

Flambeau Mining Company
4700 Daybreak Parkway
South Jordan, UT 84095
801-204-2526



January 11, 2017

Mr. Philip Fauble
Hydrogeologist
Wisconsin Department of Natural Resources
101 S. Webster Street – GEF2
P.O. Box 7921
Madison, WI 53707-7921

RE: Flambeau Mining Company
Results from the 2016 Fall Surface Water Sampling Events

Dear Phil:

Enclosed please find copies of the laboratory reports from the 2016 fall surface water sampling event collected pursuant to the *Flambeau Mining Company Surface Water Monitoring Plan* submitted to the Department on September 24, 2015.

There was one qualifying storm event after commencement of the monitoring plan. The fall surface water sampling event was completed on October 17 and 18, 2016. Results from this event are attached. Also attached are results from samples collected from the Flambeau River at established locations SW-1, SW-2, and SW-3. These samples were collected voluntarily and results are provided for your reference.

Two duplicate samples were collected during the spring event, one at SW-1 (SW-DUP-2016-10) and one at SW-C9 (SW-DUP-2016-10 dated October 17, 2016).

If you have any questions, please contact me at 801-204-2526 or Sharon Kozicki, of Foth Infrastructure & Environment, LLC, at 920-496-6737.

Sincerely,

Dave Cline
President – Flambeau Mining Company

Attachments

Mr. Philip Fauble
January 11, 2017
Page 2

cc: Kyle McLaughlin, WDNR (*w/ enclosures*)
Zoe McManama, WDNR (*w/ enclosures*)
Al Christianson, City of Ladysmith (*w/ enclosures*)
Tom Riegel, Town of Grant (*w/ enclosures*)
Randy Tatur, Rusk County (*w/ enclosures*)
CeCe Tesky, Rusk Co. Zoning (*w/ enclosures*)
Sharon Kozicki, Foth (*w/ enclosures*)

Attachment 1

2016 Fall Surface Water Analytical Data

November 03, 2016

SHARON KOZICKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: FLAMBEAU 1ST FALL SW 2016
Pace Project No.: 40140540

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

cc: Heather Hallett, Foth Infrastructure & Environment
Max Malmquist, Flambeau Mining Co



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Green Bay Certification IDs

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

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40140540001	SW-C1-2016-10	Water	10/17/16 20:35	10/21/16 08:55
40140540002	SW-C9-2016-10	Water	10/17/16 21:05	10/21/16 08:55
40140540003	SW-DUP-2016-10	Water	10/17/16 00:00	10/21/16 08:55

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SAMPLE ANALYTE COUNT

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40140540001	SW-C1-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1
40140540002	SW-C9-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1
40140540003	SW-DUP-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1

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PROJECT NARRATIVE

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: November 03, 2016

General Information:

3 samples were analyzed for EPA 6020. 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 3010 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: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: November 03, 2016

General Information:

3 samples were analyzed for SM 2540D. 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.

QC Batch: 238894

R1: RPD value was outside control limits.

- DUP (Lab ID: 1415294)
 - Total Suspended Solids
- DUP (Lab ID: 1415343)
 - Total Suspended Solids

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: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Sample: SW-C1-2016-10 **Lab ID: 40140540001** Collected: 10/17/16 20:35 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	12.0	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 05:31	7440-50-8	
Total Hardness by 2340B	18.8	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 05:31		
Zinc	7.0J	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 05:31	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	12.4	mg/L	2.0	0.95	1		10/21/16 11:38		

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ANALYTICAL RESULTS

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Sample: SW-C9-2016-10 **Lab ID: 40140540002** Collected: 10/17/16 21:05 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	10.5	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 05:38	7440-50-8	
Total Hardness by 2340B	12.9	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 05:38		
Zinc	13.2	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 05:38	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	13.2	mg/L	2.0	0.95	1		10/21/16 11:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

Sample: SW-DUP-2016-10 **Lab ID: 40140540003** Collected: 10/17/16 00:00 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	10.9	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 05:45	7440-50-8	
Total Hardness by 2340B	12.7	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 05:45		
Zinc	13.9	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 05:45	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	14.2	mg/L	2.0	0.95	1		10/21/16 11:38		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

QC Batch: 239485 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 40140540001, 40140540002, 40140540003

METHOD BLANK: 1418707 Matrix: Water

Associated Lab Samples: 40140540001, 40140540002, 40140540003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<0.26	1.0	11/01/16 02:50	
Total Hardness by 2340B	mg/L	<0.15	5.0	11/01/16 02:50	
Zinc	ug/L	<3.1	10.0	11/01/16 02:50	

LABORATORY CONTROL SAMPLE: 1418708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	506	101	80-120	
Total Hardness by 2340B	mg/L		32.1			
Zinc	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1418709 1418710

