Appendix F **Table F.1 Cd column influent and effluent Cd concentrations.**

Days since start	Cd Influent (mg/L)	s of triplicate influent samples	Cd Effluent (L7) (mg/L)	s of triplicate effluent samples	Percent Removed
3	1.643	0.038	1.340	0.010	18.458
13	1.637	0.021	1.607	0.038	1.833
22	1.497	0.025	1.907	0.021	-27.394
25	1.677	0.047	1.553	0.015	7.356
30	1.650	0.017	1.480	0.056	10.303
32	1.463	0.023	1.420	0.030	2.961
35	1.707	0.012	1.493	0.031	12.500
37	1.840	0.021	1.970	0.015	-7.065
39	1.783	0.020	1.943	0.012	-9.013
44	1.580	0.021	1.263	0.032	20.042
49	1.563	0.021	1.090	0.026	30.277
51	1.563	0.085	2.287	0.015	-46.269
57	1.720	0.020	1.630	0.017	5.233
59	3.113	0.068	2.910	0.010	6.531
62	3.280	0.032	3.167	0.061	3.455
64	3.333	0.012	3.167	0.017	5.000
66	3.543	0.006	3.733	0.025	-5.362
70	3.053	0.000	3.080	0.012	-0.873
73	4.033	0.006	3.580	0.020	11.240
75	4.237	0.047	4.223	0.017	0.315
79	3.850	0.006	4.317	0.035	-12.121
85	4.537	0.032	4.370	0.020	3.674
87	4.400	0.032	4.377	0.023	0.530
89	4.823	0.006	5.160	0.006	-6.980
94	5.377	0.047	5.207	0.012	3.162
98	6.320	0.021	6.080	0.006	3.797
101	6.513	0.035	5.700	0.020	12.487
114	6.490	0.036	6.967	0.031	-7.345
115	8.583	0.015	8.330	0.036	2.951
120	8.523	0.035	8.083	0.012	5.162
122	8.283	0.012	7.760	0.025	6.318
124	7.743	0.012	8.437	0.006	-8.954
126	8.330	0.042	7.887	0.040	5.322
128	7.977	0.025	7.797	0.015	2.257
137	8.487	0.025	8.017	0.015	5.538
142	7.907	0.021	7.310	0.057	7.546
144	9.187	0.021	8.260	0.023	10.087
147	7.667	0.057	7.547	0.065	1.565
151	4.827	0.026	5.477	0.017	-13.467
154	4.400	0.032	4.543	0.026	-3.258
156	5.250	0.035	5.200	0.049	0.952
158	5.147	0.000	5.120	0.060	0.518
161	4.583	0.065	4.767	0.020	-4.000
163	4.807	0.021	4.537	0.038	5.617
165	4.907	0.044	4.603	0.012	6.182
168	4.813	0.021	5.123	0.012	-6.440
172	5.450	0.000	5.013	0.006	8.012
175	5.017	0.012	5.020	0.021	-0.066
182	5.023	0.017	5.337	0.012	-6.238
184	5.850	0.015	5.923	0.036	-1.254
186	5.003	0.025	5.013	0.021	-0.200
189	4.663	0.021	4.713	0.012	-1.072
193	2.687	0.017	4.853	0.006	-80.645
196	2.327	0.012	3.387	0.006	-45.559
198	2.533	0.015	3.050	0.010	-20.395
200	2.710	0.026	3.657	0.025	-34.932
204	2.523	0.046	3.200	0.010	-26.816
266	1.827	0.021	1.723	0.023	5.657

Appendix F **Table F.1 Cd column influent and effluent Cd concentrations.**

Calculations used on Cd data

Calculations

Account for dilution:

$$x * 10$$

Account for dilution and instrument drift:

$$(\mathrm{x} - \mathrm{drift}) * 10$$

Avg, $\bar{x}$ = average of triplicate analysis:

$$\bar{x} = \frac{(x_1 + x_2 + x_3)}{n}$$

where
n = number of observation
x_1 = value no. 1

s =standard deviation of triplicate analysis

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

where:
x = K^+ concentration
n = number of observations

Cd % removed:

$$\%\,\mathrm{Removed} = \frac{[\mathrm{Cd}]_{\mathrm{inf}} - [\mathrm{Cd}]_{\mathrm{eff}}}{[\mathrm{Cd}]_{\mathrm{inf}}} * 100$$

where
$[Cd]_{inf}$ = influent PCP conc. (mg/L)
$[Cd]_{eff}$ = efflunet PCP conc. (mg/L)

