



**BEAR VALLEY
WATER DISTRICT**

P.O. Box 5027
Bear Valley, CA 95223
(209) 753-2112

BOARD OF DIRECTORS:
DAVID B. RITCHIE
JIM BISSELL
JERRY NELSON
PHILL COFFMAN
BARBARA J. GOODRICH

2 September 2010

Mary Boyd

CVRWQCB

11020 Sun Center Drive #200

Rancho Cordova, CA 95670-6114

Subject: Order 5-01-208, Discharge Monitoring Report (DMR), July 2010

Dear Ms. Boyd:

Monthly Report, Waste Discharge Requirements, Order 5-01-208

Enclosed please find tabular summaries of monitoring data from the Bear Valley Wastewater Treatment Facility for the month of July 2010. No effluent was discharged to Bloods Creek during this reporting period. In addition to the standard data tables, we enclose for your convenience updated summaries of data from the Storage/Polishing Reservoir and Bloods Creek, influent metals data, and Treatment Pond effluent metals data.

The new chlorine contact tank was installed and placed into service on July 31st, a Saturday. On that date we measured a total chlorine residual of 4.82 mg/L and were dosing at 20 lbs/day at 170 gpm to achieve a dose of 10 mg/L chlorine. As reported to your office on 26 August by telephone, the first samples for Total Coliform out of the new tank were collected on 4 August and came back with a result of >2400 MPN/100 ml. The chlorine dose measured immediately after those samples were collected (one coliform sample was from the new sample tap at the end of contact tank, the other at the end of the 6-inch outfall line) was 1.7 mg/L. While normally such a residual concentration would have resulted in adequate disinfection from the outfall line, apparently, the new tank had not yet been adequately conditioned. Our response to having measured a residual of 1.7 mg/L at the time, prior to knowledge of the ultimate lab results, was to restore the intended chlorine dose and a residual of 9.9 mg/L was measured. Chlorine residuals for the succeeding days were: 4.8 mg/L on 8/5; 17.1 mg/L on 8/6; 14.5 mg/L on 8/7; 14.3 mg/L on 8/8; and 17.2 mg/L on 8/9. Resampling was conducted on 8/9 and results were: <1 MPN/100 ml E-Coli by QT; <1 Total Coliform by QT; and, <2 MPN/100 ml Total and Fecal Coliform by 15-tube fermentation.

As reported last month, due to the late snowmelt this year, the first Tri-Annual groundwater-monitoring event took place 13 July. J&L Analytical, the lab that collected the samples, has advised us that results were delayed due to the sudden death of a critical staff person. The results have been received at this time and the report is under preparation by our groundwater consultant.

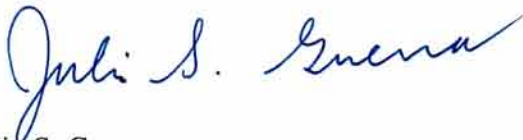
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I am looking forward to your visit on 9 September.

Please do not hesitate to contact me at (209) 753-2112 if there are any questions.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Respectfully,

A handwritten signature in blue ink that reads "Julio S. Guerra". The signature is written in a cursive style with a large initial 'J'.

Julio S. Guerra
General Manager

cc: Board of Directors
Gary Ghio, District Engineer

Enclosures

BEAR VALLEY WASTE WATER TREATMENT FACILITY

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

Month: **July**
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 (mg/L)	pH (SU)	Freeboard (0.1 ft)
1	0.102		6.5			0.000			
2	0.120		6.4			0.000			
3	0.156		7.1			0.000			
4	0.170		7.1			0.000			
5	0.142		7.3			0.000			
6	0.109	160	6.9	393	172	0.000			
7	0.103		7.0			0.000	13.8	8.8	3.0
8	0.099		6.8			0.000			
9	0.086		6.8			0.000			
10	0.089		6.7			0.000			
11	0.079		7.1			0.000			
12	0.059		7.1			0.000			
13	0.053	246	7.0		292	0.000			
14	0.052		7.1			0.000			
15	0.063		7.2			0.000	1.4	7.2	3.0
16	0.048		7.1			0.000			
17	0.063		6.9			0.000			
18	0.065		7.2			0.000	6.6	7.6	
19	0.052		7.3			0.000			
20	0.046	328	7.3		357	0.000			2.8
21	0.050		7.3			0.000	4.7	6.7	
22	0.048		7.1			0.000			
23	0.054		7.1			0.000			
24	0.078		7.1			0.000			
25	0.056		7.2			0.000			
26	0.043		7.2			0.000			
27	0.048	520	7.1		588	0.000			
28	0.046		7.2			0.000	2.2	6.9	2.8
29	0.045		7.2			0.000			
30	0.061		7.2			0.000			
31	0.080		7.7						
Total	2.365					0.000			
Max	0.170	520	7.7	393	588	0.000	13.8	8.8	3.0
Min	0.043	160	6.4	393	172	0.000	1.4	6.7	2.8
Avg	0.076	314	7.1	393	61	0.000	5.7	7.4	2.9

