

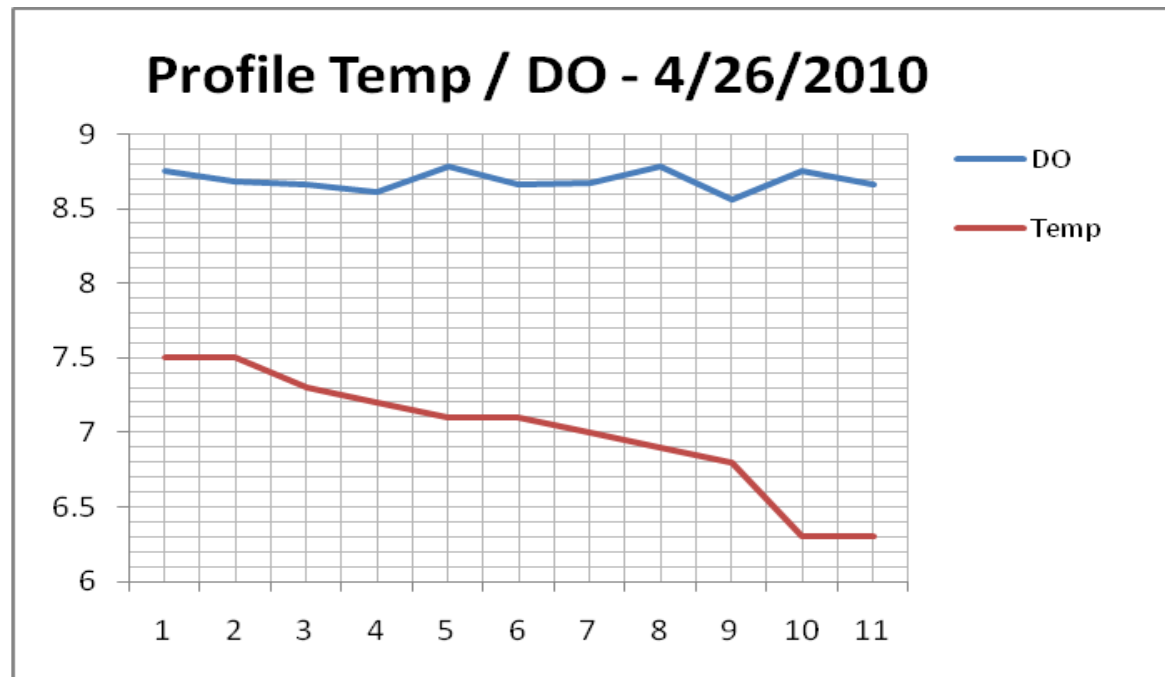
MEMORANDUM

Sampling Date: April 26, 2010  
 To: *Bear Creek Watershed Association*  
 From: Russell N. Clayshulte, Manager  
 Re: 2010 Bear Creek Reservoir Summary Data



Table 1 Reservoir Profile 4/26/2010

Site	Time	SC	DO	Temp	pH	Rel NO3		
TCIn; 16a	9:38	0.348	11.44	3	7.83	1.11		
BCIn; 15a	10:06	0.288	10.65	4.7	8.07	1.03		
LBCout; 45	10:28	0.359	10.36	7.8	8.09	0.95		
BCReservoir	40a/40c					Rel NO3	Secchi m	T Depth m
1m	12:00	0.357	8.75	7.5	8.37	0.9	0.15	10.85
2m		0.357	8.68	7.5	8.08	0.79		
3m		0.359	8.66	7.3	7.93	0.74		
4m		0.359	8.61	7.2	7.91	0.71		
5m		0.363	8.78	7.1	7.87	0.68		
6m		0.366	8.66	7.1	7.84	0.67		
7m		0.366	8.67	7	7.81	0.66		
8m		0.376	8.78	6.9	7.78	0.65		
9m		0.372	8.56	6.8	7.8	0.65		
10m		0.358	8.75	6.3	7.79	0.64		
11m		0.358	8.66	6.3	7.79	0.63		