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations.**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7								
3	L1	-0.016	-0.016	-0.016	-0.160	-0.160	-0.160	-0.160	0.000
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7								
	L6	0.135	0.134	0.133	1.350	1.340	1.330	1.340	0.010
	L5	0.141	0.145	0.143	1.410	1.450	1.430	1.430	0.020
	L4	0.150	0.154	0.151	1.500	1.540	1.510	1.517	0.021
	L3	0.151	0.154	0.156	1.510	1.540	1.560	1.537	0.025
	L2	0.159	0.163	0.161	1.590	1.630	1.610	1.610	0.020
	L1	0.160	0.166	0.167	1.600	1.660	1.670	1.643	0.038

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.015	-0.015	-0.016	-0.150	-0.150	-0.160	-0.153	0.006
13	L1	-0.018	-0.014	-0.014	-0.180	-0.140	-0.140	-0.153	0.023
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.159	0.165	0.158	1.590	1.650	1.580	1.607	0.038
	L6	0.159	0.158	0.159	1.590	1.580	1.590	1.587	0.006
	L5	0.156	0.160	0.158	1.560	1.600	1.580	1.580	0.020
	L4	0.162	0.161	0.159	1.620	1.610	1.590	1.607	0.015
	L3	0.155	0.157	0.157	1.550	1.570	1.570	1.563	0.012
	L2	0.160	0.161	0.160	1.600	1.610	1.600	1.603	0.006
	L1	0.162	0.163	0.166	1.620	1.630	1.660	1.637	0.021

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.019	-0.015	-0.016	-0.190	-0.150	-0.160	-0.167	0.021
22	L1	-0.032	-0.014	-0.014	-0.320	-0.140	-0.140	-0.200	0.104
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.190	0.189	0.193	1.900	1.890	1.930	1.907	0.021
	L6	0.156	0.160	0.162	1.560	1.600	1.620	1.593	0.031
	L5	0.159	0.159	0.162	1.590	1.590	1.620	1.600	0.017
	L4	0.155	0.157	0.159	1.550	1.570	1.590	1.570	0.020
	L3	0.156	0.155	0.152	1.560	1.550	1.520	1.543	0.021
	L2	0.154	0.157	0.150	1.540	1.570	1.500	1.537	0.035
	L1	0.147	0.152	0.150	1.470	1.520	1.500	1.497	0.025

Table F.1a. Cd column influent and effluent Cd concentrations. (continued)

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.014	-0.013	-0.011	-0.140	-0.130	-0.110	-0.127	0.015
25	L1	-0.015	-0.012	-0.013	-0.150	-0.120	-0.130	-0.133	0.015
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.154	0.155	0.157	1.540	1.550	1.570	1.553	0.015
	L1	0.164	0.166	0.173	1.640	1.660	1.730	1.677	0.047

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.014	-0.016	-0.017	-0.140	-0.160	-0.170	-0.157	0.015
30	L1	-0.018	-0.013	-0.020	-0.180	-0.130	-0.200	-0.170	0.036
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.142	0.149	0.153	1.420	1.490	1.530	1.480	0.056
	L6	0.147	0.146	0.147	1.470	1.460	1.470	1.467	0.006
	L5	0.151	0.155	0.155	1.510	1.550	1.550	1.537	0.023
	L4	0.150	0.152	0.158	1.500	1.520	1.580	1.533	0.042
	L3	0.153	0.151	0.154	1.530	1.510	1.540	1.527	0.015
	L2	0.149	0.150	0.149	1.490	1.500	1.490	1.493	0.006
	L1	0.164	0.167	0.164	1.640	1.670	1.640	1.650	0.017

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.017	-0.011	-0.011	-0.170	-0.110	-0.110	-0.130	0.035
32	L1	-0.012	-0.007	-0.010	-0.120	-0.070	-0.100	-0.097	0.025
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.139	0.142	0.145	1.390	1.420	1.450	1.420	0.030
	L1	0.145	0.145	0.149	1.450	1.450	1.490	1.463	0.023

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.016	-0.014	-0.009	-0.160	-0.140	-0.090	-0.130	0.036
35	L1	-0.007	-0.009	-0.007	-0.070	-0.090	-0.070	-0.077	0.012
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.150	0.152	0.146	1.500	1.520	1.460	1.493	0.031
	L1	0.172	0.170	0.170	1.720	1.700	1.700	1.707	0.012

