06:33		7440-23-5	
otal Hardness by 2340B, Dissolved	40.4	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 08:01		
Zinc, Dissolved	30.2J	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 08:01	7440-66-6	
2540D Total Suspended Solids	Analytical Me	thod: SM 25	40D						
·	Pace Analytic	al Services	Green Bay						
Total Suspended Solids	3.3	mg/L	1.0	0.48	1		05/03/23 14:05		
4500S2F Sulfide, lodometric	Analytical Me	thod: SM 45	00-S F (200	10)					
.ooozi Gamac, Icacinicano	Pace Analytic		,	•					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:43		
		•			•		00/01/2010110		
4500S2F Sulfide,Diss Iodometrc	Analytical Me Pace Analytic		•	•					
Pulfide Disselved	•		•		4		05/04/02 44:47		
Sulfide, Dissolved		mg/L	4.0	1.2	ı		05/04/23 14:17		
300.0 IC Anions	Analytical Me Pace Analytic								
Oblacida	•		•		_		05/40/02 42 53	40007.00.0	
Chloride Sulfate		mg/L	10.0 2.0	2.2 0.44	5 1		05/16/23 13:32		
Sunate		mg/L		0.44	ı		05/15/23 23:46	14000-19-8	
300.0 IC Anions, Dissolved	Analytical Me								
	Pace Analytic	al Services	Green Bay						
Chloride, Dissolved	131	mg/L	10.0	2.2	5		05/17/23 17:25	16887-00-6	D9
Sulfate, Dissolved	3.1	mg/L	2.0	0.44	1		05/16/23 15:36	14808-79-8	



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-HWY27W_20230429	Lab ID: 40261550008		Collected: 04/29/23 11:30		Received: 05	/02/23 08:20 Ma	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Anal	ytical Services	- Green Ba	у					
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		05/10/23 11:02		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
	Pace Anal	ytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 13:19		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
_	Pace Anal	ytical Services	- Green Ba	y					
Dissolved Organic Carbon	10.8	mg/L	0.50	0.14	1		05/04/23 15:22		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-HWY27E_20230429	Lab ID:	40261550009	Collected	04/29/23	12:00	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	Green Bay						
Calcium	2220	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:42	7440-70-2	
Copper	4.1J	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	584	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 05:04	7439-89-6	
Magnesium	856	ug/L	250	31.2	1		05/16/23 05:04		
Manganese	17.6	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 05:04	7439-96-5	
Potassium	699J	ug/L	789	237	1	05/03/23 06:07			
Sodium	3680	ug/L	250	42.0	1	05/03/23 06:07		7440-23-5	
Total Hardness by 2340B	9.1	mg/L	1.7	0.32	1	05/03/23 06:07			
Zinc	25.5J	ug/L	34.4	10.3	1		05/16/23 05:04	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 6	020B Prepa	ration Met	hod: EF	PA 3010A			
	-	ytical Services							
Calcium, Dissolved	1930	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 18:17	7440-70-2	
Copper, Dissolved	3.6J	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 08:08	7440-50-8	
Iron, Dissolved	214J	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 08:08	7439-89-6	
Magnesium, Dissolved	756	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 08:08	7439-95-4	
Manganese, Dissolved	11.5	ug/L	4.0	1.2	1	05/03/23 06:33			
Potassium, Dissolved	635J	ug/L	789	237	1	05/03/23 06:33	05/16/23 08:08	7440-09-7	
Sodium, Dissolved	3080	ug/L	250	42.0	1	05/03/23 06:33			
Total Hardness by 2340B, Dissolved	7.9	mg/L	1.7	0.32	1		05/16/23 08:08		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 08:08	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25							
Total Suspended Solids	1.4	mg/L	1.0	0.49	1		05/03/23 14:05		PP,T3
4500S2F Sulfide, lodometric	Analytical	Method: SM 45	00-S F (200						•
0.151		ytical Services	•				05/04/00 40 40		
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:46		
4500S2F Sulfide,Diss Iodometrc	-	Method: SM 45 ytical Services							
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:19		
300.0 IC Anions	•	Method: EPA 30 ytical Services							
Chloride	4.1	mg/L	2.0	0.43	1		05/16/23 00:01	16887-00-6	
Sulfate	1.2J	mg/L	2.0	0.44	1		05/16/23 00:01		
300.0 IC Anions, Dissolved	•	Method: EPA 30 ytical Services							
Chloride, Dissolved	4.8	mg/L	2.0	0.43	1		05/16/23 15:49	16887-00-6	D9
Sulfate, Dissolved	1.4J	mg/L	2.0	0.44	1		05/16/23 15:49		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-HWY27E_20230429	Lab ID:	40261550009	Collected	d: 04/29/2	3 12:00	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		05/10/23 11:03		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 13:20		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
_	Pace Ana	lytical Services	- Green Ba	y					
Dissolved Organic Carbon	8.3	mg/L	0.50	0.14	1		05/04/23 15:39		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: CP-04_20230429	Lab ID:	40261550010	Collected	d: 04/29/23	3 13:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
6020B MET ICPMS	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: El	PA 3010A			
	•	ytical Services	•						
Calcium	12900	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:50	7440-70-2	
Copper	12.7	ug/L	6.4	1.9	1	05/03/23 06:07	05/16/23 05:12	7440-50-8	
Iron	478	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 05:12	7439-89-6	
Magnesium	6860	ug/L	250	31.2	1		05/16/23 05:12		
Manganese	103	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 05:12	7439-96-5	
Potassium	2300	ug/L	789	237	1	05/03/23 06:07			
Sodium	101000	ug/L	250	42.0	1		05/16/23 05:12		
Total Hardness by 2340B	60.5	mg/L	1.7	0.32	1	05/03/23 06:07			
Zinc	10.4J	ug/L	34.4	10.3	1		05/16/23 05:12		
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 60	020B Prepa	aration Met	hod: El	PA 3010A			
,	•	ytical Services							
Calcium, Dissolved	11900	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 18:24	7440-70-2	
Copper, Dissolved	10.1	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 09:15	7440-50-8	
ron, Dissolved	<58.0	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 09:15	7439-89-6	
Magnesium, Dissolved	7060	ug/L	250	31.2	1		05/16/23 09:15		D9
Manganese, Dissolved	89.9	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 09:15	7439-96-5	
Potassium, Dissolved	2240	ug/L	789	237	1	05/03/23 06:33			
Sodium, Dissolved	104000	ug/L	250	42.0	1	05/03/23 06:33			D9
Total Hardness by 2340B, Dissolved	58.9	mg/L	1.7	0.32	1		05/16/23 09:15		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 09:15	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25 lytical Services		/					
Total Suspended Solids	5.2	mg/L	1.0	0.48	1		05/03/23 14:05		
4500S2F Sulfide, lodometric	•	Method: SM 45	•	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:47		
4500S2F Sulfide, Diss Iodometrc	Analytical	Method: SM 45	00-S E (20(20)					
430032F 3umde,Diss louomenc	•	ytical Services	•	,					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:22		
300.0 IC Anions	,	Method: EPA 30 ytical Services		/					
Chloride	167	mg/L	20.0	4.3	10		05/16/23 13:47	16887-00-6	
Sulfate	8.2	mg/L	2.0	0.44	1		05/16/23 00:16		
300.0 IC Anions, Dissolved	•	Method: EPA 30 ytical Services		/					
Chloride, Dissolved	165	mg/L	20.0	4.3	10		05/17/23 17:38	16887-00-6	
Sulfate, Dissolved	7.5	mg/L	2.0	0.44	1		05/16/23 16:02		



