

January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

1 - EFF																		
R - INF																		
	Daily	Weekly				2x Month		Weekly		Daily	Weekly		2x Month	Weekly		2x Month		Weekly
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	Total Cadmium
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002	01007	01022	01027
Monitoring Point	002A	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	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	µg/L
1	0.24									0								
2	0.27									5								
3	0.22									5								
4	0.23									7								
5	0.24									3								
6	0.22									8								
7	0.17	<3.3	<3.3	320	580	3.9	0.22	<0.010	<0.014	9	<2.0	<0.003	<1.0	<1.0	<0.001	7.1	137	<0.20
8	0.23									4								
9	0.23									2								
10	0.23									5								
11	0.21									3								
12	0.23									4								
13	0.25									0								
14	0.24	<3.3	<3.3	290	570	2.9	0.19	<0.010	<0.020	2	<2.0	<0.004	1.0	<1.0	<0.002	6.5	135	<0.20
15	0.08									5								
16	0.21									7								
17	0.20									5								
18	0.26									9								
19	0.21									4								
20	0.22									6								
21	0.27	<3.3	<3.3	280	560		0.13	0.022	0.050	12	<2.0	<0.005		<1.0	<0.002			<0.20
22	0.28									13								
23	0.26									8								
24	0.21									4								
25	0.24									2								
26	0.05									4								
27	0.27									0								
28	0.27	<3.3	<3.3	300	560		0.20	<0.010	<0.023	9	<2.0	<0.005		<1.0	<0.002			<0.20

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	Daily	2x Month		Weekly				2x Month	Weekly		2x Month						
PARAMETER	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	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
STAGE	1	1	1	1	1	1	R	1	1	1	1	1	1	1	1	R	R
UNIT	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																	
6																	
7	<0.0003	<1.0	<1.0	<0.001	<1.0	<0.001	3.8	<100	<1.0	<0.001	<8.0	642	0.910	<.50	<0.0000007	0.56	0.0000012
8																	
9																	
10																	
11																	
12																	
13																	
14	<0.0004	<1.0	<1.0	<0.002	<1.0	<0.002	3.8	<100	<1.0	<0.002	<8.0	590	1.181	<.50	<0.0000010	0.542	0.0000011
15																	
16																	
17																	
18																	
19																	
20																	
21	<.0005		<1.0	<0.002	<1.0	<0.002	3.7	0.14	<1.0	<0.002		452	1.018	<.50	<0.0000011	<.50	<0.0000011
22																	
23																	
24																	
25																	
26																	
27																	
28	<0.0005		<1.0	<0.002	<1.0	<0.002	4.1	<0.10	<1.0	<0.002		723	1.628	<0.50	<0.0000011	<0.50	<0.0000011

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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	Total Selenium
CODE	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147
Monitoring Point	002A	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	R
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	ug/L
1																	
2																	
3																	
4																	
5																	
6																	
7	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	15.8	0.022	109	<1.0	<0.001	1.9
8																	
9																	
10																	
11																	
12																	
13																	
14	<0.500	<0.0000010	<0.500	<0.0000010	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	15.2	0.030	101	<1.0	<0.002	<1.0
15																	
16																	
17																	
18																	
19																	
20																	
21	<0.500	<0.0000011	<0.500	<0.0000011	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500		12.2	0.027	110	<1.0	<0.002	<1.0
22																	
23																	
24																	
25																	
26																	
27																	
28	<0.5000	<0.0000011	<0.5000	<0.0000011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		17.1	0.039	114	<1.0	<0.002	<1.0

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1 - EFF															
R - INF															
	2x Month	Weekly		Monthly				Weekly		Daily	Monthly	Daily			
PARAMETER	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	01082	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	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										37.1		Yes	6.82	9.22	12.10
2										37.2		Yes	6.82	8.68	11.81
3										37.2		Yes	7.45	8.64	11.63
4										37.1		Yes	7.29	8.75	11.77
5										36.8		Yes	7.12	8.54	12.11
6										36.1		Yes	7.22	8.47	11.68
7	107	<10.0	<0.014					144	290	36.2	127	Yes	7.06	8.82	11.92
8										36.6		Yes	7.49	8.69	11.90
9										37.0		Yes	6.92	8.52	11.34
10										37.1		Yes	7.99	8.37	11.14
11										37.0		Yes	8.01	8.53	11.73
12										37.0		Yes	7.33	8.50	11.96
13										37.2		Yes	6.99	8.78	11.08
14	97.3	<10.0	<0.020					126	277	37.0	116	Yes	7.84	8.51	11.28
15										37.5		Yes	7.18	8.53	11.36
16				0	0	0	1			37.4		Yes	7.38	8.45	11.37
17										37.2		Yes	7.37	8.48	11.58
18										37.4		Yes	7.52	8.43	11.36
19										37.1		Yes	7.41	8.20	11.63
20										37.4		Yes	7.57	8.34	11.89
21		<10.0	<0.023					142	283	37.3		Yes	7.67	8.90	11.12
22										37.2		Yes	7.44	8.23	11.76
23										36.9		Yes	7.57	8.32	11.30
24										37.8		Yes	7.36	8.39	11.13
25										37.5		Yes	7.42	8.15	11.29
26										37.7		Yes	6.10	8.29	11.15
27										37.4		Yes	7.55	8.42	10.84
28		<10.0	<0.02						283	37.3		Yes	7.41	8.32	11.66