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.010	-0.009	-0.012	-0.100	-0.090	-0.120	-0.103	0.015
57	L1	-0.009	-0.005	-0.008	-0.090	-0.050	-0.080	-0.073	0.021
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.164	0.164	0.161	1.640	1.640	1.610	1.630	0.017
	L1	0.170	0.172	0.174	1.700	1.720	1.740	1.720	0.020

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.006	0.008	0.006	#REF!	#REF!	#REF!	#REF!	#REF!
73	L1	0.003	0.005	0.012	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.372	0.374	0.370	3.580	3.600	3.560	3.580	0.020
	L6	0.370	0.370	0.367	3.560	3.560	3.530	3.550	0.017
	L5	0.380	0.383	0.383	3.660	3.690	3.690	3.680	0.017
	L4	0.382	0.381	0.378	3.680	3.670	3.640	3.663	0.021
	L3	0.388	0.388	0.397	3.740	3.740	3.830	3.770	0.052
	L2	0.399	0.402	0.408	3.850	3.880	3.940	3.890	0.046
	L1	0.417	0.418	0.417	4.030	4.040	4.030	4.033	0.006

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.008	0.008	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
70	L1	0.007	0.009	0.006	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.323	0.323	0.325	#REF!	#REF!	#REF!	#REF!	#REF!
	L1	0.321	0.321	0.321	#REF!	#REF!	#REF!	#REF!	#REF!

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.018	0.009	0.017	#REF!	#REF!	#REF!	#REF!	#REF!
64	L1	0.015	0.018	0.017	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.337	0.334	0.334	3.187	3.157	3.157	3.167	0.017
	L1	0.353	0.351	0.351	3.347	3.327	3.327	3.333	0.012

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.019	0.018	0.026	#REF!	#REF!	#REF!	#REF!	#REF!
62	L1	0.015	0.015	0.019	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.342	0.332	0.331	3.237	3.137	3.127	3.167	0.061
	L1	0.350	0.344	0.345	3.317	3.257	3.267	3.280	0.032

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.012	0.016	0.021	#REF!	#REF!	#REF!	#REF!	#REF!
59	L1	0.011	0.024	0.019	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.306	0.305	0.307	2.910	2.900	2.920	2.910	0.010
	L6	0.322	0.032	0.318	3.070	0.167	3.030	2.089	1.665
	L5	0.328	0.319	0.331	3.130	3.040	3.160	3.110	0.062
	L4	0.328	0.334	0.332	3.130	3.190	3.170	3.163	0.031
	L3	0.330	0.331	0.331	3.150	3.160	3.160	3.157	0.006
	L2	0.324	0.323	0.329	3.090	3.080	3.140	3.103	0.032
	L1	0.334	0.324	0.321	3.190	3.090	3.060	3.113	0.068

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.018	0.016	0.018	#REF!	#REF!	#REF!	#REF!	#REF!
51	L1	0.017	0.015	0.022	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.249	0.251	0.248	2.283	2.303	2.273	2.287	0.015
	L6	0.204	0.208	0.210	1.833	1.873	1.893	1.867	0.031
	L5	0.207	0.212	0.212	1.863	1.913	1.913	1.897	0.029
	L4	0.203	0.203	0.203	1.823	1.823	1.823	1.823	0.000
	L3	0.199	0.207	0.200	1.783	1.863	1.793	1.813	0.044
	L2	0.189	0.193	0.189	1.683	1.723	1.683	1.697	0.023
	L1	0.178	0.168	0.185	1.573	1.473	1.643	1.563	0.085

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.017	0.015	0.018	#REF!	#REF!	#REF!	#REF!	#REF!
49	L1	0.017	0.019	0.014	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.125	0.130	0.126	1.070	1.120	1.080	1.090	0.026
	L1	0.172	0.175	0.176	1.540	1.570	1.580	1.563	0.021