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: CP-04_20230429	Lab ID:	40261550010	Collected	d: 04/29/23	3 13:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Ana	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3	39.5	mg/L	25.0	7.4	1		05/10/23 11:04		
310.2 Alkalinity, Dissolved	Analytical	Method: EPA 3	10.2						
-	Pace Ana	lytical Services	- Green Bay	y					
Alkalinity, Total as CaCO3, Dissolved	34.5	mg/L	25.0	7.4	1		05/10/23 13:24		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
	Pace Ana	lytical Services	- Green Ba	y					
Dissolved Organic Carbon	9.4	mg/L	0.50	0.14	1		05/04/23 15:58		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Sample: SW-C5-DUP-20230429	Lab ID:	40261550011	Collected	d: 04/29/23	3 15:30	Received: 05/	02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: El	PA 3010A			
	-	ytical Services							
Calcium	4760	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:57	7440-70-2	
Copper	7.2	ug/L	6.4	1.9	1	05/03/23 06:07			
Iron	268	ug/L	250	58.0	1		05/16/23 05:19		
Magnesium	1940	ug/L	250	31.2	1		05/16/23 05:19		
Manganese	7.2	ug/L	4.0	1.2	1		05/16/23 05:19		
Potassium	1000	ug/L	789	237	1	05/03/23 06:07			
Sodium	13600	ug/L	250	42.0	1		05/16/23 05:19		
Total Hardness by 2340B	19.9	mg/L	1.7	0.32	1	05/03/23 06:07		20 0	
Zinc	16.3J	ug/L	34.4	10.3	1		05/16/23 05:19	7440-66-6	
6020B MET ICPMS, Dissolved	Analytical	Method: EPA 6	020B Prepa	aration Met	hod: El	PA 3010A			
,	•	ytical Services							
Calcium, Dissolved	4440	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 18:32	7440-70-2	
Copper, Dissolved	6.1J	ug/L	6.4	1.9	1	05/03/23 06:33			
Iron, Dissolved	153J	ug/L	250	58.0	1	05/03/23 06:33			
Magnesium, Dissolved	2000	ug/L	250	31.2	1		05/16/23 09:22		D9
Manganese, Dissolved	4.9	ug/L	4.0	1.2	1	05/03/23 06:33			20
Potassium, Dissolved	955	ug/L	789	237	1	05/03/23 06:33			
Sodium, Dissolved	14000	ug/L	250	42.0	1	05/03/23 06:33			D9
Total Hardness by 2340B, Dissolved	19.3	mg/L	1.7	0.32	1		05/16/23 09:22	20 0	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 09:22	7440-66-6	
2540D Total Suspended Solids	•	Method: SM 25		/					
Total Suspended Solids	1.3	mg/L	1.0	0.49	1		05/03/23 14:05		PP,T3
·		Method: SM 45		201					•
4500S2F Sulfide, lodometric	•	ytical Services	•	,					
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:49		
4500S2F Sulfide,Diss Iodometrc	Analytical	Method: SM 45	00-S F (200	00)					
	Pace Anal	ytical Services	- Green Bay	/					
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:24		
300.0 IC Anions	Analytical	Method: EPA 3	00.0						
	•	ytical Services		/					
Chloride	21.2	mg/L	2.0	0.43	1		05/16/23 01:15	16887-00-6	
Sulfate	3.2	mg/L	2.0	0.44	1		05/16/23 01:15		
300.0 IC Anions, Dissolved	•	Method: EPA 3 ytical Services		/					
Chloride, Dissolved	23.8	mg/L	2.0	0.43	1		05/16/23 16:15	16887-00-6	D9
Sulfate, Dissolved	3.3	mg/L	2.0	0.43	1		05/16/23 16:15		D9
,,	0.0	···· o / -	0	5	•		20, .0, 20 10.10		_ 3



ANALYTICAL RESULTS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sample: SW-C5-DUP-20230429	Lab ID:	40261550011	Collecte	d: 04/29/2	3 15:30	Received: 05/	/02/23 08:20 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical	Method: EPA 3	10.2						
	Pace Anal	lytical Services	- Green Ba	у					
Alkalinity, Total as CaCO3	12.9J	mg/L	25.0	7.4	1		05/10/23 11:05		
310.2 Alkalinity, Dissolved	Analytical	Analytical Method: EPA 310.2							
	Pace Anal	lytical Services	- Green Ba	y					
Alkalinity, Total as CaCO3, Dissolved	12.1J	mg/L	25.0	7.4	1		05/10/23 13:25		
5310C Dissolved Organic Carbon	Analytical	Method: SM 53	310C						
	Pace Anal	lytical Services	- Green Ba	y					
Dissolved Organic Carbon	8.2	mg/L	0.50	0.14	1		05/04/23 16:16		



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

QC Batch: 443878 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

 $40261550008,\,40261550009,\,40261550010,\,40261550011$

METHOD BLANK: 2548484 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Calcium	ug/L	<76.2	254	05/16/23 13:30	
Copper	ug/L	<1.9	6.4	05/16/23 02:08	
Iron	ug/L	<58.0	250	05/16/23 02:08	
Magnesium	ug/L	<31.2	250	05/16/23 02:08	
Manganese	ug/L	<1.2	4.0	05/16/23 02:08	
Potassium	ug/L	<237	789	05/16/23 02:08	
Sodium	ug/L	46.0J	250	05/16/23 02:08	
Total Hardness by 2340B	mg/L	< 0.32	1.7	05/16/23 02:08	
Zinc	ug/L	<10.3	34.4	05/16/23 02:08	

LABORATORY CONTROL SAMPLE:	2548485					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Calcium	ug/L	10000	9920	99	80-120	
Copper	ug/L	250	228	91	80-120	
Iron	ug/L	10000	9950	100	80-120	
Magnesium	ug/L	10000	10500	105	80-120	
Manganese	ug/L	250	236	94	80-120	
Potassium	ug/L	10000	9940	99	80-120	
Sodium	ug/L	10000	9880	99	80-120	
Total Hardness by 2340B	mg/L		67.9			
Zinc	ug/L	250	246	98	80-120	

MATRIX SPIKE & MATRIX SI	PIKE DUPL	ICATE: 2548	486		2548487							
Parameter	Units	40261550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	2520	10000	10000	12600	13000	101	105	75-125	3	20	
Copper	ug/L	5.0J	250	250	247	240	97	94	75-125	3	20	
Iron	ug/L	741	10000	10000	11000	10800	103	101	75-125	1	20	
Magnesium	ug/L	983	10000	10000	11800	11600	108	106	75-125	1	20	
Manganese	ug/L	24.9	250	250	267	261	97	94	75-125	2	20	
Potassium	ug/L	770J	10000	10000	11100	10800	103	101	75-125	2	20	
Sodium	ug/L	7010	10000	10000	17200	16900	102	99	75-125	2	20	
Total Hardness by 2340B	mg/L	10.3			79.9	80.3				1	20	
Zinc	ug/L	11.6J	250	250	259	255	99	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

QC Batch: 443881 Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A Analysis Description: 6020B MET Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2548495 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

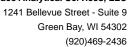
40261550008, 40261550009, 40261550010, 40261550011

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	<76.2	254	05/16/23 14:58	
Copper, Dissolved	ug/L	<1.9	6.4	05/16/23 04:27	
Iron, Dissolved	ug/L	<58.0	250	05/16/23 04:27	
Magnesium, Dissolved	ug/L	<31.2	250	05/16/23 04:27	
Manganese, Dissolved	ug/L	<1.2	4.0	05/16/23 04:27	
Potassium, Dissolved	ug/L	<237	789	05/16/23 04:27	
Sodium, Dissolved	ug/L	<42.0	250	05/16/23 04:27	
Total Hardness by 2340B, Dissolved	mg/L	<0.32	1.7	05/16/23 04:27	
Zinc, Dissolved	ug/L	<10.3	34.4	05/16/23 04:27	

LABORATORY CONTROL SAMPLE:	2548496					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	10000	100	80-120	
Copper, Dissolved	ug/L	250	243	97	80-120	
Iron, Dissolved	ug/L	10000	10300	103	80-120	
Magnesium, Dissolved	ug/L	10000	10900	109	80-120	
Manganese, Dissolved	ug/L	250	244	98	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10600	106	80-120	
Total Hardness by 2340B, Dissolved	mg/L		69.8			
Zinc, Dissolved	ug/L	250	254	101	80-120	

