Appendix A – Duplicate Comparison

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 1/6/2010 CAK-069-20100106	 MLA 1/6/2010 CAK-MLA-20100106	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.2	0.7	0.95	0.5	52.6	Yes
Color	Color Unit	50	50	50	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	48.1	47.7	47.9	0.4	0.8	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2.1	2.2	2.15	0.1	4.7	
Total Dissolved Solids	mg/L	67	66	66.5	1	1.5	
Total Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Aluminum	ug/L	74.6	67.3	70.95	7.3	10.3	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.142	0.141	0.1415	0.001	0.7	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	31.8	30.5	31.15	1.3	4.2	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 1/18/2010 CAK-069-20100118	Sample JS5 1/18/2010 CAK-JS5-20100118	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.7	0.6	0.65	0.1	15.4	
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.26	0.26	0.26	0	0.0	
Hardness, Total	mg/L	35.3	35.9	35.6	0.6	1.7	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	5.5	5.5	5.5	0	0.0	
Total Dissolved Solids	mg/L	39	48	43.5	9	20.7	Yes
Dissolved Aluminum	ug/L	15.1	11.3	13.2	3.8	28.8	Yes
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	2.4	2.4	2.4	0	0.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 1/18/2010 CAK-069-20100118	Sample JS5 1/18/2010 CAK-JS5-20100118	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.7	0.6	0.65	0.1	15.4	
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.26	0.26	0.26	0	0.0	
Hardness, Total	mg/L	35.3	35.9	35.6	0.6	1.7	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	5.5	5.5	5.5	0	0.0	
Total Dissolved Solids	mg/L	39	48	43.5	9	20.7	Yes
Dissolved Aluminum	ug/L	15.1	11.3	13.2	3.8	28.8	Yes
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	2.4	2.4	2.4	0	0.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 2/1/2010 CAK-069-20100201	Sample SH113 2/1/2010 CAK-SH113-20100201	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.2	1/0/1900	0.25	0.1	40.0	Yes
Color	Color Unit	5	5.0	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.15	0.15	0.15	0	0.0	
Hardness, Total	mg/L	101	100	100.5	1	1.0	
Chloride	mg/L	6	6	6	0	0.0	
Sulfate	mg/L	40.2	40.7	40.45	0.5	1.2	
Total Dissolved Solids	mg/L	138	144	141	6	4.3	
Dissolved Aluminum	ug/L	6.4	9.5	7.95	3.1	39.0	Yes
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	25.9	26.2	26.05	0.3	1.2	
Dissolved Nickel	ug/L	1.7	1.8	1.75	0.1	5.7	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.10	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	6.5	4.5	4	88.9	Yes
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 2/3/2010 CAK-069-20100203	 JS4 2/3/2010 CAK-JS4-20100203	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.5	0.45	0.1	22.2	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	1/4/1900	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.23	0.23	0.23	0	0.0	
Hardness, Total	mg/L	49.4	48.6	49	0.8	1.6	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	8.5	8.6	8.55	0.1	1.2	
Total Dissolved Solids	mg/L	66	72	69	6	8.7	
Dissolved Aluminum	ug/L	14.2	14.2	14.2	0	0.0	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	3.5	3.6	3.55	0.1	2.8	
Dissolved Nickel	ug/L	1.0	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 2/15/2010 CAK-069-20100215	Sample MLA 2/15/2010 CAK-MLA-20100215	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.5	0.6	0.55	0.1	18.2	
Color	Color Unit	60	60	60	0	0.0	
Total Suspended Solids	mg/L	4.0	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	44.7	44.9	44.8	0.2	0.4	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2	2	2	0	0.0	
Total Dissolved Solids	mg/L	45	55	50	10	20.0	
Dissolved Aluminum	ug/L	86.7	82.1	84.4	4.6	5.5	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.2	0.166	0.1655	0.001	0.6	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	24.7	24.1	24.4	0.6	2.5	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.0016	0.0014	0.0015	0.0002	13.3	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 3/1/2010 CAK-069-20100301	SH113 3/1/2010 CAK-SH113-20100301	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.6	0.70	0.65	0.1	15.4	
Color	Color Unit	20	20	20	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.28	0.28	0.28	0	0.0	
Hardness, Total	mg/L	49.7	48.9	49.3	0.8	1.6	
Chloride	mg/L	2	2	2	0	0.0	
Sulfate	mg/L	15.5	15.5	15.5	0	0.0	
Total Dissolved Solids	mg/L	64	64	64	0	0.0	
Dissolved Aluminum	ug/L	34.2	36.5	35.35	2.3	6.5	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1.6	1.6	1.6	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	15.2	15.5	15.35	0.3	2.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.0018	0.0011	0.00145	0.0007	48.3	Yes

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 3/9/2010 CAK-069-20100309	 MLA 3/9/2010 CAK-MLA-20100309	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.8	0.6	0.7	0.2	28.6	Yes
Color	Color Unit	70	60	65	10	15.4	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	39.5	39.8	39.65	0.3	0.8	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2.2	2.2	2.2	0	0.0	
Total Dissolved Solids	mg/L	46	42	44	4	9.1	
Dissolved Aluminum	ug/L	88.4	84.8	86.6	3.6	4.2	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.149	0.149	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	16.1	15.7	15.9	0.4	2.5	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	3.9	4.2	4.05	0.3	7.4	
Mercury Dissolved	ug/L	0.0017	0.0024	0.00205	0.0007	34.1	Yes

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 3/25/2010 CAK-069-20100325	 JS5 3/25/2010 CAK-JS5-20100325	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.3	1.8	1.05	1.5	142.9	Yes
Color	Color Unit	5	10	7.5	5	66.7	Yes
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	2.02	0.29	1.155	1.73	149.8	Yes
Hardness, Total	mg/L	17.9	45.5	31.7	27.6	87.1	Yes
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2	10.8	6.4	8.8	137.5	Yes
Total Dissolved Solids	mg/L	21	47	34	26	76.5	Yes
Dissolved Aluminum	ug/L	1.5	19.1	10.3	17.6	170.9	Yes
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.5	3.6	2.55	2.1	82.4	Yes
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	7.5	5	5	100.0	Yes
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 4/7/2010 CAK-069-20100407	SLC 4/7/2010 CAK-SLC-20100407	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.1	0.9	1	0.2	20.0	
Color	Color Unit	40	50	45	10	22.2	Yes
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	40.1	41.7	40.9	1.6	3.9	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	4.4	4.4	4.4	0	0.0	
Total Dissolved Solids	mg/L	59	53	56	6	10.7	
Dissolved Aluminum	ug/L	65.3	68.8	67.05	3.5	5.2	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1.1	1.2	1.15	0.1	8.7	
Dissolved Iron	mg/L	0.1	0.072	0.0685	0.007	10.2	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	4.2	4.5	4.35	0.3	6.9	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	9.9	6.6	8.25	3.3	40.0	Yes
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 4/8/2010 CAK-069-20100408	Sample SH109 4/8/2010 CAK-SH109-20100408	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.3	0.35	0.1	28.6	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.24	0.24	0.24	0	0.0	
Hardness, Total	mg/L	45.6	45.7	45.65	0.1	0.2	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	8.4	8.30	8.35	0.1	1.2	
Total Dissolved Solids	mg/L	61	65	63	4	6.3	
Dissolved Aluminum	ug/L	9.2	9.2	9.2	0	0.0	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1	1	1	0	0.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 4/14/2010 CAK-069-20100414	JS4 4/14/2010 CAK-JS4-20100414	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.5	0.45	0.1	22.2	Yes
Color	Color Unit	10	10	10	0	0.0	
Total Suspended Solids	mg/L	4	1/4/1900	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.24	0.23	0.235	0.01	4.3	
Hardness, Total	mg/L	49.6	49.7	49.65	0.1	0.2	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	10.2	10.2	10.2	0	0.0	
Total Dissolved Solids	mg/L	64	56	60	8	13.3	
Dissolved Aluminum	ug/L	17	15.8	16.4	1.2	7.3	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	6.5	6.3	6.4	0.2	3.1	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 5/13/2010 CAK-069-20100513	JS5 5/13/2010 CAK-JS5-20100513	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.3	0.2	0.25	0.1	40.0	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.23	0.23	0.23	0	0.0	
Hardness, Total	mg/L	20.7	20.3	20.5	0.4	2.0	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2.7	2.8	2.75	0.1	3.6	
Total Dissolved Solids	mg/L	39	29	34	10	29.4	Yes
Dissolved Aluminum	ug/L	9.4	8.3	8.85	1.1	12.4	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.2	1.2	1.2	0	0.0	
Dissolved Nickel	ug/L	1	1	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 5/18/2010 CAK-069-20100518	Sample MLA 5/18/2010 CAK-MLA-20100518	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.2	1	1.1	0.2	18.2	
Color	Color Unit	40	40	40	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	44.9	46	45.45	1.1	2.4	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	1.9	1.9	1.9	0	0.0	
Total Dissolved Solids	mg/L	67	63	65	4	6.2	
Total Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Aluminum	ug/L	41.6	42.1	41.85	0.5	1.2	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.131	0.1295	0.003	2.3	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	32.5	32	32.25	0.5	1.6	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.0011	0.0017	0.0014	0.0006	42.9	Yes

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 5/19/2010 CAK-069-20100519	Sample SH105 5/19/2010 CAK-SH105-20100519	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.8	2.4	2.1	0.6	28.6	Yes
Color	Color Unit	10	10	10	0	0.0	
Total Suspended Solids	mg/L	4	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.19	0.19	0.19	0	0.0	
Hardness, Total	mg/L	28.2	29	28.6	0.8	2.8	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	5.6	5.6	5.6	0	0.0	
Total Dissolved Solids	mg/L	44	42	43	2	4.7	
Dissolved Aluminum	ug/L	18.2	20.1	19.15	1.9	9.9	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.50	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	4.9	4.8	4.85	0.1	2.1	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 6/3/2010 CAK-069-20100603	SH113 6/3/2010 CAK-SH113-20100603	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.7	1.4	1.05	0.7	66.7	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.1	0.075	0.05	66.7	Yes
Hardness, Total	mg/L	42.9	34.9	38.9	8	20.6	Yes
Chloride	mg/L	1	2	1.5	1	66.7	Yes
Sulfate	mg/L	4.7	9.2	6.95	4.5	64.7	Yes
Total Dissolved Solids	mg/L	38	32	35	6	17.1	
Dissolved Aluminum	ug/L	10.2	9.1	9.65	1.1	11.4	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	4.9	20.2	12.55	15.3	121.9	Yes
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 6/14/2010 CAK-069-20100614	Sample JS5 6/14/2010 CAK-JS5-20100614	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.5	0.45	0.1	22.2	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.08	0.09	0.085	0.01	11.8	
Hardness, Total	mg/L	22.8	23.4	23.1	0.6	2.6	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	3	3.1	3.05	0.1	3.3	
Total Dissolved Solids	mg/L	30	14	22	16	72.7	Yes
Dissolved Aluminum	ug/L	3.9	4	3.95	0.1	2.5	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.4	1.6	1.5	0.2	13.3	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 6/21/2010 CAK-069-20100621	Sample MLA 6/21/2010 CAK-MLA-20100621	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.3	0.4	0.35	0.1	28.6	Yes
Color	Color Unit	15	15	15	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	70.2	70.3	70.25	0.1	0.1	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2.4	2.5	2.45	0.1	4.1	
Total Dissolved Solids	mg/L	65	52	58.5	13	22.2	Yes
Dissolved Aluminum	ug/L	21.3	21.1	21.2	0.2	0.9	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	12.4	13.9	13.15	1.5	11.4	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 7/12/2010 CAK-069-20100712	 SH105 7/12/2010 CAK-SH105-20100712	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.2	0.3	0.2	66.7	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.2	0.1	0.15	0.1	66.7	Yes
Nitrate as N	mg/L	0.31	0.13	0.22	0.18	81.8	Yes
Hardness, Total	mg/L	70.5	33.2	51.85	37.3	71.9	Yes
Chloride	mg/L	5	1	3	4	133.3	Yes
Sulfate	mg/L	23.3	8.2	15.75	15.1	95.9	Yes
Total Dissolved Solids	mg/L	132	60	96	72	75.0	Yes
Dissolved Aluminum	ug/L	8.3	7.6	7.95	0.7	8.8	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	47.5	6.1	26.8	41.4	154.5	Yes
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 7/21/2010 CAK-069-20100721	 SLC 7/21/2010 CAK-SLC-20100721	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.6	0.5	0.2	40.0	Yes
Color	Color Unit	25	40	32.5	15	46.2	Yes
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	49.7	50.5	50.1	0.8	1.6	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	4	2.6	3.3	1.4	42.4	Yes
Total Dissolved Solids	mg/L	75	82	78.5	7	8.9	
Dissolved Aluminum	ug/L	34.6	36.4	35.5	1.8	5.1	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1	1.0	1	0	0.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.0013	0.0017	0.0015	0.0004	26.7	Yes