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.020	0.024	0.020	#REF!	#REF!	#REF!	#REF!	#REF!
44	L1	0.019	0.021	0.022	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.152	0.151	0.146	1.287	1.277	1.227	1.263	0.032
	L6	0.186	0.190	0.189	1.627	1.667	1.657	1.650	0.021
	L5	0.187	0.187	0.191	1.637	1.637	1.677	1.650	0.023
	L4	0.191	0.196	0.190	1.677	1.727	1.667	1.690	0.032
	L3	0.186	0.191	0.188	1.627	1.677	1.647	1.650	0.025
	L2	0.189	0.186	0.187	1.657	1.627	1.637	1.640	0.015
	L1	0.182	0.183	0.179	1.587	1.597	1.557	1.580	0.021

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.050	-0.006	-0.007	-0.500	-0.060	-0.070	-0.210	0.251
94	L1	-0.012	-0.010	-0.009	-0.120	-0.100	-0.090	-0.103	0.015
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.520	0.522	0.520	5.200	5.220	5.200	5.207	0.012
	L6	0.560	0.562	0.565	5.600	5.620	5.650	5.623	0.025
	L5	0.662	0.664	0.660	6.620	6.640	6.600	6.620	0.020
	L4	0.608	0.604	0.608	6.080	6.040	6.080	6.067	0.023
	L3	0.529	0.526	0.522	5.290	5.260	5.220	5.257	0.035
	L2	0.505	0.503	0.507	5.050	5.030	5.070	5.050	0.020
	L1	0.536	0.534	0.543	5.360	5.340	5.430	5.377	0.047

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.001	-0.002	-0.003	-0.010	-0.020	-0.030	-0.020	0.010
114	L1	-0.003	0.001	-0.003	-0.030	0.010	-0.030	-0.017	0.023
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.696	0.694	0.700	6.960	6.940	7.000	6.967	0.031
	L1	0.652	0.650	0.645	6.520	6.500	6.450	6.490	0.036

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.003	0.003	0.002	#REF!	#REF!	#REF!	#REF!	#REF!
122	L1	0.002	0.004	0.004	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.781	0.783	0.786	7.737	7.757	7.787	7.760	0.025
	L6	0.832	0.829	0.824	8.247	8.217	8.167	8.210	0.040
	L5	0.823	0.821	0.827	8.157	8.137	8.197	8.163	0.031
	L4	0.843	0.850	0.842	8.357	8.427	8.347	8.377	0.044
	L3	0.850	0.852	0.853	8.427	8.447	8.457	8.443	0.015
	L2	0.830	0.829	0.828	8.227	8.217	8.207	8.217	0.010
	L1	0.835	0.835	0.837	8.277	8.277	8.297	8.283	0.012

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.007	0.010	0.009	#REF!	#REF!	#REF!	#REF!	#REF!
120	L1	0.007	0.005	0.008	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.818	0.820	0.818	8.077	8.097	8.077	8.083	0.012
	L1	0.863	0.866	0.859	8.527	8.557	8.487	8.523	0.035

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.013	0.012	0.012	#REF!	#REF!	#REF!	#REF!	#REF!
87	L1	0.009	0.011	0.010	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.450	0.454	0.450	4.363	4.403	4.363	4.377	0.023
	L6	0.478	0.477	0.479	4.643	4.633	4.653	4.643	0.010
	L5	0.450	0.450	0.449	4.363	4.363	4.353	4.360	0.006
	L4	0.479	0.483	0.485	4.653	4.693	4.713	4.687	0.031
	L3	0.466	0.466	0.462	4.523	4.523	4.483	4.510	0.023
	L2	0.476	0.478	0.480	4.623	4.643	4.663	4.643	0.020
	L1	0.456	0.455	0.450	4.423	4.413	4.363	4.400	0.032

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.015	0.012	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
101	L1	0.014	0.015	0.016	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.584	0.586	0.588	5.680	5.700	5.720	5.700	0.020
	L6	0.605	0.607	0.604	5.890	5.910	5.880	5.893	0.015
	L5	0.615	0.610	0.612	5.990	5.940	5.960	5.963	0.025
	L4	0.610	0.612	0.607	5.940	5.960	5.910	5.937	0.025
	L3	0.623	0.620	0.626	6.070	6.040	6.100	6.070	0.030
	L2	0.640	0.638	0.635	6.240	6.220	6.190	6.217	0.025
	L1	0.664	0.667	0.671	6.480	6.510	6.550	6.513	0.035

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.017	0.020	0.018	#REF!	#REF!	#REF!	#REF!	#REF!
124	L1	0.019	0.018	0.019	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.864	0.864	0.863	8.440	8.440	8.430	8.437	0.006
	L1	0.795	0.795	0.793	7.750	7.750	7.730	7.743	0.012

