

January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

1 - EFF															
R - INF															
	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 %)	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
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002
Monitoring Point	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
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
1	0.26									5					
2	0.28									10					
3	0.25	<3.3	<3.3	300	560	5.0	0.19	0.011	0.023	3	<2.0	<0.004	1.0	<1.0	<0.002
4	0.34									0					
5	0.17									2					
6	0.21									6					
7	0.31									5					
8	0.21									7					
9	0.19									6					
10	0.16	<3.3	<3.3	290	550	4.3	0.18	0.012	0.016	12	<2.0	<0.003	<1.0	<1.0	<0.001
11	0.13									1					
12	0.19									3					
13	0.30									2					
14	0.31									0					
15	0.11	<3.3	<3.3	260	540		0.15	<0.010	<0.009	3	2.0	0.002		<1.0	<0.001
16	0.00									0					
17	0.00									0					
18	0.00									0					
19	0.14									7					
20	0.31									3					
21	0.31									5					
22	0.20									0					
23	0.05									4					
24	0.16	<3.3	3.6	300	570		0.18	<0.010	<0.013	5	<2.0	<0.003		<1.0	<0.001
25	0.10									3					
26	0.31									2					
27	0.28									18					
28	0.27									1					
29	0.28									6					
30	0.27									5					
31	0.09	<3.3	3.7	250	560		0.20	0.011	0.008	3	<2.0	<0.002		<1.0	<0.001

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1 - EFF															
R - INF															
PARAMETER	2x Month		Weekly		2x Month	Weekly					2x Month	Weekly		2x Month	
	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	Total Lithium	Total Manganese
CODE	01007	01022	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	1	1	R	1	1	1	1	1
UNIT	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	ug/L	ug/L
1															
2															
3	7.3	150	<0.20	<0.0004	<1.0	<1.0	<0.002	<1.0	<0.002	4.8	<100	<1.0	<0.002	<8.0	616
4															
5															
6															
7															
8															
9															
10	7.0	133	<.20	<0.0003	<1.0	<1.0	<0.003	<1.0	<0.003	4.9	<100	<1.0	<0.003	<8.0	638
11															
12															
13															
14															
15			<0.20	<.00002		<1.0	<0.001	<1.0	<0.001	4.2		<1.0	<0.001		587
16															
17															
18															
19															
20															
21															
22															
23															
24			<.20	<0.0003		<1.0	<0.001	<1.0	<0.001	4.0		<1.0	<0.001		652
25															
26															
27															
28															
29															
30															
31			<0.20	<0.0002		<1.0	<0.002	<1.0	<0.002	4.4		<1.0	<0.002		648

January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

1 - EFF											
R - INF											
		Weekly									
PARAMETER	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)
CODE	01055	71900	71900	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	R	R	1D	1D	RD	RD	1D	RD
UNIT	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L
1											
2											
3	1.284	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.500
4											
5											
6											
7											
8											
9											
10	0.851	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.500
11											
12											
13											
14											
15	0.539	<0.500	<0.0000005	0.515	0.0000006	<0.500	<0.0000005	<0.500	<0.0000005	<0.500	<0.500
16											
17											
18											
19											
20											
21											
22											
23											
24	0.870	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.0000007	<0.500	<0.500
25											
26											
27											
28											
29											
30											
31	0.486	<0.500	<0.0000004	0.504	0.0000004	<0.500	<0.0000004	<0.500	<0.0000004	<0.500	<0.500

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1 - EFF														
R - INF														
					2x Month	Weekly						2x Month	Weekly	
PARAMETER	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	Total Zinc	Total Zinc
CODE	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092	01092
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1D	RD	1D	RD	1	1	1	R	1	1	R	1	1	1
UNIT	ng/L	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
1														
2														
3	<0.500	<0.500	<0.500	<0.500	<25	14.4	0.030	105	<1.0	<0.002	<1.0	110	<10.0	<0.021
4														
5														
6														
7														
8														
9														
10	<0.500	<0.500	<0.500	<0.500	<25	18.3	0.024	105	1.1	0.001	1.4	112	<10.0	<0.013
11														
12														
13														
14														
15	<0.500	<0.500	<0.500	<0.500		15.3	0.014	111	<1.0	<0.001	1.4		<10.0	<0.01
16														
17														
18														
19														
20														
21														
22														
23														
24	<0.500	<0.500	<0.500	<0.500		16.9	0.023	108	<1.0	<0.001	<1.0		<10.0	<0.01
25														
26														
27														
28														
29														
30														
31	<0.500	<0.500	<0.500	<0.500		18.1	0.014	114	<1.0	<0.001	<1.0		<10.0	<0.01