MATRIX SPIKE & MATRIX S	SPIKE DUPL	ICATE: 2548	497		2548498							
Parameter	Units	40261550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	2400	10000	10000	12400	12100	100	97	75-125	2	20	
Copper, Dissolved	ug/L	3.8J	250	250	246	243	97	96	75-125	1	20	
Iron, Dissolved	ug/L	290	10000	10000	10600	10300	103	100	75-125	2	20	
Magnesium, Dissolved	ug/L	919	10000	10000	12200	11800	112	108	75-125	3	20	
Manganese, Dissolved	ug/L	17.5	250	250	259	253	96	94	75-125	2	20	
Potassium, Dissolved	ug/L	684J	10000	10000	10600	10500	99	98	75-125	1	20	
Sodium, Dissolved	ug/L	7140	10000	10000	17900	17400	108	103	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

MATRIX SPIKE & MATRIX S		2548498										
Parameter	Units	40261550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD	Max RPD	Qual
Total Hardness by 2340B,	mg/L	9.8			80.9	78.6		70 1100		3		— Quai
Dissolved Zinc, Dissolved	ug/L	<10.3	250	250	260	256	100	98	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Total Suspended Solids

QC Batch: 443914 Analysis Method: SM 2540D

mg/L

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Green Bay

05/03/23 14:03

1.0

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2548627 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting

< 0.48

Parameter Units Result Limit Analyzed Qualifiers

LABORATORY CONTROL SAMPLE: 2548628

Spike LCS LCS % Rec Parameter Units Result % Rec Limits Qualifiers Conc. **Total Suspended Solids** mg/L 100 108 108 80-120

SAMPLE DUPLICATE: 2548629

Date: 05/19/2023 10:02 AM

35795979001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 509 549 8 10 Total Suspended Solids mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sulfide

Date: 05/19/2023 10:02 AM

QC Batch: 444057 Analysis Method: SM 4500-S F (2000)

QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Dissolved Iodometric

> Laboratory: Pace Analytical Services - Green Bay

40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007, Associated Lab Samples:

40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2549348 Matrix: Water

40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007, Associated Lab Samples:

40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting

Parameter Units Limit Qualifiers Result Analyzed mg/L <1.2 40 05/04/23 13:57

LABORATORY CONTROL SAMPLE: 2549349

LCS LCS Spike % Rec Units % Rec Limits Qualifiers Parameter Conc. Result Sulfide mg/L 44.8 48.0 107 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549350 2549351

MSD MS

40261550001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Sulfide 47.2 2 20 <1.2 44.8 44.8 104 103 80-120 mg/L 46.4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Sulfide

Date: 05/19/2023 10:02 AM

QC Batch: 444010 Analysis Method: SM 4500-S F (2000)

QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric

Laboratory: Pace Analytical Services - Green Bay

40

05/04/23 10:17

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2549096 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting

<1.2

Parameter Units Result Limit Analyzed Qualifiers

LABORATORY CONTROL SAMPLE: 2549097

LCS LCS Spike % Rec Units Result % Rec Limits Qualifiers Parameter Conc. Sulfide mg/L 45.2 47.6 105 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549098 2549099

mg/L

MS MSD

40261550001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Sulfide <1.2 45.2 45.2 47.6 47.2 105 104 80-120 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Chloride

Sulfate

Date: 05/19/2023 10:02 AM

QC Batch: 444564 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003

METHOD BLANK: 2552122 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003

Blank Reporting Qualifiers Parameter Units Result Limit Analyzed < 0.43 2.0 05/16/23 01:30 mg/L mg/L < 0.44 2.0 05/16/23 01:30

LABORATORY CONTROL SAMPLE: 2552123

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 20 20.8 104 90-110 mg/L 90-110 Sulfate mg/L 20 20.9 105

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552124 2552125 MS MSD 40261506001 Spike Spike MS MSD MS MSD % Rec Max RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** Qual Chloride mg/L 2.9J 100 100 104 101 101 90-110 3 15 Sulfate 58.5 100 100 157 154 98 90-110 2 mg/L 96 15

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

QC Batch: 444663 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 EPA 300.0 IC Anions, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550004, 40261550005, 40261550006, 40261550007, 40261550008, 40261550009, 40261550010,

40261550011

METHOD BLANK: 2552648 Matrix: Water

Associated Lab Samples: 40261550004, 40261550005, 40261550006, 40261550007, 40261550008, 40261550009, 40261550010,

40261550011

MATRIX CRIZE & MATRIX CRIZE DURI ICATE.

Date: 05/19/2023 10:02 AM

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	05/15/23 15:39	
Sulfate	mg/L	<0.44	2.0	05/15/23 15:39	

LABORATORY CONTROL SAMPLE:	2552649					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L		19.4	97	90-110	
Sulfate	mg/L	20	19.2	96	90-110	

OFFOCEO

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552650					2552651							
			MS	MSD								
	4	0261550004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	24.2	20	20	43.6	43.9	97	98	90-110	1	15	
Sulfate	mg/L	3.2	20	20	24.5	24.9	107	108	90-110	1	15	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	CATE: 2552	652		2552653	1						
			MS	MSD								
		40261746012	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	63.4	100	100	161	159	97	95	90-110	1	15	
Sulfate	mg/L	18.1	100	100	123	121	104	103	90-110	2	15	

OFFOCEO

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

QC Batch: 444662 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2552642 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting Parameter Qualifiers Units Result I imit Analyzed Chloride mg/L < 0.43 2.0 05/15/23 11:16 Sulfate mg/L < 0.44 2.0 05/15/23 11:16

LABORATORY CONTROL SAMPLE: 2552643 LCS LCS % Rec Spike Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 20 19.4 97 90-110 mq/L Sulfate 20 98 90-110 mg/L 19.6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552644 2552645 MS MSD 40261749003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Chloride mg/L 17.3 20 20 37.4 37.7 100 102 90-110 15 Sulfate mg/L 14.2 20 20 34.6 34.9 102 104 90-110 15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552646 2552647 MSD MS 40261550001 MS MSD MS MSD Spike Spike % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Chloride 11.0 20 20 31.1 31.3 101 102 90-110 15 mg/L Sulfate mg/L 1.3J 20 20 22.6 22.4 107 106 90-110 15

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

QC Batch: 444470 Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2551353 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007,

40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Alkalinity, Total as CaCO3 mg/L <7.4 25.0 05/10/23 10:37

LABORATORY CONTROL SAMPLE: 2551354

LCS LCS % Rec Spike % Rec Limits Qualifiers Parameter Units Conc. Result Alkalinity, Total as CaCO3 mg/L 100 101 101 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551355 2551356

MS MSD

40261472004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 20 Alkalinity, Total as CaCO3 206 100 100 307 308 102 102 90-110 0 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551357 2551358

MS MSD MSD MSD 40261550011 Spike Spike MS MS % Rec Max Parameter Units Conc. Conc. Result % Rec % Rec **RPD** RPD Qual Result Result Limits Alkalinity, Total as CaCO3 12.9J 100 100 116 119 103 106 90-110 2 20 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

QC Batch: 444473 Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006

METHOD BLANK: 2551369 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Alkalinity, Total as CaCO3, mg/L <7.4 25.0 05/10/23 11:44

Dissolved

LABORATORY CONTROL SAMPLE: 2551370

Spike LCS LCS % Rec Conc. Parameter Units Result % Rec Limits Qualifiers Alkalinity, Total as CaCO3, mg/L 100 98.7 99 90-110

Dissolved

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551371 2551372

MS MSD

40261504001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Alkalinity, Total as CaCO3, 200 20 M0 639 200 820 818 90 89 90-110 0 mg/L

Dissolved

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551373 2551374

MS MSD

40261550006 Spike Spike MS MSD MS MSD % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Alkalinity, Total as CaCO3, 21.0J 100 100 127 125 106 104 90-110 2 mg/L 20