Table F.1a. Cd column influent and effluent Cd concentrations. (continued)

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.018	0.019	0.022	#REF!	#REF!	#REF!	#REF!	#REF!
126	L1	0.018	0.020	0.021	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.809	0.805	0.813	7.887	7.847	7.927	7.887	0.040
	L1	0.858	0.850	0.852	8.377	8.297	8.317	8.330	0.042

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.014	0.012	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
75	L1	0.017	0.017	0.018	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.448	0.451	0.448	4.213	4.243	4.213	4.223	0.017
	L1	0.445	0.452	0.454	4.183	4.253	4.273	4.237	0.047

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.007	-0.009	-0.010	-0.070	-0.090	-0.100	-0.087	0.015
66	L1	-0.011	-0.011	-0.010	-0.110	-0.110	-0.100	-0.107	0.006
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.376	0.373	0.371	3.760	3.730	3.710	3.733	0.025
	L6	0.334	0.333	0.336	3.340	3.330	3.360	3.343	0.015
	L5	0.322	0.323	0.321	3.220	3.230	3.210	3.220	0.010
	L4	0.328	0.323	0.329	3.280	3.230	3.290	3.267	0.032
	L3	0.329	0.326	0.326	3.290	3.260	3.260	3.270	0.017
	L2	0.330	0.329	0.330	3.300	3.290	3.300	3.297	0.006
	L1	0.354	0.355	0.354	3.540	3.550	3.540	3.543	0.006

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.003	-0.007	-0.006	-0.030	-0.070	-0.060	-0.053	0.021
115	L1	0.020	0.014	0.016	0.200	0.140	0.160	0.167	0.031
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.830	0.837	0.832	8.300	8.370	8.320	8.330	0.036
	L1	0.857	0.858	0.860	8.570	8.580	8.600	8.583	0.015

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.004	-0.004	-0.004	#REF!	#REF!	#REF!	#REF!	#REF!
98	L1	-0.006	-0.004	-0.007	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.606	0.605	0.606	6.083	6.073	6.083	6.080	0.006
	L1	0.629	0.632	0.628	6.313	6.343	6.303	6.320	0.021

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.004	-0.005	-0.004	#REF!	#REF!	#REF!	#REF!	#REF!
89	L1	-0.002	-0.004	-0.001	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.515	0.515	0.516	5.157	5.157	5.167	5.160	0.006
	L1	0.481	0.482	0.482	4.817	4.827	4.827	4.823	0.006

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.003	-0.004	-0.001	-0.030	-0.040	-0.010	-0.027	0.015
85	L1	-0.002	-0.005	-0.005	-0.020	-0.050	-0.050	-0.040	0.017
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.435	0.439	0.437	4.350	4.390	4.370	4.370	0.020
	L1	0.456	0.455	0.450	4.560	4.550	4.500	4.537	0.032

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.010	-0.011	-0.009	#REF!	#REF!	#REF!	#REF!	#REF!
79	L1	-0.010	-0.013	-0.011	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.433	0.427	0.427	4.357	4.297	4.297	4.317	0.035
	L6	0.447	0.452	0.446	4.497	4.547	4.487	4.510	0.032
	L5	0.403	0.409	0.405	4.057	4.117	4.077	4.083	0.031
	L4	0.440	0.439	0.438	4.427	4.417	4.407	4.417	0.010
	L3	0.449	0.449	0.447	4.517	4.517	4.497	4.510	0.012
	L2	0.442	0.444	0.437	4.447	4.467	4.397	4.437	0.036
	L1	0.382	0.382	0.383	3.847	3.847	3.857	3.850	0.006

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.003	-0.003	-0.004	#REF!	#REF!	#REF!	#REF!	#REF!
39	L1	-0.004	-0.005	-0.004	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.191	0.193	0.193	1.930	1.950	1.950	1.943	0.012
	L1	0.177	0.178	0.174	1.790	1.798	1.760	1.783	0.020

