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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.

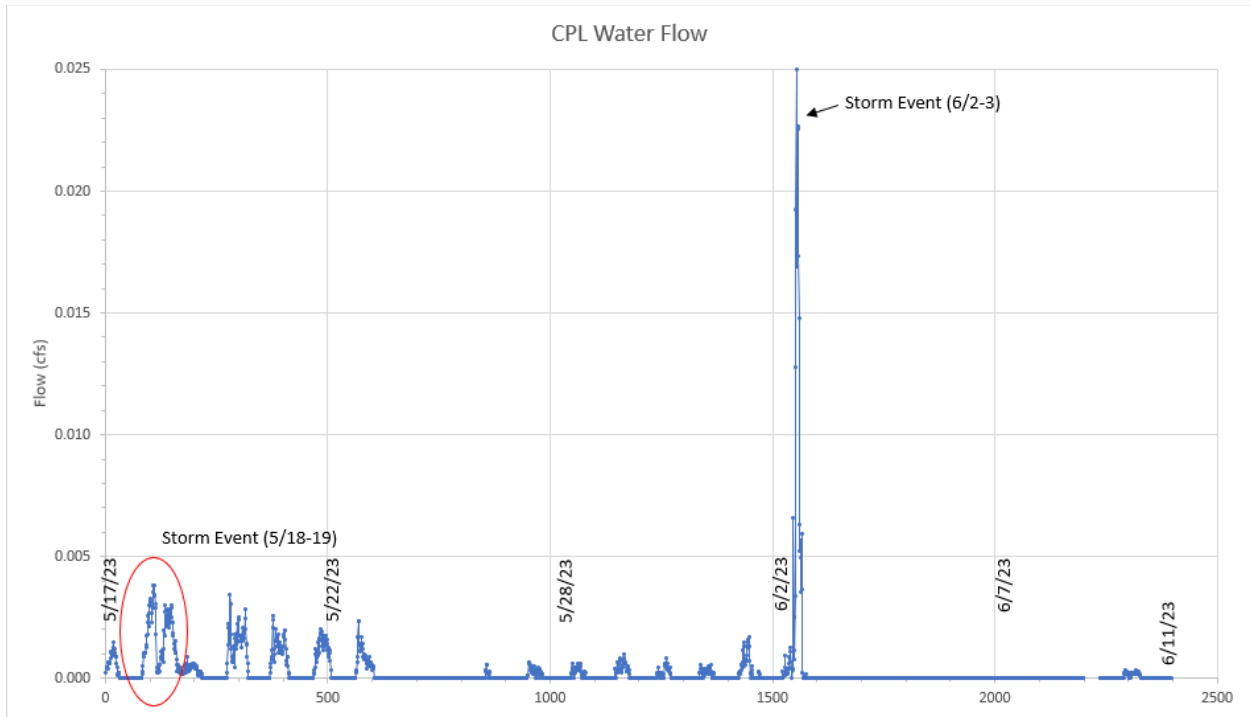
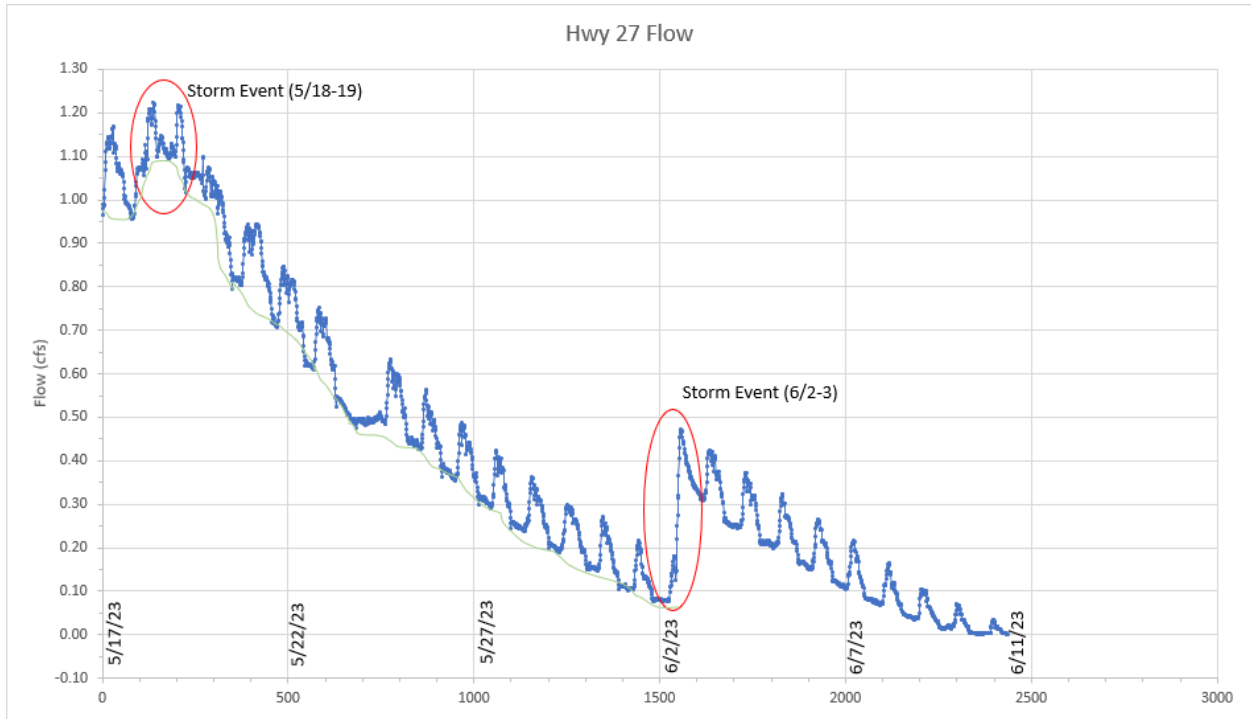
### **3.3 Flow Inspections**

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. *Stream 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





**NOTES:**  
 1. Base imagery from esri.com, courtesy of the Microsoft Corporation and its data suppliers.  
 2. Horizontal datum based on NAD 1983. Horizontal coordinates based on Wisconsin State Plane North (Feet).

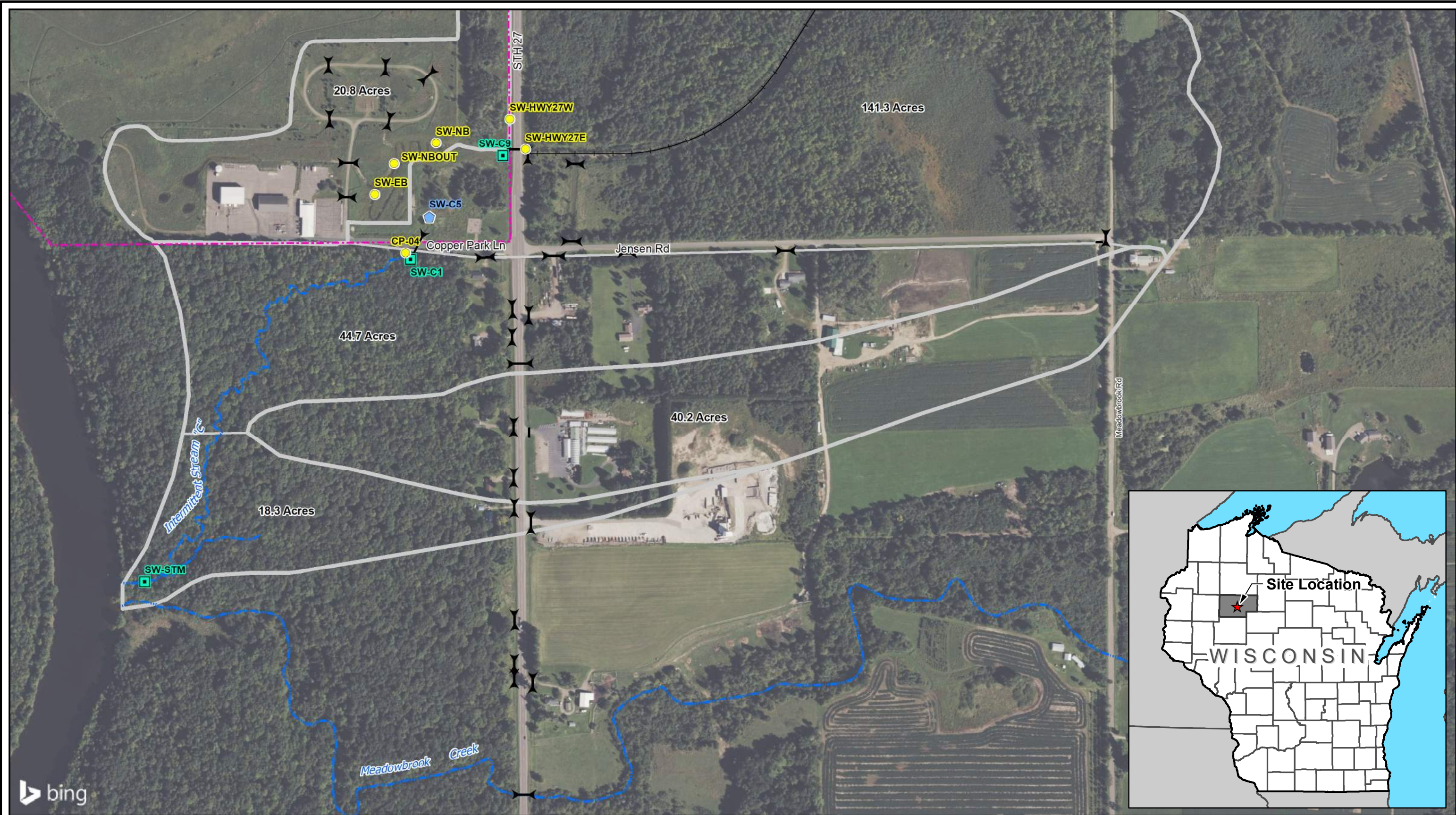
LEGEND	
	Surface Water Sampling Locations
	Groundwater Wells - MONITORED FOR WATER LEVELS ONLY
	Groundwater Wells
	Flambeau River Surface Water Monitoring Location
	Approximate Culvert Location
	Approximate Rail Spur
	Intermittent Stream
	Flambeau Project Area
	Intermittent Stream C Drainage Area

Foth Infrastructure & Environment, LLC			
REVISED	DATE	BY	DESCRIPTION
PREPARED BY:	MCC2	DATE:	MAR.'23
CHECKED BY:	SVF	DATE:	MAR.'23
APPROVED BY:	SVF	DATE:	MAR.'23

FLAMBEAU MINING COMPANY	
<b>FIGURE 1</b>	
SITE LAYOUT MAP STREAM C EVALUATION WORK PLAN	
Scale:	Date: MARCH 2023
Drafted by: DAT	Project No: 17F777.23







**NOTES:**  
 1. Base imagery from esri.com, courtesy of the Microsoft Corporation and its data suppliers.  
 2. Horizontal datum based on NAD 1983. Horizontal coordinates based on Wisconsin State Plane North (Feet).

LEGEND	
Surface Water Sampling Type	
<span style="color: green;">■</span>	Flow, Visual Observation, Water Quality, WET Test
<span style="color: blue;">■</span>	Visual Observation, Water Quality, WET Test
<span style="color: yellow;">●</span>	Visual Observation, Water Quality
	Approximate Culvert Location
	Intermittent Stream
	Flambeau Project Area
	Intermittent Stream C Drainage Area

Foth Infrastructure & Environment, LLC			
REVISED	DATE	BY	DESCRIPTION
PREPARED BY:	MCC2	DATE:	MAR.'23
CHECKED BY:	SVF	DATE:	MAR.'23
APPROVED BY:	SVF	DATE:	MAR.'23

**FLAMBEAU MINING COMPANY**

**FIGURE 2**

STREAM C EVALUATION LOCATIONS  
STREAM C EVALUATION WORK PLAN

Scale:	Date: MARCH 2023
Drafted by: DAT	Project No: 17F777.23





# Table

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

Location		CP-04	CP-04	SW-C1	SW-C1	SW-C5	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
pH	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	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown
Odor	Smell	None	None	None	None	None	None	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	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	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)

Location		SW-HWY27W	SW-NB	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
pH	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	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	Stained Lt. Brown	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:  
 < = 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**



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**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 (collected 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.





