

Flambeau Mining Company
N4100 Hwy 27
Ladysmith, WI 54848
715-532-6690



January 20, 2012

Mr. Phil Fauble W/3
Wisconsin Department of Natural Resources
PO Box 7921
Madison, WI 53707

Dear Mr. Fauble:

RE: Surface Water Monitoring
Stream C & 0.9 acre Biofilter

Flambeau Mining Company (Flambeau) is providing the results of monitoring Stream C and the 0.9 acre biofilter conducted during September 2011. Flambeau's Biofilter Management Plan (January 2007) requires monitoring twice per year (spring and fall).

The sampling event occurred on September 26 & 27, 2011. The flow from the 0.9 acre biofilter (BFSW-C2) measured 42 ppb copper. Flow from the 32 acre Industrial Outlot into the biofilter (BFSW-C1) measured 17 ppb copper. Stream C downstream from the biofilter (SW-C5) measured 9.4 ppb copper. Insufficient surface water was available to monitor background conditions upstream of Stream C along Hwy 27 (SW-C8).

The Analytical Report of the above results is attached.

If there are any questions regarding this submittal, please contact me at 715-532-6690 Ext. 2 or jana-murphy@clearwire.net.

Sincerely,

A handwritten signature in black ink that reads "Jana E. Murphy".

Jana E. Murphy
Environmental & Reclamation Manager



Mr. Phil Fauble
January 20, 2012
Page 2

Attachment

Cc: Tom Aartila, DNR – Park Falls
Al Christianson, City of Ladysmith
Dave Cline, Rio Tinto
Hank Handzel, DeWitt, Ross & Stevens
Jim Hutchison, Foth & Van Dyke
Dave Kafura, DNR - Hayward
Jon Kleist, DNR – Park Falls
Randy Tatur, Rusk Co.
Tom Riegel, Town of Grant
Craig Roesler, DNR - Hayward
CeCe Tesky, Rusk Co. Zoning

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 10/07/11 Code: NNNN-S Page 1 of 2

Client: Flambeau Mining Company
 Attn: Jana Murphy
 N4100 Highway 27
 Ladysmith, WI 54848

NLS Project: 169089

NLS Customer: 11750

Fax: 715 532 6885 Phone: 715 532 6690

Project: BF Monitoring - Fall 2011

LSW-C5 NLS ID: 636031

COC: 115986:1 Matrix: SW

Collected: 09/27/11 19:10 Received: 09/30/11

Parameter

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Conductivity, lab	132	umho@25C	1			09/30/11	EPA 120.1	721026460
Copper, tot. recoverable as Cu by ICP	9.4	ug/L	1	0.73	2.3	10/03/11	EPA 200.7	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	28	mg/L	1	1.0*	2.0*	10/03/11	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	4.8	mg/L	1	0.014	0.044	10/03/11	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	370	ug/L	1	1.0	2.0	10/03/11	EPA 200.7	721026460
pH, Lab	5.92	s.u.	1			09/30/11	SM4500-H+B 20ed	721026460
Sulfate, as SO4 (unfiltered)	13	mg/L	10	2.5	5.0	10/04/11	EPA 300.0	721026460
Zinc, tot. recoverable as Zn by ICP	180	ug/L	1	5.0	10	10/03/11	EPA 200.7	721026460
Metals digestion - tot. recov.ICP	yes					09/30/11	EPA 200.7M	721026460

BFSW-C2 NLS ID: 636032

COC: 115986:2 Matrix: SW

Collected: 09/27/11 19:30 Received: 09/30/11

Parameter

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Conductivity, lab	97	umho@25C	1			09/30/11	EPA 120.1	721026460
Copper, tot. recoverable as Cu by ICP	42	ug/L	1	0.73	2.3	10/03/11	EPA 200.7	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	28	mg/L	1	1.0*	2.0*	10/03/11	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	2.1	mg/L	1	0.014	0.044	10/03/11	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	140	ug/L	1	1.0	2.0	10/03/11	EPA 200.7	721026460
pH, Lab	6.23	s.u.	1			09/30/11	SM4500-H+B 20ed	721026460
Sulfate, as SO4 (unfiltered)	ND	mg/L	10	2.5	5.0	10/04/11	EPA 300.0	721026460
Zinc, tot. recoverable as Zn by ICP	[7.0]	ug/L	1	5.0	10	10/03/11	EPA 200.7	721026460
Metals digestion - tot. recov.ICP	yes					09/30/11	EPA 200.7M	721026460

BFSW-C1 NLS ID: 636033

COC: 115986:3 Matrix: SW

Collected: 09/26/11 00:00 Received: 09/30/11

Parameter

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Conductivity, lab	89	umho@25C	1			09/30/11	EPA 120.1	721026460
Copper, tot. recoverable as Cu by ICP	17	ug/L	1	0.73	2.3	10/03/11	EPA 200.7	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	38	mg/L	1	1.0*	2.0*	10/03/11	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	0.20	mg/L	1	0.014	0.044	10/03/11	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	4.9	ug/L	1	1.0	2.0	10/03/11	EPA 200.7	721026460
pH, Lab	7.03	s.u.	1			09/30/11	SM4500-H+B 20ed	721026460
Sulfate, as SO4 (unfiltered)	[4.0]	mg/L	10	2.5	5.0	10/04/11	EPA 300.0	721026460
Zinc, tot. recoverable as Zn by ICP	[5.7]	ug/L	1	5.0	10	10/03/11	EPA 200.7	721026460
Metals digestion - tot. recov.ICP	yes					09/30/11	EPA 200.7M	721026460