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	-0.003	-0.005	-0.004	#REF!	#REF!	#REF!	#REF!	#REF!
128	L1	-0.006	-0.006	-0.006	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.777	0.776	0.779	7.793	7.783	7.813	7.797	0.015
	L6	0.692	0.693	0.695	6.943	6.953	6.973	6.957	0.015
	L5	0.883	0.879	0.882	8.853	8.813	8.843	8.837	0.021
	L4	0.804	0.810	0.812	8.063	8.123	8.143	8.110	0.042
	L3	0.644	0.643	0.644	6.463	6.453	6.463	6.460	0.006
	L2	0.686	0.689	0.685	6.883	6.913	6.873	6.890	0.021
	L1	0.795	0.793	0.798	7.973	7.953	8.003	7.977	0.025

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.009	0.014	0.009	#REF!	#REF!	#REF!	#REF!	#REF!
163	L1	0.012	0.014	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.473	0.474	0.480	4.510	4.520	4.580	4.537	0.038
	L6	0.481	0.487	0.492	4.590	4.650	4.700	4.647	0.055
	L5	0.481	0.479	0.482	4.590	4.570	4.600	4.587	0.015
	L4	0.484	0.049	0.487	4.620	0.266	4.650	3.179	2.522
	L3	0.486	0.486	0.487	4.640	4.640	4.650	4.643	0.006
	L2	0.493	0.494	0.491	4.710	4.720	4.690	4.707	0.015
	L1	0.505	0.502	0.501	4.830	4.800	4.790	4.807	0.021

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.023	0.020	0.023	#REF!	#REF!	#REF!	#REF!	#REF!
161	L1	0.026	0.022	0.024	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.503	0.501	0.499	4.787	4.767	4.747	4.767	0.020
	L1	0.476	0.489	0.483	4.517	4.647	4.587	4.583	0.065

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.024	0.030	0.029	#REF!	#REF!	#REF!	#REF!	#REF!
158	L1	0.025	0.028	0.026	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.537	0.530	0.542	5.127	5.057	5.177	5.120	0.060
	L1	0.539	0.539	0.539	5.147	5.147	5.147	5.147	0.000

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.027	0.027	0.034	#REF!	#REF!	#REF!	#REF!	#REF!
165	L1	0.032	0.025	0.027	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.493	0.495	0.493	4.597	4.617	4.597	4.603	0.012
	L1	0.521	0.522	0.529	4.877	4.887	4.957	4.907	0.044

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.027	0.032	0.032	#REF!	#REF!	#REF!	#REF!	#REF!
168	L1	0.030	0.032	0.035	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.545	0.545	0.547	5.117	5.117	5.137	5.123	0.012
	L1	0.517	0.514	0.513	4.837	4.807	4.797	4.813	0.021

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.022	0.025	0.023	#REF!	#REF!	#REF!	#REF!	#REF!
156	L1	0.026	0.029	0.028	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.548	0.556	0.557	5.143	5.223	5.233	5.200	0.049
	L6	0.532	0.536	0.536	4.983	5.023	5.023	5.010	0.023
	L5	0.547	0.533	0.547	5.133	4.993	5.133	5.087	0.081
	L4	0.539	0.533	0.536	5.053	4.993	5.023	5.023	0.030
	L3	0.561	0.561	0.562	5.273	5.273	5.283	5.277	0.006
	L2	0.527	0.541	0.536	4.933	5.073	5.023	5.010	0.071
	L1	0.555	0.559	0.562	5.213	5.253	5.283	5.250	0.035

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.036	0.032	0.031	#REF!	#REF!	#REF!	#REF!	#REF!
154	L1	0.040	0.036	0.040	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.494	0.493	0.498	4.533	4.523	4.573	4.543	0.026
	L1	0.483	0.477	0.482	4.423	4.363	4.413	4.400	0.032

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.037	0.037	0.037	#REF!	#REF!	#REF!	#REF!	#REF!
147	L1	0.037	0.038	0.030	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.789	0.795	0.802	7.483	7.543	7.613	7.547	0.065
	L1	0.809	0.812	0.801	7.683	7.713	7.603	7.667	0.057

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.042	0.042	0.042	#REF!	#REF!	#REF!	#REF!	#REF!
151	L1	0.033	0.036	0.035	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.594	0.591	0.594	5.487	5.457	5.487	5.477	0.017
	L6	0.603	0.609	0.608	5.577	5.637	5.627	5.613	0.032
	L5	0.579	0.581	0.579	5.337	5.357	5.337	5.343	0.012
	L4	0.525	0.522	0.522	4.797	4.767	4.767	4.777	0.017
	L3	0.550	0.558	0.552	5.047	5.127	5.067	5.080	0.042
	L2	0.546	0.555	0.554	5.007	5.097	5.087	5.063	0.049
	L1	0.529	0.530	0.525	4.837	4.847	4.797	4.827	0.026

