
BEAR VALLEY WATER DISTRICT

Manager's Report 17 April 2010

From: General Manager

REPORT OF WASTE DISCHARGE

The Report of Waste Discharge was technically due 180 days prior to the NPDES permit expiration date of 1 October 2010, which date would be 3 April 2010. On 1 April we received a one-week extension on submitting the document. A digital copy of it was transmitted to RWQCB staff on 11 April 2010.

As the document was 588 pages, on Monday 12 April I gave a disc to Staples to make 12 copies of document for us. Wednesday evening 14 April at 1938 hrs I received a phone call from Staples that they couldn't print the document due to a minor error message. That error message, regarding a Times New Roman font width deviation, did not affect printing from my computer. But, the District was fortunate for this occurrence as, with a little more time to reflect, now we could downsize the project and save a substantial sum.

I went to Foothill Printing in Arnold Thursday 15 April and worked out that they would make four copies of the 510-page appendix in black and white, while I would print the main text with the color pages.

Finally, on Friday we sent out the main hard copy to RWQCB.

SAFETY EXPENDITURES

1. An order from Blue Book totaling \$761.52 was comprised of:
 - a. \$174.75 for gas detector calibration gas;
 - b. \$158.50 for two life preservers;
 - c. \$27.00 for 120 feet rope;
 - d. \$95.90 for two floatation vests;
 - e. \$89.90 for a digital sound meter;
 - f. \$37.50 for two boxes of gloves;
 - g. \$8.00 for a two life ring hangers.

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- 2. An order from Jorgenson totaled approximately \$900 and was comprised of:
 - a. \$500 for a replacement sensor to detect chlorine gas leaks (current one expired in 2006);
 - b. \$290 for Chlorine calibration gas;
 - c. \$110 for accessories and shipping.

PUMP REPLACEMENT, CHICKAREE STATION

On 13 April we ordered the replacement pump for Chickaree Station. The total cost will be \$3930.56. With five weeks for delivery, it should arrive in time for the season.

ANALYTICAL SUPPLIES

- 1. An order from Hach totaled \$260.38 and was comprised of:
 - a. \$76.65 for pH buffer;
 - b. \$139.77 for reagents to put chlorine residual analyzer into service;
 - c. \$9.39 for Silicone Oil for turbidity analysis.

OPERATIONAL SUMMARY

We continue transferring effluent to the Storage/Polishing Reservoir at an approximately 100 gpm flowrate split 70/30 between the 12-inch and 6-inch outfalls.

March influent flow this averaged 0.058 MGD, last year it was a 0.100 MGD monthly average. In 2009, flows went over 0.100 MGD consistently beginning 19 March, this year, even in April, while we are seeing some 0.100 MGD days, they are not yet consistently above that level.

We are testing pH two or three times a day at the Storage/Polishing Reservoir and at Bloods Creek. pH levels at both locations are turning out to be in the upper 5-lower 6 range. This is a real development as the previous District Engineer made much of the elevated pH to be expected in the reservoir from algae impact. Under current circumstances we are not seeing that. And, all things remaining equal, depressed pH in Bloods Creek would benefit from doses of higher pH as will be seen in the reservoir when the algae becomes more active towards June.

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On 6 April, the auto-dialer in the equipment house, which transmits key alarms from the chlorine leak detection system and from the outfall discharge equipment, was placed back into service. It had not been working for an undetermined length of time. As soon as the replacement chlorine leak sensor is installed, the system will be fully functional.

The Cl-17 inline chlorine analyzer was placed into service. It has yet to be calibrated, as the swimming pool test kit the District uses is not a reliable chlorine testing method. A request to purchase equipment for an EPA-approved chlorine testing procedure is being submitted for consideration at the upcoming Board meeting.

The chlorine tank is scheduled to be completed 27 April. My current thought is that it should be installed at the earliest opportunity so that the 12-inch outfall from the reservoir can be purged of Treatment Pond effluent to allow for full-scale testing of the reservoir through the outfall sample tap.