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 7/26/2010 CAK-069-20100726	 JS5 7/26/2010 CAK-JS5-20100726	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.3	0.7	0.5	0.4	80.0	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.13	0.13	0.13	0	0.0	
Hardness, Total	mg/L	22.4	22.3	22.35	0.1	0.4	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	3.4	3.4	3.4	0	0.0	
Total Dissolved Solids	mg/L	34	33	33.5	1	3.0	
Dissolved Aluminum	ug/L	6	5.1	5.55	0.9	16.2	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.5	1.5	1.5	0	0.0	
Dissolved Nickel	ug/L	1.0	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 8/4/2010 CAK-069-20100804	 JS4 8/4/2010 CAK-JS4-20100804	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.6	0.6	0.6	0	0.0	
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	1/4/1900	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.09	0.09	0.09	0	0.0	
Hardness, Total	mg/L	24.1	24	24.05	0.1	0.4	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	3.4	3.4	3.4	0	0.0	
Total Dissolved Solids	mg/L	40	46	43	6	14.0	
Dissolved Aluminum	ug/L	6	5.7	5.85	0.3	5.1	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.6	1.5	1.55	0.1	6.5	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 8/12/2010 CAK-069-20100812	MLA 8/12/2010 CAK-MLA-20100812	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.7	1	0.85	0.3	35.3	Yes
Color	Color Unit	70	40	55	30	54.5	Yes
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	55.2	54.3	54.75	0.9	1.6	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	2.4	2.4	2.4	0	0.0	
Total Dissolved Solids	mg/L	15	36	25.5	21	82.4	Yes
Dissolved Aluminum	ug/L	67.8	71.5	69.65	3.7	5.3	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.2	0.158	0.1555	0.005	3.2	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	29.9	30.2	30.05	0.3	1.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.8	2.65	0.3	11.3	
Mercury Dissolved	ug/L	0.002	0.002	0.002	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 9/13/2010 CAK-069-20100913	SH105 9/13/2010 CAK-SH105-20100913	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.2	0.2	0.2	0	0.0	
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.25	0.27	0.26	0.02	7.7	
Hardness, Total	mg/L	45.4	45.8	45.6	0.4	0.9	
Chloride	mg/L	2.2	2.5	2.35	0.3	12.8	
Sulfate	mg/L	11.7	12.6	12.15	0.9	7.4	
Total Dissolved Solids	mg/L	36	470	253	434	171.5	Yes
Dissolved Aluminum	ug/L	6.9	7.2	7.05	0.3	4.3	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	10.3	9.4	9.85	0.9	9.1	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 9/20/2010 CAK-069-20100920	SLB 9/20/2010 CAK-SLB-20100920	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1	0.4	0.7	0.6	85.7	Yes
Color	Color Unit	40	35	37.5	5	13.3	
Total Suspended Solids	mg/L	4	4	4	0	0.0	
Ammonia as N	mg/L	0.1	0.1	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.05	0.05	0	0.0	
Hardness, Total	mg/L	63.9	65	64.45	1.1	1.7	
Chloride	mg/L	1	1	1	0	0.0	
Sulfate	mg/L	3.2	3.2	3.2	0	0.0	
Total Dissolved Solids	mg/L	95	89	92	6	6.5	
Dissolved Aluminum	ug/L	27.9	29.5	28.7	1.6	5.6	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.055	0.054	0.002	3.7	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.5	1.7	1.6	0.2	12.5	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	3.7	2.8	3.25	0.9	27.7	Yes
Mercury Dissolved	ug/L	0.0012	0.0011	0.00115	0.0001	8.7	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 9/27/2010 CAK-069-20100927	Sample JS4 9/27/2010 CAK-JS4-20100927	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.94	1.16	1.05	0.22	21.0	Yes
Color	Color Unit	10	15	12.5	5	40.0	Yes
Total Suspended Solids	mg/L	4.0	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.128	0.13	0.129	0.002	1.6	
Hardness, Total	mg/L	27.6	28.2	27.9	0.6	2.2	
Chloride	mg/L	1	1.0	1	0	0.0	
Sulfate	mg/L	7.37	7.4	7.385	0.03	0.4	
Total Dissolved Solids	mg/L	25	31	28	6	21.4	Yes
Dissolved Aluminum	ug/L	18.8	21.3	20.05	2.5	12.5	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	7.9	8.1	8	0.2	2.5	
Dissolved Nickel	ug/L	1	1	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 10/13/2010 CAK-069-20101013	JS4 10/13/2010 CAK-JS4-20101013	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.4	0.46	0.43	0.06	14.0	
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	4	5.6	4.8	1.6	33.3	Yes
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.28	0.28	0.28	0	0.0	
Hardness, Total	mg/L	29.8	29.5	29.65	0.3	1.0	
Chloride	mg/L	1	1.0	1	0	0.0	
Sulfate	mg/L	5.8	5.79	5.79	0	0.0	
Total Dissolved Solids	mg/L	43	62	52.5	19	36.2	Yes
Dissolved Aluminum	ug/L	14.9	16.5	15.7	1.6	10.2	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	4.9	4.9	4.9	0	0.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 10/19/2010 CAK-069-20101019	Sample SH109 10/19/2010 CAK-SH109-20101019	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.72	0.89	1.305	0.83	63.6	Yes
Color	Color Unit	5	5	5	0	0.0	
Total Suspended Solids	mg/L	6	7.2	6.6	1.2	18.2	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.11	0.112	0.1125	0.001	0.9	
Hardness, Total	mg/L	31.4	31.4	31.4	0	0.0	
Chloride	mg/L	1	1.0	1	0	0.0	
Sulfate	mg/L	4.3	4.14	4.2	0.12	2.9	
Total Dissolved Solids	mg/L	75	41	58	34	58.6	Yes
Dissolved Aluminum	ug/L	18.3	17.5	17.9	0.8	4.5	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1.2	1.2	1.2	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1	1.0	1	0	0.0	
Dissolved Nickel	ug/L	1.0	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 10/25/2010 CAK-069-20101025	Sample SLC 10/25/2010 CAK-SLC-20101025	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.49	0.48	0.485	0.01	2.1	
Color	Color Unit	35	35	35	0	0.0	
Total Suspended Solids	mg/L	4	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.050	0.05	0	0.0	
Hardness, Total	mg/L	53.700	52.7	53.2	1	1.9	
Chloride	mg/L	2.03	2.05	2.04	0.02	1.0	
Sulfate	mg/L	5.5	5.48	5.49	0.02	0.4	
Total Dissolved Solids	mg/L	90	77	83.5	13	15.6	
Dissolved Aluminum	ug/L	48.3	49.1	48.7	0.8	1.6	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.062	0.0595	0.005	8.4	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	3.5	3.6	3.55	0.1	2.8	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	3	2.5	2.75	0.5	18.2	
Mercury Dissolved	ug/L	0.0015	0.0016	0.00155	0.0001	6.5	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 11/4/2010 CAK-069-20101104	 JS5 11/4/2010 CAK-JS5-20101104	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.38	0.96	1.17	0.42	35.9	Yes
Color	Color Unit	5	5.0	5	0	0.0	
Total Suspended Solids	mg/L	4.4	4	4.2	0.4	9.5	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.30	0.247	0.273	0.052	19.0	
Hardness, Total	mg/L	18.2	18.1	18.15	0.1	0.6	
Chloride	mg/L	1	1.0	1	0	0.0	
Sulfate	mg/L	4.6	5.39	4.975	0.83	16.7	
Total Dissolved Solids	mg/L	70	24	47	46	97.9	Yes
Dissolved Aluminum	ug/L	31	31.3	31.15	0.3	1.0	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1.3	1.3	1.3	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	2.2	2.3	2.25	0.1	4.4	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.0013	0.0013	0.0013	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 11/10/2010 CAK-069-20101110	Sample MLA 11/10/2010 CAK-MLA-20101110	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	2.62	1.8	2.21	0.82	37.1	Yes
Color	Color Unit	90	80	85	10	11.8	
Total Suspended Solids	mg/L	4	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.050	0.05	0	0.0	
Hardness, Total	mg/L	39.100	39.7	39.4	0.6	1.5	
Chloride	mg/L	1.3	1.4	1.35	0.1	7.4	
Sulfate	mg/L	2.1	2.07	2.085	0.03	1.4	
Total Dissolved Solids	mg/L	64	66	65	2	3.1	
Dissolved Aluminum	ug/L	95.4	94.9	95.15	0.5	0.5	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.2	0.193	0.2025	0.019	9.4	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	46	45.3	45.65	0.7	1.5	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.0029	0.0026	0.00275	0.0003	10.9	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 12/6/2010 CAK-069-20101206	 MLA 12/6/2010 CAK-MLA-20101206	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	1.39	1.32	1.355	0.07	5.2	
Color	Color Unit	70	70	70	0	0.0	
Total Suspended Solids	mg/L	4	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.05	0.050	0.05	0	0.0	
Hardness, Total	mg/L	47.700	46.9	47.3	0.8	1.7	
Chloride	mg/L	1.2	1.2	1.2	0	0.0	
Sulfate	mg/L	2.3	2.33	2.315	0.03	1.3	
Total Dissolved Solids	mg/L	106	90	98	16	16.3	
Dissolved Aluminum	ug/L	80	214	147	134	91.2	Yes
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.2	0.169	0.1635	0.011	6.7	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	42.2	41.8	42	0.4	1.0	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	6.2	2.5	4.35	3.7	85.1	Yes
Mercury Dissolved	ug/L	0.0021	0.0022	0.00215	0.0001	4.7	

STREAM		Duplicate	Sample				
	Stn.Code Sample No. Collect Date/Time	Blind Duplicate RW Station 12/9/2010 CAK-069-20101209	 JS2 12/9/2010 CAK-JS2-20101209	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.33	0.28	0.305	0.05	16.4	
Color	Color Unit	5	5.0	5	0	0.0	
Total Suspended Solids	mg/L	4.0	4.0	4	0	0.0	
Ammonia as N	mg/L	0.1	0.10	0.1	0	0.0	
Nitrate as N	mg/L	0.16	0.154	0.1565	0.005	3.2	
Hardness, Total	mg/L	16.2	16	16.1	0.2	1.2	
Chloride	mg/L	1	1.0	1	0	0.0	
Sulfate	mg/L	1.6	1.62	1.62	0	0.0	
Total Dissolved Solids	mg/L	32	17	24.5	15	61.2	Yes
Dissolved Aluminum	ug/L	1.7	2.6	2.15	0.9	41.9	Yes
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1.0	1	0	0.0	
Dissolved Iron	mg/L	0.1	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	1.1	1.3	1.2	0.2	16.7	
Dissolved Nickel	ug/L	1	1.0	1	0	0.0	
Dissolved Selenium	ug/L	1.0	1.0	1	0	0.0	
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	2.5	2.5	2.5	0	0.0	
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