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.044	0.045	0.042	#REF!	#REF!	#REF!	#REF!	#REF!
142	L1	0.039	0.041	0.039	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.778	0.770	0.767	7.373	7.293	7.263	7.310	0.057
	L6	0.781	0.783	0.786	7.403	7.423	7.453	7.427	0.025
	L5	0.793	0.782	0.781	7.523	7.413	7.403	7.447	0.067
	L4	0.782	0.772	0.777	7.413	7.313	7.363	7.363	0.050
	L3	0.801	0.811	0.807	7.603	7.703	7.663	7.657	0.050
	L2	0.781	0.791	0.790	7.403	7.503	7.493	7.467	0.055
	L1	0.832	0.833	0.829	7.913	7.923	7.883	7.907	0.021

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	-0.018	-0.012	-0.012	-0.180	-0.120	-0.120	-0.140	0.035
186	L1	-0.009	-0.006	-0.007	-0.090	-0.060	-0.070	-0.073	0.015
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.499	0.502	0.503	4.990	5.020	5.030	5.013	0.021
	L1	0.503	0.498	0.500	5.030	4.980	5.000	5.003	0.025

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	-0.013	-0.014	-0.012	-0.130	-0.140	-0.120	-0.130	0.010
200	L1	-0.007	-0.008	-0.011	-0.070	-0.080	-0.110	-0.087	0.021
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.363	0.368	0.366	3.630	3.680	3.660	3.657	0.025
	L1	0.273	0.268	0.272	2.730	2.680	2.720	2.710	0.026

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	-0.014	-0.014	-0.015	-0.140	-0.140	-0.150	-0.143	0.006
204	L1	-0.010	-0.008	-0.017	-0.100	-0.080	-0.170	-0.117	0.047
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.321	0.319	0.320	3.210	3.190	3.200	3.200	0.010
	L1	0.255	0.247	0.255	2.550	2.470	2.550	2.523	0.046

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.012	0.010	0.011	#REF!	#REF!	#REF!	#REF!	#REF!
198	L1	0.007	0.009	0.007	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.311	0.312	0.313	3.040	3.050	3.060	3.050	0.010
	L6	0.324	0.325	0.325	3.170	3.180	3.180	3.177	0.006
	L5	0.330	0.331	0.328	3.230	3.240	3.210	3.227	0.015
	L4	0.332	0.333	0.333	3.250	3.260	3.260	3.257	0.006
	L3	0.329	0.328	0.327	3.220	3.210	3.200	3.210	0.010
	L2	0.331	0.334	0.332	3.240	3.270	3.250	3.253	0.015
	L1	0.260	0.259	0.262	2.530	2.520	2.550	2.533	0.015

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.010	0.010	0.010	#REF!	#REF!	#REF!	#REF!	#REF!
184	L1	0.011	0.010	0.009	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.595	0.600	0.602	5.883	5.933	5.953	5.923	0.036
	L6	0.575	0.576	0.574	5.683	5.693	5.673	5.683	0.010
	L5	0.597	0.598	0.598	5.903	5.913	5.913	5.910	0.006
	L4	0.552	0.553	0.554	5.453	5.463	5.473	5.463	0.010
	L3	0.577	0.583	0.577	5.703	5.763	5.703	5.723	0.035
	L2	0.570	0.571	0.565	5.633	5.643	5.583	5.620	0.032
	L1	0.592	0.593	0.590	5.853	5.863	5.833	5.850	0.015

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.008	0.008	0.008	#REF!	#REF!	#REF!	#REF!	#REF!
193	L1	0.009	0.009	0.009	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.494	0.493	0.494	4.857	4.847	4.857	4.853	0.006
	L6	0.429	0.429	0.429	4.207	4.207	4.207	4.207	0.000
	L5	0.428	0.430	0.430	4.197	4.217	4.217	4.210	0.012
	L4	0.424	0.426	0.423	4.157	4.177	4.147	4.160	0.015
	L3	0.398	0.395	0.399	3.897	3.867	3.907	3.890	0.021
	L2	0.393	0.396	0.393	3.847	3.877	3.847	3.857	0.017
	L1	0.276	0.276	0.279	2.677	2.677	2.707	2.687	0.017