Client: Flambeau Mining Co Scope ID.: 17F777.23  
Project: Flambeau Stream C - Spring Event 19-APR-2023  
Prepared by: NMGI Date: 05/24/23  
Checked by: BJW1 Date: 08/30/23

**SUMMARY OF FIELD PARAMETERS**

Location	Sample Date	Sample Time	pH (SU)	Specific Conductance (mS/cm)	Temperature (°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%	Sl. Organic	Slight	Stained lt. Brown
SW-NB	4/19/2023	1630	6.63	267.000	3.17	63.8	84.3%	Sl. 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



Client: Flambeau Mining Co Scope ID: 17F777.23  
Project: Flambeau Stream C - Spring Event 19-APR-2023  
Prepared by: NMGI Date: 05/24/23  
Checked by: BJW1 Date: 08/30/23

**SUMMARY OF FIELD QUALITY CONTROL SAMPLES**

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



Client: Flambeau Mining Co Scope ID.: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific 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





Client: Flambeau Mining Co Scope ID.: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 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**

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific 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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:





Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-EB **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-NBOUT **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific 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

Note:





Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-HWY27W **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-HWY27E **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID.: 17F777.23  
 Project: Flambeau Stream C - Spring Event 19-APR-2023  
 Prepared by: NMG1 Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** CP-04 **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:

**Attachment 2**  
**Photographic Log – April 19, 2023**


**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<b>Photo No.</b> 1	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> West		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sample Point CP-04		

<b>Photo No.</b> 3	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> East		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sample Point SW-C1		

<b>Photo No.</b> 2	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> South		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sample Point SW-NBOUT		

<b>Photo No.</b> 4	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> South		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sample Point SW-C5		




**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<b>Photo No.</b> 5	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sample Point SW-C9		

<b>Photo No.</b> 7	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> South		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sample Point SW-HWY27E		


<b>Photo No.</b> 6	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sampling Point SW-EB		

<b>Photo No.</b> 8	<b>Date:</b> April 19, 2023	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Sampling Point SW-HWY27W		

**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<p><b>Photo No.</b> 9</p>	<p><b>Date:</b> April 19, 2023</p>	
<p><b>Direction Photo Taken:</b> West</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-NB</p>		

<p><b>Photo No.</b> 10</p>	<p><b>Date:</b> April 19, 2023</p>	
<p><b>Direction Photo Taken:</b> West</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-STM</p>		

**Attachment 3**  
**Field Forms – April 29, 2023**



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**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 (collected 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.





Client: Flambeau Mining Co Scope ID.: 17F777.23  
Project: Flambeau Stream C - Spring Event 29-APR-2023  
Prepared by: NMGI Date: 05/24/23  
Checked by: BJW1 Date: 08/30/23

**SUMMARY OF FIELD PARAMETERS**

Location	Sample Date	Sample Time	pH (SU)	Specific Conductance (mS/cm)	Temperature (°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





Client: Flambeau Mining Co Scope ID: 17F777.23  
Project: Flambeau Stream C - Spring Event 29-APR-2023  
Prepared by: NMGI Date: 05/24/23  
Checked by: BJW1 Date: 08/30/23

**SUMMARY OF FIELD QUALITY CONTROL SAMPLES**

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



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific 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



Client: Flambeau Mining Co Scope ID.: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-C1 **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 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

**LABORATORY ANALYTICAL PARAMETERS**

#Collected	Filtered (Y/N)	Bottle	Preservative	Parameter
1	N	Plastic 250 mL	HNO <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific 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

Note:





Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-NBOUT **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: 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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-HWY27W **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific 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

Note:



Client: Flambeau Mining Co Scope ID: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMGI Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** SW-HWY27E **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:





Client: Flambeau Mining Co Scope ID.: 17F777.23  
 Project: Flambeau Stream C - Spring Event 29-APR-2023  
 Prepared by: NMG1 Date: 05/24/23  
 Checked by: BJW1 Date: 08/30/23

**FIELD NOTES**

**Site ID:** CP-04 **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 <sub>3</sub>	TOTAL (Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness)
1	Y	Plastic 250 mL	HNO <sub>3</sub>	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	H <sub>2</sub> SO <sub>4</sub>	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)	Specific Conductance (mS/cm)	Temperature (°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

Note:

**Attachment 4**  
**Photographic Log – April 29, 2023**

**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<p><b>Photo No.</b> 1</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 3</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> South to North</p>			<p><b>Direction Photo Taken:</b> West to East</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> Copper Park Lane Culvert – US 2.</p>			<p><b>Description:</b> CP-04 looking east.</p>		


<p><b>Photo No.</b> 2</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 4</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> North to South</p>			<p><b>Direction Photo Taken:</b> East to West</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> Copper Park Lane Culvert – US 2.</p>			<p><b>Description:</b> CP-04 looking west.</p>		



**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<p><b>Photo No.</b> 5</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 7</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> SW to NE</p>			<p><b>Direction Photo Taken:</b> South to North</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> SW-C1 looking northeast.</p>			<p><b>Description:</b> SW-C5 looking north.</p>		



<p><b>Photo No.</b> 6</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 8</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> NE to SW</p>			<p><b>Direction Photo Taken:</b> North to South</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> SW-C1 looking southwest.</p>			<p><b>Description:</b> SW-C5 looking south.</p>		





**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<p><b>Photo No.</b> 9</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 11</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> South to North</p>			<p><b>Direction Photo Taken:</b> South to North</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> SW-EB looking north.</p>			<p><b>Description:</b> SW-HWY27E looking north.</p>		



<p><b>Photo No.</b> 10</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 12</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> North to South</p>			<p><b>Direction Photo Taken:</b> NW to SE</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> SW-EB looking south.</p>			<p><b>Description:</b> SW-HWY27E looking southeast.</p>		





**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<p><b>Photo No.</b> 13</p>	<p><b>Date:</b> 4/29/23</p>	<p>Sw-</p> 	<p><b>Photo No.</b> 15</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> South to North</p>		<p><b>Direction Photo Taken:</b> West to East</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			
<p><b>Description:</b> SW-HWY27W looking north.</p>		<p><b>Description:</b> SW-NB looking east.</p>			



<p><b>Photo No.</b> 14</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 16</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> North to South</p>		<p><b>Direction Photo Taken:</b> East to West</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			
<p><b>Description:</b> SW-HWY27W looking south.</p>		<p><b>Description:</b> SW-NB looking west.</p>			





**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<p><b>Photo No.</b> 17</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 19</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> SE to NE</p>			<p><b>Direction Photo Taken:</b> West to East</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> SW-NBOUT looking northeast.</p>			<p><b>Description:</b> SW-STM looking east.</p>		

<p><b>Photo No.</b> 18</p>	<p><b>Date:</b> 4/29/23</p>		<p><b>Photo No.</b> 20</p>	<p><b>Date:</b> 4/29/23</p>	
<p><b>Direction Photo Taken:</b> North to South</p>			<p><b>Direction Photo Taken:</b> East to West</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>			<p><b>Photo Taken By:</b> Jim Engelhardt (Merient)</p>		
<p><b>Description:</b> SW-NBOUT looking south.</p>			<p><b>Description:</b> SW-STM looking west.</p>		

**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 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



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## 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

## 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
40261107001	SW-C9_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
40261107002	SW-C1_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
40261107003	SW-STM_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
40261107004	SW-C5_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
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
		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 4500-S F (2000)	HNT	1
		EPA 300.0	HMB	2
40261107008	SW-NB-DUP_20230419	EPA 6020B	KXS	9
		SM 2320B	TMK	1

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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
40261107009	SW-HWY27W_20230419	SM 2540D	SRK	1
		SM 4500-S F (2000)	HNT	1
		EPA 300.0	HMB	2
		EPA 6020B	KXS	9
		SM 2320B	TMK	1
		SM 2540D	SRK	1
		SM 4500-S F (2000)	HNT	1
40261107010	SW-HWY27E_20230419	EPA 300.0	HMB	2
		EPA 6020B	KXS	9
		SM 2320B	TMK	1
		SM 2540D	SRK	1
		SM 4500-S F (2000)	HNT	1
40261107011	CP-04_20230419	EPA 300.0	HMB	2
		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

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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**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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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**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 CaCO<sub>3</sub>

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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**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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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**Method:** SM 4500-S F (2000)

**Description:** 4500S2F Sulfide, Iodometric

**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

### Additional Comments:

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## PROJECT NARRATIVE

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

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**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.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample:** SW-C9\_20230419      **Lab ID:** 40261107001      Collected: 04/19/23 17:15      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical 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	04/24/23 06:42	04/27/23 22:29	7440-23-5	
Total Hardness by 2340B	8.4	mg/L	1.7	0.32	1	04/24/23 06:42	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	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	7.2J	mg/L	10.0	5.0	1		04/30/23 19:30		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	3.3	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 13:53		M0
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	49.2	mg/L	10.0	2.2	5		05/04/23 21:41	16887-00-6	M0
Sulfate	6.4	mg/L	2.0	0.44	1		05/02/23 22:51	14808-79-8	M0

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample:** SW-C1\_20230419      **Lab ID:** 40261107002      Collected: 04/19/23 12:30      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical 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	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	10J	mg/L	10.0	5.0	1		04/30/23 19:49		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	3.8	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:00		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
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	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample: SW-STM\_20230419**      **Lab ID: 40261107003**      Collected: 04/19/23 18:30      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Calcium	<b>3410</b>	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:35	7440-70-2	
Copper	<b>6.0J</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:35	7440-50-8	
Iron	<b>718</b>	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:35	7439-89-6	
Magnesium	<b>1280</b>	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:35	7439-95-4	
Manganese	<b>20.6</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:35	7439-96-5	
Potassium	<b>1110</b>	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:35	7440-09-7	
Sodium	<b>9520</b>	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:35	7440-23-5	
Total Hardness by 2340B	<b>13.8</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:35		
Zinc	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:35	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>10J</b>	mg/L	10.0	5.0	1		04/30/23 19:55		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>9.0</b>	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:01		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	<b>15.6</b>	mg/L	2.0	0.43	1		05/02/23 23:49	16887-00-6	
Sulfate	<b>2.5</b>	mg/L	2.0	0.44	1		05/02/23 23:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample: SW-C5\_20230419**      **Lab ID: 40261107004**      Collected: 04/19/23 13:30      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	<b>2900</b>	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:43	7440-70-2	
Copper	<b>7.6</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:43	7440-50-8	
Iron	<b>972</b>	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:43	7439-89-6	
Magnesium	<b>1220</b>	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:43	7439-95-4	
Manganese	<b>33.9</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:43	7439-96-5	
Potassium	<b>1030</b>	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:43	7440-09-7	
Sodium	<b>8650</b>	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:43	7440-23-5	
Total Hardness by 2340B	<b>12.2</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:43		
Zinc	<b>11.7J</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:43	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>8.6J</b>	mg/L	10.0	5.0	1		04/30/23 20:01		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>10.5</b>	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:02		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<b>12.5</b>	mg/L	2.0	0.43	1		05/03/23 00:03	16887-00-6	
Sulfate	<b>2.2</b>	mg/L	2.0	0.44	1		05/03/23 00:03	14808-79-8	

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## ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

**Sample:** SW-EB\_20230419      **Lab ID:** 40261107005      Collected: 04/19/23 15:00      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	<b>6300</b>	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:13	7440-70-2	
Copper	<b>6.9</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:13	7440-50-8	
Iron	<b>707</b>	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:13	7439-89-6	
Magnesium	<b>2460</b>	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:13	7439-95-4	
Manganese	<b>27.7</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:13	7439-96-5	
Potassium	<b>1730</b>	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:13	7440-09-7	
Sodium	<b>19700</b>	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:13	7440-23-5	
Total Hardness by 2340B	<b>25.8</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:13		
Zinc	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:13	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>17.5</b>	mg/L	10.0	5.0	1		04/30/23 20:06		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>4.3</b>	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:05		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<b>36.1</b>	mg/L	2.0	0.43	1		05/03/23 01:00	16887-00-6	
Sulfate	<b>4.1</b>	mg/L	2.0	0.44	1		05/03/23 01:00	14808-79-8	

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### ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample:** SW-NBOUT\_20230419    **Lab ID:** 40261107006    Collected: 04/19/23 15:45    Received: 04/21/23 09:55    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical 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	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	18.6	mg/L	10.0	5.0	1		04/30/23 20:13		
<b>2540D Total Suspended Solids</b>									
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		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		04/25/23 14:06		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
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	14808-79-8	

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### ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample:** SW-NB\_20230419      **Lab ID:** 40261107007      Collected: 04/19/23 16:30      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Calcium	<b>7000</b>	ug/L	254	76.2	1	04/24/23 06:42	04/27/23 23:57	7440-70-2	
Copper	<b>15.3</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/27/23 23:57	7440-50-8	
Iron	<b>694</b>	ug/L	250	58.0	1	04/24/23 06:42	04/27/23 23:57	7439-89-6	
Magnesium	<b>2430</b>	ug/L	250	31.2	1	04/24/23 06:42	04/27/23 23:57	7439-95-4	
Manganese	<b>36.4</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/27/23 23:57	7439-96-5	
Potassium	<b>1690</b>	ug/L	789	237	1	04/24/23 06:42	04/27/23 23:57	7440-09-7	
Sodium	<b>35700</b>	ug/L	250	42.0	1	04/24/23 06:42	04/27/23 23:57	7440-23-5	
Total Hardness by 2340B	<b>27.5</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/27/23 23:57		
Zinc	<b>23.4J</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/27/23 23:57	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>6.7J</b>	mg/L	10.0	5.0	1		04/30/23 20:30		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>1.9</b>	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:07		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	<b>74.9</b>	mg/L	10.0	2.2	5		05/04/23 22:24	16887-00-6	
Sulfate	<b>4.1</b>	mg/L	2.0	0.44	1		05/03/23 01:29	14808-79-8	