Dissolved

Date: 05/19/2023 10:02 AM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

QC Batch: 444474 Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550007, 40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2551375 Matrix: Water

Associated Lab Samples: 40261550007, 40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Alkalinity, Total as CaCO3, mg/L <7.4 25.0 05/10/23 13:14

Dissolved

LABORATORY CONTROL SAMPLE: 2551376

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Alkalinity, Total as CaCO3, mg/L 100 101 101 90-110

Dissolved

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551377 2551378

MS MSD

40261550007 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Alkalinity, Total as CaCO3, 100 20 <7.4 100 113 117 106 110 90-110 3 mg/L

Dissolved

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551379 2551380

MS MSD

40261698029 Spike Spike MS MSD MS MSD % Rec Max % Rec % Rec **RPD** RPD Parameter Units Result Conc. Conc. Result Result Limits Qual Alkalinity, Total as CaCO3, 376 200 200 581 584 102 104 90-110 mg/L 20

Dissolved

Date: 05/19/2023 10:02 AM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

QC Batch: 443992 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005

METHOD BLANK: 2549037 Matrix: Water

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Dissolved Organic Carbon mg/L <0.14 0.50 05/04/23 05:58

LABORATORY CONTROL SAMPLE: 2549038

Parameter Units Conc. Result % Rec Limits Qualifiers

Dissolved Organic Carbon mg/L 12.5 12.2 98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549039 2549040

MS MSD

40261479001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result **RPD** RPD Result Conc. % Rec % Rec Limits Qual

Dissolved Organic Carbon mg/L 2.7 6 6 8.5 8.5 98 97 80-120 0 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549042 2549043

MS MSD 40261479002 MS MSD MS MSD % Rec Spike Spike Max RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual

Dissolved Organic Carbon mg/L 1.7 6 6 7.6 7.6 98 98 80-120 0 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

Qualifiers

(920)469-2436



QUALITY CONTROL DATA

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

QC Batch: 443993 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261550006, 40261550007, 40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2549044 Matrix: Water

Associated Lab Samples: 40261550006, 40261550007, 40261550008, 40261550009, 40261550010, 40261550011

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Dissolved Organic Carbon mg/L 0.16J 0.50 05/04/23 13:20

LABORATORY CONTROL SAMPLE: 2549045

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits

Dissolved Organic Carbon mg/L 12.5 12.0 96 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549046 2549047

MS MSD

40261550006 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result **RPD** RPD Qual Result Conc. % Rec % Rec Limits Dissolved Organic Carbon 9.2 6 mg/L 6 15.1 14.8 100 93 80-120 2 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 05/19/2023 10:02 AM

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

PP The mass of dried residue obtained did not meet the test method requirements based on volume used.

T3 Insufficient sample received from client to perform the analysis per EPA method requirements.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40261550001	SW-C9_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550002	SW-C1_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550003	SW-STM_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550004	SW-C5_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550005	SW-EB_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550006	SW-NBOUT_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550007	SW-NB 20230429	EPA 3010A	443878	EPA 6020B	443961
0261550008	SW-HWY27W_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550009	SW-HWY27E_20230429	EPA 3010A	443878	EPA 6020B	443961
0261550010	CP-04 20230429	EPA 3010A	443878	EPA 6020B	443961
0261550011	SW-C5-DUP-20230429	EPA 3010A	443878	EPA 6020B	443961
0261550001	SW-C9_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550002	SW-C1_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550003	SW-STM_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550004	SW-C5_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550005	SW-EB 20230429	EPA 3010A	443881	EPA 6020B	443962
0261550006	SW-NBOUT_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550007	SW-NB_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550008	SW-HWY27W_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550009	SW-HWY27E_20230429	EPA 3010A	443881	EPA 6020B	443962
0261550010	CP-04 20230429	EPA 3010A	443881	EPA 6020B	443962
0261550011	SW-C5-DUP-20230429	EPA 3010A	443881	EPA 6020B	443962
0261550001	SW-C9_20230429	SM 2540D	443914		
0261550002	SW-C1_20230429	SM 2540D	443914		
0261550003	SW-STM_20230429	SM 2540D	443914		
0261550004	SW-C5_20230429	SM 2540D	443914		
0261550005	SW-EB_20230429	SM 2540D	443914		
0261550006	SW-NBOUT_20230429	SM 2540D	443914		
0261550007	SW-NB_20230429	SM 2540D	443914		
0261550008	SW-HWY27W_20230429	SM 2540D	443914		
0261550009	SW-HWY27E_20230429	SM 2540D	443914		
0261550010	CP-04 20230429	SM 2540D	443914		
0261550011	SW-C5-DUP-20230429	SM 2540D	443914		
0261550001	SW-C9_20230429	SM 4500-S F (2000)	444010		
0261550002	SW-C1_20230429	SM 4500-S F (2000)	444010		
0261550003	SW-STM_20230429	SM 4500-S F (2000)	444010		
0261550004	SW-C5_20230429	SM 4500-S F (2000)	444010		
0261550005	SW-EB_20230429	SM 4500-S F (2000)	444010		
0261550006	SW-NBOUT_20230429	SM 4500-S F (2000)	444010		
0261550007	SW-NB_20230429	SM 4500-S F (2000)	444010		
0261550008	SW-HWY27W_20230429	SM 4500-S F (2000)	444010		
0261550009	SW-HWY27E_20230429	SM 4500-S F (2000)	444010		
0261550010	CP-04_20230429	SM 4500-S F (2000)	444010		
0261550011	SW-C5-DUP-20230429	SM 4500-S F (2000)	444010		
10261550001	SW-C9 20230429	SM 4500-S F (2000)	444057		
0261550002	SW-C1_20230429	SM 4500-S F (2000)	444057		
0261550002	SW-STM_20230429	SM 4500-S F (2000)	444057		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic Batch
40261550004	SW-C5_20230429	SM 4500-S F (2000)	444057	_	
10261550005	SW-EB_20230429	SM 4500-S F (2000)	444057		
0261550006	SW-NBOUT_20230429	SM 4500-S F (2000)	444057		
0261550007	SW-NB_20230429	SM 4500-S F (2000)	444057		
0261550008	SW-HWY27W_20230429	SM 4500-S F (2000)	444057		
0261550009	SW-HWY27E_20230429	SM 4500-S F (2000)	444057		
0261550010	CP-04_20230429	SM 4500-S F (2000)	444057		
0261550011	SW-C5-DUP-20230429	SM 4500-S F (2000)	444057		
0261550001	SW-C9_20230429	EPA 300.0	444662		
0261550002	SW-C1_20230429	EPA 300.0	444662		
0261550003	SW-STM_20230429	EPA 300.0	444662		
0261550004	SW-C5_20230429	EPA 300.0	444662		
0261550005	SW-EB_20230429	EPA 300.0	444662		
0261550006	SW-NBOUT_20230429	EPA 300.0	444662		
0261550007	SW-NB_20230429	EPA 300.0	444662		
0261550008	SW-HWY27W_20230429	EPA 300.0	444662		
0261550009	SW-HWY27E_20230429	EPA 300.0	444662		
0261550010	CP-04_20230429	EPA 300.0	444662		
0261550011	SW-C5-DUP-20230429	EPA 300.0	444662		
0261550001	SW-C9_20230429	EPA 300.0	444564		
0261550002	SW-C1_20230429	EPA 300.0	444564		
0261550003	SW-STM_20230429	EPA 300.0	444564		
0261550004	SW-C5_20230429	EPA 300.0	444663		
0261550005	SW-EB_20230429	EPA 300.0	444663		
0261550006	SW-NBOUT_20230429	EPA 300.0	444663		
0261550007	SW-NB_20230429	EPA 300.0	444663		
0261550008	SW-HWY27W_20230429	EPA 300.0	444663		
0261550009	SW-HWY27E_20230429	EPA 300.0	444663		
0261550010	CP-04_20230429	EPA 300.0	444663		
0261550011	SW-C5-DUP-20230429	EPA 300.0	444663		
0261550001	SW-C9_20230429	EPA 310.2	444470		
0261550002	SW-C1_20230429	EPA 310.2	444470		
0261550003	SW-STM_20230429	EPA 310.2	444470		
0261550004	SW-C5_20230429	EPA 310.2	444470		
0261550005	SW-EB_20230429	EPA 310.2	444470		
0261550006	SW-NBOUT_20230429	EPA 310.2	444470		
0261550007	SW-NB_20230429	EPA 310.2	444470		
0261550008	SW-HWY27W_20230429	EPA 310.2	444470		
0261550009	SW-HWY27E_20230429	EPA 310.2	444470		
0261550010	CP-04_20230429	EPA 310.2	444470		
0261550011	SW-C5-DUP-20230429	EPA 310.2	444470		
0261550001	SW-C9_20230429	EPA 310.2	444473		
0261550002	SW-C1_20230429	EPA 310.2	444473		
0261550003	SW-STM_20230429	EPA 310.2	444473		
0261550004	SW-C5_20230429	EPA 310.2	444473		
10261550005	SW-EB_20230429	EPA 310.2	444473		