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.011	0.013	0.012	#REF!	#REF!	#REF!	#REF!	#REF!
172	L1	0.010	0.010	0.010	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.512	0.513	0.512	5.010	5.020	5.010	5.013	0.006
	L6	0.520	0.518	0.520	5.090	5.070	5.090	5.083	0.012
	L5	0.528	0.528	0.532	5.170	5.170	5.210	5.183	0.023
	L4	0.532	0.531	0.533	5.210	5.200	5.220	5.210	0.010
	L3	0.542	0.542	0.542	5.310	5.310	5.310	5.310	0.000
	L2	0.539	0.539	0.537	5.280	5.280	5.260	5.273	0.012
	L1	0.556	0.556	0.556	5.450	5.450	5.450	5.450	0.000

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.012	0.013	0.013	#REF!	#REF!	#REF!	#REF!	#REF!
37	L1	0.014	0.013	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.209	0.208	0.211	1.967	1.957	1.987	1.970	0.015
	L6	0.187	0.189	0.189	1.747	1.767	1.767	1.760	0.012
	L5	0.200	0.201	0.200	1.877	1.887	1.877	1.880	0.006
	L4	0.208	0.208	0.209	1.957	1.957	1.967	1.960	0.006
	L3							#DIV/0!	#DIV/0!
	L2	0.189	0.189	0.187	1.767	1.767	1.747	1.760	0.012
	L1	0.197	0.198	0.194	1.847	1.857	1.817	1.840	0.021

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.013	0.013	0.013	#REF!	#REF!	#REF!	#REF!	#REF!
196	L1	0.012	0.014	0.014	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.350	0.351	0.351	3.380	3.390	3.390	3.387	0.006
	L1	0.244	0.246	0.244	2.320	2.340	2.320	2.327	0.012

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.015	0.016	0.016	#REF!	#REF!	#REF!	#REF!	#REF!
189	L1	0.016	0.017	0.016	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.482	0.484	0.484	4.700	4.720	4.720	4.713	0.012
	L1	0.480	0.476	0.479	4.680	4.640	4.670	4.663	0.021

Time (days)	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
	L7	0.015	0.016	0.016	#REF!	#REF!	#REF!	#REF!	#REF!
182	L1	0.016	0.016	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.546	0.548	0.548	5.323	5.343	5.343	5.337	0.012
	L1	0.517	0.514	0.517	5.033	5.003	5.033	5.023	0.017

Appendix F **Table F.1a. Cd column influent and effluent Cd concentrations. (continued)**

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.019	0.018	0.018	#REF!	#REF!	#REF!	#REF!	#REF!
175	L1	0.017	0.017	0.019	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.514	0.518	0.515	5.003	5.043	5.013	5.020	0.021
	L1	0.516	0.514	0.516	5.023	5.003	5.023	5.017	0.012

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.017	0.018	0.017	#REF!	#REF!	#REF!	#REF!	#REF!
144	L1	0.014	0.017	0.017	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.839	0.843	0.843	8.233	8.273	8.273	8.260	0.023
	L1	0.935	0.936	0.932	9.193	9.203	9.163	9.187	0.021

Time	Control	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.018	0.016	0.015	#REF!	#REF!	#REF!	#REF!	#REF!
137	L1	0.017	0.016	0.016	#REF!	#REF!	#REF!	#REF!	#REF!
	Cadmium	**Triplate Analysis**			**Account for 1:10 Dilution**			**Avg**	**s**
	L7	0.819	0.816	0.817	8.033	8.003	8.013	8.017	0.015
	L1	0.862	0.864	0.867	8.463	8.483	8.513	8.487	0.025

Time	Cadmium	Triplate Analysis			Account for 1:10 Dilution			Avg	s
(days)	L7	0.171	0.175	0.171	1.710	1.750	1.710	1.723	0.023
266	L6	0.224	0.228	0.232	2.240	2.280	2.320	2.280	0.040
	L5	0.287	0.282	0.292	2.870	2.820	2.920	2.870	0.050
	L4	0.310	0.311	0.311	3.100	3.110	3.110	3.107	0.006
	L3	0.223	0.215	0.221	2.230	2.150	2.210	2.197	0.042
	L2	0.212	0.214	0.216	2.120	2.140	2.160	2.140	0.020
	L1	0.181	0.182	0.185	1.810	1.820	1.850	1.827	0.021