STREAM	Stn.Code Sample No. Collect Date/Time	Duplicate Blind Duplicate RW Station 12/15/2010 CAK-069-20101215	Sample SH113 12/15/2010 CAK-SH113-20101215	Mean	Difference	% Difference	>20% ?
Turbidity Lab	NTU	0.26	0.24	0.25	0.02	8.0	
Color	Color Unit	5	5.0	5	0	0.0	
Total Suspended Solids	mg/L	4.0	4.0	4	0	0.0	
Ammonia as N	mg/L	0.5	0.55	0.545	0.01	1.8	
Nitrate as N	mg/L	0.93	0.77	0.85	0.16	18.8	
Hardness, Total	mg/L	115	119	117	4	3.4	
Chloride	mg/L	11.2	10.7	10.95	0.5	4.6	
Sulfate	mg/L	52.3	53.3	52.8	1	1.9	
Total Dissolved Solids	mg/L	189	139	164	50	30.5	Yes
Dissolved Aluminum	ug/L	4.8	4.1	4.45	0.7	15.7	
Dissolved Arsenic	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Cadmium	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Chromium	ug/L	2.5	2.5	2.5	0	0.0	
Dissolved Copper	ug/L	1	1	1	0	0.0	
Dissolved Iron	mg/L	0.05	0.05	0.05	0	0.0	
Dissolved Lead	ug/L	0.16	0.16	0.16	0	0.0	
Dissolved Manganese	ug/L	105	93.5	99.25	11.5	11.6	
Dissolved Nickel	ug/L	1.2	1.2	1.2	0	0.0	
Dissolved Selenium	ug/L	1.4	1	1.2	0.4	33.3	Yes
Dissolved Silver	ug/L	0.1	0.1	0.1	0	0.0	
Dissolved Zinc	ug/L	3.3	4.5	3.9	1.2	30.8	Yes
Mercury Dissolved	ug/L	0.001	0.0010	0.001	0	0.0	

Appendix B – Variance Reports

Outfall 001 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-001EFF-20100105	**001 Effluent**	**1/5/2010**											
	Total Recoverable Copper	6	ug/L	715	2	1.32	**3.1**	**+---+---0---+---+ X**	<1.0	<1.0	<1.0	<1.0	<1.0
CAK-001EFF-20100112	**001 Effluent**	**1/12/2010**											
	pH lab	7.25	pH	427	8.1	0.158	**-5.2**	**X +---+---0---+---+**	7.44	7.94	7.7	7.43	7.42
CAK-001EFF-20100119	**001 Effluent**	**1/19/2010**											
	Dissolved Oxygen	14.57	mg/L	687	12	1.22	**2.2**	**+---+---0---+---+ X**	11.12	13.80	14.3	13.4	12.77
CAK-001EFF-20100126	**001 Effluent**	**1/26/2010**											
	Dissolved Oxygen	7.08	mg/L	688	12	1.22	**-3.9**	**X +---+---0---+---+**	14.57	11.1	13.80	14.3	13.37
CAK-001EFF-20100219	**001 Effluent**	**2/19/2010**											
	Total Recoverable Manganese	181	ug/L	294	49	28.9	**4.6**	**+---+---0---+---+ X**	89.9	63.3	63.9	41.5	49
CAK-001EFF-20100223	**001 Effluent**	**2/23/2010**											
	Total Recoverable Manganese	180	ug/L	295	49	29.8	**4.4**	**+---+---0---+---+ X**	181	89.9	63.3	63.9	41.5
CAK-001EFF-20100302	**001 Effluent**	**3/2/2010**											
	Total Recoverable Manganese	148	ug/L	296	50	30.7	**3.2**	**+---+---0---+---+ X**	180	181	89.9	63.3	63.9
CAK-001EFF-20100304	**001 Effluent**	**3/4/2010**											
	Total Recoverable Manganese	125	ug/L	297	50	31.2	**2.4**	**+---+---0---+---+ X**	148	180	181	89.9	63.3
CAK-001EFF-20100330	**001 Effluent**	**3/30/2010**											
	Total Recoverable Manganese	127	ug/L	301	51	31.6	**2.4**	**+---+---0---+---+ X**	94.5	107	82.9	125	148
CAK-001EFF-20100406	**001 Effluent**	**4/6/2010**											
	Chloride	19	mg/L	50	7.8	3.8	**2.9**	**+---+---0---+---+ X**	15	13	12	11	12
	Lab Conductivity	451	umhos/cm	8	345	41.5	**2.5**	**+---+---0---+---+ X**	374	351	284	293	411
	pH lab	7.38	pH	428	8.1	0.163	**-4.2**	**X +---+---0---+---+**	7.25	7.44	7.94	7.7	7.43
	Total Recoverable Manganese	150	ug/L	302	51	31.9	**3.1**	**+---+---0---+---+ X**	127	94.5	107	82.9	125
	Total Recoverable Potassium	1.73	mg/L	40	0.8	0.299	**3.1**	**+---+---0---+---+ X**	<1	<1	<1	<1	<1

Outfall 001 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-001EFF-20100413	**001 Effluent**	**4/13/2010**											
	Total Recoverable Manganese	167	ug/L	303	51	32.3	**3.6**	+---+---**0**---+---+ **X**	150	127	94.5	107	82.9
CAK-001EFF-20100420	**001 Effluent**	**4/20/2010**											
	Total Recoverable Manganese	150	ug/L	304	52	32.9	**3**	+---+---**0**---+---+ **X**	167	150	127	94.5	107
	Turbidity 001 Background	6.75	NTU	247	0.7	1.2	**5**	+---+---**0**---+---+ **X**	0.36	0.61	0.40	0.50	0.58
	TurbidityDifference	-6.32	NTU	228	0.8	1.9	**-3.7**	**X** +---+---**0**---+---+	-0.09	-0.31	-0.01	-0.2	-0.15
CAK-001EFF-20100427	**001 Effluent**	**4/27/2010**											
	Total Recoverable Manganese	146	ug/L	305	52	33.4	**2.8**	+---+---**0**---+---+ **X**	150	167	150	127	94.5
CAK-001EFF-20100504	**001 Effluent**	**5/4/2010**											
	pH lab	7.34	pH	429	8.1	0.166	**-4.4**	**X** +---+---**0**---+---+	7.38	7.25	7.44	7.94	7.7
	Total Recoverable Manganese	191	ug/L	306	52	33.8	**4.1**	+---+---**0**---+---+ **X**	146	150	167	150	127
CAK-001EFF-20100506	**001 Effluent**	**5/6/2010**											
	Chloride	17	mg/L	52	8.2	4.18	**2.1**	+---+---**0**---+---+ **X**	16	19	15	13	12
	pH lab	7.29	pH	430	8.1	0.17	**-4.6**	**X** +---+---**0**---+---+	7.34	7.38	7.25	7.44	7.94
	Total Recoverable Manganese	172	ug/L	307	53	34.6	**3.4**	+---+---**0**---+---+ **X**	191	146	150	167	150
CAK-001EFF-20100511	**001 Effluent**	**5/11/2010**											
	Chloride	20	mg/L	53	8.4	4.31	**2.7**	+---+---**0**---+---+ **X**	17	16	19	15	13
	pH lab	7.46	pH	431	8.1	0.174	**-3.5**	**X** +---+---**0**---+---+	7.29	7.34	7.38	7.25	7.44
	Total Recoverable Manganese	176	ug/L	308	53	35.2	**3.5**	+---+---**0**---+---+ **X**	172	191	146	150	167
CAK-001EFF-20100518	**001 Effluent**	**5/18/2010**											
	Chloride	20	mg/L	54	8.6	4.56	**2.5**	+---+---**0**---+---+ **X**	20	17	16	19	15
	pH lab	7.63	pH	432	8.1	0.176	**-2.5**	**X** +---+---**0**---+---+	7.46	7.29	7.34	7.38	7.25
	Total Recoverable Manganese	179	ug/L	309	54	35.8	**3.5**	+---+---**0**---+---+ **X**	176	172	191	146	150

Outfall 001 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-001EFF-20100601	**001 Effluent**	**6/1/2010**											
	pH lab	7.66	pH	433	8.1	0.177	**-2.3**	**X** +---+---**0**---+---+	7.63	7.46	7.29	7.34	7.38
	Total Recoverable Manganese	128	ug/L	311	54	36.7	**2**	+---+---**0**---+---+ **X**	126	179	176	172	191
CAK-001EFF-20100608	**001 Effluent**	**6/8/2010**											
	Total Recoverable Manganese	145	ug/L	312	54	36.8	**2.5**	+---+---**0**---+---+ **X**	128	126	179	176	172
CAK-001EFF-20100609	**001 Effluent**	**6/9/2010**											
	Total Suspended Solids	14	mg/L	###	4.3	1.78	**5.4**	+---+---**0**---+---+ **X**	<4	<4	<4	<4	<4
CAK-001EFF-20100610	**001 Effluent**	**6/10/2010**											
	Chloride	20	mg/L	56	8.9	4.76	**2.3**	+---+---**0**---+---+ **X**	13	20	20	17	16
	pH lab	7.42	pH	434	8.1	0.178	**-3.6**	**X** +---+---**0**---+---+	7.66	7.63	7.46	7.29	7.34
	Total Recoverable Manganese	149	ug/L	313	55	37.1	**2.5**	+---+---**0**---+---+ **X**	145	128	126	179	176
CAK-001EFF-20100615	**001 Effluent**	**6/15/2010**											
	Total Recoverable Manganese	131	ug/L	314	55	37.5	**2**	+---+---**0**---+---+ **X**	149	145	128	126	179
CAK-001EFF-20100706	**001 Effluent**	**7/6/2010**											
	Chloride	19	mg/L	57	9.1	4.94	**2**	+---+---**0**---+---+ **X**	20	13	20	20	17
	Fluoride	<0.40	mg/L	55	0.1	0.0514	**5**	+---+---**0**---+---+ **X**	<0.2	<0.20	<0.2	<0.20	<0.20
	pH lab	7.4	pH	435	8.1	0.18	**-3.7**	**X** +---+---**0**---+---+	7.42	7.66	7.63	7.46	7.29
	Total Recoverable Manganese	148	ug/L	317	55	37.6	**2.5**	+---+---**0**---+---+ **X**	97.9	72.9	131	149	145
CAK-001EFF-20100713	**001 Effluent**	**7/13/2010**											
	Total Recoverable Manganese	149	ug/L	318	56	37.9	**2.5**	+---+---**0**---+---+ **X**	148	97.9	72.9	131	149
CAK-001EFF-20100720	**001 Effluent**	**7/20/2010**											
	Ammonia as N	1.1	mg/L	731	0.2	0.433	**2**	+---+---**0**---+---+ **X**	0.9	0.8	0.6	0.5	0.3
	Total Recoverable Manganese	222	ug/L	319	56	38.2	**4.3**	+---+---**0**---+---+ **X**	149	148	97.9	72.9	131