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1 - EFF												
R - INF												
	Monthly				Weekly		Daily	Monthly	Daily			
PARAMETER	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	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1							37.1		Yes	7.52	8.71	12.63
2							37.2		Yes	7.61	8.56	12.49
3					135	289	37.1	118	Yes	7.87	8.93	11.91
4							37.1		Yes	7.90	8.47	11.90
5							37.3		Yes	7.45	8.32	11.36
6							37.2		Yes	7.72	8.54	11.76
7							36.9		Yes	7.78	8.49	11.92
8							37.1		Yes	7.53	8.47	12.06
9							37.0		Yes	7.39	8.57	12.33
10					139	270	36.7	120	Yes	7.91	8.51	12.37
11							36.9		Yes	6.79	8.57	11.85
12							37.2		Yes	6.99	8.56	11.72
13							36.7		Yes	7.77	8.45	11.15
14							36.6		Yes	7.79	8.49	12.29
15					131	270	36.8		Yes	7.96	8.47	11.40
16												
17												
18												
19							36.7		Yes	7.26	8.96	
20							37.2		Yes	7.80	8.45	11.89
21							37.3		Yes	8.08	8.47	11.20
22							37.5		Yes	7.85	8.62	10.80
23							37.7		Yes	8.28	8.39	11.00
24					140	280	37.7		Yes	7.03	8.49	12.24
25	0	0	0	1			37.1		Yes	8.30	8.38	12.10
26							37.6		Yes	7.61	8.65	12.10
27							37.0		Yes	7.92	8.47	11.41
28							37.1		Yes	7.92	8.58	11.13
29							37.0		Yes	7.80	8.57	11.86
30							37.2		Yes	7.94	8.49	11.53
31					134	264	37.5		Yes	7.23	8.55	11.45

1 - EFF							
R - INF							
	Daily	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)
CODE	50050	00530	00530	70295	70295	00310	00610
Monitoring Point	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	R	1	1
UNIT	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1	0.49						
2	0.43						
3	0.43	<3.3	<3.3	300	560	5.0	0.19
4	0.46						
5	0.42						
6	0.46						
7	0.51						
8	0.35						
9	0.27						
10	0.30	<3.3	<3.3	290	550	4.3	0.18
11	0.26						
12	0.33						
13	0.48						
14	0.48						
15	0.18	<3.3	<3.3	260	540		0.15
16	0.00						
17	0.00						
18	0.00						
19	0.16						
20	0.46						
21	0.53						
22	0.49						
23	0.13						
24	0.36	<3.3	3.6	300	570		0.18
25	0.24						
26	0.56						
27	0.53						
28	0.51						
29	0.53						
30	0.52						
31	0.20	<3.3	4	250	560		0.20

Weekly		Daily	Weekly		2x Month	Weekly	
Total Phosphorus (as P)	Total Phosphorus (as P)	Total Residual Chlorine	Available Cyanide	Available Cyanide	Total Antimony	Total Arsenic	Total Arsenic
00665	00665	50060	01257	01257	01097	01002	01002
002A	002A	002A	002A	002A	002A	002A	002A
1	1	1	1	1	1	1	1
mg/L	lbs/day	µg/L	µg/L	lbs/day	ug/L	µg/L	lbs/day
		5					
		10					
0.011	0.039	3	<2.0	<0.007	1.0	<1.0	<0.004
		0					
		2					
		6					
		5					
		7					
		6					
0.012	0.030	12	<2.0	<0.005	<1.0	<1.0	<0.003
		1					
		3					
		2					
		0					
<0.010	<0.015	3	2.0	0.003		<1.0	<0.002
		0					
		0					
		0					
		7					
		3					
		5					
		0					
		4					
<0.010	<0.030	5	<2.0	<0.006		<1.0	<0.003
		3					
		2					
		18					
		1					
		6					
		5					
0.011	0.0183	3	<2.0	<0.003		<1.0	<0.002

2x Month		Weekly		2x Month	Weekly			
Total Barium	Total Boron	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper
01007	01022	01027	01027	01034	01037	01037	01042	01042
002A	002A	002A	002A	002A	002A	002A	002A	002A
1	1	1	1	1	1	1	1	1
ug/L	ug/L	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day
7.3	150	<0.20	<0.001	<1.0	<1.0	<0.004	<1.0	<0.004
7.0	133	<.20	<0.001	<1.0	<1.0	<0.003	<1.0	<0.003
		<0.20	<0.0003		<1.0	<0.002	<1.0	<0.002
		<.20	<0.001		<1.0	<0.003	<1.0	<0.003
		<0.20	<0.0003		<1.0	<0.002	<1.0	<0.002