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## ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample:** SW-NB-DUP\_20230419    **Lab ID:** 40261107008    Collected: 04/19/23 16:35    Received: 04/21/23 09:55    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	<b>6790</b>	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:05	7440-70-2	
Copper	<b>7.8</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:05	7440-50-8	
Iron	<b>760</b>	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:05	7439-89-6	
Magnesium	<b>2420</b>	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:05	7439-95-4	
Manganese	<b>38.6</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:05	7439-96-5	
Potassium	<b>1720</b>	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:05	7440-09-7	
Sodium	<b>34200</b>	ug/L	250	42.0	1	04/24/23 06:42	04/28/23 00:05	7440-23-5	
Total Hardness by 2340B	<b>26.9</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/28/23 00:05		
Zinc	<b>25.9J</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:05	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>6.8J</b>	mg/L	10.0	5.0	1		04/30/23 20:35		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>1.5</b>	mg/L	1.0	0.48	1		04/24/23 13:40		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:09		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<b>67.5</b>	mg/L	10.0	2.2	5		05/04/23 23:22	16887-00-6	
Sulfate	<b>3.8</b>	mg/L	2.0	0.44	1		05/03/23 01:44	14808-79-8	

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## ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Project No.: 40261107

**Sample:** SW-HWY27W\_20230419    **Lab ID:** 40261107009    Collected: 04/19/23 17:45    Received: 04/21/23 09:55    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	<b>6890</b>	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:12	7440-70-2	
Copper	<b>6.0J</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:12	7440-50-8	
Iron	<b>431</b>	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:12	7439-89-6	
Magnesium	<b>2180</b>	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:12	7439-95-4	
Manganese	<b>77.3</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:12	7439-96-5	
Potassium	<b>1790</b>	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:12	7440-09-7	
Sodium	<b>49100</b>	ug/L	250	42.0	1	04/24/23 06:42	04/28/23 00:12	7440-23-5	
Total Hardness by 2340B	<b>26.2</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/28/23 00:12		
Zinc	<b>24.8J</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:12	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>5.5J</b>	mg/L	10.0	5.0	1		04/30/23 20:41		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>0.80J</b>	mg/L	1.0	0.48	1		04/24/23 13:41		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:11		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<b>95.6</b>	mg/L	10.0	2.2	5		05/04/23 23:36	16887-00-6	
Sulfate	<b>5.0</b>	mg/L	2.0	0.44	1		05/03/23 01:58	14808-79-8	

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## ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

**Sample:** SW-HWY27E\_20230419    **Lab ID:** 40261107010    Collected: 04/19/23 18:00    Received: 04/21/23 09:55    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	<b>2120</b>	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:19	7440-70-2	
Copper	<b>4.1J</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:19	7440-50-8	
Iron	<b>683</b>	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:19	7439-89-6	
Magnesium	<b>780</b>	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:19	7439-95-4	
Manganese	<b>15.1</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:19	7439-96-5	
Potassium	<b>922</b>	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:19	7440-09-7	
Sodium	<b>4340</b>	ug/L	250	42.0	1	04/24/23 06:42	04/28/23 00:19	7440-23-5	
Total Hardness by 2340B	<b>8.5</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/28/23 00:19		
Zinc	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:19	7440-66-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>5.4J</b>	mg/L	10.0	5.0	1		04/30/23 20:47		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>2.4</b>	mg/L	1.0	0.48	1		04/24/23 13:41		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:12		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<b>5.9</b>	mg/L	2.0	0.43	1		05/03/23 02:12	16887-00-6	
Sulfate	<b>1.6J</b>	mg/L	2.0	0.44	1		05/03/23 02:12	14808-79-8	

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### ANALYTICAL RESULTS

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

**Sample: CP-04\_20230419**      **Lab ID: 40261107011**      Collected: 04/19/23 11:30      Received: 04/21/23 09:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Calcium	<b>5370</b>	ug/L	254	76.2	1	04/24/23 06:42	04/28/23 00:41	7440-70-2	
Copper	<b>19.0</b>	ug/L	6.4	1.9	1	04/24/23 06:42	04/28/23 00:41	7440-50-8	
Iron	<b>577</b>	ug/L	250	58.0	1	04/24/23 06:42	04/28/23 00:41	7439-89-6	
Magnesium	<b>3480</b>	ug/L	250	31.2	1	04/24/23 06:42	04/28/23 00:41	7439-95-4	
Manganese	<b>21.2</b>	ug/L	4.0	1.2	1	04/24/23 06:42	04/28/23 00:41	7439-96-5	
Potassium	<b>1130</b>	ug/L	789	237	1	04/24/23 06:42	04/28/23 00:41	7440-09-7	
Sodium	<b>40900</b>	ug/L	250	42.0	1	04/24/23 06:42	04/28/23 00:41	7440-23-5	
Total Hardness by 2340B	<b>27.7</b>	mg/L	1.7	0.32	1	04/24/23 06:42	04/28/23 00:41		
Zinc	<b>15.2J</b>	ug/L	34.4	10.3	1	04/24/23 06:42	04/28/23 00:41	7440-66-6	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO3	<b>60.0</b>	mg/L	10.0	5.0	1		05/01/23 20:09		
<b>2540D Total Suspended Solids</b>		Analytical Method: SM 2540D Pace Analytical Services - Green Bay							
Total Suspended Solids	<b>2.9</b>	mg/L	1.0	0.48	1		04/24/23 13:41		
<b>4500S2F Sulfide, Iodometric</b>		Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay							
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		04/25/23 14:15		
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride	<b>52.3</b>	mg/L	2.0	0.43	1		05/03/23 02:27	16887-00-6	
Sulfate	<b>5.0</b>	mg/L	2.0	0.44	1		05/03/23 02:27	14808-79-8	

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### QUALITY CONTROL DATA

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

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
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

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% 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 SPIKE DUPLICATE: 2544147 2544148

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40261107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
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	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.0	10.0	04/30/23 19:20	

LABORATORY CONTROL SAMPLE: 2547491

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547492 2547493

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

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<5.0	10.0	05/01/23 19:58	

LABORATORY CONTROL SAMPLE: 2547939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	200	206	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547940 2547941

Parameter	Units	2547940		2547941		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40261249001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	312	200	200	476	460	82	74	80-120	3	20 M0

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### QUALITY CONTROL DATA

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

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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

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METHOD BLANK: 2544352 Matrix: Water

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007, 40261107008, 40261107009, 40261107010, 40261107011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	04/24/23 13:40	

---

LABORATORY CONTROL SAMPLE: 2544353

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

---

SAMPLE DUPLICATE: 2544354

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

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### QUALITY CONTROL DATA

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

QC Batch:	443089	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

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007, 40261107008, 40261107009, 40261107010, 40261107011

METHOD BLANK: 2544320 Matrix: Water

Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007, 40261107008, 40261107009, 40261107010, 40261107011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<1.2	4.0	04/25/23 13:46	

LABORATORY CONTROL SAMPLE: 2544321

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544322 2544323

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40261107001 Result	Spike Conc.	Spike Conc.	Result						
Sulfide	mg/L	<1.2	46.8	46.8	35.2	34.8	75	74	80-120	1	10 M0

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### QUALITY CONTROL DATA

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

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  
Associated Lab Samples: 40261107001, 40261107002, 40261107003, 40261107004, 40261107005, 40261107006, 40261107007, 40261107008, 40261107009, 40261107010, 40261107011

Parameter	Units	Blank Result	Reporting 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	

LABORATORY CONTROL SAMPLE: 2547589

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2547590 2547591

Parameter	Units	40261074001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
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 SPIKE DUPLICATE: 2547592 2547593

Parameter	Units	40261107001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	49.2	100	100	160	160	111	111	90-110	0	15	M0	
Sulfate	mg/L	6.4	20	20	28.6	28.6	111	111	90-110	0	15	M0	

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## QUALIFIERS

Project: FMC-2023-04 FLAMBEAU MINE CO.

Pace Project No.: 40261107

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### 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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261107001	SW-C9_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107002	SW-C1_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107003	SW-STM_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107004	SW-C5_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107005	SW-EB_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107006	SW-NBOUT_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107007	SW-NB_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107008	SW-NB-DUP_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107009	SW-HWY27W_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107010	SW-HWY27E_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107011	CP-04_20230419	EPA 3010A	443052	EPA 6020B	443126
40261107001	SW-C9_20230419	SM 2320B	443610		
40261107002	SW-C1_20230419	SM 2320B	443610		
40261107003	SW-STM_20230419	SM 2320B	443610		
40261107004	SW-C5_20230419	SM 2320B	443610		
40261107005	SW-EB_20230419	SM 2320B	443610		
40261107006	SW-NBOUT_20230419	SM 2320B	443610		
40261107007	SW-NB_20230419	SM 2320B	443610		
40261107008	SW-NB-DUP_20230419	SM 2320B	443610		
40261107009	SW-HWY27W_20230419	SM 2320B	443610		
40261107010	SW-HWY27E_20230419	SM 2320B	443610		
40261107011	CP-04_20230419	SM 2320B	443764		
40261107001	SW-C9_20230419	SM 2540D	443098		
40261107002	SW-C1_20230419	SM 2540D	443098		
40261107003	SW-STM_20230419	SM 2540D	443098		
40261107004	SW-C5_20230419	SM 2540D	443098		
40261107005	SW-EB_20230419	SM 2540D	443098		
40261107006	SW-NBOUT_20230419	SM 2540D	443098		
40261107007	SW-NB_20230419	SM 2540D	443098		
40261107008	SW-NB-DUP_20230419	SM 2540D	443098		
40261107009	SW-HWY27W_20230419	SM 2540D	443098		
40261107010	SW-HWY27E_20230419	SM 2540D	443098		
40261107011	CP-04_20230419	SM 2540D	443098		
40261107001	SW-C9_20230419	SM 4500-S F (2000)	443089		
40261107002	SW-C1_20230419	SM 4500-S F (2000)	443089		
40261107003	SW-STM_20230419	SM 4500-S F (2000)	443089		
40261107004	SW-C5_20230419	SM 4500-S F (2000)	443089		
40261107005	SW-EB_20230419	SM 4500-S F (2000)	443089		
40261107006	SW-NBOUT_20230419	SM 4500-S F (2000)	443089		
40261107007	SW-NB_20230419	SM 4500-S F (2000)	443089		
40261107008	SW-NB-DUP_20230419	SM 4500-S F (2000)	443089		
40261107009	SW-HWY27W_20230419	SM 4500-S F (2000)	443089		
40261107010	SW-HWY27E_20230419	SM 4500-S F (2000)	443089		
40261107011	CP-04_20230419	SM 4500-S F (2000)	443089		
40261107001	SW-C9_20230419	EPA 300.0	443649		
40261107002	SW-C1_20230419	EPA 300.0	443649		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023-04 FLAMBEAU MINE CO.  
Pace Project No.: 40261107

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		

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Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Folk

WO#: **40261107**



40261107

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 1Z023 R31014589 77340

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - 9 Type of Ice: Wet Blue Dry None  Meltwater Only

Cooler Temperature Uncorr: 0.5 / Corr: 1.5

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:  
 Date: 4/2/23 Initials: SG  
 Labeled By Initials: JN

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution:

① 1Z023 R31014589 9705 ② 0.0/1.0  
1Z023 R3101 1266 2433 1.0/2.0

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



### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTR Log-in Number Here

40261107

ALL SHADED AREAS are for LAB USE ONLY

Company: **FOTH**  
 Address: **SAME AS BILLING**  
 Report To: **SHAWN.KOSICKI@FOTH.COM**  
 Copy To:

Billing Information:  
**ACCOUNTING**  
**2121 INNOVATION COURT**  
**DEPORE, WI. 54115**  
 Email To: **SHAWN.KOSICKI@FOTH.COM**  
 Site Collection Info/Address:

Customer Project Name/Number:

State: **WI** County/City: **RUSK** Time Zone Collected: [ ] PT [ ] MT [ ] ET

Phone: **920-497-2500**  
 Email:

Site/Facility ID #: **FUMBERW MINE CO / FMC-2023-04**

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): **JIM ENGELHARDT**

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature): *[Signature]*

Turnaround Date Required:

Immediately Packed on ice: [X] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [X] Yes [ ] No  
 Analysis: **DOC**

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SW-09_20230419	OT	600	4/19/23	9:15	1715		8	
SW-C1_20230419				12:30				
SW-STM_20230419				6:30	1830			
SW-CS_20230419				1:30	1330			
SW-EB_20230419				3:00	1500			
SW-NBOUT_20230419				2:45	1545			
SW-NB_20230419				4:30	1630			
SW-NB-DUP_20230419				4:35	1635			
SW-HWY27W_20230419				5:45	1745			
SW-HWY27E_20230419				6:00	1800			