Outfall 001 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-001EFF-20100727	**001 Effluent**	**7/27/2010**											
	Ammonia as N	1.7	mg/L	732	0.2	0.434	**3.4**	+---+---**0**---+---+ **X**	1.1	0.9	0.8	0.6	0.5
	Total Recoverable Manganese	163	ug/L	320	57	39.3	**2.7**	+---+---**0**---+---+ **X**	222	149	148	97.9	72.9
CAK-001EFF-20100803	**001 Effluent**	**8/3/2010**											
	Ammonia as N	2.2	mg/L	733	0.2	0.437	**4.5**	+---+---**0**---+---+ **X**	1.7	1.1	0.9	0.8	0.6
	Nitrate as N	3.38	mg/L	315	0.7	1.23	**2.1**	+---+---**0**---+---+ **X**	2.41	1.76	1.19	1.67	0.89
	Total Recoverable Manganese	252	ug/L	321	57	39.7	**4.9**	+---+---**0**---+---+ **X**	163	222	149	148	97.9
CAK-001EFF-20100907	**001 Effluent**	**9/7/2010**											
	Ammonia as N	4.5	mg/L	740	0.2	0.457	**9.3**	+---+---**0**---+---+ **X**	1	3.3	1.2	0.6	0.4
	Nitrate as N	7.26	mg/L	322	0.8	1.26	**5.2**	+---+---**0**---+---+ **X**	1.81	5.22	1.7	1.21	0.95
	Total Recoverable Manganese	447	ug/L	327	62	57	**6.7**	+---+---**0**---+---+ **X**	203	314	431	538	321
CAK-001EFF-20100914	**001 Effluent**	**9/14/2010**											
	Ammonia as N	1.4	mg/L	741	0.2	0.483	**2.4**	+---+---**0**---+---+ **X**	4.5	1	3.3	1.2	0.6
	Total Recoverable Manganese	420	ug/L	328	63	60.8	**5.9**	+---+---**0**---+---+ **X**	447	203	314	431	538
CAK-001EFF-20100916	**001 Effluent**	**9/16/2010**											
	Total Recoverable Manganese	349	ug/L	329	64	63.8	**4.5**	+---+---**0**---+---+ **X**	420	447	203	314	431
CAK-001EFF-20100921	**001 Effluent**	**9/21/2010**											
	Total Recoverable Manganese	468	ug/L	330	65	65.6	**6.1**	+---+---**0**---+---+ **X**	349	420	447	203	314
CAK-001EFF-20100928	**001 Effluent**	**9/28/2010**											
	Ammonia as N	2.53	mg/L	744	0.2	0.484	**4.7**	+---+---**0**---+---+ **X**	0.65	0.57	1.4	4.5	1
	Nitrate as N	3.78	mg/L	326	0.8	1.3	**2.3**	+---+---**0**---+---+ **X**	1.29	1.13	2.35	7.26	1.81
	Total Recoverable Manganese	320	ug/L	331	66	69.2	**3.7**	+---+---**0**---+---+ **X**	468	349	420	447	203
CAK-001EFF-20100810	**001 Effluent**	**8/10/2010**											
	Total Recoverable Manganese	321	ug/L	322	57	41.1	**6.4**	+---+---**0**---+---+ **X**	252	163	222	149	148

Outfall 001 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-001EFF-20100812	**001 Effluent**	**8/12/2010**											
	Total Recoverable Manganese	538	ug/L	323	58	43.5	**11**	+---+---**0**---+---+ **X**	321	252	163	222	149
CAK-001EFF-20100817	**001 Effluent**	**8/17/2010**											
	Ammonia as N	1.2	mg/L	737	0.2	0.442	**2.2**	+---+---**0**---+---+ **X**	0.6	0.4	0.4	2.2	1.7
	Total Recoverable Manganese	431	ug/L	324	60	51	**7.3**	+---+---**0**---+---+ **X**	538	321	252	163	222
CAK-001EFF-20100824	**001 Effluent**	**8/24/2010**											
	Ammonia as N	3.3	mg/L	738	0.2	0.443	**6.9**	+---+---**0**---+---+ **X**	1.2	0.6	0.4	0.4	2.2
	Dissolved Oxygen	7.79	mg/L	724	12	1.22	**-3.3**	**X** +---+---**0**---+---+	11.49	11	11.9	11.58	11.64
	Nitrate as N	5.22	mg/L	320	0.7	1.24	**3.6**	+---+---**0**---+---+ **X**	1.7	1.21	0.95	0.83	3.38
	Total Recoverable Manganese	314	ug/L	325	61	54.9	**4.6**	+---+---**0**---+---+ **X**	431	538	321	252	163
CAK-001EFF-20100831	**001 Effluent**	**8/31/2010**											
	Total Recoverable Manganese	203	ug/L	326	62	56.6	**2.5**	+---+---**0**---+---+ **X**	314	431	538	321	252
CAK-001EFF-20101005	**001 Effluent**	**10/5/2010**											
	Lab Turbidity 001 Background	12.5	NTU	247	0.6	1.92	**6.2**	+---+---**0**---+---+ **X**	0.6	0.32	0.49	0.2	0.9
	Lab Turbidity Difference	-12.13	NTU	234	0.4	2.1	**-6**	**X** +---+---**0**---+---+	-0.24	-0.02	1.06	0.9	0
	Total Recoverable Manganese	512	ug/L	332	67	70.4	**6.3**	+---+---**0**---+---+ **X**	320	468	349	420	447
	Turbidity 001 Background	15.50	NTU	275	0.7	1.2	**12**	+---+---**0**---+---+ **X**	0.91	0.46	0.92	0.56	0.45
	TurbidityDifference	-15.10	NTU	255	0.7	1.88	**-8.4**	**X** +---+---**0**---+---+	-0.64	-0.26	0.93	-0.30	0.21
CAK-001EFF-20101012	**001 Effluent**	**10/12/2010**											
	Chloride	21	mg/L	58	9.2	5.07	**2.3**	+---+---**0**---+---+ **X**	19	20	13	20	20
	Fluoride	<0.40	mg/L	56	0.1	0.0616	**4.1**	+---+---**0**---+---+ **X**	<0.40	<0.2	<0.20	<0.2	<0.20
	pH lab	6.88	pH	436	8.1	0.183	**-6.5**	**X** +---+---**0**---+---+	7.4	7.42	7.66	7.63	7.46
CAK-001EFF-20101026	**001 Effluent**	**10/26/2010**											
	Total Recoverable Manganese	304	ug/L	335	69	74.5	**3.2**	+---+---**0**---+---+ **X**	143	152	512	320	468

Outfall 001 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-001EFF-20101102	**001 Effluent**	**11/2/2010**											
	Lab Turbidity 001 Background	32.6	NTU	251	0.6	2.05	**16**	+---+---**0**---+---+ **X**	0.33	2.31	0.49	12.5	0.6
	Lab Turbidity Difference	-30.15	NTU	238	0.3	2.23	**-14**	**X** +---+---**0**---+---+	0.03	0.97	0.58	-12.1	-0.24
	Total Recoverable Manganese	426	ug/L	336	70	75.4	**4.7**	+---+---**0**---+---+ **X**	304	143	152	512	320
	Turbidity 001 Background	37.40	NTU	279	0.8	1.49	**25**	+---+---**0**---+---+ **X**	1.11	3.25	1.11	15.50	0.91
	TurbidityDifference	-36.52	NTU	259	0.6	2.11	**-18**	**X** +---+---**0**---+---+	-0.55	-1.23	1.16	-15.10	-0.64
CAK-001EFF-20101123	**001 Effluent**	**11/23/2010**											
	Dissolved Oxygen	14.54	mg/L	739	12	1.22	**2.2**	+---+---**0**---+---+ **X**	12.42	11.4	12.7	12.39	11.61
CAK-001EFF-20101106	**001 Effluent**	**11/6/2010**											
	Total Suspended Solids	16.4	mg/L	###	4.3	1.74	**6.9**	+---+---**0**---+---+ **X**	<4.0	<4.0	6.4	4.4	<4.0
CAK-001EFF-20101218	**001 Effluent**	**12/18/2010**											
	Total Suspended Solids	19.6	mg/L	###	4.3	1.75	**8.7**	+---+---**0**---+---+ **X**	8.8	<4.0	<4.0	<4.0	<4.0
CAK-001EFF-20101217	**001 Effluent**	**12/17/2010**											
	Total Suspended Solids	8.8	mg/L	###	4.3	1.75	**2.6**	+---+---**0**---+---+ **X**	<4.0	<4.0	<4.0	<4.0	6
CAK-001EFF-20101221	**001 Effluent**	**12/21/2010**											
	Total Suspended Solids	8.8	mg/L	###	4.3	1.78	**2.5**	+---+---**0**---+---+ **X**	4.8	<4.0	19.6	8.8	<4.0

Outfall 002 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->			
CAK-002EFF-20101216	**002 Effluent**	**12/16/2010**										
	Ammonia as N	0.86	mg/L	1	0.54	0	-	+---+---**0**---+---+ **X**	0.57			
	Dissolved Oxygen	10.71	mg/L	1	11.4	0	-	**X** +---+---**0**---+---+	13.11			
	Hardness, Total	293	mg/L	1	227	0	-	+---+---**0**---+---+ **X**	283			
	Lab Turbidity	0.54	NTU	1	0.26	0	-	**X** +---+---**0**---+---+	0.86			
	Lab Turbidity 001 Background	1.25	NTU	1	0.99	0	-	+---+---**0**---+---+ **X**	0.93			
	Lab Turbidity Difference	-0.71	NTU	1	-0.73	0	-	**X** +---+---**0**---+---+	-0.07			
	Nitrate as N	0.98	mg/L	1	0.73	0	-	+---+---**0**---+---+ **X**	0.84			
	Sulfate	251	mg/L	1	178	0	-	+---+---**0**---+---+ **X**	229			
	Temperature	5.6	oC	1	4.2	0	-	**X** +---+---**0**---+---+	8.60			
	Total Dissolved Solids	484	mg/L	1	369	0	-	+---+---**0**---+---+ **X**	453			
	Total Recoverable Aluminum	3.9	ug/L	1	1.2	0	-	**X** +---+---**0**---+---+	8.2			
	Total Recoverable Iron	0.279	mg/L	1	<0.05	0	-	**X** +---+---**0**---+---+	0.476			
	Total Recoverable Manganese	358	ug/L	1	320	0	-	**X** +---+---**0**---+---+	381			
	Total Recoverable Nickel	2.1	ug/L	1	1.6	0	-	**X** +---+---**0**---+---+	2.4			
	Total Recoverable Zinc	3.9	ug/L	1	4.2	0	-	**X** +---+---**0**---+---+	5.2			
CAK-002EFF-20101218	**002 Effluent**	**12/18/2010**										
	Temperature	2.1	oC	2	7.1	2.12	**-2.4**	**X** +---+---**0**---+---+	5.6	8.60		
CAK-002EFF-20101223	**002 Effluent**	**12/23/2010**										
	Dissolved Oxygen	6.93	mg/L	3	12.2	1.31	**-4**	**X** +---+---**0**---+---+	12.81	10.71	13.11	
CAK-002EFF-20101229	**002 Effluent**	**12/29/2010**										
	Hardness, Total	308	mg/L	4	288	6.7	**3**	+---+---**0**---+---+ **X**	294	281	293	283
	Lab Turbidity	0.16	NTU	4	0.662	0.204	**-2.5**	**X** +---+---**0**---+---+	0.44	0.81	0.54	0.86
	Total Recoverable Iron	0.052	mg/L	4	0.323	0.102	**-2.6**	**X** +---+---**0**---+---+	0.265	0.27	0.279	0.476
	Total Recoverable Manganese	407	ug/L	4	370	13	**2.9**	+---+---**0**---+---+ **X**	381	359	358	381
	Total Recoverable Nickel	3.2	ug/L	4	2.25	0.129	**7.4**	+---+---**0**---+---+ **X**	2.3	2.2	2.1	2.4

