

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	
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	0.03									2							
2	0.25									7							
3	0.26									6							
4	0.19									6							
5	0.00									*E							
6	0.00									*E							
7	0.19	<3.3	<3.3	320	560	3.0	0.19	<0.010	<0.016	3	<2.0	<0.003	<1.0	<1.0	<0.002	7.8	139
8	0.20									11							
9	0.24									8							
10	0.23									1							
11	0.28									7							
12	0.25									0							
13	0.04									1							
14	0.31	<3.3	<3.3	270	560	3.0	0.21	<0.010	<0.026	4	<2.0	<0.005	<1.0	<1.0	<0.003	8.3	132
15	0.28									3							
16	0.23									4							
17	0.29									4							
18	0.00									*E							
19	0.00									*E							
20	0.00									*E							
21	0.00									*E							
22	0.00									*E							
23	0.00									*E							
24	0.00									*E							
25	0.29									3							
26	0.23									4							
27	0.21									4							
28	0.23	<3.3	<3.3	280	600		0.19	0.015	0.029	4	<2.0	<0.004		<1.0	<0.002		
29	0.22									5							
30	0.29									20							

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1 - EFF																	
R - INF																	
	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
CODE	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055	01055	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	1	R	1	1	1	1	1	1	1	1	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
1																	
2																	
3																	
4																	
5																	
6																	
7	<0.20	<0.0003	<1.0	<1.0	<0.002	<1.0	<0.002	3.5	<100	<1.0	<0.002	<8.0	644	1.020	<0.50	<0.0000008	<.50
8																	
9																	
10																	
11																	
12																	
13																	
14	<0.20	<0.0005	<1.0	<1.0	<0.003	<1.0	<0.003	3.3	<100	<1.0	<0.003	<8.0	746	1.929	<.50	<0.00000013	0.513
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28	<0.20	<0.0004		<1.0	<0.002	<1.0	<0.002	3.4	<0.10	<1.0	<0.002		764	1.466	<0.50	<0.00000096	<.50
29																	
30																	

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Humboldt Mill WTP Effluent Results - Outfall 002A

1 - EFF																
R - INF																
Weekly												2x Month	Weekly			
PARAMETER	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)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium
CODE	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	R	1D	1D	RD	RD	1D	RD	1D	RD	1D	RD	1	1	1	R	1
UNIT	lbs/day	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
1																
2																
3																
4																
5																
6																
7	<0.0000008	<0.500	<0.0000008	<0.500	<0.0000008	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	7.6	0.012	108	<1.0
8																
9																
10																
11																
12																
13																
14	0.00000013	<0.500	<0.00000013	<0.500	<0.00000013	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	18.8	0.049	107	<1.0
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28	<0.00000096	<0.500	<0.00000096	<0.500	<0.00000096	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500		19.1	0.037	108	<1.0
29																
30																

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1 - EFF																
R - INF																
		2x Month	Weekly		Monthly				Weekly		Daily	Monthly	Daily			
PARAMETER	Total Selenium	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
CODE	01147	01147	01082	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400
Monitoring Point	002A	002A	002A	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	R	1	1	1	1	1	1	1	1	R	1	1	1	1	1
UNIT	lbs/day	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.
1												37.1		yes	7.07	8.20
2												37.2		yes	6.78	8.69
3												36.7		yes	7.70	8.55
4												37.5		yes	7.45	8.49
5												*E		*E	*E	*E
6												*E		*E	*E	*E
7	<0.002	1.3	109	<10.0	<0.016					138	278	37.3	122	yes	7.38	8.65
8												37.1		yes	7.52	8.40
9												37.5		yes	7.53	8.18
10												37.6		yes	7.53	8.44
11												37.1		yes	7.53	8.44
12												37.3		yes	7.42	8.22
13												37.5		yes	6.53	7.83
14	<0.003	<1.0	120	<10.0	<0.026					141	295	37.0	145	yes	7.17	8.21
15						0	0	0	0			37.8		yes	7.21	7.90
16												36.2		yes	7.07	8.11
17												37.4		yes	7.28	7.91
18												*E		*E	*E	*E
19												*E		*E	*E	*E
20												*E		*E	*E	*E
21												*E		*E	*E	*E
22												*E		*E	*E	*E
23												*E		*E	*E	*E
24												*E		*E	*E	*E
25												36.9		yes	6.73	7.70
26												38.0		yes	7.20	8.42
27												37.0		yes	7.12	8.62
28	<0.002	<1.0		<10.0	<0.020					139	279	38.2		yes	7.83	8.50
29												37.9		yes	7.27	8.49
30												38.1		yes	7.89	8.38

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Humboldt Mill WTP Effluent Results - Outfall 002A

1 - EFF	
R - INF	
PARAMETER	Dissolved Oxygen
CODE	00300
Monitoring Point	002A
STAGE	1
UNIT	mg/L
1	11.62
2	11.68
3	11.52
4	11.45
5	*E
6	*E
7	10.97
8	10.98
9	10.69
10	10.82
11	11.31
12	11.14
13	10.53
14	10.99
15	10.41
16	10.67
17	10.75
18	*E
19	*E
20	*E
21	*E
22	*E
23	*E
24	*E
25	11.22
26	8.92
27	11.38
28	11.56
29	11.57
30	11.50