Container Preservative Type \*\*  
 U U U U Z 419415

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfonic acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

TOTAL METALS + HARDNESS	DISSOLVED METALS + HARDNESS	TOTAL ALK/CL/SULFATE	DISSOLVED ALK/CL/SULFATE	TOTAL SUSPENDED SOLIDS	DISSOLVED ORGANIC CARBON	TOTAL SULFIDE	DISSOLVED SULFIDE
-------------------------	-----------------------------	----------------------	--------------------------	------------------------	--------------------------	---------------	-------------------

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:  
 Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:  
 Revised 4/24/2023 @ 1200  
 By Nick Glander (Foth)

Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: **①**  
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: **2830240**  
 Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
 Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
 Comments:

Relinquished by/Company: (Signature) *[Signature]* MORGENTHAU  
 Date/Time: **4-20-23 10:00AM**  
 Relinquished by/Company: (Signature) **UPS**  
 Date/Time: **4/21/23 09:55**

Received by/Company: (Signature) *[Signature]*  
 Date/Time: **4/21/23 09:55**  
 Received by/Company: (Signature) *[Signature]*  
 Date/Time: **4/21/23 09:55**

Received by/Company: (Signature) *[Signature]*  
 Date/Time: **4/21/23 09:55**  
 Received by/Company: (Signature) *[Signature]*  
 Date/Time: **4/21/23 09:55**

MTR LAB USE ONLY  
 Table #: **①**  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PR: \_\_\_\_\_  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO  
 Page: \_\_\_\_\_  
 of: \_\_\_\_\_







Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Folk

WO#: 40261107



Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waitco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 12023 R31014589 77340

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - 9 Type of Ice: Wet  Blue Dry  None  Meltwater Only

Cooler Temperature Uncorr: 0.5 / Corr: 1.5 (2)

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 4/21/23 Initials: SG

Labeled By Initials: JN

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution:

① 12023 R3101 4589 9705 ② 0.0/1.0  
12023 R3101 1256 2433 1.0/2.0

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

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 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



## REPORT OF LABORATORY ANALYSIS

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## 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

---

## REPORT OF LABORATORY ANALYSIS

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## 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

## 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
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
40261550003	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
40261550004	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
40261550005	SW-EB_20230429	EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
		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
		EPA 6020B	KXS	9
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
		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		
40261550007	SW-NB_20230429	EPA 300.0	HMB	2
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1
		SM 5310C	TJJ	1
		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
40261550008	SW-HWY27W_20230429	SM 5310C	TJJ	1
		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

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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
4026155009	SW-HWY27E_20230429	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
		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		
4026155010	CP-04_20230429	SM 5310C	TJJ	1
		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
		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		
4026155011	SW-C5-DUP-20230429	SM 5310C	TJJ	1
		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

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
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PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## 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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## 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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## 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

## REPORT OF LABORATORY ANALYSIS

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## 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

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023\_04 FLAMBEAU MINE CO.

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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

---

**Method:** SM 4500-S F (2000)

**Description:** 4500S2F Sulfide,Diss 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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## 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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023\_04 FLAMBEAU MINE CO.

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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

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**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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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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 CaCO<sub>3</sub>, Dissolved

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## 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.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample:** SW-C9\_20230429      **Lab ID:** 40261550001      Collected: 04/29/23 12:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Calcium	2520	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 13:45	7440-70-2	
Copper	5.0J	ug/L	6.4	1.9	1	05/03/23 06:07	05/16/23 03:07	7440-50-8	
Iron	741	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 03:07	7439-89-6	
Magnesium	983	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 03:07	7439-95-4	
Manganese	24.9	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 03:07	7439-96-5	
Potassium	770J	ug/L	789	237	1	05/03/23 06:07	05/16/23 03:07	7440-09-7	
Sodium	7010	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 03:07	7440-23-5	
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	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical 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	
Iron, 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
Total 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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	6.4	mg/L	1.0	0.48	1		05/03/23 14:04		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:24		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:02		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical 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	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
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	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample: SW-C9\_20230429**      **Lab ID: 40261550001**      Collected: 04/29/23 12:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub>	<7.4	mg/L	25.0	7.4	1		05/10/23 10:52		
<b>310.2 Alkalinity, Dissolved</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 12:08		
<b>5310C Dissolved Organic Carbon</b>									
Analytical Method: SM 5310C Pace Analytical Services - Green Bay									
Dissolved Organic Carbon	8.7	mg/L	0.50	0.14	1		05/04/23 12:02		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

Sample: SW-C1\_20230429 Lab ID: 40261550002 Collected: 04/29/23 14:30 Received: 05/02/23 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical 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	05/16/23 03:36	7440-50-8	
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	05/03/23 06:07	05/16/23 03:36	7439-95-4	
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	05/16/23 03:36	7440-23-5	
Total Hardness by 2340B	27.4	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 03:36		
Zinc	<10.3	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 03:36	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
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	05/03/23 06:33	05/16/23 06:40	7439-95-4	
Manganese, Dissolved	14.5	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 06:40	7439-96-5	
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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	0.93J	mg/L	1.0	0.49	1		05/03/23 14:04		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:34		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:08		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
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	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
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	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample: SW-C1\_20230429**      **Lab ID: 40261550002**      Collected: 04/29/23 14:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<b>17.3J</b>	mg/L	25.0	7.4	1		05/10/23 10:53		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>15.6J</b>	mg/L	25.0	7.4	1		05/10/23 12:09		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	<b>7.8</b>	mg/L	0.50	0.14	1		05/04/23 12:19		

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

**Sample:** SW-STM\_20230429      **Lab ID:** 40261550003      Collected: 04/29/23 10:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	<b>7440</b>	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 14:29	7440-70-2	
Copper	<b>6.2J</b>	ug/L	6.4	1.9	1	05/03/23 06:07	05/16/23 03:51	7440-50-8	
Iron	<b>371</b>	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 03:51	7439-89-6	
Magnesium	<b>3150</b>	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 03:51	7439-95-4	
Manganese	<b>16.5</b>	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 03:51	7439-96-5	
Potassium	<b>1180</b>	ug/L	789	237	1	05/03/23 06:07	05/16/23 03:51	7440-09-7	
Sodium	<b>17900</b>	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 03:51	7440-23-5	
Total Hardness by 2340B	<b>31.5</b>	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 03:51		
Zinc	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 03:51	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium, Dissolved	<b>7110</b>	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:03	7440-70-2	
Copper, Dissolved	<b>4.9J</b>	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 06:55	7440-50-8	
Iron, Dissolved	<b>130J</b>	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 06:55	7439-89-6	
Magnesium, Dissolved	<b>3050</b>	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 06:55	7439-95-4	
Manganese, Dissolved	<b>10.3</b>	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 06:55	7439-96-5	
Potassium, Dissolved	<b>1070</b>	ug/L	789	237	1	05/03/23 06:33	05/16/23 06:55	7440-09-7	
Sodium, Dissolved	<b>17700</b>	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 06:55	7440-23-5	
Total Hardness by 2340B, Dissolved	<b>30.3</b>	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 06:55		
Zinc, Dissolved	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 06:55	7440-66-6	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>2.1</b>	mg/L	1.1	0.50	1		05/03/23 14:04		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		05/04/23 10:35		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		05/04/23 14:11		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<b>31.1</b>	mg/L	2.0	0.43	1		05/15/23 22:10	16887-00-6	
Sulfate	<b>3.6</b>	mg/L	2.0	0.44	1		05/15/23 22:10	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	<b>31.6</b>	mg/L	2.0	0.43	1		05/16/23 05:28	16887-00-6	D9
Sulfate, Dissolved	<b>3.8</b>	mg/L	2.0	0.44	1		05/16/23 05:28	14808-79-8	D9

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample: SW-STM\_20230429**      **Lab ID: 40261550003**      Collected: 04/29/23 10:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<b>16.8J</b>	mg/L	25.0	7.4	1		05/10/23 10:57		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>18.9J</b>	mg/L	25.0	7.4	1		05/10/23 12:10		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	<b>8.7</b>	mg/L	0.50	0.14	1		05/04/23 12:34		

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
 Pace Project No.: 40261550

**Sample: SW-C5\_20230429**      **Lab ID: 40261550004**      Collected: 04/29/23 15:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Calcium	<b>4650</b>	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 14:36	7440-70-2	
Copper	<b>6.7</b>	ug/L	6.4	1.9	1	05/03/23 06:07	05/16/23 03:58	7440-50-8	
Iron	<b>265</b>	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 03:58	7439-89-6	
Magnesium	<b>1970</b>	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 03:58	7439-95-4	
Manganese	<b>7.5</b>	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 03:58	7439-96-5	
Potassium	<b>976</b>	ug/L	789	237	1	05/03/23 06:07	05/16/23 03:58	7440-09-7	
Sodium	<b>13600</b>	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 03:58	7440-23-5	
Total Hardness by 2340B	<b>19.7</b>	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 03:58		
Zinc	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 03:58	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Calcium, Dissolved	<b>4760</b>	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:11	7440-70-2	D9
Copper, Dissolved	<b>6.4</b>	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 07:31	7440-50-8	
Iron, Dissolved	<b>126J</b>	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 07:31	7439-89-6	
Magnesium, Dissolved	<b>2080</b>	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 07:31	7439-95-4	D9
Manganese, Dissolved	<b>5.0</b>	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 07:31	7439-96-5	
Potassium, Dissolved	<b>1020</b>	ug/L	789	237	1	05/03/23 06:33	05/16/23 07:31	7440-09-7	D9
Sodium, Dissolved	<b>14900</b>	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 07:31	7440-23-5	D9
Total Hardness by 2340B, Dissolved	<b>20.4</b>	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 07:31		
Zinc, Dissolved	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 07:31	7440-66-6	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>0.51J</b>	mg/L	1.0	0.48	1		05/03/23 14:04		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		05/04/23 10:37		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<b>&lt;1.2</b>	mg/L	4.0	1.2	1		05/04/23 14:12		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	<b>20.8</b>	mg/L	2.0	0.43	1		05/15/23 22:24	16887-00-6	
Sulfate	<b>3.1</b>	mg/L	2.0	0.44	1		05/15/23 22:24	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride, Dissolved	<b>24.2</b>	mg/L	2.0	0.43	1		05/15/23 16:05	16887-00-6	D9
Sulfate, Dissolved	<b>3.2</b>	mg/L	2.0	0.44	1		05/15/23 16:05	14808-79-8	D9

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

**Sample: SW-C5\_20230429**      **Lab ID: 40261550004**      Collected: 04/29/23 15:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<b>11.1J</b>	mg/L	25.0	7.4	1		05/10/23 10:58		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>14.9J</b>	mg/L	25.0	7.4	1		05/10/23 12:11		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	<b>7.6</b>	mg/L	0.50	0.14	1		05/04/23 12:49		

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## ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

**Sample:** SW-EB\_20230429      **Lab ID:** 40261550005      Collected: 04/29/23 16:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 04:05	7440-50-8	
Iron	480	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 04:05	7439-89-6	
Magnesium	4740	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 04:05	7439-95-4	
Manganese	24.1	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 04:05	7439-96-5	
Potassium	1560	ug/L	789	237	1	05/03/23 06:07	05/16/23 04:05	7440-09-7	
Sodium	37000	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 04:05	7440-23-5	
Total Hardness by 2340B	47.6	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 04:05		
Zinc	<10.3	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 04:05	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium, Dissolved	10800	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 17:18	7440-70-2	
Copper, Dissolved	4.9J	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 07:39	7440-50-8	
Iron, Dissolved	93.6J	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 07:39	7439-89-6	
Magnesium, Dissolved	4810	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 07:39	7439-95-4	D9
Manganese, Dissolved	17.8	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 07:39	7439-96-5	
Potassium, Dissolved	1470	ug/L	789	237	1	05/03/23 06:33	05/16/23 07:39	7440-09-7	
Sodium, Dissolved	37600	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 07:39	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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	2.8	mg/L	1.0	0.49	1		05/03/23 14:04		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:39		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:14		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	68.0	mg/L	10.0	2.2	5		05/16/23 14:58	16887-00-6	D9
Sulfate, Dissolved	6.9	mg/L	2.0	0.44	1		05/15/23 16:44	14808-79-8	D9

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample: SW-EB\_20230429**      **Lab ID: 40261550005**      Collected: 04/29/23 16:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<b>36.0</b>	mg/L	25.0	7.4	1		05/10/23 10:59		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>35.5</b>	mg/L	25.0	7.4	1		05/10/23 12:12		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	<b>7.2</b>	mg/L	0.50	0.14	1		05/04/23 13:05		

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## ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