January Receiving Water 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-JS2-20100118	JS2	1/18/2010											
	Dissolved Aluminum	8.6	ug/L	54	2.73	2.31	**2.5**	+---+---**0**---+---+ **X**	1.5	2.6	3.3	4.6	4.6
	Dissolved Oxygen	14.43	mg/L	51	12	0.874	**2.8**	+---+---**0**---+---+ **X**	13.52	12.2	11.66	11.93	11.71
	Temperature	0.4	oC	52	4.32	1.67	**-2.3**	**X** +---+---**0**---+---+	3.4	4.3	5.5	6.2	5.7
CAK-JS5-20100118	JS5	1/18/2010											
	Dissolved Oxygen	14.43	mg/L	50	12.2	0.877	**2.5**	+---+---**0**---+---+ **X**	14.13	13.15	12.81	12.87	11.7
CAK-MLA-20100106	MLA	1/6/2010											
	Total Chromium	<2.5	ug/L	38	2.5	0	-	**X** +---+---**0**---+---+	<2.5	<2.5	<2.5	<2.5	<2.5
CAK-SH113-20100120	SH113	1/20/2010											
	Dissolved Selenium	<1.0	ug/L	35	1	0	-	**X** +---+---**0**---+---+	<1.0	<1	<1	<1	<1

February Receiving Water 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SH113-20100201	SH113	2/1/2010											
	Dissolved Selenium	<1.0	ug/L	36	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1	<1	<1
	Dissolved Zinc	6.5	ug/L	36	2.96	1.04	**3.4**	+---+---**0**---+---+ **X**	2.6	<2.5	<2.5	5.7	<2.5
CAK-MLA-20100215	MLA	2/15/2010											
	pH field	8.13	pH	61	7.44	0.319	**2.2**	+---+---**0**---+---+ **X**	7.53	7.57	7.38	7.54	7.89
CAK-JS2-20100203	JS2	2/3/2010											
	Temperature	0.4	oC	53	4.25	1.74	**-2.2**	**X** +---+---**0**---+---+	0.4	3.4	4.3	5.5	6.2

March Receiving Water 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SH113-20100301	**SH113**	**3/1/2010**											
	Dissolved Aluminum	36.5	ug/L	37	8.78	6.87	**4**	+---+---**0**---+---+ **X**	9.5	12.2	7.4	7	11.4
	Dissolved Copper	1.6	ug/L	37	1.03	0.148	**3.9**	+---+---**0**---+---+ **X**	<1.0	<1.0	<1.0	<1	<1
	Dissolved Selenium	<1.0	ug/L	37	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1	<1
CAK-SH105-20100301	**SH105**	**3/1/2010**											
	Color	40	Color Unit	59	13.9	12.9	**2**	+---+---**0**---+---+ **X**	5	15	10	10	15
	Dissolved Copper	1.8	ug/L	68	1.12	0.328	**2.1**	+---+---**0**---+---+ **X**	<1.0	1.1	<1.0	<1	1
	Dissolved Oxygen	15.01	mg/L	66	12.6	1.16	**2.1**	+---+---**0**---+---+ **X**	13.42	14.17	14.82	13.86	12.1
	Mercury Dissolved	0.0019	ug/L	51	0.001	0.00035	**2.2**	+---+---**0**---+---+ **X**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
CAK-SLB-20100309	**SLB**	**3/9/2010**											
	Dissolved Manganese	228	ug/L	60	26.9	35.4	**5.7**	+---+---**0**---+---+ **X**	8.1	55.4	13.4	27	51
	Lab Turbidity	21	NTU	41	1.48	1.49	**13**	+---+---**0**---+---+ **X**	1.5	2.5	4.1	3.2	4.2
	Sulfate	16.8	mg/L	60	5.83	4.1	**2.7**	+---+---**0**---+---+ **X**	2.7	6.3	5.2	2.7	7
CAK-SLC-20100309	**SLC**	**3/9/2010**											
	Dissolved Manganese	138	ug/L	59	14.1	19	**6.5**	+---+---**0**---+---+ **X**	3	23.9	5.4	11.5	25.4
	Lab Turbidity	12.9	NTU	40	1.02	1.47	**8.1**	+---+---**0**---+---+ **X**	0.6	2.2	2	1.6	2.2
	Sulfate	12.5	mg/L	59	5.14	2.44	**3**	+---+---**0**---+---+ **X**	4.4	5.4	6	4.2	7.2
CAK-MLA-20100309	**MLA**	**3/9/2010**											
	Dissolved Oxygen	14.76	mg/L	50	10.9	1.65	**2.3**	+---+---**0**---+---+ **X**	12.35	12.63	13.15	11.21	10.57
CAK-JS2-20100325	**JS2**	**3/25/2010**											
	Dissolved Oxygen	14.43	mg/L	53	12.1	0.948	**2.5**	+---+---**0**---+---+ **X**	13.71	14.43	13.52	12.2	11.66
CAK-JS4-20100325	**JS4**	**3/25/2010**											
	Lab Turbidity	2.2	NTU	42	0.701	0.726	**2.1**	+---+---**0**---+---+ **X**	0.5	1.6	2.2	0.6	2.2
	Sulfate	11.4	mg/L	56	5.06	2.28	**2.8**	+---+---**0**---+---+ **X**	8.6	6.9	8.1	6.5	5.3
CAK-JS5-20100325	**JS5**	**3/25/2010**											
	Dissolved Aluminum	19.1	ug/L	56	7.57	5.23	**2.2**	+---+---**0**---+---+ **X**	15.1	11.3	6.3	8.4	7.5
	Dissolved Zinc	7.5	ug/L	56	2.78	1.4	**3.4**	+---+---**0**---+---+ **X**	<2.5	<2.5	<2.5	<2.5	3.1
	Sulfate	10.8	mg/L	56	4.18	2.02	**3.3**	+---+---**0**---+---+ **X**	6.3	5.5	6.3	4.7	4

April Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-JS2-20100414	**JS2**	**4/14/2010**											
	Dissolved Oxygen	14.12	mg/L	54	12.1	0.992	**2**	+---+---**0**---+---+ **X**	14.43	13.71	14.43	13.52	12.2
CAK-JS5-20100414	**JS5**	**4/14/2010**											
	Dissolved Oxygen	14.21	mg/L	53	12.3	0.945	**2**	+---+---**0**---+---+ **X**	13.9	13.43	14.43	14.13	13.15
CAK-JS4-20100414	**JS4**	**4/14/2010**											
	Sulfate	10.2	mg/L	57	5.17	2.41	**2.1**	+---+---**0**---+---+ **X**	11.4	8.6	6.9	8.1	6.5
CAK-SH113-20100408	**SH113**	**4/8/2010**											
	Dissolved Manganese	46.4	ug/L	38	17.7	12.3	**2.3**	+---+---**0**---+---+ **X**	15.5	26.2	15.5	25.5	21.2
	Dissolved Selenium	<1.0	ug/L	38	1	0	**-**	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1
CAK-MLA-20100420	**MLA**	**4/20/2010**											
	Lab Turbidity	3.8	NTU	46	0.953	0.924	**3.1**	+---+---**0**---+---+ **X**	1	0.6	0.6	0.7	0.7

May Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SLB-20100517	**SLB**	**5/17/2010**											
	Chloride	8	mg/L	62	1.27	0.439	**15**	+---+---**0**---+---+ **X**	<1	2	1	1	2
CAK-SLC-20100517	**SLC**	**5/17/2010**											
	Chloride	4	mg/L	61	1.85	0.678	**3.2**	+---+---**0**---+---+ **X**	1	2	2	2	2
CAK-JS2-20100513	**JS2**	**5/13/2010**											
	Dissolved Oxygen	14.8	mg/L	55	12.2	1.02	**2.6**	+---+---**0**---+---+ **X**	14.12	14.43	13.71	14.43	13.52
CAK-JS5-20100513	**JS5**	**5/13/2010**											
	Dissolved Oxygen	14.52	mg/L	54	12.3	0.971	**2.2**	+---+---**0**---+---+ **X**	14.21	13.9	13.43	14.43	14.13
CAK-SH103-20100520	**SH103**	**5/20/2010**											
	Dissolved Oxygen	13.56	mg/L	59	11.4	1.04	**2**	+---+---**0**---+---+ **X**	N/A	N/A	N/A	N/A	N/A
CAK-SH111-20100520	**SH111**	**5/20/2010**											
	Ammonia as N	<0.1	mg/L	33	0.1	0	-	+---+---**0**---+---+ **X**	<0.1	<0.1	<0.1	<0.1	<0.1
	Dissolved Aluminum	9.5	ug/L	33	3.22	3.11	**2**	+---+---**0**---+---+ **X**	3.3	3.8	2.7	3.7	3
	Dissolved Nickel	<1.0	ug/L	33	1	0	-	**X** +---+---**0**---+---+	<1	<1	<1	<1	<1
	Dissolved Oxygen	13.75	mg/L	33	11.9	0.755	**2.5**	+---+---**0**---+---+ **X**	N/A	N/A	N/A	N/A	N/A
CAK-SH113-20100519	**SH113**	**5/19/2010**											
	Dissolved Selenium	<1.0	ug/L	39	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0

June Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SLB-20100621	**SLB**	**6/21/2010**											
	Hardness, Total	68.1	mg/L	63	44.6	11.2	**2.1**	+---+---**0**---+---+ **X**	56.4	35.7	59.2	39.4	38.7
CAK-JS2-20100614	**JS2**	**6/14/2010**											
	Total Dissolved Solids	318	mg/L	59	24.7	18	**16**	+---+---**0**---+---+ **X**	32	21	20	23	14
CAK-JS5-20100614	**JS5**	**6/14/2010**											
	Dissolved Oxygen	14.47	mg/L	55	12.4	1.01	**2.1**	+---+---**0**---+---+ **X**	14.52	14.21	13.9	13.43	14.4
CAK-SH113-20100603	**SH113**	**6/3/2010**											
	Dissolved Selenium	<1.0	ug/L	40	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0

July Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SLB-20100721	**SLB**	**7/21/2010**											
	pH field	8.48	pH	65	7.74	0.348	**2.1**	+---+---**0**---+---+ **X**	8.27	7.84	7.92	8.04	7.96
	Total Dissolved Solids	114	mg/L	64	65.2	20.6	**2.4**	+---+---**0**---+---+ **X**	54	62	55	90	62
CAK-JS2-20100726	**JS2**	**7/26/2010**											
	pH field	8.22	pH	60	7.26	0.472	**2**	+---+---**0**---+---+ **X**	7.31	7.53	7.71	7.83	7.83
CAK-JS5-20100726	**JS5**	**7/26/2010**											
	pH field	8.2	pH	60	7.48	0.344	**2.1**	+---+---**0**---+---+ **X**	7.51	7.7	7.89	7.92	7.91
CAK-SH111-20100713	**SH111**	**7/13/2010**											
	Ammonia as N	<0.1	mg/L	34	0.1	0	-	+---+---**0**---+---+ **X**	<0.1	<0.1	<0.1	<0.1	<0.1
	Dissolved Manganese	<1.0	ug/L	34	1	0	-	**X** +---+---**0**---+---+	<1.0	<1	<1	<1	<1
	Dissolved Nickel	<1.0	ug/L	34	1	0	-	**X** +---+---**0**---+---+	<1.0	<1	<1	<1	<1
	Dissolved Selenium	<1.0	ug/L	34	1	0	-	**X** +---+---**0**---+---+	<1.0	<1	<1	<1	<1
CAK-SH113-20100712	**SH113**	**7/12/2010**											
	Dissolved Manganese	48.8	ug/L	41	18.5	12.6	**2.4**	+---+---**0**---+---+ **X**	20.2	16.8	46.4	15.5	26.2
	Dissolved Selenium	<1.0	ug/L	41	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0

August Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SH105-20100811	SH105	8/11/2010											
	Dissolved Manganese	23.1	ug/L	65	3.98	8.49	**2.3**	+---+---**0**---+---+ **X**	6.1	5.1	4.8	10.3	4.5
CAK-SH113-20100811	SH113	8/11/2010											
	Chloride	14	mg/L	42	3.88	1.73	**5.9**	+---+---**0**---+---+ **X**	5	2	2	5	2
	Dissolved Manganese	151	ug/L	42	19.2	13.3	**9.9**	+---+---**0**---+---+ **X**	48.8	20.2	16.8	46.4	15.5
	Dissolved Selenium	<1.0	ug/L	42	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0
CAK-SH109-20100812	SH109	8/12/2010											
	Color	70	Color Unit	65	8.46	6.27	**9.8**	+---+---**0**---+---+ **X**	<5	<5	10	<5	15
	pH field	6.57	pH	75	7.64	0.255	**-4.2**	**X** +---+---**0**---+---+	7.94	8.02	7.68	7.93	7.55

September Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SLC-20100920	SLC	9/20/2010											
	Hardness, Total	67.4	mg/L	65	45.6	10.7	**2**	+---+---**0**---+---+ **X**	52.2	50.5	63	40.6	41.7
CAK-JS4-20100927	JS4	9/27/2010											
	pH field	8.27	pH	62	7.52	0.368	**2**	+---+---**0**---+---+ **X**	8.11	7.95	7.36	7.83	7.92
CAK-SH105-20100913	SH105	9/13/2010											
	Total Dissolved Solids	470	mg/L	74	68.7	37.2	**11**	+---+---**0**---+---+ **X**	<10	60	29	42	96
CAK-SH113-20100913	SH113	9/13/2010											
	Ammonia as N	0.4	mg/L	43	0.116	0.0485	**5.9**	+---+---**0**---+---+ **X**	0.1	0.2	<0.1	<0.1	<0.1
	Dissolved Manganese	112	ug/L	43	22.3	24	**3.7**	+---+---**0**---+---+ **X**	151	48.8	20.2	16.8	46.4
	Dissolved Selenium	<1.0	ug/L	43	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0
	Nitrate as N	0.52	mg/L	43	0.215	0.148	**2.1**	+---+---**0**---+---+ **X**	0.27	0.3	0.1	0.17	0.34

October Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SH109-20101005g	**SH109**	**10/5/2010**											
	Lab Turbidity	12.5	NTU	226	0.59	2.03	**5.9**	+---+---**0**---+---+ **X**	0.6	0.32	0.49	0.2	0.2
CAK-SLB-20101025	**SLB**	**10/25/2010**											
	Total Dissolved Solids	146	mg/L	67	65.7	21.7	**3.7**	+---+---**0**---+---+ **X**	89	29	114	54	62
CAK-SH111-20101020	**SH111**	**10/20/2010**											
	Ammonia as N	<0.10	mg/L	35	0.1	0	-	+---+---**0**---+---+ **X**	<0.1	<0.1	<0.1	<0.1	<0.1
	Chloride	<1.0	mg/L	35	<1	0	-	**X** +---+---**0**---+---+	<1	<1	<1	<1	<1
	Dissolved Manganese	<1.0	ug/L	35	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1	<1	<1
	Dissolved Nickel	<1.0	ug/L	35	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1	<1	<1
	Dissolved Selenium	<1.0	ug/L	35	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1	<1	<1
CAK-SH113-20101019	**SH113**	**10/19/2010**											
	Dissolved Selenium	<1.0	ug/L	44	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0
	Lab Turbidity	2.08	NTU	44	0.718	0.646	**2.1**	+---+---**0**---+---+ **X**	0.4	0.4	0.4	1.4	1.8

November Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-JS2-20101104	**JS2**	**11/4/2010**											
	Dissolved Aluminum	12.2	ug/L	64	2.89	2.32	**4**	+---+---**0**---+---+ **X**	5.3	4.1	2.3	2.5	2.8
	pH field	N/A	pH	64	7.3	0.496	**-15**	**X** +---+---**0**---+---+	7.21	7.92	8.3	8.22	7.31
CAK-JS5-20101104	**JS5**	**11/4/2010**											
	Dissolved Aluminum	31.3	ug/L	64	7.67	5.16	**4.6**	+---+---**0**---+---+ **X**	8.5	8	3.7	5.1	4
	Dissolved Copper	1.3	ug/L	64	0.974	0.132	**2.5**	+---+---**0**---+---+ **X**	<1.0	<1	<1.0	<1.0	<1.0
CAK-JS4-20101104	**JS4**	**11/4/2010**											
	Dissolved Aluminum	52.4	ug/L	64	13.1	9.44	**4.2**	+---+---**0**---+---+ **X**	16.5	21.3	5.7	8.1	5.5
	Dissolved Copper	1.5	ug/L	64	0.989	0.172	**3**	+---+---**0**---+---+ **X**	<1.0	<1	<1.0	<1.0	<1.0
	Lab Turbidity	3.1	NTU	50	0.709	0.707	**3.4**	+---+---**0**---+---+ **X**	0.46	1.16	0.6	0.3	0.4
	Mercury Dissolved	0.0023	ug/L	58	0.001	0.000286	**4.4**	+---+---**0**---+---+ **X**	<0.0010	0.001	<0.0010	<0.0010	<0.0010
	Total Suspended Solids	7.6	mg/L	64	4.73	1.11	**2.6**	+---+---**0**---+---+ **X**	5.6	<4.0	<4	<4	<4
CAK-SH103-20101103	**SH103**	**11/3/2010**											
	Lab Turbidity	1.71	NTU	37	0.236	0.198	**7.4**	+---+---**0**---+---+ **X**	0.26	0.2	0.4	<0.1	0.2
CAK-SH105-20101103	**SH105**	**11/3/2010**											
	Dissolved Copper	1.8	ug/L	76	1.13	0.324	**2.1**	+---+---**0**---+---+ **X**	1.4	<1.0	<1.0	<1.0	<1.0
	Mercury Dissolved	0.0021	ug/L	60	0.0011	0.000338	**2.8**	+---+---**0**---+---+ **X**	0.0014	<0.0010	0.0011	<0.0010	<0.0010

November Receiving Waters 2010 Cont.

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-SH111-20101103	**SH111**	**11/3/2010**											
	Ammonia as N	<0.10	mg/L	36	0.1	0	-	+---+---**0**---+---+ **X**	<0.10	<0.1	<0.1	<0.1	<0.1
	Chloride	<1	mg/L	36	1	0	-	**X** +---+---**0**---+---+	<1.0	<1	<1	<1	<1
	Dissolved Aluminum	10	ug/L	36	3.41	3.16	**2.1**	+---+---**0**---+---+ **X**	4.2	2.8	9.5	3.3	3.8
	Dissolved Copper	1.6	ug/L	36	1.01	0.0667	**8.8**	+---+---**0**---+---+ **X**	<1.0	<1.0	<1.0	<1	<1
	Dissolved Manganese	<1.0	ug/L	36	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1	<1
	Dissolved Nickel	<1.0	ug/L	36	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1	<1
	Dissolved Selenium	<1.0	ug/L	36	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1	<1
	Total Dissolved Solids	125	mg/L	36	36.9	30.6	**2.9**	+---+---**0**---+---+ **X**	42	12	27	53	16
CAK-SH113-20101103	**SH113**	**11/3/2010**											
	Color	30	Color Unit	44	9.68	7.08	**2.9**	+---+---**0**---+---+ **X**	10	5	<5	<5	<5
	Dissolved Aluminum	45.1	ug/L	45	9.8	7.69	**4.6**	+---+---**0**---+---+ **X**	20.2	5.6	10.7	8.2	9.1
	Dissolved Copper	1.7	ug/L	45	1.04	0.162	**4.1**	+---+---**0**---+---+ **X**	1.2	<1.0	<1.0	<1.0	<1.0
	Dissolved Selenium	<1.0	ug/L	45	1	0	-	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0
	Lab Turbidity	5.47	NTU	45	0.748	0.67	**7.1**	+---+---**0**---+---+ **X**	2.08	0.4	0.4	0.4	1.4
	Mercury Dissolved	0.0021	ug/L	45	0.001	0.000167	**6.4**	+---+---**0**---+---+ **X**	0.0011	<0.0010	<0.0010	<0.0010	<0.0010
CAK-SH109-20101102	**SH109**	**11/2/2010**											
	Lab Turbidity	32.6	NTU	230	0.642	2.16	**15**	+---+---**0**---+---+ **X**	0.33	0.89	0.49	12.5	0.6

December Receiving Waters 2010

Sample No.	Stn.Code	Collect Date/Time	Units	N	Avg	St.Dev.	Num.SD	-2S --- 0 --- +2S	Most Recent Results -->				
CAK-JS2-20101209	**JS2**	**12/9/2010**											
	Dissolved Oxygen	17.57	mg/L	62	12.2	1.07	**5**	+---+---**0**---+---+ **X**	12.78	11.63	11.3	12.48	13.48
CAK-SLB-20101206	**SLB**	**12/6/2010**											
	Chloride	4.3	mg/L	69	1.36	0.915	**3.2**	+---+---**0**---+---+ **X**	1.4	1.6	1	1	<1
	Conductivity	358	umhos/cm	70	102	22.5	**11**	+---+---**0**---+---+ **X**	95.7	97.9	142	114.6	130.8
	Hardness, Total	138	mg/L	69	45.6	11.5	**8**	+---+---**0**---+---+ **X**	40.2	44.8	65	56.1	58.6
	Nitrate as N	0.359	mg/L	57	0.0737	0.0843	**3.4**	+---+---**0**---+---+ **X**	<0.050	<0.050	<0.05	<0.05	<0.05
	Sulfate	85.6	mg/L	69	5.82	4.21	**19**	+---+---**0**---+---+ **X**	2.31	2.64	3.2	3.1	3.2
	Total Dissolved Solids	225	mg/L	69	66.5	23.7	**6.7**	+---+---**0**---+---+ **X**	38	146	89	29	114
CAK-SLC-20101206	**SLC**	**12/6/2010**											
	Chloride	3.3	mg/L	68	1.87	0.709	**2**	+---+---**0**---+---+ **X**	1.8	2.05	2	1	<1
	Conductivity	235	umhos/cm	69	103	25.8	**5.1**	+---+---**0**---+---+ **X**	117.5	114.3	152.1	109.7	115.4
	Hardness, Total	87.7	mg/L	68	46.1	10.8	**3.9**	+---+---**0**---+---+ **X**	48	52.7	67.4	52.2	50.5
	Sulfate	42.7	mg/L	68	5.22	2.48	**15**	+---+---**0**---+---+ **X**	4.73	5.48	6	4	2.6
CAK-MLA-20101206	**MLA**	**12/6/2010**											
	Dissolved Aluminum	214	ug/L	72	60	25.1	**6.1**	+---+---**0**---+---+ **X**	94.9	83.6	46.1	71.5	45.8
CAK-SH113-20101215	**SH113**	**12/15/2010**											
	Ammonia as N	0.55	mg/L	46	0.122	0.0629	**6.8**	+---+---**0**---+---+ **X**	<0.10	<0.10	0.4	0.1	0.2
	Chloride	10.7	mg/L	46	4.22	2.31	**2.8**	+---+---**0**---+---+ **X**	5	3.8	8.3	14	5
	Conductivity	316.0	umhos/cm	47	176	66.7	**2.1**	+---+---**0**---+---+ **X**	106.5	132.6	285.0	203.0	158.6
	Dissolved Manganese	93.5	ug/L	46	24.7	26.8	**2.6**	+---+---**0**---+---+ **X**	38.6	27.4	112	151	48.8
	Dissolved Selenium	<1	ug/L	46	1	0	**-**	**X** +---+---**0**---+---+	<1.0	<1.0	<1.0	<1.0	<1.0
	Nitrate as N	0.77	mg/L	46	0.221	0.15	**3.7**	+---+---**0**---+---+ **X**	0.208	0.22	0.52	0.27	0.3
CAK-SH105-20101215	**SH105**	**12/15/2010**											
	Conductivity	20	umhos/cm	78	112	40.4	**-2.3**	**X** +---+---**0**---+---+	85.5	92.8	103.5	101.5	78
	Dissolved Oxygen	15.06	mg/L	75	12.7	1.14	**2.1**	+---+---**0**---+---+ **X**	12.89	12.53	11.62	12.38	12.5