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

Client: Flambeau Mining Company
 Attn: Jana Murphy
 N4100 Highway 27
 Ladysmith, WI 54848

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. W100034

Printed: 10/07/11 **Code:** NNNN-S **Page** 2 of 2
NLS Project: 169089
NLS Customer: 11750
Fax: 715 532 6885 **Phone:** 715 532 6690

Project: BF Monitoring - Fall 2011

SW-Dup NLS ID: 636034

COC: 115986:4 Matrix: SW

Collected: 09/27/11 00:00 Received: 09/30/11

Parameter

Conductivity, lab	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Copper, tot. recoverable as Cu by ICP	89	umho@25C	1			09/30/11	EPA 120.1	721026460
Hardness, tot. recoverable, (calc/unfilt/ICP)	17	ug/L	1	0.73	2.3	10/03/11	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	37	mg/L	1	1.0*	2.0*	10/03/11	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	0.20	mg/L	1	0.014	0.044	10/03/11	EPA 200.7	721026460
pH, Lab	4.9	ug/L	1	1.0	2.0	10/03/11	EPA 200.7	721026460
Sulfate, as SO4 (unfiltered)	7.11	s.u.	1			09/30/11	SM4500-H+B 20ed	721026460
Zinc, tot. recoverable as Zn by ICP	[3.9]	mg/L	10	2.5	5.0	10/04/11	EPA 300.0	721026460
Metals digestion - tot. recov.ICP	[6.1]	ug/L	1	5.0	10	10/03/11	EPA 200.7	721026460
	yes					09/30/11	EPA 200.7M	721026460

Sampler Control NLS ID: 636035

COC: 115986:5 Matrix: SW

Collected: 08/28/11 16:30 Received: 09/30/11

Notes: Noncompliance: Sample(s) received beyond EPA holding time for conductivity, pH, and sulfate.

Parameter

Conductivity, lab	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Copper, tot. recoverable as Cu by ICP	3.0	umho@25C	1			09/30/11	EPA 120.1	721026460
Hardness, tot. recoverable, (calc/unfilt/ICP)	ND	ug/L	1	0.73	2.3	10/03/11	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	ND	mg/L	1	1.0*	2.0*	10/03/11	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	[0.037]	mg/L	1	0.014	0.044	10/03/11	EPA 200.7	721026460
pH, Lab	ND	ug/L	1	1.0	2.0	10/03/11	EPA 200.7	721026460
Sulfate, as SO4 (unfiltered)	7.32	s.u.	1			09/30/11	SM4500-H+B 20ed	721026460
Zinc, tot. recoverable as Zn by ICP	ND	mg/L	10	2.5	5.0	10/04/11	EPA 300.0	721026460
Metals digestion - tot. recov.ICP	ND	ug/L	1	5.0	10	10/03/11	EPA 200.7	721026460
	yes					09/30/11	EPA 200.7M	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection
 DWB = Dry Weight Basis
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

LOQ = Limit of Quantitation
 NA = Not Applicable

1000 ug/L = 1 mg/L

Reviewed by:



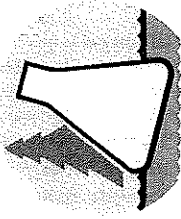
Authorized by:
 R. T. Krueger
 President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330



NO. 115855

CLIENT Flamborough Mining Co.	
ADDRESS N4100 Hwy 27	
CITY Ladysmith	STATE WI
ZIP 54848	QUOTATION NO.
PROJECT DESCRIPTION / NO. GF Monitoring - Fall 2011	
DNR FID #	DNR LICENSE #
CONTACT Jana E. Murphy	PHONE 715-532-6600
PURCHASE ORDER NO.	FAX

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS		MATRIX (See above)		COLLECTION TIME	DATE	DATE/TIME	COLLECTION REMARKS (i.e. DNR Well ID #)
Cond	Hardness	SW	SW	7:10 am	9-27-11	9-27-11	
Cond	Hardness	SW	SW	7:30 pm	9-27-11	9-27-11 5:30 pm	
Cond	Hardness	SW	SW	9:25 to 9:26, 2011	9-27-11		
Cond	Hardness	SW	SW	---	9-27-11		
Cond	Hardness	SW	SW	7:30 pm	9-28-11		

COLLECTED BY (signature) Jana E. Murphy	CUSTOMY SEAL NO. (IF ANY)	DATE/TIME 9-27-11
RELINQUISHED BY (signature) Jana E. Murphy	RECEIVED BY (signature) Steve Anders	DATE/TIME
DISPATCHED BY (signature) Jana E. Murphy	METHOD OF TRANSPORT UPS Ground	DATE/TIME 9-28-11 5:30 pm
RECEIVED AT NLS BY (signature) Jana E. Murphy	DATE/TIME	TEMP.
REMARKS & OTHER INFORMATION		
WDRN FACILITY NUMBER	E-MAIL ADDRESS	CONDITION

REPORT TO Flamborough Mining
INVOICE TO Flamborough Mining

COOLER #
PRESERVATIVE: N = nitric acid, OH = sodium hydroxide, NP = no preservative, Z = zinc acetate, HA = hydrochloric & ascorbic acid, M = methanol, S = sulfuric acid, H = hydrochloric acid

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
 2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE.
 3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
 4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.