Sample: SW-NBOUT\_20230429 Lab ID: 40261550006 Collected: 04/29/23 17:00 Received: 05/02/23 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 04:42	7440-50-8	
Iron	370	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 04:42	7439-89-6	
Magnesium	4360	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 04:42	7439-95-4	
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	05/03/23 06:07	05/16/23 04:42	7440-23-5	
Total Hardness by 2340B	42.8	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 04:42		
Zinc	<10.3	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 04:42	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 07:46	7439-89-6	
Magnesium, Dissolved	3990	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 07:46	7439-95-4	
Manganese, Dissolved	13.1	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 07:46	7439-96-5	
Potassium, Dissolved	1240	ug/L	789	237	1	05/03/23 06:33	05/16/23 07:46	7440-09-7	
Sodium, Dissolved	24400	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 07:46	7440-23-5	
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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	0.82J	mg/L	1.0	0.49	1		05/03/23 14:04		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:40		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:15		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	53.9	mg/L	2.0	0.43	1		05/16/23 15:10	16887-00-6	D9
Sulfate, Dissolved	3.2	mg/L	2.0	0.44	1		05/16/23 15:10	14808-79-8	D9

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

**Sample: SW-NBOUT\_20230429**      **Lab ID: 40261550006**      Collected: 04/29/23 17:00      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub>	<b>20.7J</b>	mg/L	25.0	7.4	1		05/10/23 11:00		
<b>310.2 Alkalinity, Dissolved</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>21.0J</b>	mg/L	25.0	7.4	1		05/10/23 13:11		
<b>5310C Dissolved Organic Carbon</b>									
Analytical Method: SM 5310C Pace Analytical Services - Green Bay									
Dissolved Organic Carbon	<b>9.2</b>	mg/L	0.50	0.14	1		05/04/23 13:52		

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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: 04/29/23 18:15      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 04:50	7440-50-8	
Iron	392	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 04:50	7439-89-6	
Magnesium	3550	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 04:50	7439-95-4	
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	05/16/23 04:50	7440-09-7	
Sodium	35500	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 04:50	7440-23-5	
Total Hardness by 2340B	36.6	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 04:50		
Zinc	18.2J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 04:50	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 07:54	7440-50-8	
Iron, Dissolved	169J	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 07:54	7439-89-6	
Magnesium, Dissolved	3490	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 07:54	7439-95-4	
Manganese, Dissolved	26.0	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 07:54	7439-96-5	
Potassium, Dissolved	1390	ug/L	789	237	1	05/03/23 06:33	05/16/23 07:54	7440-09-7	
Sodium, Dissolved	36000	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 07:54	7440-23-5	D9
Total Hardness by 2340B, Dissolved	35.0	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 07:54		
Zinc, Dissolved	19.0J	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 07:54	7440-66-6	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<0.49	mg/L	1.0	0.49	1		05/03/23 14:04		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:42		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:16		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical 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	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride, Dissolved	86.0	mg/L	10.0	2.2	5		05/17/23 17:13	16887-00-6	D9
Sulfate, Dissolved	2.5	mg/L	2.0	0.44	1		05/16/23 15:23	14808-79-8	D9

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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: 04/29/23 18:15      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<7.4	mg/L	25.0	7.4	1		05/10/23 11:01		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 13:16		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	10.0	mg/L	0.50	0.14	1		05/04/23 15:04		

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## 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    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium	10200	ug/L	254	76.2	1	05/03/23 06:07	05/16/23 15:35	7440-70-2	
Copper	4.2J	ug/L	6.4	1.9	1	05/03/23 06:07	05/16/23 04:57	7440-50-8	
Iron	528	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 04:57	7439-89-6	
Magnesium	3660	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 04:57	7439-95-4	
Manganese	63.1	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 04:57	7439-96-5	
Potassium	1760	ug/L	789	237	1	05/03/23 06:07	05/16/23 04:57	7440-09-7	
Sodium	59000	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 04:57	7440-23-5	
Total Hardness by 2340B	40.5	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 04:57		
Zinc	30.3J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 04:57	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Calcium, Dissolved	10200	ug/L	254	76.2	1	05/03/23 06:33	05/16/23 18:10	7440-70-2	
Copper, Dissolved	3.6J	ug/L	6.4	1.9	1	05/03/23 06:33	05/16/23 08:01	7440-50-8	
Iron, Dissolved	284	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 08:01	7439-89-6	
Magnesium, Dissolved	3640	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 08:01	7439-95-4	
Manganese, Dissolved	57.0	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 08:01	7439-96-5	
Potassium, Dissolved	1640	ug/L	789	237	1	05/03/23 06:33	05/16/23 08:01	7440-09-7	
Sodium, Dissolved	58400	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 08:01	7440-23-5	
Total 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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	3.3	mg/L	1.0	0.48	1		05/03/23 14:05		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:43		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:17		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	121	mg/L	10.0	2.2	5		05/16/23 13:32	16887-00-6	
Sulfate	3.2	mg/L	2.0	0.44	1		05/15/23 23:46	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical 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	

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### 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    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub>	<7.4	mg/L	25.0	7.4	1		05/10/23 11:02		
<b>310.2 Alkalinity, Dissolved</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 13:19		
<b>5310C Dissolved Organic Carbon</b>									
Analytical Method: SM 5310C Pace Analytical Services - Green Bay									
Dissolved Organic Carbon	10.8	mg/L	0.50	0.14	1		05/04/23 15:22		

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## ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

Sample: SW-HWY27E\_20230429 Lab ID: 40261550009 Collected: 04/29/23 12:00 Received: 05/02/23 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical 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	05/16/23 05:04	7440-50-8	
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	05/03/23 06:07	05/16/23 05:04	7439-95-4	
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	05/16/23 05:04	7440-09-7	
Sodium	3680	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 05:04	7440-23-5	
Total Hardness by 2340B	9.1	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 05:04		
Zinc	25.5J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 05:04	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 08:08	7439-96-5	
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	05/16/23 08:08	7440-23-5	
Total Hardness by 2340B, Dissolved	7.9	mg/L	1.7	0.32	1	05/03/23 06:33	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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	1.4	mg/L	1.0	0.49	1		05/03/23 14:05		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:46		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:19		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	14808-79-8	

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample: SW-HWY27E\_20230429**      **Lab ID: 40261550009**      Collected: 04/29/23 12:00      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub>	<7.4	mg/L	25.0	7.4	1		05/10/23 11:03		
<b>310.2 Alkalinity, Dissolved</b>									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<7.4	mg/L	25.0	7.4	1		05/10/23 13:20		
<b>5310C Dissolved Organic Carbon</b>									
Analytical Method: SM 5310C Pace Analytical Services - Green Bay									
Dissolved Organic Carbon	8.3	mg/L	0.50	0.14	1		05/04/23 15:39		

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## ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Sample Project No.: 40261550

**Sample:** CP-04\_20230429      **Lab ID:** 40261550010      Collected: 04/29/23 13:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/03/23 06:07	05/16/23 05:12	7439-95-4	
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	05/16/23 05:12	7440-09-7	
Sodium	101000	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 05:12	7440-23-5	
Total Hardness by 2340B	60.5	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 05:12		
Zinc	10.4J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 05:12	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	
Iron, 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	05/03/23 06:33	05/16/23 09:15	7439-95-4	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	05/16/23 09:15	7440-09-7	
Sodium, Dissolved	104000	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 09:15	7440-23-5	D9
Total Hardness by 2340B, Dissolved	58.9	mg/L	1.7	0.32	1	05/03/23 06:33	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	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	5.2	mg/L	1.0	0.48	1		05/03/23 14:05		
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:47		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:22		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	14808-79-8	

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

**Sample: CP-04\_20230429**      **Lab ID: 40261550010**      Collected: 04/29/23 13:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<b>39.5</b>	mg/L	25.0	7.4	1		05/10/23 11:04		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>34.5</b>	mg/L	25.0	7.4	1		05/10/23 13:24		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	<b>9.4</b>	mg/L	0.50	0.14	1		05/04/23 15:58		

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## ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

Sample: SW-C5-DUP-20230429 Lab ID: 40261550011 Collected: 04/29/23 15:30 Received: 05/02/23 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 05:19	7440-50-8	
Iron	268	ug/L	250	58.0	1	05/03/23 06:07	05/16/23 05:19	7439-89-6	
Magnesium	1940	ug/L	250	31.2	1	05/03/23 06:07	05/16/23 05:19	7439-95-4	
Manganese	7.2	ug/L	4.0	1.2	1	05/03/23 06:07	05/16/23 05:19	7439-96-5	
Potassium	1000	ug/L	789	237	1	05/03/23 06:07	05/16/23 05:19	7440-09-7	
Sodium	13600	ug/L	250	42.0	1	05/03/23 06:07	05/16/23 05:19	7440-23-5	
Total Hardness by 2340B	19.9	mg/L	1.7	0.32	1	05/03/23 06:07	05/16/23 05:19		
Zinc	16.3J	ug/L	34.4	10.3	1	05/03/23 06:07	05/16/23 05:19	7440-66-6	
<b>6020B MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
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	05/16/23 09:22	7440-50-8	
Iron, Dissolved	153J	ug/L	250	58.0	1	05/03/23 06:33	05/16/23 09:22	7439-89-6	
Magnesium, Dissolved	2000	ug/L	250	31.2	1	05/03/23 06:33	05/16/23 09:22	7439-95-4	D9
Manganese, Dissolved	4.9	ug/L	4.0	1.2	1	05/03/23 06:33	05/16/23 09:22	7439-96-5	
Potassium, Dissolved	955	ug/L	789	237	1	05/03/23 06:33	05/16/23 09:22	7440-09-7	
Sodium, Dissolved	14000	ug/L	250	42.0	1	05/03/23 06:33	05/16/23 09:22	7440-23-5	D9
Total Hardness by 2340B, Dissolved	19.3	mg/L	1.7	0.32	1	05/03/23 06:33	05/16/23 09:22		
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	05/03/23 06:33	05/16/23 09:22	7440-66-6	
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	1.3	mg/L	1.0	0.49	1		05/03/23 14:05		PP,T3
<b>4500S2F Sulfide, Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide	<1.2	mg/L	4.0	1.2	1		05/04/23 10:49		
<b>4500S2F Sulfide, Diss Iodometric</b>									
Analytical Method: SM 4500-S F (2000)									
Pace Analytical Services - Green Bay									
Sulfide, Dissolved	<1.2	mg/L	4.0	1.2	1		05/04/23 14:24		
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	14808-79-8	
<b>300.0 IC Anions, Dissolved</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
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	0.44	1		05/16/23 16:15	14808-79-8	D9

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### ANALYTICAL RESULTS

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

**Sample: SW-C5-DUP-20230429**      **Lab ID: 40261550011**      Collected: 04/29/23 15:30      Received: 05/02/23 08:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub>	<b>12.9J</b>	mg/L	25.0	7.4	1		05/10/23 11:05		
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>12.1J</b>	mg/L	25.0	7.4	1		05/10/23 13:25		
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	<b>8.2</b>	mg/L	0.50	0.14	1		05/04/23 16:16		

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

Parameter	Units	Blank Result	Reporting 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

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% 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 SPIKE DUPLICATE: 2548486 2548487

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40261550001 Result	Spike Conc.	Spike Conc.	MS Result						
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

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

Parameter	Units	Blank Result	Reporting 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

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% 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 SPIKE DUPLICATE: 2548497 2548498

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40261550001 Result	Spike Conc.	Spike Conc.	MS Result						
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

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

Parameter	Units	2548497		2548498		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40261550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Total Hardness by 2340B, Dissolved	mg/L	9.8			80.9	78.6					3	20	
Zinc, Dissolved	ug/L	<10.3	250	250	260	256	100	98	75-125		2	20	

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

QC Batch:	443914	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
		Laboratory:	Pace Analytical Services - Green Bay

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	05/03/23 14:03	

LABORATORY CONTROL SAMPLE: 2548628

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

SAMPLE DUPLICATE: 2548629

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

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007, 40261550008, 40261550009, 40261550010, 40261550011

METHOD BLANK: 2549348 Matrix: Water  
Associated Lab Samples: 40261550001, 40261550002, 40261550003, 40261550004, 40261550005, 40261550006, 40261550007, 40261550008, 40261550009, 40261550010, 40261550011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<1.2	4.0	05/04/23 13:57	

LABORATORY CONTROL SAMPLE: 2549349

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549350 2549351

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

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

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

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<1.2	4.0	05/04/23 10:17	

LABORATORY CONTROL SAMPLE: 2549097

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549098 2549099

Parameter	Units	40261550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<1.2	45.2	45.2	47.6	47.2	105	104	80-120	1	10	

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

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

LABORATORY CONTROL SAMPLE: 2552123

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552124 2552125

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

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### QUALITY CONTROL DATA

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	Analysis Description:	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

Parameter	Units	Blank Result	Reporting 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

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552650 2552651

Parameter	Units	40261550004		2552650		2552651		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result						
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 SPIKE DUPLICATE: 2552652 2552653

Parameter	Units	40261746012		2552652		2552653		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result						
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		

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552644 2552645

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Chloride	mg/L	17.3	20	20	20	37.4	37.7	100	102	90-110	1	15	
Sulfate	mg/L	14.2	20	20	20	34.6	34.9	102	104	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2552646 2552647

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Chloride	mg/L	11.0	20	20	20	31.1	31.3	101	102	90-110	1	15	
Sulfate	mg/L	1.3J	20	20	20	22.6	22.4	107	106	90-110	1	15	

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	05/10/23 10:37	

LABORATORY CONTROL SAMPLE: 2551354

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551355 2551356

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551357 2551358

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

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### QUALITY CONTROL DATA

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<7.4	25.0	05/10/23 11:44	

LABORATORY CONTROL SAMPLE: 2551370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	98.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551371 2551372

Parameter	Units	40261504001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	639	200	200	820	818	90	89	90-110	0	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551373 2551374

Parameter	Units	40261550006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	21.0J	100	100	127	125	106	104	90-110	2	20	

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### QUALITY CONTROL DATA

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<7.4	25.0	05/10/23 13:14	

LABORATORY CONTROL SAMPLE: 2551376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551377 2551378

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2551379 2551380

Parameter	Units	40261698029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	376	200	200	581	584	102	104	90-110	1	20	

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### QUALITY CONTROL DATA

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.14	0.50	05/04/23 05:58	

LABORATORY CONTROL SAMPLE: 2549038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	12.5	12.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549039 2549040

Parameter	Units	40261479001		40261479002		40261479003		40261479004		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Dissolved Organic Carbon	mg/L	2.7	6	2.7	6	8.5	6	8.5	6	98	97	80-120	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549042 2549043

Parameter	Units	40261479002		40261479003		40261479004		40261479005		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Dissolved Organic Carbon	mg/L	1.7	6	1.7	6	7.6	6	7.6	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.