Appendix C – Discharge Monitoring Reports Results

OUTFALL 001- Influent

2010 Discharge Monitoring Report Results

		January		*February*		*March*	
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Total Suspended Solids	mg/L	59	145	172	369	161	249
Total Recoverable Arsenic	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Iron	ug/L	2,115	3,220	6,368	12,500	7,194	9920
Total Recoverable Selenium	ug/L	1.8	2	1.8	1.9	1.6	1.7
Total Chromium	ug/L	0.0	<2.5	0.7	2.6	0.0	<2.5
Total Recoverable Nickel	ug/L	0.7	2.6	1.6	2.6	1.4	2.2
Total Recoverable Silver	ug/L	0.0	<0.1	0.1	0.3	0.2	1
Total Recoverable Zinc	ug/L	12.4	14.7	23.3	36.5	28.6	35
Total Recoverable Aluminum	ug/L	1,217	2200	3,596	7,450	4,266	6200
Total Recoverable Cadmium	ug/L	0.0	<0.1	0.0	<0.1	0.0	<0.1
Total Recoverable Lead	ug/L	1.0	1.47	3.9	7.6	3.3	5.07
Total Recoverable Copper	ug/L	9.2	12.1	23.7	45.5	27.3	39.8
Total Recoverable Manganese	ug/L	69	91	237	473	247	373
Mercury Total	ug/L	0.0038	0.0065	0.0140	0.0279	0.0148	0.0207

* Values reported as less than MDL were replaced with zero for calculating monthly averages

OUTFALL 001- Influent

2010 Discharge Monitoring Report Results

		April		*May*		*June*	
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Total Suspended Solids	mg/L	209	300	311	626	217	617
Total Recoverable Arsenic	ug/L	0.00	<2.5	0.00	0.0	0.00	<2.5
Total Recoverable Iron	ug/L	6,643	7,930	7,972	12500	9,496	21800
Total Recoverable Selenium	ug/L	1.4	1.8	1.6	2.0	1.2	1.6
Total Chromium	ug/L	0.0	<2.5	1.4	3.0	1.4	4.2
Total Recoverable Nickel	ug/L	1.9	2.2	1.6	2.6	1.7	3.2
Total Recoverable Silver	ug/L	1.0	1.5	1.2	4.3	1.0	2
Total Recoverable Zinc	ug/L	23.1	30.0	23.0	34.7	29.0	65
Total Recoverable Aluminum	ug/L	3,683	4900	4,689	7430	5,585	13400
Total Recoverable Cadmium	ug/L	0.0	<0.1	0.0	0.0	0.0	<0.1
Total Recoverable Lead	ug/L	2.9	3.7	3.8	6.5	4.4	11.3
Total Recoverable Copper	ug/L	24.4	31.1	30.1	54.3	33.9	88.5
Total Recoverable Manganese	ug/L	232	265	338	475	333	654
Mercury Total	ug/L	0.0153	0.0294	0.0243	0.0502	0.0148	0.0297

* Values reported as less than MDL were replaced with zero for calculating monthly averages

OUTFALL 001- Influent

2010 Discharge Monitoring Report Results

		July		*August*		*September*	
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Total Suspended Solids	mg/L	333	2,200	888	3,550	698	2,390
Total Recoverable Arsenic	ug/L	0.65	2.6	1.32	4.0	0.00	<2.5
Total Recoverable Iron	ug/L	9,906	21,100	31,268	60,400	12,605	18,800
Total Recoverable Selenium	ug/L	1.5	1.7	1.5	2.1	1.9	2.0
Total Chromium	ug/L	2.2	4.9	5.3	12.2	3.2	4.9
Total Recoverable Nickel	ug/L	1.9	3.7	3.5	6.4	1.9	2.5
Total Recoverable Silver	ug/L	0.8	2.2	1.4	3.1	0.4	0.5
Total Recoverable Zinc	ug/L	37.7	81	86.3	175.0	30.3	44.0
Total Recoverable Aluminum	ug/L	5,379	12,200	16,684	32,900	6,303	8,590
Total Recoverable Cadmium	ug/L	0.0	<0.1	0.1	0.3	0.0	<0.1
Total Recoverable Lead	ug/L	3.7	7.0	10.9	20.4	4.4	6.35
Total Recoverable Copper	ug/L	45.0	91.1	118.1	251.0	40.1	54.0
Total Recoverable Manganese	ug/L	519	917	1,396	2,620	507	666
Mercury Total	ug/L	0.0129	0.0238	0.1241	0.189	0.0316	0.0456

* Values reported as less than MDL were replaced with zero for calculating monthly averages

OUTFALL 001- Influent

2010 Discharge Monitoring Report Results

		October		*November*		*December*	
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Total Suspended Solids	mg/L	1,290	7,890	510	4,050	162	1,970
Total Recoverable Arsenic	ug/L	1.45	5.80	1.44	7.20	0.00	<2.5
Total Recoverable Iron	ug/L	34,735	102,000	27,287	124,000	2,845	3,750
Total Recoverable Selenium	ug/L	1.6	2.0	1.6	2.5	1.4	1.9
Total Chromium	ug/L	8.2	19.6	4.0	19.8	0.0	<2.5
Total Recoverable Nickel	ug/L	6.6	18.7	2.8	11.4	0.6	1.2
Total Recoverable Silver	ug/L	1.7	5.4	1.1	4.8	0.2	0.3
Total Recoverable Zinc	ug/L	108.2	319.0	152.1	672.0	15.8	18.5
Total Recoverable Aluminum	ug/L	18,793	56,200	12,199	54,200	1,478	2,120
Total Recoverable Cadmium	ug/L	0.2	0.5	0.1	0.5	0.0	<0.1
Total Recoverable Lead	ug/L	6.8	11.7	9.0	40.6	2.8	4.76
Total Recoverable Copper	ug/L	200.1	621.0	191.1	921.0	18.8	35.0
Total Recoverable Manganese	ug/L	1,509	4,450	1,236	5,620	176	210
Mercury Total	ug/L	0.1049	0.337	0.1085	0.509	0.0196	0.0249

* Values reported as less than MDL were replaced with zero for calculating monthly averages

OUTFALL 001- Effluent

2010 Discharge Monitoring Report Results

		January		*February*		*March*	
Parameter	**Units**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**
pH	pH units	6.77	7.28	6.91	7.18	6.67	7.33
Hardness Downstream of Outfall	mg/L	75	92	80	102	48	99
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Temperature	oC	1.5	2.9	1.7	2.6	3.0	6.0
Turbidity	NTU	0.2	0.3	0.2	0.3	0.6	1.6
Background Turbidity	NTU	0.4	0.5	0.3	0.5	0.7	2.4
Turbidity Difference	NTU	-0.2	0.0	-0.1	0.1	-0.2	0.3
Sulfate (as S)	mg/L	29.2	30.7	33.0	35.7	36.0	40.4
Dissolved oxygen	mg/L	11.64	14.57	12.98	13.48	13.08	14.14
Total Suspended Solids	mg/L	0	<4	0	<4	0	<4
Ammonia as N	mg/L	0.0	<0.1	0.1	0.3	0.2	0.5
Nitrate as N	mg/L	0.11	0.17	0.28	0.5	0.73	1.34
Total Recoverable Arsenic	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Iron	ug/L	0	<50	0	<50	0	<50
Total Recoverable Selenium	ug/L	1.6	1.7	1.7	1.9	1.6	1.8
Total Chromium	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Nickel- "O"	ug/L	0.7	2.9	0.8	3.0	1.0	2.1
Total Recoverable Nickel- "P"	ug/L	***	***	0.0	<1	***	***
Total Recoverable Nickel- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Silver- "O"	ug/L	0.0	<0.1	0.0	<0.1	0.0	<0.1
Total Recoverable Silver- "P"	ug/L	***	***	0.0	<0.1	***	***
Total Recoverable Silver- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Zinc- "O"	ug/L	3.9	4.4	4.4	5.7	4.6	8.7
Total Recoverable Zinc- "P"	ug/L	***	***	3.7	3.7	***	***
Total Recoverable Zinc- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Aluminum	ug/L	0.6	1.20	2.1	4.0	1.5	4.5
Total Recoverable Cadmium- "O"	ug/L	0.0	<0.1	0.0	<0.1	0.0	<0.1
Total Recoverable Cadmium- "P"	ug/L	***	***	0.0	<0.1	***	***
Total Recoverable Cadmium- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Lead- "O"	ug/L	0.0	0.17	0.0	<0.16	0.0	<0.16
Total Recoverable Lead- "P"	ug/L	***	***	0.0	<0.16	***	***
Total Recoverable Lead- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Copper- "O"	ug/L	1.5	6.0	0.0	<1	0.0	<1
Total Recoverable Copper- "P"	ug/L	***	***	0.0	<1	***	***
Total Recoverable Copper- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Manganese	ug/L	55.0	67.6	115.6	181.0	114.1	148.0
Total Dissolved Solids	mg/L	222	251	254	288	248	277
Mercury Total	ug/L	0.0000	<0.001	0.0000	<0.001	0.0000	<0.001

*Values reported as less than PQL were replaced with zero for calculating monthly averages

***No value to report: Downstream hardness not within criteria

2010 Discharge Monitoring Report Results

		April		*May*		*June*	
Parameter	**Units**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**
pH	pH units	6.72	7.33	6.66	7.34	6.54	7.73
Hardness Downstream of Outfall	mg/L	34.7	89.3	43.5	52.4	39	66.6
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Temperature	oC	3.1	4	5.8	6.9	6.1	6.5
Turbidity	NTU	0.4	0.6	0.5	0.6	0.4	0.7
Background Turbidity	NTU	1.4	4.2	0.6	1.1	0.6	1.5
Turbidity Difference	NTU	-1.0	0.1	-0.2	0.2	-0.2	0.2
Sulfate (as S)	mg/L	30.0	37.5	9.1	10.1	8.2	8.5
Dissolved oxygen	mg/L	12.69	13.01	11.55	12.51	12.23	12.93
Total Suspended Solids	mg/L	0	<4	0	0	0	14
Ammonia as N	mg/L	0.1	0.2	0.2	0.3	0.3	0.6
Nitrate as N	mg/L	0.81	1.02	0.68	0.91	0.66	0.89
Total Recoverable Arsenic	ug/L	0.00	<2.5	0.00	0	0.00	<2.5
Total Recoverable Iron	ug/L	0	<50	0	0	0	<50
Total Recoverable Selenium	ug/L	1.3	1.7	1.5	1.9	1.1	1.6
Total Chromium	ug/L	0.00	<2.5	0.00	0.00	0.00	<2.5
Total Recoverable Nickel- "O"	ug/L	1.4	2.1	1.3	2	1.0	2.3
Total Recoverable Nickel- "P"	ug/L	***	***	***	***	***	***
Total Recoverable Nickel- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Silver- "O"	ug/L	0.0	<0.1	0.0	0.0	0.0	<0.1
Total Recoverable Silver- "P"	ug/L	***	***	***	***	***	***
Total Recoverable Silver- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Zinc- "O"	ug/L	1.4	2.9	0.6	2.9	0.9	3
Total Recoverable Zinc- "P"	ug/L	***	***	***	***	***	***
Total Recoverable Zinc- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Aluminum	ug/L	1.9	3.2	5.2	17.7	1.6	2.6
Total Recoverable Cadmium- "O"	ug/L	0.0	<0.1	0.0	0.0	0.0	<0.1
Total Recoverable Cadmium- "P"	ug/L	***	***	***	***	***	***
Total Recoverable Cadmium- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Lead- "O"	ug/L	0.0	<0.16	0.0	0.0	0.0	<0.16
Total Recoverable Lead- "P"	ug/L	***	***	***	***	***	***
Total Recoverable Lead- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Copper- "O"	ug/L	0.0	<1	0.0	0.0	0.0	<1
Total Recoverable Copper- "P"	ug/L	***	***	***	***	***	***
Total Recoverable Copper- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Manganese	ug/L	153.3	167	168.8	191	120.6	149
Total Dissolved Solids	mg/L	251	279	214	235	183	230
Mercury Total	ug/L	0.0004	0.0017	0.0000	0.000	0.0000	<0.001