	2x Month	Weekly		2x Month			
Total Copper	Fluoride	Total Lead	Total Lead	Total Lithium	Total Manganese	Total Manganese	Total Mercury
01042	00951	01051	01051	01132	01055	01055	71900
002A	002A	002A	002A	002A	002A	002A	002A
R	1	1	1	1	1	1	1
ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ng/L
4.8	<100	<1.0	<0.004	<8.0	616	2.209	<0.500
4.9	<100	<1.0	<0.003	<8.0	638	1.596	<0.500
4.2		<1.0	<0.002		587	0.881	<0.500
4.0		<1.0	<0.003		652	1.958	<0.500
4.4		<1.0	<0.002		648	1.081	<0.500

Weekly

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)
71900	71900	71900	7190a	7190a	7190a	7190a	7190b
002A	002A	002A	002A	002A	002A	002A	002A
1	R	R	1D	1D	RD	RD	1D
lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L
<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500
<0.000001	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.000001	<0.500
<0.000008	0.515	0.000008	<0.500	<0.000008	<0.500	<0.000008	<0.500
<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500
<0.0000008	0.504	0.0000008	<0.500	<0.0000008	<0.500	<0.0000008	<0.500

					2x Month		
Mercury (field duplicate)	Mercury (field blank)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenu m	Total Nickel	Total Nickel
7190b	7190c	7190c	7190d	7190d	01062	01067	01067
002A	002A	002A	002A	002A	002A	002A	002A
RD	1D	RD	1D	RD	1	1	1
ng/L	ng/L	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day
<0.500	<0.500	<0.500	<0.500	<0.500	<25	14.4	0.052
<0.500	<0.500	<0.500	<0.500	<0.500	<25	18.3	0.046
<0.500	<0.500	<0.500	<0.500	<0.500		15.3	0.023
<0.500	<0.500	<0.500	<0.500	<0.500		16.9	0.051
<0.500	<0.500	<0.500	<0.500	<0.500		18.1	0.030

Weekly				2x Month	Weekly		Acute Toxicity (ceriodaphnia dubia)
Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc	Total Zinc	
01067	01147	01147	01147	01082	01092	01092	61425
002A	002A	002A	002A	002A	002A	002A	001A
R	1	1	R	1	1	1	1
ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	TUA
105	<1.0	<0.004	<1.0	110	<10.0	<0.04	
105	1.1	0.003	1.4	112	<10.0	<0.03	
111	<1.0	<0.002	1.4		<10.0	<0.02	
108	<1.0	<0.003	<1.0		<10.0	<0.03	0
114	<1.0	<0.002	<1.0		<10.0	<0.02	

Monthly			Weekly		Daily	Monthly	
Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations
TS16C	TTK6C	03599	00945	00945	00011	00900	84130
001A	001A	001A	002A	002A	002A	002A	002A
1	1	1	1	R	1	1	1
TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no
					37.1		Yes
					37.2		Yes
			135	289	37.1	118	Yes
					37.1		Yes
					37.3		Yes
					37.2		Yes
					36.9		Yes
					37.1		Yes
					37.0		Yes
			139	270	36.7	120	Yes
					36.9		Yes
					37.2		Yes
					36.7		Yes
					36.6		Yes
			131	270	36.8		Yes
					36.7		Yes
					37.2		Yes
					37.3		Yes
					37.5		Yes
					37.7		Yes
			140	280	37.7		Yes
0	0	1			37.1		Yes
					37.6		Yes
					37.0		Yes
					37.1		Yes
					37.0		Yes
					37.2		Yes
			134	264	37.5		Yes

Daily

pH Minimum	pH Maximum	Dissolved Oxygen
00400	00400	00300
002A	002A	002A
1	1	1
S.U.	S.U.	mg/L
7.52	8.71	12.63
7.61	8.56	12.49
7.87	8.93	11.91
7.90	8.47	11.90
7.45	8.32	11.36
7.72	8.54	11.76
7.78	8.49	11.92
7.53	8.47	12.06
7.39	8.57	12.33
7.91	8.51	12.37
6.79	8.57	11.85
6.99	8.56	11.72
7.77	8.45	11.15
7.79	8.49	12.29
7.96	8.47	11.40
7.26	8.96	
7.80	8.45	11.89
8.08	8.47	11.20
7.85	8.62	10.80
8.28	8.39	11.00
7.03	8.49	12.24
8.30	8.38	12.10
7.61	8.65	12.10
7.92	8.47	11.41
7.92	8.58	11.13
7.80	8.57	11.86
7.94	8.49	11.53
7.23	8.55	11.45