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Date: 05/19/2023 10:02 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40261550006	SW-NBOUT_20230429	EPA 310.2	444473		
40261550007	SW-NB_20230429	EPA 310.2	444474		
40261550008	SW-HWY27W_20230429	EPA 310.2	444474		
40261550009	SW-HWY27E_20230429	EPA 310.2	444474		
40261550010	CP-04_20230429	EPA 310.2	444474		
40261550011	SW-C5-DUP-20230429	EPA 310.2	444474		
40261550001	SW-C9_20230429	SM 5310C	443992		
40261550002	SW-C1_20230429	SM 5310C	443992		
40261550003	SW-STM_20230429	SM 5310C	443992		
40261550004	SW-C5_20230429	SM 5310C	443992		
40261550005	SW-EB_20230429	SM 5310C	443992		
40261550006	SW-NBOUT_20230429	SM 5310C	443993		
40261550007	SW-NB_20230429	SM 5310C	443993		
40261550008	SW-HWY27W_20230429	SM 5310C	443993		
40261550009	SW-HWY27E_20230429	SM 5310C	443993		
40261550010	CP-04_20230429	SM 5310C	443993		
40261550011	SW-C5-DUP-20230429	SM 5310C	443993		

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

COC# FMC-2023_04

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Required St	nip to Lab: Pace Analytical Services	Required Project	t Information:	Co.		Required invoice in	nformation: Accounting							TAT:	Standa	rd 10 d	lay	х		Rus	h]1	Mark One
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Phone/Fax	(608) 232-3300	Project Conta		lardellı		Send EDD to:	Nick Glender						_}		-		Rec	uest	ed A	naly	ses		
Lab PM ema		Phone/Fax:	920-498-6658			CC Hardcopy r	Sharonn						_		F	iltered	(Y/N)		_	-1			
Applicable Li	eb Quote #.	Email:	Mark.Cia	rdelli@	ofoth com	CC electronic copy	report to Sharon				<u>0</u>		ı	1							i		
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Paga: 1 of 3 1 Cooler # 3 of 3



in-of-Custody is a LEGAL DOCUMENT. All relevant haids must be completed and accurate.

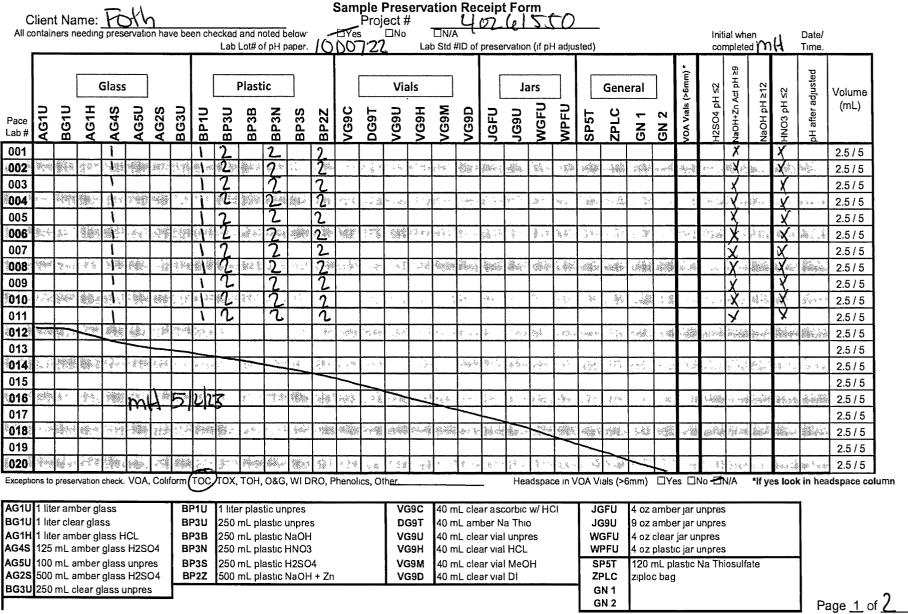
COC # FMC-2023_04

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DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form

Effective Date: 8/16/2022



DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR

Effective Date: 8/17/2022

Sample Condition Upon Receipt Form (SCUR)

Project #:
Client Name: 10th W0#: 40261550
Courier: CS Logistics Fed Ex Speedee UPS Waltco
☐ Client ☐ Pace Other:
Tracking #: 3555908 40261550
Custody Seal on Cooler/Box Present: Tyes no Seals intact: Tyes no
Custody Seal on Samples Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used SR - 120 Type of Ice: (Wet Blue Dry None Meltwater Only Person examining contents:
Cooler Temperature Uncorr. 2/2/3 /Corr. 2/2/3
Temp Blank Present: ☐ yes ☐ no Biological Tissue is Frozen: ☐ yes ☐ no ☐ Date Date Initials: ☐ H
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice. Labeled By Initials:
Chain of Custody Present: Pes No N/A 1.
Chain of Custody Filled Out □N/A 2.
Chain of Custody Relinquished: ☐Yes ☐No ☐N/A 3.
Sampler Name & Signature on COC: ✓ Yes □No □N/A 4.
Samples Arrived within Hold Time. Tyes DNo 5.
- DI VOA Samples frozen upon receipt □Yes □No Date/Time.
Short Hold Time Analysis (<72hr):
Rush Turn Around Time Requested:
Sufficient Volume: 8.
For Analysis: ☑Yes ☐No MS/MSD. ☐Yes ☑No ☐N/A
Correct Containers Used: Yes No 9.
Correct Type. Pace Areen Bay, Pace IR, Non-Pace
Containers Intact: 47es □No 10.
Filtered volume received for Dissolved tests
Sample Labels match COC: MUSTUS Pres D IN/A 12. 0011 - IL PON has ID OF SW_CC_DUR.
-Includes date/time/ID/Analysis Matrix: W m H 5h/tz
Trip Blank Present
Trip Blank Custody Seals Present □Yes □No ☑N/A
Pace Trip Blank Lot # (if purchased):
Client Notification/ Resolution: If checked, see attached form for additional comments
Person Contacted: Comments/Resolution: Fifter pting the total buttle for metals, the buttle tipued and Spilled
half of the summer mit 5his
PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log
Page 2_of2_

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed and accurate.

