



429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Cover Page

Client: Superior Watershed Partnership

WWA Job #: 59926

Project: Humboldt Mill Effluent Monito

Date Received: 10/7/2015

Date Reported: 11/4/2015

Sample Number
59926-001

Client Sample ID
HMWTP-EFF CEM-10010274

Date Sampled
10/07/15

Sample Matrix
Water



WHITE WATER ASSOCIATES, INC.

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Client: Superior Watershed Partnership

WWA Job #: 59926

Comments (if any):

59926-001 B: Method Blank for Low Level Mercury was 0.231 ng/L

Key to Laboratory Flags:

*: RPD exceeds limits.

B: The analyte was found in the associated blank as well as in the sample.

J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.

M: A matrix effect was present.

Q: Batch QC data associated with the analysis does not meet the stated objectives

H: Indicates analytical holding time exceedance.

U: The analyte was analyzed for, but not detected.

P: A manual peak selection or manual integration was performed to correct an erroneous software selection.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit

ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)

For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

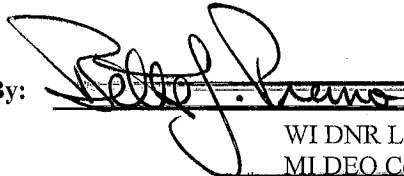
Sample Types:

S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By: 

WI DNR Lab Certification Number: 999971280

MI DEQ Certification Number: 9306

DoD-ELAP Accreditation Number: 65802

ISO/IEC 17025:2005 Accredited



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Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
59926-001 / HMWTP-EFF CEM-10010274 / Monthly Parameters / Water							
General Chemistry Parameters							
Ammonia-N	ND	M	mg/L	10/12/2015	350.1	0.01	0.04
BOD	ND		mg/L	10/7/2015	5210B	2	2
Fluoride	0.10		mg/L	10/14/2015	300.0	0.0060	0.050
Sulfate	140		mg/L	10/8/2015	4500-SO4- E	15	30
Total Dissolved Solids	340		mg/L	10/9/2015	2540C	10	10
Total Phosphorus (t)	ND		mg/L	10/21/2015	365.4	0.02	0.04
Total Suspended Solids	ND		mg/L	10/8/2015	2540D	2	2
Trace Metals - Total							
Antimony (t)	3.1		ug/L	10/9/2015	200.8	0.20	1.0
Arsenic (t)	1.0	J	ug/L	10/9/2015	200.8	1.0	10
Barium (t)	15		ug/L	10/13/2015	200.7	2.0	6.0
Boron (t)	57	J	ug/L	10/26/2015	200.7	40	100
Cadmium (t)	ND		ug/L	10/9/2015	200.8	0.10	1.0
Chromium (t)	14		ug/L	10/13/2015	200.7	0.80	3.0
Cobalt (t)	4.5	J	ug/L	10/13/2015	200.7	2.0	10
Copper (t)	11		ug/L	10/13/2015	200.7	2.0	10
Lead (t)	ND		ug/L	10/9/2015	200.8	0.40	1.0
Lithium (t)	18	J	ug/L	10/26/2015	200.7	7.0	30
Manganese (t)	290		ug/L	10/14/2015	200.7	0.50	3.0
Mercury (LL)	0.51	B	ng/L	10/16/2015	1631E	0.16	0.50
Molybdenum (t)	8.0	J	ug/L	10/26/2015	200.7	3.0	10
Nickel (t)	ND		ug/L	10/13/2015	200.7	10	30
Selenium (t)	ND		ug/L	10/9/2015	200.8	1.0	10
Strontium (t)	210		ug/L	10/26/2015	200.7	0.20	0.60

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)



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Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
59926-001 / HMWTP-EFF CEM-10010274 / Monthly Parameters / Water							
Zinc (t)	ND		ug/L	10/13/2015	200.7	10	30
59926-001	B: Method Blank for Low Level Mercury was 0.231 ng/L						



**WHITE WATER
ASSOCIATES, INC.**

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Amasa, Michigan 49903
Phone: (906) 822-7889, Fax -7977
Web: white-water-associates.com

