

September 2014
Humboldt Mill - WTP Effluent Monitoring

PARAMETER	Flow	Total Suspended Solids	Total Suspended Solids	Total Dissolved Solids	Total Dissolved Solids	Biochemical Oxygen Demand (BOD %)	Ammonia Nitrogen (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Antimony	Total Arsenic	Total Arsenic	Total Barium	Total Boron	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	01097	01002	01002	01007	01022	01027	01027	01034	01037	01037	01042
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	1	R	R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNIT	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	lbs/day	mg/L	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day
1	0.72																			
2	0.81																			
3	0.80	<3.3	<3.3	320	370	<2.0	<0.05	0.1021	0.0153	4.0	<0.0067	<1.0	6.4	66	<0.0013	<0.2	<1.0	0.0087	1.3	<0.0067
4	0.82																			
5	0.76																			
6	0.82																			
7	0.82																			
8	0.71																			
9	0.82																			
10	0.77	<3.3	<3.3	300	310	<2.0	<0.075	<0.0642	<0.01	4.4	<0.0064	<1.0	5.7	64	<0.0013	<0.2	<1.0	0.0083	1.3	<0.0064
11	0.69																			
12	0.82																			
13	0.82																			
14	0.82																			
15	0.82																			
16	0.82																			
17	0.70	<3.3	<3.3	300	470			<0.0584	<0.01		<0.0058	<1.0			<0.0012	<0.2		0.0088	1.5	<0.0058
18	0.81																			
19	0.62																			
20	0.81																			
21	0.81																			
22	0.82																			
23	0.81																			
24	0.82	<3.3	<3.3	320	320			0.1703	0.0249		<0.0068	<1.0			<0.0014	<0.2		0.0103	1.5	<0.0068
25	0.82																			
26	0.61																			
27	0.82																			
28	0.82																			
29	0.82																			
30	0.69																			

Notes:

^On Friday, September 19, 2014, Eagle Mine was notified by the Great Lakes Environmental Center (GLEC) laboratory that the second water sample collected and submitted on Wednesday, September 17, 2014 for the monthly toxicity test had undesirable results. Therefore, a new effluent sample was immediately collected and sent to GLEC to initiate a new test and ensure the water being discharged continued to be safe for the environment. The final results from the second test were within the limits specified in the NPDES permit.

Stage 1 = Final Effluent Discharge

Stage R = Intermediate Monitoring Point (Influent)

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PARAMETER	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	Total Mercury	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc
CODE	01042	01042	00951	01051	01051	01132	01055	01055	71900	71900	71900	01062	01067	01067	01067	01147	01147	01147	01082	01092
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	R	1	1	1	1	1	1	R	1	1	1	1	1	R	R	1	1	1	1
UNIT	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	ng/L	lbs/day	ng/L	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day
1																				
2																				
3	<1.0	1.5	160	<0.0067	<1.0	<8.0	0.1068	16	<0.5	<0.000003	<0.5	<25	<0.013	<2.0	7.3	<1.0	<0.0067	<1.0	180	<0.0667
4																				
5																				
6																				
7																				
8																				
9																				
10	<1.0	1.6	140	<0.0064	<1.0	<8.0	0.1734	27	<0.5	0.000003	<0.5	<25	<0.013	<2.0	7.6	1.0	<0.0064	<1.0	180	<0.0642
11																				
12																				
13																				
14																				
15																				
16																				
17	<1.0	2.2		<0.0058	<1.0		<0.0292	<5.0	<0.5	0.0000033	<0.5		0.0123	2.1	9.1	1.2	<0.0058	<1.0		<0.0584
18																				
19																				
20																				
21																				
22																				
23																				
24	<1.0	2.2		<0.0068	<1.0		<0.0342	<5.0	<0.5	0.0000034	<0.5		<0.0137	<2.0	11.0	<1.0	<0.0068	<1.0		<0.0684
25																				
26																				
27																				
28																				
29																				
30																				

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PARAMETER	Total Zinc	Acute Toxicity (ceriodaphnia dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Outfall Observations	pH	Dissolved Oxygen
CODE	01092	61425	TS16C	TTK6C	03599	00945	00945	84130	00400	00300
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	1	1	1	1	1	R	1	1	1
UNIT	ug/L	TUA	TUA	TUC	TUC	mg/L	mg/L	yes/no	S.U.	mg/L
1								yes	8.5	7.9
2								yes	8.6	8.4
3	<10					130	110	yes	8.5	8.3
4								yes	8.5	8.3
5								yes	8.5	4.1
6								yes	8.5	6.5
7								yes	8.5	8.3
8								yes	8.6	7.8
9								yes	8.3	9.4
10	<10					120	110	yes	8.5	8.7
11								yes	8.4	10.4
12								yes	8.3	9.4
13								yes	7.9	9.5
14								yes	8.8	8.7
15								yes	8.3	9.1
16								yes	8.5	10.1
17	<10					140	110	yes	8.5	8.3
18								yes	8.5	9.7
19								yes	8.7	11.1
20								yes	7.9	9.6
21								yes	8.5	9.6
22								yes	8.4	9.2
23								yes	8.5	9.3
24	<10	0^	0^	0^	0^	150	110	yes	8.4	8.6
25								yes	8.5	9.1
26								yes	8.4	9.4
27								yes	8.6	8.3
28								yes	8.6	8.7
29								yes	8.5	9.1
30								yes	8.1	9.1