BEAR VALLEY WASTE WATER TREATMENT FACILITY

Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139
Alpine County

Month: **March**
Year: **2010**

INFLUENT MONITORING						NPDES	TREATMENT POND		
Day	Daily Flow (MGD)	BOD ₅ (mg/L)	pH (SU)	Electrical Conductivity (umhos/cm)	Total Suspended Solids (mg/L)	Discharge to Bloods Creek (MGD)	Dissolved Oxygen ¹ (mg/L)	pH ¹ (SU)	Freeboard (0.1 ft)
1	0.032		8.6			0.000			
2	0.028	391	8.3		374	0.000			
3	0.029		8.1			0.000	11.00	7.08	3.0
4	0.032		8.2			0.000			
5	0.037		8.1			0.000			
6	0.059		7.6			0.000			
7	0.056		8.6			0.000			
8	0.034		7.3			0.000			
9	0.030	263	7.8	569	254	0.000	20.50	7.06	
10	0.029		8.0			0.000			
11	0.033		8.2			0.000			3.2
12	0.042		7.9			0.000			
13	0.076		8.5			0.000			
14	0.062		8.1			0.000			
15	0.041	260	8.4		200	0.000			
16	0.042		8.1			0.000			
17	0.042		7.0			0.000	6.69	6.86	
18	0.050		6.9			0.000			3.3
19	0.059		7.1			0.000			
20	0.060		7.4			0.000			
21	0.073		7.1			0.000			
22	0.059		6.9			0.000			
23	0.069	108	6.7		42	0.000			
24	0.065		6.6			0.000	7.14	6.60	
25	0.076		6.3			0.000			3.5
26	0.082		7.1			0.000			
27	0.103		6.8			0.000			
28	0.109		7.0			0.000			
29	0.093		6.8			0.000			
30	0.110		6.5			0.000			
31	0.093		6.7			0.000	6.66	6.79	
Total	1.806					0.000			
Max	0.110	391	8.6	569	374	0.000	20.5	7.1	3.5
Min	0.028	108	6.3	569	42	0.000	6.7	6.6	3.0
Avg	0.058	256	7.5	569	218	0.000	10.4	6.9	3.2

¹ Samples collected from effluent transfer line, not from Treatment Pond surface

BEAR VALLEY WASTEWATER TREATMENT FACILITY

Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139

Alpine County

Month: **February**

Year: **2010**

Treatment Pond Effluent Monitoring									Storage/Polishing Reservoir								
Day	Flow (MGD)	BOD (mg/L)	Settleable Solids (ml/L/hr)	Total Suspended Solids (mg/L)	Total Coliform Organisms (MPN/100 ml)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrogen (mg/L)	Total Dissolved Solids (mg/L)	Dissolved Oxygen (mg/L)	pH (SU)	BOD (mg/L)	Total Suspended Solids (mg/L)	Total Kjeldahl Nitrogen ¹ (mg/L)	Nitrate-Nitrogen ¹ (mg/L)	Total Nitrogen ¹ (mg/L)	Total Dissolved Solids ¹ (mg/L)	Freeboard (Feet) Total Depth: 23.5 ft
1	0.044																
2	0.130																
3	0.132	14		7.9	<2			228									18.5
4	0.132																
5	0.124																
6	0.128																
7	0.127																
8	0.130																
9	0.125																
10	0.124	13		5.7	2			251									
11	0.140																18.0
12	0.142																
13	0.131																
14	0.145																
15	0.131																
16	0.136																
17	0.142								18.7	8.86	4.5	7.7	5.3	0.86	6.16	137	
18	0.132								20.7	8.74							17.5
19	0.142								27.5	7.3	2.9	<5.0	2.2	0.74	2.94	134	
20	0.128								15.7	8.93							
21	0.143								17.7	7.23							
22	0.141								23.4	7.47							
23	0.136								11.9	6.9							
24	0.144								12.5	7.2	2.3	5.3	3.9	2.7	6.6	95	
25	0.135								9.8	9.25							17
26	0.131								9.4	6.72							
27	0.136								13.7	9.29							
28	0.131								16.9	8.7							
29	0.133								22.5	8.71							
30	0.137								15.8	7.6							
31	0.137																
Total	4.067																
Max	0.145	14.0	-	7.9	2	-	-	251	27.5	9.3	5	8	5	2.7	6.6	137.0	18.5
Min	0.044	13.0	-	5.7	<2	-	-	228	9.4	6.7	2	5	2	0.7	2.9	95.0	17
Avg	0.131	13.5	-	6.8	2	-	-	240	16.9	8.1	3	7	4	1.4	5.2	122.0	18

Reservoir Frozen, Sample Tap
Unavailable as Treatment Pond Effluent
Transferring Through 12-inch
Outfall/Inlet in to Reservoir

¹ Total Nitrogen and TDS shall only be conducted in those months when application to disposal area occurs