

September 2018
Humboldt Mill WTP Effluent Results - Outfall 002A

1 - EFF																	
R - INF																	
	Daily	Weekly				2x Month		Weekly		Daily	Weekly		2x Month	Weekly		2x Month	
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 Residual Chlorine	Available Cyanide	Available Cyanide	Total Antimony	Total Arsenic	Total Arsenic	Total Barium	Total Boron
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002	01007	01022
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	R	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	mg/L	lbs/day	µg/L	µg/L	lbs/day	ug/L	µg/L	lbs/day	ug/L	ug/L
1	0.665									7							
2	0.528									4							
3	0.680									4							
4	0.695									1							
5	0.700	<3.3	4.9	360	2800	19	0.43	0.069	0.403	4	<5.0	<0.029	<2.0	<1.0	<0.006	<1.0	809
6	0.652									2							
7	0.425									4							
8	0.615									8							
9	0.584									5							
10	0.494									7							
11	0.423									1							
12	0.163	<3.3	19.6	340	2800	13.1	0.34	<0.010	<0.014	4	<5.0	<0.007	<2.0	<1.0	<0.001	<1.0	866
13	0.422									3							
14	0.766									6							
15	0.708									3							
16	0.611									1							
17	0.642									5							
18	0.687									5							
19	0.740	<3.3	6.4	350	2800	-	0.58	0.011	0.068	7	<5.0	<0.031	-	<1.0	<0.006	-	-
20	0.793									3							
21	0.717									3							
22	0.750									1							
23	0.460									2							
24	0.635									4							
25	0.625									5							
26	0.548	<3.3	4.8	390	2800	-	0.39	0.011	0.050	6	<5.0	<0.023	-	<1.0	<0.005	-	-
27	0.574									3							
28	0.687									5							
29	0.736									11							
30	0.764									11							

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1 - EFF																		
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	Weekly		2x Month	Weekly					2x Month	Weekly		2x Month						
PARAMETER	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	Total Mercury	Total Mercury
CODE	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055	01055	71900	71900	71900	71900
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	R	1	1	1	1	1	1	1	1	R	R
UNIT	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day
1																		
2																		
3																		
4																		
5	<0.20	<0.0012	<1.0	<1.0	<0.006	<1.0	<0.006	10.6	<100	<1.0	<0.006	<8.0	9.0	0.053	<0.50	<0.0000029	<5.1	<0.0000298
6																		
7																		
8																		
9																		
10																		
11																		
12	<0.20	<0.0003	<1.0	<1.0	<0.001	<1.0	<0.001	38.4	<100	<1.0	<0.001	<8.0	7.8	0.011	<0.50	<0.0000007	6.45	0.0000088
13																		
14																		
15																		
16																		
17																		
18																		
19	<0.20	<0.0012	-	<1.0	<0.006	1.3	0.008	4.4	<100	<1.0	<0.006	-	<5.0	<0.031	1.08	0.0000067	3.69	0.0000228
20																		
21																		
22																		
23																		
24																		
25																		
26	<0.20	<0.0009	-	<1.0	<0.005	<1.0	<0.005	2.7	<0.10	<1.0	<0.005	-	22.7	0.104	0.630	0.0000029	<5.1	<0.0000233
27																		
28																		
29																		
30																		

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1 - EFF																
R - INF																
Weekly											2x Month	Weekly				
PARAMETER	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (field duplicate)	Mercury (field duplicate)	Mercury (field blank)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium	Total Selenium
CODE	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1D	1D	RD	RD	1D	RD	1D	RD	1D	RD	1	1	1	R	1	1
UNIT	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day
1																
2																
3																
4																
5	<0.50	<0.0000029	<5.1	<0.0000298	<0.50	<5.1	<0.50	<5.1	<0.50	<5.1	<25.0	<2.0	<0.012	301	<2.0	<0.012
6																
7																
8																
9																
10																
11																
12	<0.50	<0.0000007	6.45	0.0000088	<0.50	6.45	<0.50	6.45	<0.50	6.45	<25.0	<2.0	<0.003	349	<2.0	<0.003
13																
14																
15																
16																
17																
18																
19	1.08	0.0000067	3.69	0.0000228	1.08	3.69	1.08	3.69	1.08	3.69	-	<2.0	<0.012	129	<2.0	<0.012
20																
21																
22																
23																
24																
25																
26	0.630	0.0000029	<5.1	<0.0000233	0.630	<5.1	0.630	<5.1	0.630	<5.1	-	<2.0	<0.009	92.5	<2.0	<0.009
27																
28																
29																
30																

