

June 2019  
Humboldt Mill WTP Effluent Results - Outfall 002A

	Daily	Weekly					2x Month		Weekly		Daily	Weekly		
	-	30 mg/L	-	750 mg/L	-	-	-	-	-	-	38 ug/L	-	-	-
PARAMETER	Flow	Total Suspended Solids	Total Suspended Solids	Total Dissolved 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	Amendable Cyanide	Amendable Cyanide	Amendable Cyanide
CODE	50050	00530	00530	70295	70295	70295	00310	00610	00665	00665	50060	01257	01257	01257
Monitoring Point	002A	002A	002A	002A		002A	002A	002A	002A	002A	002A	002A	002A	
STAGE	1	1	R	1	1	R	1	1	1	1	1	1	1	R
UNIT	MGD	mg/L	mg/L	mg/L	lbs/day	mg/L	mg/L	mg/L	mg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L
1	1.06										10			
2	1.14										14			
3	1.11										6			
4	1.09										8			
5	1.02			784	6669	3630			<0.050	<0.425	12			
6	0.99										10			
7	1.12										6			
8	1.11										5			
9	1.10										4			
10	1.15	<5.0		717	6877			0.78	<0.050	<0.480	5	<5.0	<0.048	
11	1.12										5			
12	1.08	<5.0	44	715	6440	3770	15.2	0.81	<0.050	<0.450	6	<5.0	<0.045	<5.0
13	0.65	<5.0		720	3903			0.79	<0.050	<0.271	0	<5.0	<0.027	
14	0.39										5			
15	0.94										8			
16	0.95										4			
17	1.09										3			
18	0.89										4			
19	0.31			2570	6644	3750			<0.050	<0.129	6			
20	1.15										8			
21	1.14										6			
22	1.19										4			
23	1.17										7			
24	1.16										5			
25	1.10	<5.0		717	6578			0.91	<0.050	<0.459	5	<5.0	<0.046	
26	0.84	<5.0		745	5219	3680		0.87	<0.050	<0.350	6	<5.0	<0.035	
27	1.15	7.0		711	6819			0.82	<0.050	<0.480	3	<5.0	<0.048	
28	1.13	<5.0		736	6936			0.8	<0.050	<0.471	0	<5.0	<0.047	
29	1.13										9			
30	1.14										3			

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PARAMETER	2x Month		Weekly			2x Month				Weekly		2x Month				
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Antimony	Total Antimony	Total Arsenic	Total Arsenic	Total Arsenic	Total Barium	Total Barium	Total Boron	Total Boron	Total Cadmium	Total Cadmium	Total Cadmium	Total Chromium	Total Chromium	Total Cobalt	Total Cobalt
CODE	01097	01097	01002	01002	01002	01007	01007	01022	01022	01027	01027	01027	01034	01034	01037	01037
Monitoring Point	002A		002A	002A		002A		002A		002A	002A		002A		002A	002A
STAGE	1	R	1	1	R	1	R	1	R	1	1	R	1	R	1	1
UNIT	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	ug/L	lbs/day
1																
2																
3																
4																
5																
6																
7																
8																
9																
10	<1.0		<1.0	<0.010		1.6		979		<0.20	<0.002		<1.0		<15.0	<0.144
11																
12	<1.0	4.4	<1.0	<0.009	3.0	1.9	18.3	929	1630	<0.20	<0.002	<0.20	<1.0	18.1	<15.0	<0.135
13	<1.0		<1.0	<0.005		1.6		1020		<0.20	<0.001		<1.0		<15.0	<0.081
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25	<1.0		<1.0	<0.009		1.4		885		<0.20	<0.002		<1.0		<15.0	<0.138
26	<1.0		<1.0	<0.007		1.7		934		<0.20	<0.001		<1.0		<15.0	<0.105
27	<1.0		<1.0	<0.010		1.8		856		<0.20	<0.002		<1.0		<15.0	<0.144
28	<1.0		<1.0	<0.009		1.8		1040		<0.20	<0.002		<1.0		<15.0	<0.141
29																
30																

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PARAMETER	Weekly				2x Month		Weekly			2x Month						
	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Fluoride	Total Lead	Total Lead	Total Lead	Total Lithium	Total Lithium	Total Manganese	Total Manganese	Total Manganese	Total Mercury	Total Mercury
CODE	01037	01042	01042	01042	00951	00951	01051	01051	01051	01132	01132	01055	01055	01055	71900	71900
Monitoring Point		002A	002A	002A	002A		002A	002A		002A		002A	002A		002A	002A
STAGE	R	1	1	R	1	R	1	1	R	1	R	1	1	R	1	1
UNIT	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	ug/L	lbs/day	ug/L	ng/L	lbs/day
1																
2																
3																
4																
5																
6																
7																
8																
9																
10		1.4	0.013		<100		<1.0	<0.010		<10.0		37.6	0.361			
11																
12	<15.0	1.0	0.010	26.1	<100	0.19	<1.0	<0.009	1.5	<10.0	<10.0	33.9	0.305	223	<0.50	<0.0000045
13		<1.0	<0.005		<100		<1.0	<0.005		<10.0		14.4	0.078			
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25		2.3	0.021		<100		<1.0	<0.009		<10.0		24.5	0.225			
26		1.8	0.013		<100		<1.0	<0.007		<10.0		24.0	0.168			
27		1.6	0.015		<100		<1.0	<0.010		<10.0		24.1	0.231			
28		2.1	0.020		<100		<1.0	<0.009		<10.0		43.1	0.406			
29																
30																