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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	0.06									2							
2	0.38									7							
3	0.52									6							
4	0.38									6							
5	0.00									*E							
6	0.00									*E							
7	0.43	<3.3	<3.3	320	560	3.0	0.19	<0.010	<0.036	3	<2.0	<0.007	<1.0	<1.0	<0.004	7.8	139
8	0.50									11							
9	0.51									8							
10	0.49									1							
11	0.51									7							
12	0.51									0							
13	0.07									1							
14	0.56	<3.3	<3.3	270	560	3.0	0.21	<0.010	<0.047	4	<2.0	<0.009	<1.0	<1.0	<0.005	8.3	132
15	0.55									3							
16	0.50									4							
17	0.54									4							
18	0.00									*E							
19	0.00									*E							
20	0.00									*E							
21	0.00									*E							
22	0.00									*E							
23	0.00									*E							
24	0.00									*E							
25	0.55									3							
26	0.51									4							
27	0.51									4							
28	0.45	<3.3	<3.3	280	600		0.19	0.015	0.056	4	<2.0	<0.008		<1.0	<0.004		

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1 - EFF																	
R - INF																	
	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
CODE	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055	01055	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	1	R	1	1	1	1	1	1	1	1	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
1																	
2																	
3																	
4																	
5																	
6																	
7	<0.20	<0.0007	<1.0	<1.0	<0.004	<1.0	<0.004	3.5	<100	<1.0	<0.004	<8.0	644	2.310	<0.50	<0.00000018	<.50
8																	
9																	
10																	
11																	
12																	
13																	
14	<0.20	<0.0009	<1.0	<1.0	<0.005	<1.0	<0.005	3.3	<100	<1.0	<0.005	<8.0	746	3.484	<.50	<0.00000023	0.513
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28	<0.20	<0.0008		<1.0	<0.004	<1.0	<0.004	3.4	<0.10	<1.0	<0.004		764	2.867	<0.50	<0.000002	<.50

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1 - EFF																
R - INF																
Weekly												2x Month	Weekly			
PARAMETER	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)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium
CODE	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	R	1D	1D	RD	RD	1D	RD	1D	RD	1D	RD	1	1	1	R	1
UNIT	lbs/day	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
1																
2																
3																
4																
5																
6																
7	<0.00000018	<0.500	<0.00000018	<0.500	<0.00000018	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	7.6	0.027	108	<1.0
8																
9																
10																
11																
12																
13																
14	0.00000024	<0.500	<0.00000023	<0.500	<0.00000023	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<25.0	18.8	0.088	107	<1.0
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500		19.1	0.072	108	<1.0



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1 - EFF																
R - INF																
		2x Month		Weekly		Monthly				Weekly		Daily	Monthly	Daily		
PARAMETER	Total Selenium	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
CODE	01147	01147	01082	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400
Monitoring Point	002A	002A	002A	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	R	1	1	1	1	1	1	1	1	R	1	1	1	1	1
UNIT	lbs/day	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.
1												37.1		yes	7.07	8.20
2												37.2		yes	6.78	8.69
3												36.7		yes	7.70	8.55
4												37.5		yes	7.45	8.49
5												*E		*E	*E	*E
6												*E		*E	*E	*E
7	<0.004	1.3	109	<10.0	<0.036					138	278	37.3	122	yes	7.38	8.65
8												37.1		yes	7.52	8.40
9												37.5		yes	7.53	8.18
10												37.6		yes	7.53	8.44
11												37.1		yes	7.53	8.44
12												37.3		yes	7.42	8.22
13												37.5		yes	6.53	7.83
14	<0.005	<1.0	120	<10.0	<0.047					141	295	37.0	145	yes	7.17	8.21
15						0	0	0	0			37.8		yes	7.21	7.90
16												36.2		yes	7.07	8.11
17												37.4		yes	7.28	7.91
18												*E		*E	*E	*E
19												*E		*E	*E	*E
20												*E		*E	*E	*E
21												*E		*E	*E	*E
22												*E		*E	*E	*E
23												*E		*E	*E	*E
24												*E		*E	*E	*E
25												36.9		yes	6.73	7.70
26												38.0		yes	7.20	8.42
27												37.0		yes	7.12	8.62
28	<0.004	<1.0		<10.0	<0.038					139	279	38.2		yes	7.83	8.50

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1 - EFF	
R - INF	
PARAMETER	Dissolved Oxygen
CODE	00300
Monitoring Point	002A
STAGE	1
UNIT	mg/L
1	11.62
2	11.68
3	11.52
4	11.45
5	*E
6	*E
7	10.97
8	10.98
9	10.69
10	10.82
11	11.31
12	11.14
13	10.53
14	10.99
15	10.41
16	10.67
17	10.75
18	*E
19	*E
20	*E
21	*E
22	*E
23	*E
24	*E
25	11.22
26	8.92
27	11.38
28	11.56