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	Daily	Weekly				2x Month		Weekly		Daily	Weekly		2x Month	Weekly		2x Month		Weekly	
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	Total Cadmium	Total Cadmium
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002	01007	01022	01027	01027
Monitoring Point	002A	002A	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	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	µg/L	lbs/day
1	0.49									0									
2	0.39									5									
3	0.53									5									
4	0.53									7									
5	0.53									3									
6	0.46									8									
7	0.26	<3.3	<3.3	320	580	3.9	0.22	<0.010	<0.022	9	<2.0	<0.004	<1.0	<1.0	<0.002	7.1	137	<0.20	<0.0004
8	0.54									4									
9	0.49									2									
10	0.51									5									
11	0.53									3									
12	0.53									4									
13	0.50									0									
14	0.52	<3.3	<3.3	290	570	2.9	0.19	<0.010	<0.043	2	<2.0	<0.009	1.0	<1.0	<0.004	6.5	135	<0.20	<0.0009
15	0.15									5									
16	0.53									7									
17	0.51									5									
18	0.52									9									
19	0.51									4									
20	0.50									6									
21	0.52	<3.3	<3.3	280	560		0.13	0.022	0.095	12	<2.0	<0.009		<1.0	<0.004			<0.20	<0.0009
22	0.34									13									
23	0.54									8									
24	0.52									4									
25	0.50									2									
26	0.19									4									
27	0.52									0									
28	0.52	<3.3	<3.3	300	560		0.20	<0.010	<0.043	9	<2.0	<0.009		<1.0	<0.004			<0.20	<0.0009

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1 - EFF																		
R - INF																		
	2x Month		Weekly				2x Month	Weekly			2x Month	Total Manganese	Total Manganese	Total Mercury	Total Mercury	Total Mercury	Total Mercury	Mercury (uncorrected sample result)
PARAMETER	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	Total Mercury	Mercury (uncorrected sample result)
CODE	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055	01055	71900	71900	71900	71900	71900	7190a
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	R	1	1	1	1	1	1	1	1	R	R	1D	
UNIT	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	ng/L	
1																		
2																		
3																		
4																		
5																		
6																		
7	<1.0	<1.0	<0.002	<1.0	<0.002	3.8	<100	<1.0	<0.002	<8.0	642	1.392	<.50	<0.0000011	0.560	0.0000012	<0.500	
8																		
9																		
10																		
11																		
12																		
13																		
14	<1.0	<1.0	<0.004	<1.0	<0.004	3.8	<100	<1.0	<0.004	<8.0	590	2.559	<.50	<0.0000022	0.542	0.0000024	<0.500	
15																		
16																		
17																		
18																		
19																		
20																		
21		<1.0	<0.004	<1.0	<0.004	3.7	0.14	<1.0	<0.004		452	1.960	<.50	<0.0000022	<.50	<0.0000022	<0.500	
22																		
23																		
24																		
25																		
26																		
27																		
28		<1.0	<0.004	<1.0	<0.004	4.1	<0.10	<1.0	<0.004		723	3.136	<.50	<0.000002	<.50	<0.000002	<0.500	

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R - INF																	
Weekly										2x Month	Weekly						2x Month
PARAMETER	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	Total Selenium	Total Strontium
CODE	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1D	RD	RD	1D	RD	1D	RD	1D	RD	1	1	1	R	1	1	R	1
UNIT	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	ug/L	ug/L
1																	
2																	
3																	
4																	
5																	
6																	
7	<0.0000011	<0.500	<0.0000011	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	15.8	0.034	109	<1.0	<0.002	1.9	107
8																	
9																	
10																	
11																	
12																	
13																	
14	<0.0000022	<0.500	<0.0000022	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	15.2	0.066	101	<1.0	<0.004	<1.0	97.3
15																	
16																	
17																	
18																	
19																	
20																	
21	<0.0000022	<0.500	<0.0000022	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500		12.2	0.053	110	<1.0	<0.004	<1.0	
22																	
23																	
24																	
25																	
26																	
27																	
28	<0.000002	<0.500	<0.000002	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500		17.1	0.074	114	<1.0	<0.004	<1.0	

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1 - EFF														
R - INF														
Weekly		Monthly				Weekly		Daily	Monthly	Daily				
PARAMETER	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	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	ug/L	lbs/day	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1									37.1		Yes	6.82	9.22	12.10
2									37.2		Yes	6.82	8.68	11.81
3									37.2		Yes	7.45	8.64	11.63
4									37.1		Yes	7.29	8.75	11.77
5									36.8		Yes	7.12	8.54	12.11
6									36.1		Yes	7.22	8.47	11.68
7	<10.0	<0.022					144	290	36.2	127	Yes	7.06	8.82	11.92
8									36.6		Yes	7.49	8.69	11.90
9									37.0		Yes	6.92	8.52	11.34
10									37.1		Yes	7.99	8.37	11.14
11									37.0		Yes	8.01	8.53	11.73
12									37.0		Yes	7.33	8.50	11.96
13									37.2		Yes	6.99	8.78	11.08
14	<10.0	<0.043					126	277	37.0	116	Yes	7.84	8.51	11.28
15									37.5		Yes	7.18	8.53	11.36
16			0	0	0	1			37.4		Yes	7.38	8.45	11.37
17									37.2		Yes	7.37	8.48	11.58
18									37.4		Yes	7.52	8.43	11.36
19									37.1		Yes	7.41	8.20	11.63
20									37.4		Yes	7.57	8.34	11.89
21	<10.0	<0.043					142	283	37.3		Yes	7.67	8.90	11.12
22									37.2		Yes	7.44	8.23	11.76
23									36.9		Yes	7.57	8.32	11.30
24									37.8		Yes	7.36	8.39	11.13
25									37.5		Yes	7.42	8.15	11.29
26									37.7		Yes	6.10	8.29	11.15
27									37.4		Yes	7.55	8.42	10.84
28	<10.0	<0.043					147	283	37.3		Yes	7.41	8.32	11.66