BEAR VALLEY WASTEWATER TREATMENT FACILITY
Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139

Alpine County

Month: July
Year: 2010

Day	Treatment Pond Effluent Monitoring										Storage/Polishing Reservoir							Freeboard (Feet) Total Depth: 23.5 ft	
	Flow (MGD)	BOD (mg/L)	Settleable Solids (mL/hr)	Total Suspended Solids (mg/L)	Total Coliform Organisms (MPN/100 ml)	Total Kjeldahl Nitrogen (mg/L)	Ammonia-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)	Ammonia-Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrogen (mg/L)	Total Nitrogen (mg/L)		Total Dissolved Solids (mg/L)
1	0.176								13.9	10.0									
2	0.174									10.0									
3	0.174								13.7	10.2									
4	0.172								11.2	9.72									
5	0.172																		
6	0.170								1.6	9.18									9.5
7	0.167	8.6	<0.1	11	<2	12	8.7	0.038	7.1	8.79									
8	0.164																		
9	0.000																		
10	0.000																		
11	0.000																		
12	0.000																		
13	0.000																		
14	0.000																		
15	0.000								6.1	7.59		<1.0	<5.0	2.0	3.9	0.36	4.26	88	10.5
16	0.000																		
17	0.000																		
18	0.000								9.6	7.6									
19	0.000																		
20	0.000																		
21	0.000								8.4	6.2									
22	0.000																		
23	0.000																		
24	0.000																		
25	0.000																		
26	0.000																		
27	0.000																		
28	0.000								9.5	9.2									12.0
29	0.000																		
30	0.000																		
31	0.239																		
Total	1.606																		
Max	0.239	8.6	<1	11.0	<2	12.0	8.7	0.038	13.9	10.2	<1.0	<5.0	2.0	3.9	0.36	4.3	88.0	12.0	
Min	0.000	<1.0	<1	11.0	<2	12.0	8.7	0.038	1.6	6.2	<1.0	<5.0	2.0	3.9	0.36	4.3	88.0	9.5	
Avg	0.046	<3.2	<1	11.0	<2	12.0	8.7	0.038	9.0	8.9	<1.0	<5.0	2.0	3.9	0.36	4.3	88.0	11	

* Carbonaceous BOD

BEAR VALLEY WASTEWATER TREATMENT FACILITY

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

Alpine County

Month: July

Year: 2010

North Area Disposal Area Monitoring							
DATE	FLOW (MGD)	Rainfall (Inches)	Acreage Applied (Acres)	Total Nitrogen (mg/L)	Nitrogen Application Rate (lbs/acre)	Total Dissolved Solids (TDS) (mg/L)	TDS Application Rate (lbs/acre)
1	0.049	0	10		0.17		3.6
2	0.054	0	10		0.19		3.9
3	0.046	0	10		0.16		3.4
4	0.076	0	10		0.27		5.6
5	0.000	0	10		0.00		0.0
6	0.017	0	10		0.06		1.2
7	0.083	0	10		0.30		6.1
8	0.151	0	10		0.53		11.0
9	0.000	0	10		0.00		0.0
10	0.144	0	10		0.51		10.6
11	0.000	0	10		0.00		0.0
12	0.103	0	10		0.37		7.6
13	0.152	0	10		0.54		11.2
14	0.156	0	10	4.26	0.56	88	11.5
15	0.129	0	10		0.46		9.5
16	0.000	0	10		0.00		0.0
17	0.006	0	10		0.02		0.5
18	0.095	0	10		0.34		7.0
19	0.012	0	10		0.04		0.9
20	0.137	0	10		0.49		10.1
21	0.000	0	10		0.00		0.0
22	0.106	0	10		0.38		7.8
23	0.083	0	10		0.30		6.1
24	0.115	0	10		0.41		8.4
25	0.000	0	10		0.00		0.0
26	0.138	0	10		0.49		10.1
27	0.128	0	10		0.45		9.4
28	0.000	0	10		0.00		0.0
29	0.119	0	10		0.42		8.8
30	0.104	0	10		0.37		7.6
31	0.100	0	10		0.35		7.3
Total MG:	2.303	0	Total Inches	Total lbs N/acre:	8.18	Total lbs TDS/acre:	169
Avg	0.074	0.00		4.26	0.26	88	5.5
Max	0.156	0.00		4.26	0.56	88	11.5
Min	0.000	0.00		4.26	0.00	88	0.0
MG/acre:		0.230					