COC# FMC-2023_04

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CHAIN-OF-CUSTODY / Analytical Request Document

Cooler#

COC#

FMC-2023 04



The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Required Invoice Information: Required Project Information: Mark One Regulred Ship to Lab: TAT: Standard 10 day Rush Accounting Send Invoice to: Flambeau Mine Co. Lab Name: Pace Analytical Services Facility ID #: Address: 2121 Innovation Court P.O Box 5128, De Pere, WI If Rush, Date due FMC-2023_04 Address: Task Code # Special Mark one QC level Required: Standard 920-497-2500 City/State De Pere, WI 54115 Ph#. 1241 Bellevue Street - Suite 9, Green Bey, WI Site Address Lab Project ID (lab use) State 17F777.23-07-73 Lab PM Tod Noltemeyer Green Bay **Requested Analyses** Phone/Fax: (608) 232-3300 Send EDD to: Nick Glander Project Contact: Mark Ciardelli 920-496-6656 CC Hardcopy report to Phone/Fax: Filtered (Y/N) Lab PM email Tod Nollemayer@pacelabs.com Sharon Kozicki, Nick Glander Sharon Kozlcki@foth com CC electronic copy report to Mark, Ciardelli@foth.com Applicable Leb Quote #: Email: nick.glander@foth.com YNN N Preservatives MATRIX MATRIX *MATRIX CODE Ž, Ž SAMPLE TYPE G=GRAB C=COMP ಶ OF CONTAINERS Dissolved Sulfide SAMPLE rotal Alkalinity, SAMPLE Sulfide TIME *SAMPLE ID DATE (Military) Samples IDs MUST BE UNIQUE Comments/ Total Lab Sample I.D. х 1230 3 х х 4/29/2023 SW-C9_20230429 ws G 1430 X x Х 8 3 4/29/2023 ws SW-C1 20230429 G 1030 х х 4/29/2023 WS SW-STM 20230429 G 1530 l x l x х х Х 3 4/29/2023 SW-C5 20230429 WS G 1630 х 8 х 4/29/2023 SW-EB-20230429 ws G 1700 х Х 4/29/2023 8 WS SW-NBOUT 20230429 G 1815 X х 4/29/2023 SW-NB 20230429 WS G 1130 x х Х 4/29/2023 SW-HWY27W 20230429 WS G 1200 х х х 4/29/2023 WS SW-HWY27E 20230429 G 1330 х 4/29/2023 8 CP-04 20230429 WS G 1830 х х 4/29/2023 SW-C5-DUP-20230429 WS G 5:30 Sample Receipt Conditions ACCEPTED BY / AFFILIATION TIME DATE RELINQUISHED BY LAFFILIATION TIME Additional Comments/Special instructions: Y/N 7/1/2 0700 Y/N Y/N Jim Engelhardt/Merient This 1,2,3 (V) N N(Y) YIM) ઇજે(ડે 54/28 Y/N Y/N YIN Y/N Y/N Y/N Blank? SAMPLER NAME AND SIGNATURE SHIPPING METHOD: (mark as appropriate) Sample intact? Samples on Ice? ⊆ UPS COURIER FEDEX Jim Engelhardt emp Trip Include Equis EDD's Time: 0900 US MAIL *Required information for electronic data deliverable.

https://merjent1-my.sharepoint.com/personal/jim_engelhardt_merjent_com/Documents/Desktop/Flambeau Mine Monitoring/COC/2023_FMC_Stream C_COCs_202304292023_FMC_Stream C COCs 20230429COC PACE SW-Stream C

CHAIN-OF-CUSTODY / Analytical Request Document Tha Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Paga: Cooler#

COC#

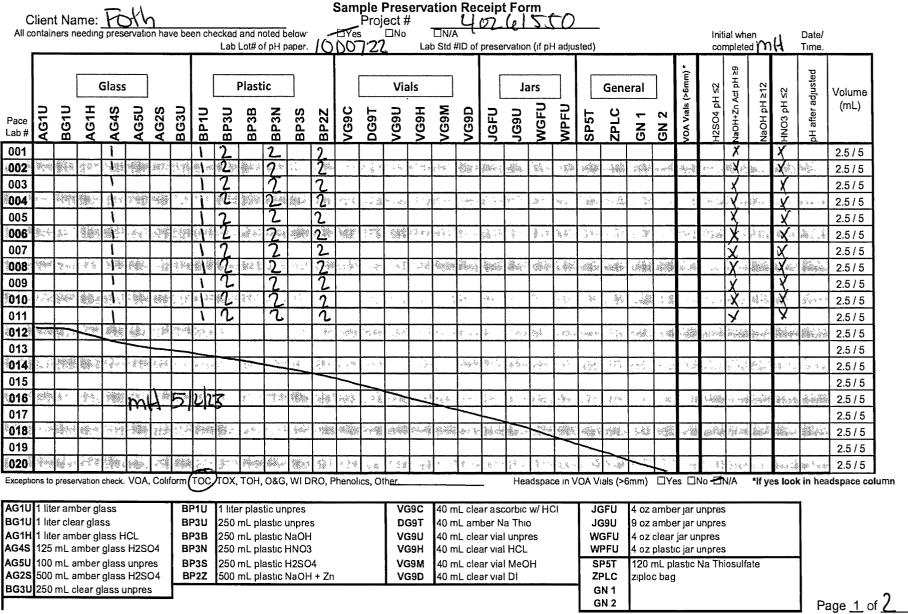
FMC-2023_04

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DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form

Effective Date: 8/16/2022



DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR

Effective Date: 8/17/2022

Sample Condition Upon Receipt Form (SCUR)

				Project #:		
Client Name: 10th					WO#:40	0261550
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speede	e 🗀	UPS,	∃ ₩	altco		12111 1 211
☐ Client ☐ Pace Other:						
Tracking #: 3555908				_	40261550	,
Custody Seal on Cooler/Box Present: Tyes	no	Seals ir	ntact:	yes	L	
Custody Seal on Samples Present:			ntact:	☐ yes ☐ n o		
Packing Material: Bubble Wrap Bubb	_		None	-		NATE OF THE PARTY
Thermometer Used SR - 120		of Ice: (Wet	Blue Dry None	Meltwater 0	Only Person examining contents:
Cooler Temperature Uncorr: 2, 2, 3 /Corr: 2,	2,5	 .				rbla
Temp Blank Present: yes no		Biologi	cal I	ïssue is Frozen:	∐ yes∐ no	Date: Ph3 /Initials: mH
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dr	y Ice.					Labeled By Initials:
Chain of Custody Present:	Yes	□No []n/a	1.		
Chaın of Custody Fılled Out	₽Ÿes	□No [∃n/a	2.		
Chain of Custody Relinquished:	✓Yes]n/a	3.		
Sampler Name & Signature on COC:	₩ Yes	□No []n/a	4.		
Samples Arrived within Hold Time.	Yes	□No		5.		
- DI VOA Samples frozen upon receipt	□Yes	□No		Date/Time.		
Short Hold Time Analysis (<72hr):	Yes	□No		6.		
Rush Turn Around Time Requested:	□Yes	□NO		7.		
Sufficient Volume:				8.		
For Analysis: 🔎 Yes ☐No MS/MSD.	□Yes]n/a			
Correct Containers Used:	Yes	□No		9.		
Correct Type. Pace Green Bay, Pace IR, Non-Pace						
Containers Intact:	₽Yes	□No		10.		
Filtered volume received for Dissolved tests	−∐Yes					
Sample Labels match COC: MISHUS	Yes.]n/a	12.00011-	ILPOH has	ID OF SW_CC_DUR
-Includes date/time/ID/Analysis Matrix:	W					m H shly
Trıp Blank Present [.]	□Yes	□No Æ	⊒N⁄⁄A	13.		
Trip Blank Custody Seals Present	□Yes	□No Æ	∃N/A			
Pace Trip Blank Lot # (if purchased):	— <u> </u>					
Client Notification/ Resolution:		_			checked, see attacl	hed form for additional comments
Person Contacted: Comments/Resolution: After PHING: Walf of the Supple mit 5h.h.s	the	Hotal	bu bu		tals, the but	the tipped and Spilled
						,
PM Review is documented electronically in LIM	s. By re	eleasing	the p	project, the PM a	cknowledges the	ey have reviewed the sample logion

Attachment 6 Flow Inspection Forms



Client:	Flambeau Mining Company	Project No.	17F777.23								
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent								
Date:	March 28, 2023 Time: 1815										
Weather:	38°, Overcast, 5 mph northwest wi	nd, No precipitation									

Stream C flow observed on the evening of March 28, 2023, following an extended period of above freezing temps and obvious Spring breakup. A considerable snowpack still exists over a majority of the area and it is expected with the warming temps that additional flow will be observed over the site. Flow was observed both upstream and downstream of the culvert under Copper Park Lane and also at both the upstream and downstream ends of the culvert under Hwy 27. Water is beginning to accumulate in the East ditch of Hwy 27 along the upstream side of the culvert. Water appears to be working its way through the basins and has created flow enough to melt the snow upstream of the Copper Park Lane culvert. Photographs of site conditions are attached. No other monitoring conducted.