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

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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

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METHOD BLANK: 2549044 Matrix: Water

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

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	0.16J	0.50	05/04/23 13:20	

---

LABORATORY CONTROL SAMPLE: 2549045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	12.5	12.0	96	80-120	

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549046 2549047

Parameter	Units	40261550006		40261550007		40261550008		40261550009		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Dissolved Organic Carbon	mg/L	9.2	6	6	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.

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## QUALIFIERS

Project: FMC-2023\_04 FLAMBEAU MINE CO.

Pace Project No.: 40261550

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### 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

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.

## 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

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261550001	SW-C9_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550002	SW-C1_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550003	SW-STM_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550004	SW-C5_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550005	SW-EB_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550006	SW-NBOUT_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550007	SW-NB_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550008	SW-HWY27W_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550009	SW-HWY27E_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550010	CP-04_20230429	EPA 3010A	443878	EPA 6020B	443961
40261550011	SW-C5-DUP-20230429	EPA 3010A	443878	EPA 6020B	443961
40261550001	SW-C9_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550002	SW-C1_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550003	SW-STM_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550004	SW-C5_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550005	SW-EB_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550006	SW-NBOUT_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550007	SW-NB_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550008	SW-HWY27W_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550009	SW-HWY27E_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550010	CP-04_20230429	EPA 3010A	443881	EPA 6020B	443962
40261550011	SW-C5-DUP-20230429	EPA 3010A	443881	EPA 6020B	443962
40261550001	SW-C9_20230429	SM 2540D	443914		
40261550002	SW-C1_20230429	SM 2540D	443914		
40261550003	SW-STM_20230429	SM 2540D	443914		
40261550004	SW-C5_20230429	SM 2540D	443914		
40261550005	SW-EB_20230429	SM 2540D	443914		
40261550006	SW-NBOUT_20230429	SM 2540D	443914		
40261550007	SW-NB_20230429	SM 2540D	443914		
40261550008	SW-HWY27W_20230429	SM 2540D	443914		
40261550009	SW-HWY27E_20230429	SM 2540D	443914		
40261550010	CP-04_20230429	SM 2540D	443914		
40261550011	SW-C5-DUP-20230429	SM 2540D	443914		
40261550001	SW-C9_20230429	SM 4500-S F (2000)	444010		
40261550002	SW-C1_20230429	SM 4500-S F (2000)	444010		
40261550003	SW-STM_20230429	SM 4500-S F (2000)	444010		
40261550004	SW-C5_20230429	SM 4500-S F (2000)	444010		
40261550005	SW-EB_20230429	SM 4500-S F (2000)	444010		
40261550006	SW-NBOUT_20230429	SM 4500-S F (2000)	444010		
40261550007	SW-NB_20230429	SM 4500-S F (2000)	444010		
40261550008	SW-HWY27W_20230429	SM 4500-S F (2000)	444010		
40261550009	SW-HWY27E_20230429	SM 4500-S F (2000)	444010		
40261550010	CP-04_20230429	SM 4500-S F (2000)	444010		
40261550011	SW-C5-DUP-20230429	SM 4500-S F (2000)	444010		
40261550001	SW-C9_20230429	SM 4500-S F (2000)	444057		
40261550002	SW-C1_20230429	SM 4500-S F (2000)	444057		
40261550003	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

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261550004	SW-C5_20230429	SM 4500-S F (2000)	444057		
40261550005	SW-EB_20230429	SM 4500-S F (2000)	444057		
40261550006	SW-NBOUT_20230429	SM 4500-S F (2000)	444057		
40261550007	SW-NB_20230429	SM 4500-S F (2000)	444057		
40261550008	SW-HWY27W_20230429	SM 4500-S F (2000)	444057		
40261550009	SW-HWY27E_20230429	SM 4500-S F (2000)	444057		
40261550010	CP-04_20230429	SM 4500-S F (2000)	444057		
40261550011	SW-C5-DUP-20230429	SM 4500-S F (2000)	444057		
40261550001	SW-C9_20230429	EPA 300.0	444662		
40261550002	SW-C1_20230429	EPA 300.0	444662		
40261550003	SW-STM_20230429	EPA 300.0	444662		
40261550004	SW-C5_20230429	EPA 300.0	444662		
40261550005	SW-EB_20230429	EPA 300.0	444662		
40261550006	SW-NBOUT_20230429	EPA 300.0	444662		
40261550007	SW-NB_20230429	EPA 300.0	444662		
40261550008	SW-HWY27W_20230429	EPA 300.0	444662		
40261550009	SW-HWY27E_20230429	EPA 300.0	444662		
40261550010	CP-04_20230429	EPA 300.0	444662		
40261550011	SW-C5-DUP-20230429	EPA 300.0	444662		
40261550001	SW-C9_20230429	EPA 300.0	444564		
40261550002	SW-C1_20230429	EPA 300.0	444564		
40261550003	SW-STM_20230429	EPA 300.0	444564		
40261550004	SW-C5_20230429	EPA 300.0	444663		
40261550005	SW-EB_20230429	EPA 300.0	444663		
40261550006	SW-NBOUT_20230429	EPA 300.0	444663		
40261550007	SW-NB_20230429	EPA 300.0	444663		
40261550008	SW-HWY27W_20230429	EPA 300.0	444663		
40261550009	SW-HWY27E_20230429	EPA 300.0	444663		
40261550010	CP-04_20230429	EPA 300.0	444663		
40261550011	SW-C5-DUP-20230429	EPA 300.0	444663		
40261550001	SW-C9_20230429	EPA 310.2	444470		
40261550002	SW-C1_20230429	EPA 310.2	444470		
40261550003	SW-STM_20230429	EPA 310.2	444470		
40261550004	SW-C5_20230429	EPA 310.2	444470		
40261550005	SW-EB_20230429	EPA 310.2	444470		
40261550006	SW-NBOUT_20230429	EPA 310.2	444470		
40261550007	SW-NB_20230429	EPA 310.2	444470		
40261550008	SW-HWY27W_20230429	EPA 310.2	444470		
40261550009	SW-HWY27E_20230429	EPA 310.2	444470		
40261550010	CP-04_20230429	EPA 310.2	444470		
40261550011	SW-C5-DUP-20230429	EPA 310.2	444470		
40261550001	SW-C9_20230429	EPA 310.2	444473		
40261550002	SW-C1_20230429	EPA 310.2	444473		
40261550003	SW-STM_20230429	EPA 310.2	444473		
40261550004	SW-C5_20230429	EPA 310.2	444473		
40261550005	SW-EB_20230429	EPA 310.2	444473		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FMC-2023\_04 FLAMBEAU MINE CO.  
Pace Project No.: 40261550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical 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		

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# CHAIN-OF-CUSTODY / Analytical Request Document

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40261550  
 Page: 1 of 3  
 Cooler # 1 of 3  
 COC # FMC-2023\_04

<b>Required Ship to Lab:</b>		<b>Required Project Information:</b>			<b>Required Invoice Information:</b>			TAT: Standard 10 day <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Mark One	
Lab Name: Pace Analytical Services		*Facility ID #: Flambeau Mine Co.			Send Invoice to: Accounting		Address: 2121 Innovation Court P.O. Box 5126, Oe Pere, WI		If Rush, Date due		
Address: 1241 Bellevue Street - Suite 9, Green Bay, WI		*Task Code #: FMC-2023_04			City/State: Oe Pere, WI 54115		Ph #: 920-497-2500		QC level Required: Standard <input checked="" type="checkbox"/> Special <input type="checkbox"/>		Mark one
Lab PM: Tod Noltemeyer		City: Green Bay State: WI			17F777.23-07-73			Lab Project ID (lab use)			
Phone/Fax: (608) 232-3300		Project Contact: Mark Ciardelli			Send EDD to: Nick Glander			Requested Analyses			
Lab PM email: Tod.Noltemeyer@pacelabs.com		Phone/Fax: 920-496-6656			CC Hardcopy report to: Sharon Kozicki, Nick Glander			Filtered (Y/N)			
Applicable Lab Quote #:		Email: Mark.Ciardelli@foth.com			CC electronic copy report to: Sharon Kozicki@foth.com, nick.glander@foth.com						

ITEM #	*SAMPLE ID Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WP SURFACE WATER WS GROUND WATER WG WATER OC WO WASTE WATER WW BLOOD SL FREE PRODUCT LF RINGFITE RW SOIL BO LAB LEACHATE LL OIL OL SPL LL WIRE AW LAB LEACHATE LT AMBIENT AIR AA SVE AIR AE SOIL GAS GB	*MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME (Military)	# OF CONTAINERS	Preservatives										Total Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness	Dissolved Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness	Total Alkalinity, Cl, Sulfate	Dissolved Alkalinity, Cl, Sulfate	DOC	TSS	Total Sulfide	Dissolved Sulfide	Comments/ Lab Sample I.D.
								Unpreserved	H2SO4	HNO3	HCl	NaOH	H2S2O3	Methanol	Zinc Acetate & NaOH											
								N	Y	N	Y	Y	N	N	Y											
1	SW-C9_20230429		WS	G	4/29/2023	1230	8	3	1	2						2	X	X	X	X	X	X	X	X	001	
2	SW-C1_20230429		WS	G	4/29/2023	1430	8	3	1	2						2	X	X	X	X	X	X	X	X	002	
3	SW-STM_20230429		WS	G	4/29/2023	1030	8	3	1	2						2	X	X	X	X	X	X	X	X	003	
4	SW-C5_20230429		WS	G	4/29/2023	1530	8	3	1	2						2	X	X	X	X	X	X	X	X	004	
5	SW-EB-20230429		WS	G	4/29/2023	1630	8	3	1	2						2	X	X	X	X	X	X	X	X	005	
6	SW-NBOUT_20230429		WS	G	4/29/2023	1700	8	3	1	2						2	X	X	X	X	X	X	X	X	006	
7	SW-NB_20230429		WS	G	4/29/2023	1815	8	3	1	2						2	X	X	X	X	X	X	X	X	007	
8	SW-HWY27W_20230429		WS	G	4/29/2023	1130	8	3	1	2						2	X	X	X	X	X	X	X	X	008	
9	SW-HWY27E_20230429		WS	G	4/29/2023	1200	8	3	1	2						2	X	X	X	X	X	X	X	X	009	
10	CP-04_20230429		WS	G	4/29/2023	1330	8	3	1	2						2	X	X	X	X	X	X	X	X	010	
11	SW-C5-DUP-20230429		WS	G	4/29/2023	1830	8	3	1	2						2	X	X	X	X	X	X	X	X	011	

Additional Comments/Special Instructions:	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	Sample Receipt Conditions						
	Jim Engelhardt/Merjent		5/14/23	0900					Y/N	Y/N	Y/N				
	WALCO		5/24/23	0820	MAM		5/24/23	0820	223	(Y/N)	(Y/N)	(Y/N)			
									Y/N	Y/N	Y/N				
Include Equis EDD's *Required information for electronic data deliverable.	SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE									Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
	UPS COURIER FEDEX		Jim Engelhardt												
	US MAIL		SIGNATURE OF SAMPLER			DATE Signed			Time						

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**  
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40261550