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1 - EFF																
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		2x Month	Weekly		Monthly				Weekly		Daily	Monthly	Daily			
PARAMETER	Total Selenium	Total Strontium	Total Zinc	Total Zinc	Acute Toxicity (ceriodaphnia dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations	pH Minimum	pH Maximum	Dissolved Oxygen
CODE	01147	01082	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	002A	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	R	1	1	1	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	ug/L	ug/L	ug/L	lbs/day	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1											63.1		yes	6.35	8.55	8.28
2											63.8		yes	6.46	8.70	7.88
3											61.8		yes	6.89	8.70	8.08
4											61.5		yes	6.93	7.97	8.36
5	2.5	27.6	<10.0	<0.058					183	1250	61.8	291	yes	6.89	7.94	8.16
6											61.9		yes	6.90	8.08	8.44
7											61.4		yes	6.86	8.70	7.90
8											60.4		yes	6.55	7.65	8.64
9											62.0		yes	6.61	8.31	8.13
10											63.1		yes	6.60	7.43	8.11
11											63.6		yes	6.30	8.57	7.62
12	2.9	26.6	<10.0	<0.014					174	1250	63.4	27.6	yes	6.31	8.60	8.72
13					0	0	0	0			63.9		yes	6.31	8.53	7.92
14											61.8		yes	6.37	8.46	8.26
15											62.0		yes	6.48	8.62	8.17
16											61.8		yes	6.57	8.64	7.90
17											63.9		yes	6.29	8.70	8.18
18											58.8		yes	6.98	7.85	7.94
19	4.7	-	<10.0	<0.062					178	1310	59.7	-	yes	6.61	8.17	8.37
20											59.9		yes	6.81	8.17	8.58
21											60.8		yes	6.45	8.42	7.83
22											60.2		yes	6.30	8.60	8.33
23											60.3		yes	6.78	8.62	8.1
24											58.3		yes	6.85	8.68	8.81
25											62.0		yes	6.39	8.70	8.92
26	2.2	-	<10.0	<0.046					207	1300	60.3	-	yes	6.51	8.80	8.28
27											61.0		yes	6.18	7.62	8.94
28											60.8		yes	6.20	7.29	8.08
29											60.0		yes	6.18	7.71	8.09
30											59.5		yes	6.24	7.64	8.50

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	Daily	Weekly				2x Month		Weekly		Daily	Weekly		2x Month	Weekly
PARAMETER	Flow	Total Suspended Solids	Total Suspended Solids	Total Dissolved Solids	Total Dissolved Solids	Biochemical Oxygen Demand (BOD %1)	Ammonia Nitrogen (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Residual Chlorine	Available Cyanide	Available Cyanide	Total Antimony	Total Arsenic
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	R	1	1	1	1	1	1	1	1	1
UNIT	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	lbs/day	µg/L	µg/L	lbs/day	ug/L	µg/L
1	0.000									7				
2	0.000									4				
3	0.000									4				
4	0.000									1				
5	0.000	<3.3	4.9	360	2800	19	0.43	0.069	0.00	4	<5.0	0.00	<2.0	<1.0
6	0.000									2				
7	0.000									4				
8	0.000									8				
9	0.000									5				
10	0.000									7				
11	0.000									1				
12	0.000	<3.3	19.6	340	2800	13.1	0.34	<0.010	0.00	4	<5.0	0.00	<2.0	<1.0
13	0.000									3				
14	0.000									6				
15	0.000									3				
16	0.000									1				
17	0.000									5				
18	0.000									5				
19	0.000	<3.3	6.4	350	2800	-	0.58	0.011	0.00	7	<5.0	0.00	-	<1.0
20	0.000									3				
21	0.000									3				
22	0.000									1				
23	0.000									2				
24	0.000									4				
25	0.000									5				
26	0.000	<3.3	4.8	390	2800	-	0.39	0.011	0.00	6	<5.0	0.00	-	<1.0
27	0.000									3				
28	0.000									5				
29	0.000									11				
30	0.000									11				

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1 - EFF														
R - INF														
Daily	2x Month			Weekly		2x Month	Weekly					2x Month	Weekly	
PARAMETER	Total Arsenic	Total Barium	Total Boron	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead
CODE	01002	01007	01022	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	1	1	1	R	1	1	1
UNIT	lbs/day	ug/L	ug/L	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day
1														
2														
3														
4														
5	0.00	<1.0	809	<0.20	0.00	<1.0	<1.0	0.00	<1.0	0.00	10.6	<100	<1.0	0.00
6														
7														
8														
9														
10														
11														
12	0.00	<1.0	866	<0.20	0.00	<1.0	<1.0	0.00	<1.0	0.00	38.4	<100	<1.0	0.00
13														
14														
15														
16														
17														
18														
19	0.00	-	-	<0.20	0.00	-	<1.0	0.00	1.3	0.00	4.4	<100	<1.0	0.00
20														
21														
22														
23														
24														
25														
26	0.00	-	-	<0.20	0.00	-	<1.0	0.00	<1.0	0.00	2.7	<0.10	<1.0	0.00
27														
28														
29														
30														