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. March 28, 2023

Direction Photo Taken:North

Photo Taken By: Jim Engelhardt

Description:

Upstream end of culvert under Copper Park Lane.



 Photo No.
 Date: March 28, 2023

Direction Photo Taken:

Southwest

Photo Taken By: Jim Engelhardt

Description:

Downstream (west) end of culvert under Hwy 27.



Photo No. March 28, 2023

Direction Photo Taken:

Southwest

Photo Taken By: Jim Engelhardt

Description:

Stream C downstream of Copper Park Lane.



Photo Date: No. March 4 28, 2023

Direction Photo Taken:

Northeast

Photo Taken By:Jim Engelhardt

Description:

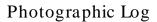
Upstream (east) end culvert under STH 27.





Client:	Flambeau Mining Company	Scope ID	17F777.23
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent
Date:	April 12, 2023	Time:	1800
Weather:	84°, Sunny, 15 mph southwest wind, No precipitation		

Stream C flow observed on the evening of April 12, 2023, following above normal temps and a rapidly melting snowpack. Small amounts of snow remain in areas shaded from the sun. Flow was observed both upstream and downstream of the culvert under Copper Park Lane. The upstream end of the Copper Park Lane culvert was receiving a decent flow of runoff water from the full basins upstream. Stream C downstream of the culvert under Copper Park Lane was near bank full conditions with the increase runoff. Further observation of the water levels in Stream C downstream of the Copper Park Lane culvert to the confluence of the Flambeau River revealed water flowing at a considerable rate along its entire thread. At the confluence, the elevated water level in the Flambeau River is creating a backup of flow into Stream C at the confluence. With the warming weather, the flush of water through the system will create conditions where surface water monitoring will be possible following the first 0.5 inch precipitation event. Photographs of site conditions are attached. No other monitoring conducted.





Client's Name:

Flambeau Mine Company

Site Location:
FMC - Stream C

Project No.
17F777.23

Photo No. April 12, 2023

Direction Photo Taken: Southwest

Photo Taken By: Jim Engelhardt

Description: Downstream view of culvert under Copper Park Lane



Photo No. April 12, 2023

Direction Photo Taken: Northeast

Photo Taken By: Jim Engelhardt

Description: View of waterway between Copper Park Lane and the Flambeau River.



Photo Date:
No. April 12,
2 2023

Direction Photo Taken:
North

Photo Taken By: Jim Engelhardt

Description: Upstream view of culvert under Copper Park Lane



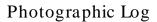
Photo Date:
No. April 12,
4 2023

Direction Photo Taken:
Southeast

Photo Taken By: Jim Engelhardt

Description: View of waterway between Copper Park Lane and the Flambeau River.







Client's Name:

Flambeau Mine Company

Site Location:

FMC - Stream C

Project No.
17F777.23

Photo No. April 12, 2023

Direction Photo Taken: Northeast

Photo Taken By: Jim Engelhardt

Description: View of waterway between Copper Park Lane and the Flambeau River.



Photo No. April 12, 2023

Direction Photo Taken: East

Photo Taken By: Jim Engelhardt

Description: View upstream at the confluence with the Flambeau River.



Photo | Date: April 12, 6 | 2023

Direction Photo Taken: East

Photo Taken By: Jim Engelhardt

Description: View of waterway between Copper Park Lane and the Flambeau River.



Photo Date:
No. April 12,
8 2023

Direction Photo Taken:
Southwest

Photo Taken By: Jim Engelhardt

Description: Confluence at the Flambeau River.





Client:	Flambeau Mining Company	Scope ID	17F777.23
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent
Date:	April 19, 2023	Time:	1100
Weather:	42°, Overcast/Light Rain, 21 mph east wind, 0.53 in. precip. event		

Stream C flow observed on the morning of April 19, 2023, following an extended period of above freezing temps and a 0.53 inch precipitation event. A considerable snowpack still exists over a majority of the area and it is expected with the warming temps that additional flow will continue to be observed over the site. Flow was observed both upstream and downstream of the culvert under Copper Park Lane, within the treatment cells, at the confluence of Stream C and Flambeau and at both the upstream and downstream ends of the culvert under Hwy 27. Water is accumulating rapidly in the East ditch of Hwy 27 along the upstream side of the culvert and providing considerable flow into the treatment cells. Water appears to be working its way rapidly through the treatment cells and has created considerable flow through the Copper Park Lane culvert. Stream C downstream of the Copper Park Lane culvert is flowing well at bank full capacity to the confluence of the Flambeau River. The increased flow resulting from rapid snow melt and runoff in combination with the precipitation event was enough to initiate the first round of surface water monitoring on the site. Photographs of site conditions are attached.



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. April 19, 2023

Direction Photo Taken:

West

Photo Taken By:Jim Engelhardt

Description:Sample Point CP04



 Photo No.
 Date:

 April 19, 2023
 2023

Direction Photo Taken:

East

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C1



 Photo
 Date:

 No.
 April 19,

 2
 2023

Direction Photo Taken:

South

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-NBOUT



 Photo No.
 Date: April 19, 2023

Direction Photo Taken:South

Photo Taken By: Jim Engelhardt

Description:Sample Point SW-C5





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C9



 Photo No.
 Date:

 April 19, 2023

Direction Photo Taken:South

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-HWY27E



 Photo No.
 Date: April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sampling Point
SW-EB



 Photo No.
 Date: April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sampling Point
SW-HWY27W





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

 Photo
 Date:

 No.
 April 19, 2023

Direction Photo Taken:West

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-NB



 Photo
 Date:

 No.
 April 19,

 11
 2023

Direction Photo Taken:

West to East

Video Taken By:Jim Engelhardt

Description:Sample Point SWSTM Flow Video



 Photo
 Date:

 No.
 April 19,

 10
 2023

Direction Photo Taken:

West

Photo Taken By: Jim Engelhardt

Description:Sample Point SW-STM



 Photo
 Date:

 No.
 April 19, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-HWY27E Flow
Video

Hwy 27 Culvert US.mp4



Client:	Flambeau Mining Company	Scope ID	17F777.23
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent
Date:	April 29, 2023	Time:	1530
Weather:	46°, Overcast/Light Rain, 12 mph northwest wind, 0.5 in. precip. Event		

Stream C flow observed on the morning of April 29, 2023, following an extended period of above freezing temps with spring runoff and a 0.5 inch precipitation event. With warmer daytime temps the snowpack on the site is now completely melted and the site is receiving the end of the spring runoff from melting snow. Flow was observed both upstream and downstream of the culvert under Copper Park Lane, within the basins, at the confluence of Stream C and the Flambeau River and at both the upstream and downstream ends of the culvert under Hwy 27. There is still a considerable amount of water ponded in the East ditch of Hwy 27 along the upstream side of the culvert which continues to provide some flow into the basins. Water appears to be working its way slowly through each of the basins and continues to consistently flow through the Copper Park Lane culvert. Stream C downstream of the Copper Park Lane culvert is flowing well just below bank full capacity to the confluence of the Flambeau River. The continual flow resulting from snow melt and runoff in combination with the 0.5 in. precipitation event was enough to initiate the second round of surface water monitoring on the site. Photographs of site conditions are attached.



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. April 29, 2023

Direction Photo Taken:

North

Photo Taken By:Jim Engelhardt

Description:

Flow at upstream end of the Copper Park Lane culvert.