*Values reported as less than PQL were replaced with zero for calculating monthly averages

***No value to report: Downstream hardness not within criteria

OUTFALL 001- Effluent

2010 Discharge Monitoring Report Results

		July		*August*		*September*	
Parameter	**Units**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**
pH	pH units	6.56	7.81	6.58	7.60	6.73	7.42
Hardness Downstream of Outfall	mg/L	56.4	80.7	86	106	76	123
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Temperature	oC	6.6	7.3	7.8	10.3	10.0	10.6
Turbidity	NTU	0.2	0.3	0.7	1.8	0.8	1.55
Background Turbidity	NTU	0.3	0.4	0.6	0.9	0.5	0.9
Turbidity Difference	NTU	-0.2	0.1	0.1	0.9	0.3	1.06
Sulfate (as S)	mg/L	9.1	9.8	10.3	10.9	12.6	14.5
Dissolved oxygen	mg/L	12.10	12.44	10.92	11.87	11.25	11.53
Total Suspended Solids	mg/L	0	<4	1	13	0	5
Ammonia as N	mg/L	1.1	1.7	1.3	3.3	1.9	4.5
Nitrate as N	mg/L	1.76	2.41	2.16	5.22	3.16	7.26
Total Recoverable Arsenic	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Iron	ug/L	13	51	15	91	23	65
Total Recoverable Selenium	ug/L	1.5	1.8	1.3	1.9	1.7	1.9
Total Chromium	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Nickel- "O"	ug/L	1.5	2.1	2.2	3.7	2.0	2
Total Recoverable Nickel- "P"	ug/L	***	***	2.1	2.1	3.1	3.5
Total Recoverable Nickel- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Silver- "O"	ug/L	0.0	<0.1	0.0	<0.1	0.0	<0.1
Total Recoverable Silver- "P"	ug/L	***	***	0.0	<0.1	0.0	<0.1
Total Recoverable Silver- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Zinc- "O"	ug/L	1.6	3.6	2.3	4.3	3.2	3.2
Total Recoverable Zinc- "P"	ug/L	***	***	0.0	<2.5	3.1	5.8
Total Recoverable Zinc- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Aluminum	ug/L	6.4	18.8	5.2	11.4	2.8	5.7
Total Recoverable Cadmium- "O"	ug/L	0.0	<0.1	0.0	<0.1	0.0	<0.1
Total Recoverable Cadmium- "P"	ug/L	***	***	0.0	<0.1	0.0	<0.1
Total Recoverable Cadmium- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Lead- "O"	ug/L	0.0	<0.16	0.0	<0.16	0.0	<0.16
Total Recoverable Lead- "P"	ug/L	***	***	0.0	<0.16	0.0	<0.16
Total Recoverable Lead- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Copper- "O"	ug/L	0.0	<1	0.0	<1	0.0	<1
Total Recoverable Copper- "P"	ug/L	***	***	0.0	<1	0.0	<1
Total Recoverable Copper- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Manganese	ug/L	170.5	222.0	343.2	538.0	400.8	468
Total Dissolved Solids	mg/L	238	254	264	300	326	375
Mercury Total	ug/L	0.0000	<0.001	0.0000	<0.001	0.0011	0.0057

*Values reported as less than PQL were replaced with zero for calculating monthly averages

***No value to report: Downstream hardness not within criteria

OUTFALL 001- Effluent

2010 Discharge Monitoring Report Results

		October		*November*		*December*	
Parameter	**Units**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**	**MINIMUM**	**MAXIMUM**
pH	pH units	6.52	8.09	6.54	7.79	6.50	7.5
Hardness Downstream of Outfall	mg/L	37.4	83.4	22.8	97.1	94	114
Parameter	**Units**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**	**MO AVG**	**DAILY MX**
Temperature	oC	7.6	8.4	6.4	7.5	5.3	6.3
Turbidity	NTU	0.8	1.3	0.9	2.5	0.7	2.1
Background Turbidity	NTU	3.9	12.5	5.9	32.6	0.2	0.3
Turbidity Difference	NTU	-2.6	0.97	-4.9	0.37	0.4	1.8
Sulfate (as S)	mg/L	10.0	11.7	9.7	10.5	12.0	14.3
Dissolved oxygen	mg/L	11.66	12.84	12.37	14.54	12.45	14.05
Total Suspended Solids	mg/L	0	4.4	1	16	2	20
Ammonia as N	mg/L	0.8	1.06	0.7	0.9	0.7	0.79
Nitrate as N	mg/L	1.36	1.73	1.18	1.45	1.26	1.40
Total Recoverable Arsenic	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Iron	ug/L	14	55	226	676	831	1,970
Total Recoverable Selenium	ug/L	1.6	1.7	1.4	1.5	1.6	2
Total Chromium	ug/L	0.00	<2.5	0.00	<2.5	0.00	<2.5
Total Recoverable Nickel- "O"	ug/L	2.0	2.8	2.2	2.9	2.1	2.1
Total Recoverable Nickel- "P"	ug/L	***	***	***	***	2.0	2.2
Total Recoverable Nickel- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Silver- "O"	ug/L	0.0	<0.1	0.0	<0.1	0.0	<0.1
Total Recoverable Silver- "P"	ug/L	***	***	***	***	0.0	<0.1
Total Recoverable Silver- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Zinc- "O"	ug/L	2.0	7.8	4.7	5.8	5.2	5.2
Total Recoverable Zinc- "P"	ug/L	***	***	***	***	6.5	8.7
Total Recoverable Zinc- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Aluminum	ug/L	3.6	4.9	9.8	20.8	44.6	113
Total Recoverable Cadmium- "O"	ug/L	0.0	<0.1	0.0	0.1	0.1	0.1
Total Recoverable Cadmium- "P"	ug/L	***	***	***	***	0.0	<0.1
Total Recoverable Cadmium- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Lead- "O"	ug/L	0.0	<0.16	0.0	<0.16	0.0	<0.16
Total Recoverable Lead- "P"	ug/L	***	***	***	***	0.2	0.5
Total Recoverable Lead- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Copper- "O"	ug/L	0.0	<1	0.0	<1	0.0	<1
Total Recoverable Copper- "P"	ug/L	***	***	***	***	0.9	1.9
Total Recoverable Copper- "Q"	ug/L	***	***	***	***	***	***
Total Recoverable Manganese	ug/L	277.8	512.0	196.0	426.0	156.7	179.0
Total Dissolved Solids	mg/L	250	316	238	368	247	310
Mercury Total	ug/L	0.0000	<0.001	0.0002	0.0012	0.0016	0.0043

*Values reported as less than PQL were replaced with zero for calculating monthly averages
***No value to report: Downstream hardness not within criteria

OUTFALL 002 Effluent

2010 Discharge Monitoring Report Results

		December	
Parameter	**Units**	**MINIMUM**	**MAXIMUM**
pH	pH units	6.53	8.18
Hardness	mg/L	281	308
Parameter	**Units**	**MO AVG**	**DAILY MX**
Temperature	oC	5.3	8.6
Turbidity	NTU	0.6	0.9
Background Turbidity	NTU	0.9	1.3
Turbidity Difference	NTU	-0.4	0.0
Sulfate	mg/L	248.2	256
Dissolved oxygen	mg/L	11.44	13.63
Total Suspended Solids	mg/L	0.0	<4.0
Ammonia as N	mg/L	0.70	0.9
Nitrate as N	mg/L	0.98	1.05
Total Recoverable Arsenic	ug/L	0.0	<2.5
Total Recoverable Iron	ug/L	268	476
Total Recoverable Selenium	ug/L	0.0	<2.5
Total Chromium	ug/L	0.0	<2.5
Total Recoverable Nickel	ug/L	2.4	3.2
Total Recoverable Silver	ug/L	0.0	<0.1
Total Recoverable Zinc	ug/L	4.1	5.2
Total Recoverable Aluminum	ug/L	5.6	8.2
Total Recoverable Cadmium	ug/L	0.0	<0.1
Total Recoverable Lead	ug/L	0.00	<0.16
Total Recoverable Copper	ug/L	0.0	<1.0
Total Recoverable Manganese	ug/L	377.2	408.0
Total Dissolved Solids	mg/L	470	484
Mercury Total	ug/L	0.0000	<0.0001

*Values reported as less than PQL were replaced with zero for calculating monthly averages

***No value to report: Downstream hardness not within criteria

001 Final Effluent

TDS Quarterly Anions/Cations, December 2010

sampled 1/12/10

Parameters	*Units*	*Results*
Alkalinity	mg/L	56
Boron	mg/L	<0.03
Calcium	mg/L	52
Chloride	mg/L	15
Conductivity	umhos/cm	351
Fluoride	mg/L	<0.2
Hardness	mg/L	148
Potassium	mg/L	<1
Magnesium	mg/L	4.28
Sodium	mg/L	5.88
Sulfate, Total	mg/L	82.7
pH (Lab)	pH	7.25

001 Final Effluent

TDS Quarterly Anions/Cations, April, 2010

sampled 4/6/10

Parameters	*Units*	*Results*
Alkalinity	mg/L	72
Boron	mg/L	0.038
Calcium	mg/L	68.3
Chloride	mg/L	19.00
Conductivity	umhos/cm	451
Fluoride	mg/L	<0.20
Hardness	mg/L	191
Potassium	mg/L	1.73
Magnesium	mg/L	4.93
Sodium	mg/L	8.48
Sulfate, Total	mg/L	37.2
pH (Lab)	pH	7.38

001 Final Effluent

TDS Quarterly Anions/Cations, October 2010

sampled 10/12/10

Parameters	*Units*	*Results*
Alkalinity	mg/L	56
Boron	mg/L	<0.03
Calcium	mg/L	50.6
Chloride	mg/L	21
Conductivity	umhos/cm	363
Fluoride	mg/L	<0.40
Hardness	mg/L	142
Potassium	mg/L	1.46
Magnesium	mg/L	3.7
Sodium	mg/L	5.88
Sulfate, Total	mg/L	77.1
pH (Lab)	pH	6.88

001 Final Effluent

TDS Quarterly Anions/Cations, July, 2010

sampled 7/6/10

Parameters	*Units*	*Results*
Alkalinity	mg/L	124
Boron	mg/L	0.036
Calcium	mg/L	55.2
Chloride	mg/L	19
Conductivity	umhos/cm	365
Fluoride	mg/L	<0.40
Hardness	mg/L	155
Potassium	mg/L	1.47
Magnesium	mg/L	4.04
Sodium	mg/L	6.4
Sulfate, Total	mg/L	78.7
pH (Lab)	pH	7.40