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1 - EFF														
R - INF														
	2x Month			Weekly										
PARAMETER	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	Total Mercury	Total Mercury	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (field duplicate)	Mercury (field duplicate)	Mercury (field blank)
CODE	01132	01055	01055	71900	71900	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	R	R	1D	1D	RD	RD	1D	RD	1D
UNIT	ug/L	ug/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L
1														
2														
3														
4														
5	<8.0	9.0	0.00	<0.50	0.00	<5.1	0.00	<0.50	0.00	<5.1	0.00	<0.50	<5.1	<0.50
6														
7														
8														
9														
10														
11														
12	<8.0	7.8	0.00	<0.50	0.00	6.45	0.00	<0.50	0.00	6.45	0.00	<0.50	6.45	<0.50
13														
14														
15														
16														
17														
18														
19	-	<5.0	0.00	1.08	0.00	3.69	0.00	1.08	0.00	3.69	0.00	1.08	3.69	1.08
20														
21														
22														
23														
24														
25														
26	-	22.7	0.00	0.63	0.00	<5.1	0.00	0.63	0.00	<5.1	0.00	0.63	<5.1	0.63
27														
28														
29														
30														

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1 - EFF														
R - INF														
				2x Month	Weekly						2x Month	Weekly		
PARAMETER	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc	Total Zinc	Acute Toxicity (ceriodaphnia dubia)
CODE	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092	01092	61425
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	001A
STAGE	RD	1D	RD	1	1	1	R	1	1	R	1	1	1	1
UNIT	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	TUA
1														
2														
3														
4														
5	<5.1	<0.50	<5.1	<25.0	<2.0	0.00	301	<2.0	0.00	2.5	27.6	<10.0	0.00	
6														
7														
8														
9														
10														
11														
12	6.45	<0.50	6.45	<25.0	<2.0	0.00	349	<2.0	0.00	2.9	26.6	<10.0	0.00	
13														0
14														
15														
16														
17														
18														
19	3.69	1.08	3.69	-	<2.0	0.00	129	<2.0	0.00	4.7	-	<10.0	0.00	
20														
21														
22														
23														
24														
25														
26	<5.1	0.63	<5.1	-	<2.0	0.00	92.5	<2.0	0.00	2.2	-	<10.0	0.00	
27														
28														
29														
30														

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1 - EFF											
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Monthly			Weekly		Daily	Monthly	Daily				
PARAMETER	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations	pH Minimum	pH Maximum	Dissolved Oxygen
CODE	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	R	1	1	1	1	1	1
UNIT	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1						63.1		yes	6.35	8.55	8.28
2						63.8		yes	6.46	8.70	7.88
3						61.8		yes	6.89	8.70	8.08
4						61.5		yes	6.93	7.97	8.36
5				183	1250	61.8	291	yes	6.89	7.94	8.16
6						61.9		yes	6.90	8.08	8.44
7						61.4		yes	6.86	8.70	7.90
8						60.4		yes	6.55	7.65	8.64
9						62.0		yes	6.61	8.31	8.13
10						63.1		yes	6.60	7.43	8.11
11						63.6		yes	6.30	8.57	7.62
12				174	1250	63.4	27.6	yes	6.31	8.60	8.72
13	0	0	0			63.9		yes	6.31	8.53	7.92
14						61.8		yes	6.37	8.46	8.26
15						62.0		yes	6.48	8.62	8.17
16						61.8		yes	6.57	8.64	7.90
17						63.9		yes	6.29	8.70	8.18
18						58.8		yes	6.98	7.85	7.94
19				178	1310	59.7	-	yes	6.61	8.17	8.37
20						59.9		yes	6.81	8.17	8.58
21						60.8		yes	6.45	8.42	7.83
22						60.2		yes	6.3	8.60	8.33
23						60.3		yes	6.78	8.62	8.1
24						58.3		yes	6.85	8.68	8.81
25						62.0		yes	6.39	8.70	8.92
26				207	1300	60.3	-	yes	6.51	8.80	8.28
27						61.0		yes	6.184	7.62	8.94
28						60.8		yes	6.197	7.29	8.08
29						60.0		yes	6.182	7.71	8.09
30						59.5		yes	6.236	7.64	8.5