BEAR VALLEY WASTEWATER TREATMENT FACILITY

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

Alpine County

Month: July

Year: 2010

East Area Disposal Area Monitoring							
DATE	FLOW (MGD)	Rainfall (Inches)	Acreage Applied (Acres)	Total Nitrogen (mg/L)	Nitrogen Application Rate (lbs/acre)	Total Dissolved Solids (TDS) (mg/L)	TDS Application Rate (lbs/acre)
1	0.236	0	49		0.17		3.5
2	0.366	0	49		0.27		5.5
3	0.241	0	49		0.17		3.6
4	0.890	0	49		0.65		13.3
5	0.380	0	49		0.28		5.7
6	0.225	0	49		0.16		3.4
7	0.218	0	49		0.16		3.3
8	0.513	0	49		0.37		7.7
9	0.348	0	49		0.25		5.2
10	1.029	0	49		0.75		15.4
11	0.123	0	49		0.09		1.8
12	0.598	0	49		0.43		9.0
13	0.494	0	49		0.36		7.4
14	0.565	0	49	4.26	0.41	88	8.5
15	0.367	0	49		0.27		5.5
16	0.602	0	49		0.44		9.0
17	0.439	0	49		0.32		6.6
18	0.242	0	49		0.18		3.6
19	0.781	0	49		0.57		11.7
20	0.505	0	49		0.37		7.6
21	0.491	0	49		0.36		7.4
22	0.602	0	49		0.44		9.0
23	0.599	0	49		0.43		9.0
24	0.599	0	49		0.43		9.0
25	0.419	0	49		0.30		6.3
26	0.423	0	49		0.31		6.3
27	0.681	0	49		0.49		10.2
28	0.349	0	49		0.25		5.2
29	0.387	0	49		0.28		5.8
30	0.499	0	49		0.36		7.5
31	0.437	0	49		0.32		6.5
Total MG:	14.645			Total lbs N/acre:	10.62	Total lbs TDS/acre:	219
Avg	0.472			4.26	0.34	88	7.1
Max	1.029			4.26	0.75	88	15.4
Min	0.123			4.26	0.09	88	1.8
MG/acre:		0.299					

BEAR VALLEY WATER DISTRICT POLISHING RESERVOIR DATA FROM SURFACE SAMPLES 2010

Parameter	1/15/10	3/17/10	3/19/10	3/24/10	4/2/10	5/5/10	6/2/10	6/15/10	6/30/10	7/14/10
Aluminum (mg/L)	0.078	0.141	0.114	0.104	0.073	<0.050	<0.050	0.052	<0.050	-
Aluminum, Dissolved (mg/L)	-	-	-	-	-	-	-	<0.050	<0.050	-
Aluminum, Acid Soluble (mg/L)	-	-	-	-	-	-	-	<0.050	<0.050	0.022
Boron (mg/L)	-	0.06	<0.05	<0.05	<0.05	<0.05	<0.0016	0.02	-	-
Copper (mg/L)	0.003	0.0056	0.0054	0.0033	0.0018*	-	-	-	-	-
Copper by Icp/MS	-	-	-	-	-	<0.0005	<0.0005	0.0018	0.0011	0.0019
Copper, Dissolved (mg/L)	0.0032	0.0036	<0.003	0.0035	0.0025	0.0014*	<0.0005	-	-	-
Copper, Dissolved by ICP/MS (mg/L)	-	-	-	-	-	<0.0005	<0.0005	0.0017	0.0011	0.0019
Copper, Acid Soluble by ICP/MS (mg/L)	-	-	-	-	-	-	-	0.0021	0.0012	0.0027
Iron (mg/L)	0.195	0.561	0.219	0.257	0.273	<0.050	<0.050	0.49	0.16	0.17
Iron, Dissolved (mg/L)	0.109	0.34	0.133	0.191	0.168	<0.050	<0.050	0.22	<0.050	0.12
Iron, Acid Soluble, (mg/L)	-	-	-	-	-	-	-	0.45	0.13	0.14
Manganese (mg/L)	0.138	0.081	0.026	0.012	0.053	<0.020	<0.020	0.069	0.029	0.023
Manganese, Dissolved (mg/L)	0.101	0.061	0.023	0.0097	0.047	<0.020	<0.020	0.033	<0.020	<0.020
Manganese, Acid Soluble (mg/L)	-	-	-	-	-	-	-	0.072	0.026	0.023
BOD (mg/L)	4.2	4.5	2.9	2.3	4.9	<1.0	<1.0	-	-	-
CBOD (mg/L)	1.5	-	1.9	-	-	-	-	2.9	2.7	<1.0
TSS (mg/L)	<5.0	7.7	<5.0	5.3	<5.0	<5.0	<5.0	14	8.8	<5.0
Na (mg/L)	13	23	13.6	13.8	13	<0.50	0.89	-	-	12
Cl (mg/L)	10	18	10	8.4	12	<0.50	0.58	-	-	12
Fl (mg/L)	<0.10	<0.10	<0.10	<0.10	0.1	<0.1	<0.1	<0.1	-	-
TKN (mg/L)	3.6	5.3	2.2	3.9	3.8	<1.0	1.4	8.4	5.9	3.9
NO3-N (mg/L)	3.2	0.86	0.74	2.7	1.2	1.4	0.34	0.37	0.34	0.4
NH3-N (mg/L)	1.4	3.5	1.3	1.9	2.4	<0.50	0.78	<0.5	5.6	2.0
TDS (mg/L)	170	137	134	95	96	378	38	222	69	88
EC (umho/cm)	126	-	107	-	-	-	-	125	144	119
TC-15 (MPN/100 ml)	4	15	30	<2	70	<2	2	2	-	22
FC-15 (MPN/100 ml)	<2	<2	30	<2	<2	<2	<2	<2	-	2
Alkalinity, Total (mg/L)	-	-	-	-	-	-	13	40	40	29
Hardness (mg/L)	28	24	28	121	28	24	6.9	20	24	18
Turbidity (NTU)	4.6	11	3.2	3.6	4.4	0.36	0.75	-	-	0.93