**Table 2 Reservoir Profiles 4/26/2010**

Site 41 (1)	Time	SC	DO	Temp	pH	Rel NO3	Secchi m	T Depth m
1m	12:18	0.36	8.9	7.8	8	0.63	0.59	8
2m		0.361	8.74	7.4	7.83	0.61		
3m		0.36	8.89	7.2	7.82	0.61		
4m		0.357	8.85	6.8	7.8	0.53		
5m		0.356	8.93	6.6	7.83	0.62		
6m		0.356	8.99	6.6	7.79	0.62		
7m		0.356	9.05	6.6	7.81	0.62		
8m		0.356	9.02	6.4	7.76	0.61		
Site 42 (3)	Time	SC	DO	Temp	pH	Rel NO3	Secchi m	T Depth m
1m	12:29	0.362	8.8	7.6	8.01	0.67	0.51	5.45
2m		0.359	8.78	7.2	7.87	0.61		
3m		0.359	8.79	7.1	7.85	0.63		
4m		0.359	8.72	7	7.83	0.63		
5m		0.359	8.91	6.5	7.82	0.63		
6m		0.357	9.05	6.3	7.76	0.62		
Site 43 (4)	Time	SC	DO	Temp	pH	Rel NO3	Secchi m	T Depth m
1m	12:42	0.359	9.03	7.2	8.06	0.63	0.45	2.8
2m		0.36	8.99	7.1	7.97	0.58		
3m		0.369	8.4	6.8	7.8	0.57		
Site 44 (5)	Time	SC	DO	Temp	pH	Rel NO3	Secchi m	T Depth m
1m	12:30	0.362	8.82	8.7	8.11	0.58	0.55	6.55
2m		0.364	8.74	7.6	7.93	0.54		
3m		0.366	8.53	7.4	7.85	0.56		
4m		0.367	8.57	7.4	7.83	0.57		
5m		0.37	8.62	7.4	7.8	0.57		
6m		0.384	8.23	7.3	7.79	0.56		
		0.407	7.75	7.2	7.74	0.53		

**Table 3 Coyote Gulch Field Data 4/26/10**

	Time	SC	DO	Temp	pH	Flow	
Upper Coyote	10:49	0.589	8.95	6.62	8.17	0.87	5.2 cfs
Lower Coyote	11:00	0.593	9.78	6.8	8.31	1.01	10.1 cfs

**Table 4 Bear Creek Laboratory Monitoring Data**

Site	Parameter (ug/l)	1/25/10	2/22/10	3/29/10
Bear Creek Inflow, Site 15a	Nitrate/Nitrite as N, dissolved	1,453	1467	1084
	Phosphorus, total	45	41	32
	Total Dissolved Phosphorus	41	29	9
	Residue, Non-Filterable (TSS)	5.2		9.8
Turkey Creek Inflow, Site 16a	Nitrate/Nitrite as N, dissolved	695	789	784
	Phosphorus, total	11	16	46
	Total Dissolved Phosphorus	5	2	5
	Residue, Non-Filterable (TSS)	5.6	17.2	29.8
Bear Creek Reservoir Top, Site 40a	Chlorophyll a	2.1	14	1.8
	Nitrate/Nitrite as N, dissolved	791	1019	593
	Total Nitrogen			
	Phosphorus, total	15	26	16

Site	Parameter (ug/l)	1/25/10	2/22/10	3/29/10
	Total Dissolved Phosphorus	16	12	8
	Residue, Non-Filterable (TSS)			5.4
Bear Creek Reservoir Bottom, Site 40c	Nitrate/Nitrite as N, dissolved	393	547	348
	Total Nitrogen			
	Phosphorus, total	15	13	15
	Total Dissolved Phosphorus	8	9	6
	Residue, Non-Filterable (TSS)	13.3		4.6
Lower Bear Creek Outflow, Site 45	Nitrate/Nitrite as N, dissolved	693	973	579
	Phosphorus, total	17	28	16
	Total Dissolved Phosphorus	11	14	6
	Residue, Non-Filterable (TSS)			

**Table 5      2010 Flows, cfs**

SITE	25-Jan	22-Feb	29-Mar	26-Apr
Turkey Creek Inflow	3.2	1.8	13.5	164
Bear Creek Inflow	8.7	5.3	35.3	263
Lower Bear Creek	7.8	7.9	58.7	150



**Figure 1      Very high water in Bear Creek Reservoir 4/26/2020**