Page: 2 1 of 3 1  
 Cooler #

COC # FMC-2023\_04

<b>Required Ship to Lab:</b> Lab Name: Pace Analytical Services		<b>Required Project Information:</b> *Facility ID #: Flambeau Mine Co.		<b>Required Invoice Information:</b> Send Invoice to: Accounting		TAT: Standard 10 day <input checked="" type="checkbox"/>	Rush <input type="checkbox"/>	Mark One <input type="checkbox"/>
Address: 1241 Bellevue Street - Suite 9, Green Bay, WI		*Task Code # FMC-2023_04		Address: 2121 Innovation Court P.O. Box 5128, De Pere, WI		If Rush, Date due		
Lab PM: Tod Nollermeier		City: Green Bay State: WI		City/State: De Pere, WI 54115 Ph #: 920-497-2500		QC level Required: Standard <input checked="" type="checkbox"/> Special <input type="checkbox"/> Mark one <input type="checkbox"/>		
Phone/Fax: (608) 232-3300		Project Contact: Mark Ciardelli		Send EDD to: Nick Glander		<b>Requested Analyses</b>		
Lab PM email: Tod.Nollermeier@paceanalytical.com		Phone/Fax: 920-498-6656		CC Hardcopy report to: Sharon Kozicki, Nick Glander		Filtered (Y/N)		
Applicable Lab Quote #:		Email: Mark.Ciardelli@foth.com		CC electronic copy report to: Sharon.Kozicki@foth.com, nick.glander@foth.com		N Y N Y Y N N Y		

ITEM #	*SAMPLE ID Samples IDs MUST BE UNIQUE	*MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME (Military)	# OF CONTAINERS	Preservatives											Comments/ Lab Sample I.D.							
							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Zinc Acetate & NaOH	Total Ca, Cu, Fe, Mg, Min, K, Na, Zn, Hardness	Dissolved Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness	Total Alkalinity, Cl, Sulfate		Dissolved Alkalinity, Cl, Sulfate	DOC	TSS	Total Sulfide	Dissolved Sulfide		
1	SW-C9_20230429	WS	G	4/29/2023	1230	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
2	SW-C1_20230429	WS	G	4/29/2023	1430	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
3	SW-STM_20230429	WS	G	4/29/2023	1030	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
4	SW-C5_20230429	WS	G	4/29/2023	1530	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
5	SW-EB-20230429	WS	G	4/29/2023	1630	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
6	SW-NBOUT_20230429	WS	G	4/29/2023	1700	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
7	SW-NB_20230429	WS	G	4/29/2023	1815	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
8	SW-HWY27W_20230429	WS	G	4/29/2023	1130	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
9	SW-HWY27E_20230429	WS	G	4/29/2023	1200	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
10	CP-04_20230429	WS	G	4/29/2023	1330	8	3	1	2						2	X	X	X	X	X	X	X	X	X	
11	SW-C5-DUP-20230429	WS	G	4/29/2023	1830	8	3	1	2						2	X	X	X	X	X	X	X	X	X	

Additional Comments/Special Instructions:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions			
	Jim Engelhardt/Merjent	7/15	0900				Y/N	Y/N	Y/N	
	Walter	5/1/25	0800	mpaw	5/1/25	0800	2-3	(Y)N	(Y)N	Y/N
								Y/N	Y/N	Y/N
Include Equis EDD's	SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE			Temp in °C	Samples on ice?	Sample intact?	Trip Blank?	
	UPS COURIER FEDEX	Jim Engelhardt								
*Required information for electronic data deliverable.	US MAIL	SIGNATURE OF SAMPLER	DATE Signed	Time						
			5-1-23	0900						

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





**Sample Condition Upon Receipt Form (SCUR)**

Project #: \_\_\_\_\_

Client Name: Foth

WO#: **40261550**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  ~~Waltco~~  
 Client  Pace Other: \_\_\_\_\_



Tracking #: 3555908

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  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

Cooler Temperature Uncorr: 2, 2, 3 / Corr: 2, 2, 3

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 5/2/23 /Initials: mH  
 Labeled By Initials: \_\_\_\_\_

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type. <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <u>mH shhs</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>011-1L poly has ID of SW-CC-DUR</u> <u>mH shhs</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: After pitting the total bottle for metals, the bottle tipped and spilled half of the sample mH shhs

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





# CHAIN-OF-CUSTODY / Analytical Request Document

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

40261550

Page: 2 of 3  
Cooler # 2 of 3

COC # FMC-2023\_04

<b>Required Ship to Lab:</b> Lab Name: Pace Analytical Services		<b>Required Project Information:</b> *Facility ID #: Flambeau Mine Co.		<b>Required Invoice Information:</b> Send Invoice to: Accounting		TAT: Standard 10 day <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Mark One <input type="checkbox"/>
Address: 1241 Bellevue Street - Suite 9, Green Bay, WI		*Task Code #: FMC-2023_04		Address: 2121 Innovation Court P.O. Box 5128, De Pere, WI		If Rush, Date due
Lab PM: Tod Nolltemeyer		City: Green Bay State: WI		City/State: De Pere, WI 54115 Ph #: 920-497-2500		QC level Required: Standard <input checked="" type="checkbox"/> Special <input type="checkbox"/> Mark one <input type="checkbox"/>
Phone/Fax: (608) 232-3300		Project Contact: Mark Ciardelli		Send EDD to: Nick Glander		<b>Requested Analyses</b>
Lab PM email: Tod.Nolltemeyer@paceabs.com		Phone/Fax: 920-498-6656		CC Hardcopy report to: Sharon Kozicki, Nick Glander		
Applicable Lab Quote #:		Email: Mark.Ciardelli@foth.com		CC electronic copy report to: Sharon.Kozicki@foth.com nick.glander@foth.com		

ITEM #	*SAMPLE ID Samples IDs MUST BE UNIQUE	*MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME (Military)	# OF CONTAINERS	Preservatives										Total Ca, Cu, Fe, Mg, Min, K, Na, Zn, Hardness	Dissolved Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness	Total Alkalinity, Cl, Sulfate	Dissolved Alkalinity, Cl, Sulfate	DOC	TSS	Total Sulfide	Dissolved Sulfide	Comments/ Lab Sample I.D.
							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Zinc Acetate & NaOH	N	Y									
1	SW-C9_20230429	WS	G	4/29/2023	1230	8	3	1	2						2	X	X	X	X	X	X	X			
2	SW-C1_20230429	WS	G	4/29/2023	1430	8	3	1	2						2	X	X	X	X	X	X	X			
3	SW-STM_20230429	WS	G	4/29/2023	1030	8	3	1	2						2	X	X	X	X	X	X	X			
4	SW-C5_20230429	WS	G	4/29/2023	1530	8	3	1	2						2	X	X	X	X	X	X	X			
5	SW-EB-20230429	WS	G	4/29/2023	1630	8	3	1	2						2	X	X	X	X	X	X	X			
6	SW-NBOUT_20230429	WS	G	4/29/2023	1700	8	3	1	2						2	X	X	X	X	X	X	X			
7	SW-NB_20230429	WS	G	4/29/2023	1815	8	3	1	2						2	X	X	X	X	X	X	X			
8	SW-HWY27W_20230429	WS	G	4/29/2023	1130	8	3	1	2						2	X	X	X	X	X	X	X			
9	SW-HWY27E_20230429	WS	G	4/29/2023	1200	8	3	1	2						2	X	X	X	X	X	X	X			
10	CP-04_20230429	WS	G	4/29/2023	1330	8	3	1	2						2	X	X	X	X	X	X	X			
11	SW-C5-DUP-20230429	WS	G	4/29/2023	1830	8	3	1	2						2	X	X	X	X	X	X	X			

Additional Comments/Special Instructions:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions			
	Jim Engelhardt/Merjent	7/15	0900				Y/N	Y/N	Y/N	
	Walter	5/1/25	0800	mpaw	5/1/25	0800	2-3	(Y)N	(Y)N	Y/N
								Y/N	Y/N	Y/N
Include Equis EDD's	SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE							
	UPS COURIER FEDEX	Jim Engelhardt	SIGNATURE OF SAMPLER		DATE Signed	Time	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
*Required information for electronic data deliverable.	US MAIL				5-1-23	0900				

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





COPY

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

Page: 1 of 1  
 Cooler # 3 of 3  
 COC # FMC-2023\_04

<b>Required Ship to Lab:</b> Lab Name: Pace Analytical Services		<b>Required Project Information:</b> *Facility ID #: Flambeau Mine Co.		<b>Required Invoice Information:</b> Send Invoice to: Accounting		TAT: Standard 10 day <input checked="" type="checkbox"/>	Rush <input type="checkbox"/>	Mark One <input type="checkbox"/>
Address: 1241 Bellevue Street - Suite 9, Green Bay, WI		*Task Code #: FMC-2023_04		Address: 2121 Innovation Court P.O. Box 5128, De Pere, WI.		If Rush, Date due		
Site Address: --		City: Green Bay State: WI		City/State: De Pere, WI 54115 Ph #: 920-497-2500		QC level Required: Standard <input checked="" type="checkbox"/> Special <input type="checkbox"/> Mark one <input type="checkbox"/>		
Lab PM: Tod Nollemeier		Project Contact: Mark Ciardelli		Send EDD to: Nick Glander		<b>Lab Project ID (lab use)</b>		
Phone/Fax: (608) 232-3300		Project Contact: Mark Ciardelli		Send EDD to: Nick Glander		<b>Requested Analyses</b>		
Lab PM email: Tod.Nollemeier@paceclabs.com		Phone/Fax: 920-498-6656		CC Hardcopy report to: Sharon Kozicki, Nick Glander		<b>Filtered (Y/N)</b>		
Applicable Lab Quote #:		Email: Mark.Ciardelli@foth.com		CC electronic copy report to: Sharon.Kozicki@foth.com nick.glander@foth.com		N Y N Y Y N N Y		

ITEM #	*SAMPLE ID Samples IDs MUST BE UNIQUE	*MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME (Military)	# OF CONTAINERS	Preservatives										Total Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness	Dissolved Ca, Cu, Fe, Mg, Mn, K, Na, Zn, Hardness	Total Alkalinity, Cl, Sulfate	Dissolved Alkalinity, Cl, Sulfate	DOC	TSS	Total Sulfide	Dissolved Sulfide	Comments/ Lab Sample I.D.
							Unpreserved	H2SO4	HNO3	HCl	NaOH	H2SO3	Merbaniol	Zinc Acetate & NaOH											
1	SW-C9_20230429	WS	G	4/29/2023	1230	8	3	1	2							2	X	X	X	X	X	X	X		
2	SW-C1_20230429	WS	G	4/29/2023	1430	8	3	1	2							2	X	X	X	X	X	X	X		
3	SW-STM_20230429	WS	G	4/29/2023	1030	8	3	1	2							2	X	X	X	X	X	X	X		
4	SW-C5_20230429	WS	G	4/29/2023	1530	8	3	1	2							2	X	X	X	X	X	X	X		
5	SW-EB-20230429	WS	G	4/29/2023	1630	8	3	1	2							2	X	X	X	X	X	X	X		
6	SW-NBOUT_20230429	WS	G	4/29/2023	1700	8	3	1	2							2	X	X	X	X	X	X	X		
7	SW-NB_20230429	WS	G	4/29/2023	1815	8	3	1	2							2	X	X	X	X	X	X	X		
8	SW-HWY27W_20230429	WS	G	4/29/2023	1130	8	3	1	2							2	X	X	X	X	X	X	X		
9	SW-HWY27E_20230429	WS	G	4/29/2023	1200	8	3	1	2							2	X	X	X	X	X	X	X		
10	CP-04_20230429	WS	G	4/29/2023	1330	8	3	1	2							2	X	X	X	X	X	X	X		
11	SW-C5-DUP-20230429	WS	G	4/29/2023	1830	8	3	1	2							2	X	X	X	X	X	X	X		
					15:30	MCC																			

Additional Comments/Special Instructions:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions			
	Jim Engelhardt/Merjent	7/12	0900				Y/N	Y/N	Y/N	
	Walter	5/12	0810	mpw	5/12	0810	23	(Y)N	(Y)N	(Y)N
								Y/N	Y/N	Y/N
Include Equis EDD's	SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE			Temp in °C	Samples on ice?	Sample intact?	Trip Blank?	
	UPS COURIER FEDEX	Jim Engelhardt								
*Required information for electronic data deliverable.	US MAIL	SIGNATURE OF SAMPLER	DATE SIGNED	TIME						
			5-1-23	0900						

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





Sample Condition Upon Receipt Form (SCUR)

Project #: \_\_\_\_\_

Client Name: Foth

WO#: **40261550**



40261550

Courier:  CS Logistics  Fed Ex  Speedee  UPS  ~~Waltco~~  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 3555908

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  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

Cooler Temperature Uncorr: 2, 2, 3 / Corr: 2, 2, 3

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:

Date: 5/2/23 /Initials: mt

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type. <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <u>mt shhs</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>011-1L poly has ID of SW-CC-DUR</u> <u>mt shhs</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/ Resolution: After pitting the total bottle for metals, the bottle tipped and spilled half of the sample mt shhs

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

**Attachment 6**  
**Flow Inspection Forms**



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

**Inspection Notes**

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.