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PARAMETER	Weekly										2x Month		-	-
	Total Mercury	Total Mercury	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 Molybdenum	Total Nickel	Total Nickel
CODE	71900	71900	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01062	01067	01067
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A		002A	002A
STAGE	R	R	1D	RD	1D	RD	1D	RD	1D	RD	1	R	1	1
UNIT	ng/L	lbs/day	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ug/L	ug/L	ug/L	lbs/day
1														
2														
3														
4														
5														
6														
7														
8														
9														
10													10.7	0.103
11														
12	1.08	0.0000097	<0.50	1.08	<0.50	1.08	<0.50	1.08	<0.50	1.08	<5.0	5.2	8.7	0.078
13											<5.0		5.5	0.030
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25											<5.0		7.4	0.068
26											<5.0		4.8	0.034
27											<5.0		4.8	0.046
28											<5.0		8.2	0.077
29														
30														

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PARAMETER	Weekly				2x Month		Weekly			Monthly				Weekly		Daily
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Strontium	Total Zinc	Total Zinc	Total Zinc	Acute Toxicity (ceriodaphnia dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)
CODE	01067	01147	01147	01147	01082	01082	01092	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011
Monitoring Point	002A	002A	002A	002A	002A		002A	002A		001A	001A	001A	001A	002A	002A	002A
STAGE	R	1	1	R	1	R	1	1	R	1	1	1	1	1	R	1
UNIT	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	ug/L	lbs/day	ug/L	TUA	TUA	TUC	TUC	mg/L	mg/L	F
1																66.2
2																64.4
3																61.6
4																61.8
5																61.8
6																61.9
7																61.9
8																62.1
9																61.5
10		<1.0	<0.010		57.7		<10.0	<0.096						353		62.1
11																62.4
12	338	<1.0	<0.009	4.0	61.1	360	<10.0	<0.090	<10.0					374	1730	63.0
13		<1.0	<0.005		54.3		<10.0	<0.054		0	0	0	2.6	332		62.5
14																62.7
15																59.9
16																59.7
17																60.3
18																61.0
19																61.3
20																61.6
21																62.0
22																57.0
23																59.0
24																59.0
25		<1.0	<0.009		58.7		<10.0	<0.092						524		60.0
26		<1.0	<0.007		59.9		<10.0	<0.070						550		60.0
27		<1.0	<0.010		58.6		<10.0	<0.096						400		61.2
28		<1.0	<0.009		58		<10.0	<0.094						363		60.9
29																60.5
30																61.3

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	Daily			
	yes/no	6.0	9.0	4.0 mg/L
PARAMETER	Outfall Observations	pH Minimum	pH Maximum	Dissolved Oxygen
CODE	84130	00400	00400	00300
Monitoring Point	002A	002A	002A	002A
STAGE	1	1	1	1
UNIT	yes/no	S.U.	S.U.	mg/L
1	yes	6.80	7.22	8.93
2	yes	6.96	7.29	8.76
3	yes	6.87	7.65	8.89
4	yes	7.04	7.72	8.95
5	yes	7.08	8.57	8.66
6	yes	7.19	7.76	8.97
7	yes	6.59	8.74	8.61
8	yes	6.91	7.92	8.92
9	yes	6.92	7.84	8.82
10	yes	6.83	7.62	8.52
11	yes	6.38	8.73	8.29
12	yes	7.03	7.29	7.76
13	yes	6.89	7.26	8.83
14	yes	7.73	6.75	8.74
15	yes	6.20	8.80	8.41
16	yes	6.20	8.80	8.13
17	yes	6.71	8.65	8.62
18	yes	7.20	7.69	8.26
19	yes	6.70	8.80	8.52
20	yes	6.38	8.80	8.78
21	yes	6.50	8.46	8.69
22	yes	6.97	8.66	7.95
23	yes	7.14	8.18	7.54
24	yes	6.88	8.80	6.53
25	yes	7.21	8.79	7.27
26	yes	6.52	8.43	8.20
27	yes	6.93	8.48	8.04
28	yes	6.48	8.62	7.74
29	yes	6.56	8.68	7.83
30	yes	6.66	8.48	8.87