Parameter	Units	40140519002		40140519003		40140519004		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Copper	ug/L	3.6	500	495	500	98	96	75-125	2	20			
Total Hardness by 2340B	mg/L	713		717	720				0	20			
Zinc	ug/L	<3.1	500	508	500	101	99	75-125	2	20			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

QC Batch: 238894

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40140540001, 40140540002, 40140540003

METHOD BLANK: 1415292

Matrix: Water

Associated Lab Samples: 40140540001, 40140540002, 40140540003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/21/16 11:36	

LABORATORY CONTROL SAMPLE: 1415293

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

SAMPLE DUPLICATE: 1415294

Parameter	Units	40140286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	24.8	20.8	18	5	R1

SAMPLE DUPLICATE: 1415343

Parameter	Units	40140541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3.2	3.0	6	5	R1

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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QUALIFIERS

Project: FLAMBEAU 1ST FALL SW 2016

Pace Project No.: 40140540

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU 1ST FALL SW 2016
Pace Project No.: 40140540

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140540001	SW-C1-2016-10	EPA 3010	239485	EPA 6020	239574
40140540002	SW-C9-2016-10	EPA 3010	239485	EPA 6020	239574
40140540003	SW-DUP-2016-10	EPA 3010	239485	EPA 6020	239574
40140540001	SW-C1-2016-10	SM 2540D	238894		
40140540002	SW-C9-2016-10	SM 2540D	238894		
40140540003	SW-DUP-2016-10	SM 2540D	238894		

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Sample Condition Upon Receipt

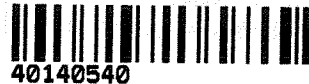
Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project # WO#: 40140540

Client Name: Flambeau Mining Co

Courier: Fed Ex UPS Client Pace Other: Walter

Tracking #: 1189651-2



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 NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Person examining contents:
Date: 10/2/16
Initials: BH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows of checklist items and checkboxes. Items include Chain of Custody Present, Short Hold Time Analysis, Containers Intact, etc.

November 03, 2016

SHARON KOZICKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: FLAMBEAU RIVER SW FALL 2016
Pace Project No.: 40140541

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

cc: Heather Hallett, Foth Infrastructure & Environment
Max Malmquist, Flambeau Mining Co



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Green Bay Certification IDs

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

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40140541001	SW-1-2016-10	Water	10/18/16 12:35	10/21/16 08:55
40140541002	SW-2-2016-10	Water	10/18/16 13:00	10/21/16 08:55
40140541003	SW-3-2016-10	Water	10/18/16 13:45	10/21/16 08:55
40140541004	SW-DUP-2016-10	Water	10/18/16 00:00	10/21/16 08:55

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SAMPLE ANALYTE COUNT

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40140541001	SW-1-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1
40140541002	SW-2-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1
40140541003	SW-3-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1
40140541004	SW-DUP-2016-10	EPA 6020	DS1	3
		SM 2540D	DDY	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: November 03, 2016

General Information:

4 samples were analyzed for EPA 6020. 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 3010 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: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: November 03, 2016

General Information:

4 samples were analyzed for SM 2540D. 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.

QC Batch: 238894

R1: RPD value was outside control limits.

- DUP (Lab ID: 1415294)
 - Total Suspended Solids
- DUP (Lab ID: 1415343)
 - Total Suspended Solids

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: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Sample: SW-1-2016-10 **Lab ID: 40140541001** Collected: 10/18/16 12:35 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	0.80J	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 05:52	7440-50-8	
Total Hardness by 2340B	43.9	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 05:52		
Zinc	3.1J	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 05:52	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	3.2	mg/L	2.0	0.95	1		10/21/16 11:38		R1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Sample: SW-2-2016-10 **Lab ID: 40140541002** Collected: 10/18/16 13:00 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	1.0	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 05:58	7440-50-8	
Total Hardness by 2340B	42.6	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 05:58		
Zinc	3.1J	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 05:58	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	3.4	mg/L	2.0	0.95	1		10/21/16 11:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Sample: SW-3-2016-10 **Lab ID: 40140541003** Collected: 10/18/16 13:45 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	0.85J	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 06:05	7440-50-8	
Total Hardness by 2340B	42.1	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 06:05		
Zinc	4.1J	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 06:05	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	3.0	mg/L	2.0	0.95	1		10/21/16 11:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Sample: SW-DUP-2016-10 **Lab ID: 40140541004** Collected: 10/18/16 00:00 Received: 10/21/16 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Copper	0.74J	ug/L	1.0	0.26	1	10/27/16 09:01	11/01/16 06:12	7440-50-8	
Total Hardness by 2340B	41.5	mg/L	5.0	0.15	1	10/27/16 09:01	11/01/16 06:12		
Zinc	<3.1	ug/L	10.0	3.1	1	10/27/16 09:01	11/01/16 06:12	7440-66-6	
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	3.4	mg/L	2.0	0.95	1		10/21/16 11:38		