CHAIN-OF-CUSTODY RECORD

Job # (WWA office use): **59926**

CLIENT NAME / BILL TO Superior Watershed Partnership	EMAIL ADDRESS Hunter@superiorwatersheds.org	CONTRACT / PO / PROJECT NAME / WSSN# CEMP	
ADDRESS 2 Peter White Dr	TELEPHONE 906 286 6095 ex 18	COUNTY OF LOCATION Marquette	PAGE 1 OF 2 <small>Indicate if more than one page of COC records used</small>
CITY Marquette	STATE MI	ZIP 49855	SAMPLER NAME (print first/last name) Hunter King
SAMPLER'S SIGNATURE <i>C. Hunter King</i>			

SAMPLE ID AND LOCATION <small>Containers for each sample may be combined on one line.</small>	DATE	TIME	SAMPLE MATRIX										Total Number of Containers								
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH	Na Thio						
#HWTP-EFF CEMP-10010273	10/6/15	13:15	X					5									6	See Sheet	Instructions to White Water Send my report by: _____ email _____ mail	UNLESS OTHERWISE NOTED, DRINKING WATER REPORT COPIES ARE SENT TO MDEQ and Health Dept.	REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)
#HWTP-EFF CEMP-10010274	10/7/15	10:15	X					6									6				

Relinquished by: <i>C. Hunter King</i>	Date: 10/7/15 11:10	Received by: <i>Lamey Janss</i>	Date: 10-7-15 13:41
Relinquished by:	Date:	Received by:	Date:

Comments / Sample temperature on receipt:
F=9.2c

59926

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Humboldt Mill WTP Effluent Monthly List

	Frequency of Analysis*	Sample Type	Analytical Methods	Maximum Daily Limit	Quantitation/ Reporting Limit	Max Daily Limit & Quantitation Units
Field						
Dissolved Oxygen	Daily	Grab	Field	Report	NA	mg/l
pH	Daily	Grab	Field	6.5 - 9	NA	S.U.
Outfall Observation	Daily	Grab	Field	**	NA	NA
Other						
Total Suspended Solids	Monthly	Grab	2540D	30	NA	mg/L
Total Dissolved Solids	Monthly	Grab	2540C	Report	NA	mg/L
Biochemical Oxygen Demand (BOD)	Monthly	Grab	5210B	Report	NA	mg/l
Acute Toxicity	Monthly	Grab		1	NA	TU _A
Chronic Toxicity	Monthly	Grab		1	NA	TU _C
Anions						
Ammonia Nitrogen	Monthly	Grab	4500-NH3 G	Report	0.05	mg/l
Total Phosphorus	Monthly	Grab	4500-P E	Report	0.01	mg/l
Fluoride	Monthly	Grab	4500-F C	Report	100	ug/l
Sulfate	Monthly	Grab	ASTMD516-90(02)	Report	5	mg/l
Metals						
Total Antimony	Monthly	Grab	200.7/200.8	Report	1.0	ug/l
Total Arsenic	Monthly	Grab	200.7/200.8	10	1.0	ug/l
Total Barium	Monthly	Grab	200.7/200.8	Report	5.0	ug/l
Total Boron	Monthly	Grab	200.7/200.8	250	20.0	ug/l
Total Cadmium	Monthly	Grab	200.7/200.8	5	0.2	ug/l
Total Chromium	Monthly	Grab	200.7/200.8	Report	1.0	ug/l
Total Cobalt	Monthly	Grab	200.7/200.8	Report	15.0	ug/l
Total Copper	Monthly	Grab	200.7/200.8	21	1.0	ug/l
Total Lead	Monthly	Grab	200.7/200.8	Report	1.0	ug/l
Total Lithium	Monthly	Grab	200.7/200.8	Report	8.0	ug/l
Total Manganese	Monthly	Grab	200.7/200.8	Report	5.0	ug/l
Total Mercury	Monthly	Grab	1631E	2.1	0.5	ng/L
Total Molybdenum	Monthly	Grab	200.7/200.8	Report	25.0	ug/l
Total Nickel	Monthly	Grab	200.7/200.8	Report	2.0	ug/l
Total Selenium	Monthly	Grab	200.7/200.8	25	1.0	ug/l
Total Strontium	Monthly	Grab	200.7/200.8	Report	5.0	ug/l
Total Zinc	Monthly	Grab	200.7/200.8	Report	10.0	ug/l