City of Calistoga
NPDES Permit Reissuance
WQBEL Calculation

PRIORITY POLLUTANTS	**Copper**	**Mercury**	**Cyanide**	**Chlorodibromo-methane**	**Dichlorobromo-methane**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Basis and Criteria type	BP FW	BP FW (4-d, 1-hr avg)	NTR FW	CTR Hh	CTR HH
Lowest WQO	6.50	0.025	5.20	0.41	0.56
Translators					
Dilution Factor (D) (if applicable)	0	0	0	0	0
No. of samples per month	4	4	4	4	4
Aquatic life criteria analysis required? (Y/N)	Y	Y	Y	N	N
HH criteria analysis required? (Y/N)	N	Y	Y	Y	Y
Applicable Acute WQO	9.30	2.4	22	na	na
Applicable Chronic WQO	6.50	0.025	5.2	na	na
HH criteria		0.5	700	0.41	0.56
Background (max conc for Aq Life calc)	1.1	0.015	0.197		
Background (avg conc for HH calc)			0.25	0.24	0.33
Is the pollutant Bioaccumulative(Y/N)? (e.g., Hg)	N	Y	N	N	N
ECA acute	93.0	2.4	22		
ECA chronic	6.5	0.025	5.2		
ECA HH		0.5	700	0.41	0.56
No. of data points <10 or at least 80% of data reported non detect? (Y/N)	N	N	N	Y	Y
Avg of effluent data points	4.637	0.0029	2.8981		
Std Dev of effluent data points	1.905	0.0019	2.1934		
CV calculated	0.41	0.67	0.76	N/A	N/A
CV (Selected) - Final	0.41	0.67	0.76	0.6	0.6
ECA acute mult99	0.43	0.29	0.26		
ECA chronic mult99	0.64	0.49	0.46		
LTA acute	40.12	0.70	5.77		
LTA chronic	4.14	0.012	2.37		
minimum of LTAs	4.14	0.012	2.37		
AMEL mult95	1.37	1.62	1.71	1.55	1.55
MDEL mult99	2.32	3.43	3.81	3.11	3.11
AMEL (aq life)	5.66	0.020	4.05		
MDEL(aq life)	9.59	0.042	9.06		
MDEL/AMEL Multiplier	1.69	2.11	2.23	2.01	2.01
AMEL (human hlth)		0.500	700	0.410	0.560
MDEL (human hlth)		1.057	1564	0.823	1.123
minimum of AMEL for Aq. life vs HH	5.7	0.02	4.05	0.410	0.560
minimum of MDEL for Aq. Life vs HH	9.6	0.042	9.06	0.823	1.123
Final limit - AMEL	5.7	0.020	4.1	0.41	0.56
Final limit - MDEL	9.6	0.042	9.1	0.82	1.12
Max Effl Conc (MEC)	9.0	0.0074	9.2	5	13
Feasibility to comply?	**No**	**Yes**	**No**	**No**	**No**
Inteirm limit	14.7	NA	21.6	9.5	23
Distribution	lognormal	lognormal	lognormal	lognormal	lognormal
lg mean	1.455	-6.075	0.862	1.25	2.331
lg stdev	0.4089	0.7047	0.737	0.3345	0.2693
95th percentile	8.4	0.0073	8.0	6.1	16.0
99th percentile	11.1	0.0118	13.1	7.6	19.2

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