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QUALITY CONTROL DATA

Project: FLAMBEAU RIVER SW FALL 2016
Pace Project No.: 40140541

QC Batch: 239485 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 40140541001, 40140541002, 40140541003, 40140541004

METHOD BLANK: 1418707 Matrix: Water
Associated Lab Samples: 40140541001, 40140541002, 40140541003, 40140541004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<0.26	1.0	11/01/16 02:50	
Total Hardness by 2340B	mg/L	<0.15	5.0	11/01/16 02:50	
Zinc	ug/L	<3.1	10.0	11/01/16 02:50	

LABORATORY CONTROL SAMPLE: 1418708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	506	101	80-120	
Total Hardness by 2340B	mg/L		32.1			
Zinc	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1418709 1418710

Parameter	Units	40140519002		40140519003		40140519004		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Copper	ug/L	3.6	500	495	500	98	96	75-125	2	20			
Total Hardness by 2340B	mg/L	713		717	720				0	20			
Zinc	ug/L	<3.1	500	508	500	101	99	75-125	2	20			

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

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QUALITY CONTROL DATA

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

QC Batch: 238894

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40140541001, 40140541002, 40140541003, 40140541004

METHOD BLANK: 1415292

Matrix: Water

Associated Lab Samples: 40140541001, 40140541002, 40140541003, 40140541004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/21/16 11:36	

LABORATORY CONTROL SAMPLE: 1415293

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

SAMPLE DUPLICATE: 1415294

Parameter	Units	40140286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	24.8	20.8	18	5	R1

SAMPLE DUPLICATE: 1415343

Parameter	Units	40140541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3.2	3.0	6	5	R1

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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QUALIFIERS

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU RIVER SW FALL 2016

Pace Project No.: 40140541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140541001	SW-1-2016-10	EPA 3010	239485	EPA 6020	239574
40140541002	SW-2-2016-10	EPA 3010	239485	EPA 6020	239574
40140541003	SW-3-2016-10	EPA 3010	239485	EPA 6020	239574
40140541004	SW-DUP-2016-10	EPA 3010	239485	EPA 6020	239574
40140541001	SW-1-2016-10	SM 2540D	238894		
40140541002	SW-2-2016-10	SM 2540D	238894		
40140541003	SW-3-2016-10	SM 2540D	238894		
40140541004	SW-DUP-2016-10	SM 2540D	238894		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Flambeau Mining Company
 Branch/Location: Ladysmith, WI
 Project Contact: Sharon Kozicki
 Phone: (920) 496-6737
 Project Number:
 Project Name: Flambeau River SW 2016 *Fall*
 Project State: Wisconsin
 Sampled By (Print): Max Malmquist
 Sampled By (Sign): Max Malmquist
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

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40140541

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CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analysis Requested	Matrix
N	A	TSS Ca ²⁺ Hardness	SW
N	D		SW

Quote #:
 Mail To Contact: Sharon Kozicki
 Mail To Company: Foth
 Mail To Address: 2121 Innovation Ct. DePere, WI 54115
 Invoice To Contact: Sharon Kozicki
 Invoice To Company: Foth
 Invoice To Address: Same as above
 Invoice To Phone: (920) 496-6737
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV
MS/MSD
 On your sample (billable)
 NOT needed on your sample
Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter
		DATE	TIME			
001	SW-1-2016-10	10/18/16	12:35	SW	X	X
002	SW-2-2016-10	10/18/16	13:00	SW	X	X
003	SW-3-2016-10	10/18/16	13:45	SW	X	X
004	SW-DUP-2016-10	10/18/16	-	SW	X	X

Carrier missed pickup on 10/19 - came on 10/20

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <u>Max Malmquist</u> Date/Time: <u>10/18/16 8:00 am</u>	Received By: <u>Carrier (Walter)</u> Date/Time: <u>10/19/16 8:00 am</u>
Relinquished By: <u>Walter</u> Date/Time: <u>10/21/16 0855</u>	Received By: <u>Walter</u> Date/Time: <u>10/21/16 0855</u>
Relinquished By: Date/Time: 	Received By: Date/Time:
Relinquished By: Date/Time: 	Received By: Date/Time:

PACE Project No. 40140541
 Receipt Temp = ROI °C
 Sample Receipt pH (OK) Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

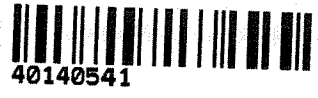


Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Flambeau
Courier: Fed Ex UPS Client Pace Other: Waltco
Tracking #: 1189651-1

Project # **WO# : 40140541**



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: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: ROI /Corr: _____ Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 10-21-16
Initials: MM

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

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 <input type="checkbox"/> N/A	5.
- 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 <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤ 2, NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed: <u>MM</u> Lab Std #ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	