

Fact Sheet Attachment 6

City of Petaluma
Mercury Mass Trigger Calculation

Date	Pond Influent (mgd)	E-001 Flow (mgd)	Reclamation Flow (mgd)	Hg	Load (kg/mo)	Moving Avg Flow (mgd)	Moving Avg Hg Con. (ug/L)	Mass Loading (kg/mo)
Jan-00	5.845	5.5765	0.047	0.00654	0.004198			
Feb-00	8.548	5.19	0	0.0101	0.006033			
Mar-00	6.687	6.845	0	0.0101	0.007957			
Apr-00	5.498	3.8623	0.087	0.0103	0.004579			
May-00	5.048	1.9494	3.077	0.00452	0.001014			
Jun-00	4.776	0.2764	5.509	0.00554	0.000176			
Jul-00	4.677	0	5.42	0.00593	0			
Aug-00	4.743	0	5.353	0.00421	0			
Sep-00	4.820	0	4.23	0.0043	0			
Oct-00	5.050	0	1.94	0.0044	0			
Nov-00	5.000	6.3	0.05	0.0046	0.003336			
Dec-00	4.890	7.06	0	0.0055	0.004469	3.088	0.006	0.0023
Jan-01	5.260	6.51	0.045	0.0061	0.004571	3.166	0.006	0.0023
Feb-01	7.590	6.11	0	0.0065	0.004571	3.243	0.006	0.0022
Mar-01	6.360	6.58	0.13	0.0073	0.005529	3.221	0.006	0.0021
Apr-01	4.980	4.47	0.27	0.0052	0.002675	3.271	0.005	0.0020
May-01	4.860	0	5.24	0.0065	0	3.109	0.006	0.0020
Jun-01	4.790	0	5.63	0.0038	0	3.086	0.005	0.0019
Jul-01	4.630	0	4.67	0.0035	0	3.086	0.005	0.0018
Aug-01	4.620	0	4.05	0.0035	0	3.086	0.005	0.0018
Sep-01	4.580	0	3.44	0.003	0	3.086	0.005	0.0018
Oct-01	4.580	0	2.93	0.0034	0	3.086	0.005	0.0017
Nov-01	6.870	6.3	0	0.0037	0.002683	3.086	0.005	0.0017
Dec-01	9.101	9.112	0	0.0048	0.005034	3.257	0.005	0.0018
Jan-02	7.280	8.96	0	0.0066	0.006807	3.461	0.005	0.0019
Feb-02	6.029	7.62	0	0.0065	0.005701	3.587	0.005	0.0020
Mar-02	5.138	7.542	0	0.0061	0.005295	3.667	0.005	0.0020
Apr-02	4.962	4.289	0.965	0.0005	0.000247	3.652	0.004	0.0018
May-02	5.392	0	4.015	0.0057	0	3.652	0.004	0.0018
Jun-02	5.083	0	5.881	0.0036	0	3.652	0.004	0.0018
Jul-02	4.820	0	5.468	0.0045	0	3.652	0.004	0.0018
Aug-02	4.720	0	5.809	0.0063	0	3.652	0.005	0.0019
Sep-02	5.891	0	3.969	0.0071	0	3.652	0.005	0.0021
Oct-02	5.068	0	1.08	0.0061	0	3.652	0.005	0.0022
Nov-02	5.030	6.016	0	0.0056	0.003878	3.628	0.005	0.0022
Dec-02	8.230	9.4	0	0.0057	0.006167	3.652	0.005	0.0023
Jan-03	6.255	9.482	0	0.0084	0.009168	3.696	0.006	0.0023
Feb-03	5.530	7.33	0	0.0059	0.004978	3.672	0.005	0.0023
Mar-03	5.659	6.691	0	0.01	0.007701	3.601	0.006	0.0024
Apr-03	5.760	5.109	0.036	0.021	0.012349	3.669	0.007	0.0032
May-03	5.361	2.779354839	1.905935484	0.0057	0.001823	3.901	0.007	0.0034
Jun-03	4.934	0	4.934		0	3.901	0.008	0.0035
Jul-03	4.553	0	5.72		0	3.901	0.008	0.0037
Aug-03	4.312	0	4.804		0	3.901	0.008	0.0038
Sep-03	4.302	0	4.323		0	3.901	0.009	0.0038
Oct-03	4.257	0	2.613		0	3.901	0.009	0.0040
Nov-03	4.650	8.77	0	0.0043	0.004341	4.130	0.009	0.0041
Dec-03	6.673	10.3	0	0.0055	0.00652	4.205	0.009	0.0042
Jan-04	6.380	10.16	0	0.014	0.016372	4.262	0.009	0.0047
Feb-04	7.704	10.27	0	0.0089	0.01052	4.507	0.010	0.0051
Mar-04	5.910	8.583	0.006	0.0065	0.006421	4.664	0.009	0.0051

Avg Mass Loading	0.0021
Mass trigger=Max Mass Loading	0.0051