 Photo No.
 Date: April 29, 2023

Direction Photo Taken:

West

Photo Taken By: Jim Engelhardt

Description:Sample Point CP-04.



 Photo No.
 Date: April 29, 2023

Direction Photo Taken:

Northeast

Photo Taken By:Jim Engelhardt

Description:

Flow at downstream end of the Copper Park Lane culvert.



Photo No. April 29, 2023

Direction Photo Taken:

Northeast

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C1.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. April 29, 2023

Direction Photo Taken:South

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-C5.



 Photo No.
 Date: April 29, 2023

Direction Photo Taken:
North

Photo Taken By: Jim Engelhardt

Description:Sample Point SW-HWY27E



 Photo
 Date:

 No.
 April 29,

 6
 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-EB.



Photo Date:
No. April 29,
2023

Direction Photo

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-HWY27W.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

 Photo
 Date:

 No.
 April 29, 2023

Direction Photo Taken:

West

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-NB.



 Photo
 Date:

 No.
 April 29,

 11
 2023

Direction Photo Taken:

West

Photo Taken By: Jim Engelhardt

Description:Sample Point SW-STM.



 Photo
 Date:

 No.
 April 29,

 10
 2023

Direction Photo Taken:

South

Photo Taken By:Jim Engelhardt

Description:Sample Point SW-NBOUT.



Photo No. Date:

Direction Photo Taken:

Description:



Client:	Flambeau Mining Company	Scope ID	17F777.23
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent
Date:	June 12, 2023	Time:	1530
Weather:	70°, Overcast, 7 mph east wind, No precipitation		

Stream C flow observed on the afternoon of June 12, 2023, following a 0.22 inch precipitation event occurring in the morning of the same day. This precipitation event follows an extended period of extremely dry conditions which resulted in little to no flow in Stream C since the previous sampling round on April 29, 2023. Flow was observed both upstream and downstream of the culvert under Copper Park Lane, both the upstream and downstream ends of the culvert under Hwy 27 and at the confluence of the Stream C and the Flambeau River. The surface water that has accumulated on upstream end of the culvert under Hwy 27 is currently not flowing through the culvert. Water is also ponded at the downstream end of the Hwy 27 culvert and doesn't appear to be flowing into the treatment cells. The culvert under Copper Park Lane has a slight trickle of water exiting the downstream end of the culvert and is not enough to initiate a round of surface water sampling. Stream C at the confluence of the Flambeau River is completely dry with no observable flow. Photographs of site conditions are attached. No other monitoring conducted.



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

 Photo No.
 Date:

 1
 2023

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

View upstream near the confluence of the Flambeau River



 Photo
 Date:

 No.
 June 12,

 2023

Direction Photo Taken:

Northeast

Photo Taken By:Jim Engelhardt

View downstream near the confluence of the Flambeau River



Photo No. June 12, 2023

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

Flow downstream of culvert under Copper Park Drive



 Photo No.
 Date:

 4
 2023

Direction Photo Taken:North

Photo Taken By: Jim Engelhardt

Description:

Upstream of culvert under Copper Park Drive





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. June 12, 2023

Direction Photo Taken:North

Photo Taken By:Jim Engelhardt

Description:

Flow upstream end of culvert under Copper Park Drive



 Photo No.
 Date:

 7
 2023

Direction Photo Taken:

Northeast

Photo Taken By: Jim Engelhardt

Description:

View upstream of culvert under Hwy 27



Photo No. 6

Date:June 12,
2023

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

View downstream of culvert under Hwy 27





Client:	Flambeau Mining Company	Scope ID	17F777.23
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent
Date:	June 25, 2023	Time:	0900
Weather:	67°, Overcast, 6 mph southwest wind, 0.33 in. precip event on evening of June 24, 2023		

Stream C flow observed on the morning of June 25, 2023, following a 0.33 inch precipitation event on the evening of June 24, 2023. This precipitation event follows a period of extremely dry conditions which resulted in little to no flow in Stream C since the previous flow observation on June 12, 2023. Flow was observed both upstream and downstream of the culvert under Copper Park Lane and at both the upstream and downstream ends of the culvert under Hwy 27. Conditions within the basin nearest Copper Park Lane was also observed. The surface water that has accumulated on upstream end of the culvert under Hwy 27 is still not enough to create flow to the downstream end of the culvert. Only pockets of standing water are present within the basins and it appears that no water is flowing continuously through this area. The culvert under Copper Park Lane has a slight trickle of water exiting the downstream end of the culvert and is not enough to initiate a round of surface water sampling. Photographs of site conditions are attached. No other monitoring conducted.



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

Date: 6-25-23

Direction Photo Taken:North

Photo Taken By: Jim Engelhardt

Description:

Upstream end of culvert under Copper Park Lane.



Photo No.

3

Date: 6-25-23

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

Downstream (west) end of culvert under Hwy 27.



Photo No.

2

Date: 6-25-23

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

Downstream end of culvert under Copper Park Lane.



Photo No.

Date: 6-25-23

Direction Photo Taken:

Northeast

Photo Taken By: Jim Engelhardt

Description:

Upstream (east) end of culvert under STH 27.





Client:	Flambeau Mining Company	Scope ID	17F777.23
Project:	Stream C – Flow Monitoring	Prepared by:	Jim Engelhardt/Merjent
Date:	July 20, 2023	Time:	0900
Weather:	62°, Overcast, 8 mph northwest wind, 0.38 in. precip event on evening of July 19, 2023		

Stream C flow observed on the morning of July 20, 2023, following a 0.38 inch precipitation event on the evening of July 19, 2023. This precipitation event follows a period of multiple small precipitation events that never completely saturated the ground surface and lead to very little runoff over the site. Flow was observed both upstream and downstream of the culvert under Copper Park Lane and at both the upstream and downstream ends of the culvert under Hwy 27. Conditions within the basin near sampling point SW-NBOUT was also observed. The surface water that has accumulated on the upstream end of the culvert under Hwy 27 is still not enough to create flow to the downstream end of the culvert. The west side ditch along Hwy 27 north of the culvert is heavily vegetated with no standing water. Pockets of standing water are present within the two basins and it appears that no water is flowing continuously through these areas. Once again, the culvert under Copper Park Lane has a slight trickle of water exiting the downstream end of the culvert and is not enough to show any significant flow that can be sampled. Stream C downstream of the Copper Park Lane culvert continues to show no significant flow. Surface water sampling was not conducted due to inadequate flow through the site. Photographs of site conditions are attached.



Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No.

Date: 7-20-23

Direction Photo Taken:

North

Photo Taken By: Jim Engelhardt

Description:

Upstream end of culvert under Copper Park Lane.



Photo No.

3

Date: 7-20-23

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

Downstream (west) end of culvert under Hwy 27.



Photo No.

2

Date: 7-20-23

Direction Photo Taken:

Southwest

Photo Taken By: Jim Engelhardt

Description:

Downstream end of culvert under Copper Park Lane.



Photo No.

Date: 7-20-23

Direction Photo Taken:

Northeast

Photo Taken By:Jim Engelhardt

Description:

Upstream (east) end of culvert under STH 27.





Client's Name:Site Location:Project No.Flambeau Mine CompanyFMC - Stream C17F777.23

Photo No. 5

Date: 7-20-23

Direction Photo Taken:

North

Photo Taken By:Jim Engelhardt

Description:

Ditch along West side of Hwy 27 north of culvert.



Photo No.

Date: 7-20-23

Direction Photo Taken:

Southwest

Photo Taken By:Jim Engelhardt

Description:

Stream C downstream of the Cooper Park Lane culvert.



Photo

No. Date: 7-20-23

Direction Photo Taken:

East

Photo Taken By:Jim Engelhardt

Description:

Upstream end of culvert under Hwy 27.



Photo

No. **Date:** 7-20-23

Direction Photo Taken:

Northeast

Photo Taken By:Jim Engelhardt

Description:

Standing water near sample point SW-NBOUT.