**\*END OF NOTES\***

**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23

<b>Photo No.</b> 1	<b>Date:</b> March 28, 2023	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Upstream end of culvert under Copper Park Lane.		

<b>Photo No.</b> 3	<b>Date:</b> March 28, 2023	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Downstream (west) end of culvert under Hwy 27.		

<b>Photo No.</b> 2	<b>Date:</b> March 28, 2023	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Stream C downstream of Copper Park Lane.		

<b>Photo No.</b> 4	<b>Date:</b> March 28, 2023	
<b>Direction Photo Taken:</b> Northeast		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Upstream (east) end culvert under STH 27.		



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

**Inspection Notes**

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.

**\*END OF NOTES\***



Client's Name:  
Flambeau Mine Company

Site Location:  
FMC - Stream C

Project No.  
17F777.23


Photo No. 1	Date: April 12, 2023	
Direction Photo Taken: Southwest		
Photo Taken By: Jim Engelhardt		
Description: Downstream view of culvert under Copper Park Lane		


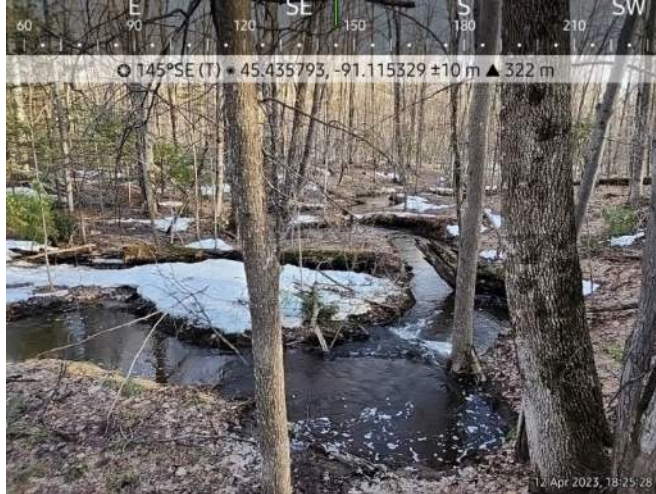
Photo No. 3	Date: April 12, 2023	
Direction Photo Taken: Northeast		
Photo Taken By: Jim Engelhardt		
Description: View of waterway between Copper Park Lane and the Flambeau River.		

Photo No. 2	Date: April 12, 2023	
Direction Photo Taken: North		
Photo Taken By: Jim Engelhardt		
Description: Upstream view of culvert under Copper Park Lane		

Photo No. 4	Date: April 12, 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. 5	Date: 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. 7	Date: April 12, 2023	
Direction Photo Taken: East		
Photo Taken By: Jim Engelhardt		
Description: View upstream at the confluence with the Flambeau River.		

Photo No. 6	Date: April 12, 2023	
Direction Photo Taken: East		
Photo Taken By: Jim Engelhardt		
Description: View of waterway between Copper Park Lane and the Flambeau River.		

Photo No. 8	Date: April 12, 2023	
Direction Photo Taken: Southwest		
Photo Taken By: Jim Engelhardt		
Description: Confluence at the Flambeau River.		



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

**Inspection Notes**

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.

**\*END OF NOTES\***



**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23


<p><b>Photo No.</b> 1</p>	<p><b>Date:</b> April 19, 2023</p>		<p><b>Photo No.</b> 3</p>	<p><b>Date:</b> April 19, 2023</p>	
<p><b>Direction Photo Taken:</b> West</p>		<p><b>Direction Photo Taken:</b> East</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Sample Point CP-04</p>		<p><b>Description:</b> Sample Point SW-C1</p>			
<p><b>Photo No.</b> 2</p>	<p><b>Date:</b> April 19, 2023</p>		<p><b>Photo No.</b> 4</p>	<p><b>Date:</b> April 19, 2023</p>	
<p><b>Direction Photo Taken:</b> South</p>		<p><b>Direction Photo Taken:</b> South</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Sample Point SW-NBOUT</p>		<p><b>Description:</b> Sample Point SW-C5</p>			





**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
17F777.23



<p><b>Photo No.</b> 5</p>	<p><b>Date:</b> April 19, 2023</p>		<p><b>Photo No.</b> 7</p>	<p><b>Date:</b> April 19, 2023</p>	
<p><b>Direction Photo Taken:</b> North</p>			<p><b>Direction Photo Taken:</b> South</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-C9</p>			<p><b>Description:</b> Sample Point SW-HWY27E</p>		



<p><b>Photo No.</b> 6</p>	<p><b>Date:</b> April 19, 2023</p>		<p><b>Photo No.</b> 8</p>	<p><b>Date:</b> April 19, 2023</p>	
<p><b>Direction Photo Taken:</b> North</p>			<p><b>Direction Photo Taken:</b> North</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sampling Point SW-EB</p>			<p><b>Description:</b> Sampling Point SW-HWY27W</p>		

**Client's Name:**  
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**Site Location:**  
FMC - Stream C

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<p><b>Photo No.</b> 9</p>	<p><b>Date:</b> April 19, 2023</p>		<p><b>Photo No.</b> 11</p>	<p><b>Date:</b> April 19, 2023</p>	<div style="text-align: center;">  <p>SW-STM Confluence.mp4</p> </div>
<p><b>Direction Photo Taken:</b> West</p>			<p><b>Direction Photo Taken:</b> West to East</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Video Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-NB</p>			<p><b>Description:</b> Sample Point SW-STM Flow Video</p>		

<p><b>Photo No.</b> 10</p>	<p><b>Date:</b> April 19, 2023</p>		<p><b>Photo No.</b> 12</p>	<p><b>Date:</b> April 19, 2023</p>	<div style="text-align: center;">  <p>Hwy 27 Culvert US.mp4</p> </div>
<p><b>Direction Photo Taken:</b> West</p>			<p><b>Direction Photo Taken:</b> North</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-STM</p>			<p><b>Description:</b> Sample Point SW-HWY27E Flow Video</p>		





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

**Inspection Notes**

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.



**\*END OF NOTES\***

**Client's Name:**  
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**Site Location:**  
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<p><b>Photo No.</b> 1</p>	<p><b>Date:</b> April 29, 2023</p>		<p><b>Photo No.</b> 3</p>	<p><b>Date:</b> April 29, 2023</p>	
<p><b>Direction Photo Taken:</b> North</p>		<p><b>Direction Photo Taken:</b> West</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Flow at upstream end of the Copper Park Lane culvert.</p>		<p><b>Description:</b> Sample Point CP-04.</p>			

<p><b>Photo No.</b> 2</p>	<p><b>Date:</b> April 29, 2023</p>		<p><b>Photo No.</b> 4</p>	<p><b>Date:</b> April 29, 2023</p>	
<p><b>Direction Photo Taken:</b> Northeast</p>		<p><b>Direction Photo Taken:</b> Northeast</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Flow at downstream end of the Copper Park Lane culvert.</p>		<p><b>Description:</b> Sample Point SW-C1.</p>			





**Client's Name:**  
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<p><b>Photo No.</b> 5</p>	<p><b>Date:</b> April 29, 2023</p>		<p><b>Photo No.</b> 7</p>	<p><b>Date:</b> April 29, 2023</p>	
<p><b>Direction Photo Taken:</b> South</p>			<p><b>Direction Photo Taken:</b> North</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-C5.</p>			<p><b>Description:</b> Sample Point SW-HWY27E</p>		



<p><b>Photo No.</b> 6</p>	<p><b>Date:</b> April 29, 2023</p>		<p><b>Photo No.</b> 8</p>	<p><b>Date:</b> April 29, 2023</p>	
<p><b>Direction Photo Taken:</b> North</p>			<p><b>Direction Photo Taken:</b> North</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-EB.</p>			<p><b>Description:</b> Sample Point SW-HWY27W.</p>		




**Client's Name:**  
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<p><b>Photo No.</b> 9</p>	<p><b>Date:</b> April 29, 2023</p>		<p><b>Photo No.</b> 11</p>	<p><b>Date:</b> April 29, 2023</p>	
<p><b>Direction Photo Taken:</b> West</p>			<p><b>Direction Photo Taken:</b> West</p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>			<p><b>Photo Taken By:</b> Jim Engelhardt</p>		
<p><b>Description:</b> Sample Point SW-NB.</p>			<p><b>Description:</b> Sample Point SW-STM.</p>		

<p><b>Photo No.</b> 10</p>	<p><b>Date:</b> April 29, 2023</p>		<p><b>Photo No.</b> 12</p>	<p><b>Date:</b></p>	
<p><b>Direction Photo Taken:</b> South</p>			<p><b>Direction Photo Taken:</b></p>		
<p><b>Photo Taken By:</b> Jim Engelhardt</p>					
<p><b>Description:</b> Sample Point SW-NBOUT.</p>			<p><b>Description:</b></p>		



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

**Inspection Notes**

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.

**\*END OF NOTES\***



**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

**Project No.**  
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<b>Photo No.</b> 1	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> View upstream near the confluence of the Flambeau River		

<b>Photo No.</b> 3	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> Northeast		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> View downstream near the confluence of the Flambeau River		

<b>Photo No.</b> 2	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Flow downstream of culvert under Copper Park Drive		


<b>Photo No.</b> 4	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Upstream of culvert under Copper Park Drive		





**Client's Name:**  
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<b>Photo No.</b> 5	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Flow upstream end of culvert under Copper Park Drive		

<b>Photo No.</b> 7	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> Northeast		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> View upstream of culvert under Hwy 27		

<b>Photo No.</b> 6	<b>Date:</b> June 12, 2023	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> View downstream of culvert under Hwy 27		



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

**Inspection Notes**

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.





**\*\*END OF NOTES\***



**Client's Name:**  
Flambeau Mine Company

**Site Location:**  
FMC - Stream C

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<p><b>Photo No.</b> 1</p>	<p><b>Date:</b> 6-25-23</p>		<p><b>Photo No.</b> 3</p>	<p><b>Date:</b> 6-25-23</p>	
<p><b>Direction Photo Taken:</b> North</p>		<p><b>Direction Photo Taken:</b> Southwest</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Upstream end of culvert under Copper Park Lane.</p>		<p><b>Description:</b> Downstream (west) end of culvert under Hwy 27.</p>			
<p><b>Photo No.</b> 2</p>	<p><b>Date:</b> 6-25-23</p>		<p><b>Photo No.</b> 4</p>	<p><b>Date:</b> 6-25-23</p>	
<p><b>Direction Photo Taken:</b> Southwest</p>		<p><b>Direction Photo Taken:</b> Northeast</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Downstream end of culvert under Copper Park Lane.</p>		<p><b>Description:</b> Upstream (east) end of culvert under STH 27.</p>			





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

**Inspection Notes**

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.

**\*END OF NOTES\***

**Client's Name:**  
Flambeau Mine Company

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FMC - Stream C

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<b>Photo No.</b> 1	<b>Date:</b> 7-20-23	
<b>Direction Photo Taken:</b> North		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Upstream end of culvert under Copper Park Lane.		

<b>Photo No.</b> 3	<b>Date:</b> 7-20-23	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Downstream (west) end of culvert under Hwy 27.		

<b>Photo No.</b> 2	<b>Date:</b> 7-20-23	
<b>Direction Photo Taken:</b> Southwest		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Downstream end of culvert under Copper Park Lane.		

<b>Photo No.</b> 4	<b>Date:</b> 7-20-23	
<b>Direction Photo Taken:</b> Northeast		
<b>Photo Taken By:</b> Jim Engelhardt		
<b>Description:</b> Upstream (east) end of culvert under STH 27.		



**Client's Name:**  
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<p><b>Photo No.</b> 5</p>	<p><b>Date:</b> 7-20-23</p>		<p><b>Photo No.</b> 7</p>	<p><b>Date:</b> 7-20-23</p>	
<p><b>Direction Photo Taken:</b> North</p>		<p><b>Direction Photo Taken:</b> Southwest</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Ditch along West side of Hwy 27 north of culvert.</p>		<p><b>Description:</b> Stream C downstream of the Cooper Park Lane culvert.</p>			

<p><b>Photo No.</b> 6</p>	<p><b>Date:</b> 7-20-23</p>		<p><b>Photo No.</b> 8</p>	<p><b>Date:</b> 7-20-23</p>	
<p><b>Direction Photo Taken:</b> East</p>		<p><b>Direction Photo Taken:</b> Northeast</p>			
<p><b>Photo Taken By:</b> Jim Engelhardt</p>		<p><b>Photo Taken By:</b> Jim Engelhardt</p>			
<p><b>Description:</b> Upstream end of culvert under Hwy 27.</p>		<p><b>Description:</b> Standing water near sample point SW-NBOUT.</p>			