* Estimated "J Flag" Values

**BEAR VALLEY WATER DISTRICT
SPECIAL SAMPLING PROJECT 2010
BLOODS CREEK pH**

Date/Time	pH (SU)	Temp C	Calibration Slope -58.3 (+ or - 3)
7/1/10 7:55	6.24	7.2	-57.3
7/2/10 8:11	5.77	10.3	-57.8
7/2/10 17:30	6.02	17.1	-57.8
7/3/10 8:54	5.80	10.2	-57.4
7/4/10 8:12	5.98	8.9	-57.2
7/5/10 8:05	5.99	9.5	-57.3
7/5/10 18:00	6.16	19.4	
7/6/10 8:11	6.07	10.4	-57.2
7/6/10 18:10	6.14	20.8	
7/7/10 8:30	6.05	9.5	-57.1
7/7/10 17:40	6.22	13.4	-57.5
7/8/10 7:50	6.14	9.9	-57.3
7/8/10 17:30	6.38	20.0	-57.6
7/9/10 7:50	8.42	9.1	-57.3
7/9/10 16:50	6.14	22.3	-57.5
7/10/10 7:59	5.81	9.4	-57.5
7/11/10 8:00	5.74	9.5	-57.6
7/12/10 8:05	5.87	10.1	-57.4
7/12/10 18:15	6.20	23.6	-57.4
7/13/10 8:58	5.81	11.4	-57.4
7/13/10 18:30	5.88	21.4	-57.6
7/14/10 7:50	5.87	12.2	-57.4
7/15/10 9:45	6.33	13.3	-57.4
7/15/10 19:40	6.23	23.4	-57.5
7/17/10 9:17	5.80	11.8	-57.5
7/18/10 7:49	5.78	11.4	-57.2
7/19/10 8:45	5.81	10.8	-57.5
7/20/10 8:54	5.89	11.1	-57.2
7/21/10 7:55	5.91	11.9	-57.5
7/22/10 8:45	7.48	11.4	-57.5
7/23/10 8:23	5.65	12.3	-57.5
7/24/10 8:35	5.95	12.7	-57.2
7/25/10 7:50	5.98	12.6	-57.3
7/26/10 8:45	5.78	13.0	-57.4
7/26/10 18:00	6.37	8.3	-57.5
7/27/10 8:45	6.19	12.8	-57.2
7/27/10 17:20	6.30	9.9	-57.2
7/28/10 7:45	5.99	10.9	-57.7
7/29/10 8:00	6.52	12.6	-57.7
7/29/10 16:30	6.36	8.1	-57.7
7/30/10 8:10	5.92	7.5	-57.6
7/31/10 8:30	6.14	11.9	-57.5