



**BEAR VALLEY
WATER DISTRICT**
P.O. Box 5027
Bear Valley, CA 95223
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BOARD OF DIRECTORS:
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14 March 2011

Victor Vasquez
CVRWQCB
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Subject: Order R5-2005-139, Self-Monitoring Report (SMR), February 2011

Dear Mr. Vasquez:

Monthly Report, Waste Discharge Requirements, Order R5-2005-139

Enclosed please find tabular summaries of monitoring data from the Bear Valley Wastewater Treatment Facility for the month of February 2011. No effluent was discharged to Bloods Creek during this reporting period.

For your convenience, we discuss each of the attachment pages separately.

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The daily and total influent and Bloods Creek discharge flow totals and routine influent monitoring results from the influent composite sampler are presented, as well as routine Treatment Pond monitoring results. We have added columns to report routine monitoring of Bloods Creek for pH and dissolved oxygen, although our NPDES permit only requires such testing during periods when discharge actually occurs. The presence of snow and ice prevented access for monitoring the Treatment Pond surface so beginning in December we began using the submerged outlet for the weekly DO and pH testing as we did last year.

Beginning in December we included columns to report daily precipitation and daily snow water content. Last month we added columns to report influent pounds per day for BOD and TSS.

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4.071 MG of Treatment Pond effluent was transferred to the Polishing Reservoir during February. Total volume transferred this season totals 16.720 MG. That volume represents 15.77% of total reservoir volume. As of 28 February, based on reservoir elevation however, our capacity chart showed that there was about 52 MG in the reservoir, which would constitute 49.2% of reservoir volume. As mentioned in previous reports, and in the Annual Report, we are going to verify reservoir dimensions after this irrigation season when it is empty.

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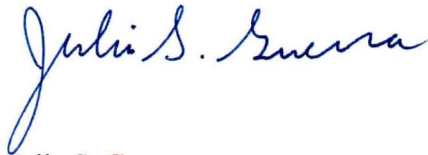
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Results from the 19 January 2011 sample from the Polishing Reservoir sample tap are updated with an additional analysis for total Lead, and a lower detection level for total Copper than was originally reported. Please note that the total Lead concentration is an estimated "J-Flag" value of 0.00021 mg/L (or 210 parts per trillion), which is at a level of less than one-half of the laboratory Reporting Level of 0.0005 (or 500 parts per trillion).

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,



Julio S. Guerra
General Manager

cc: Board of Directors
Gary Ghio, District Engineer

BEAR VALLEY WASTE WATER TREATMENT FACILITY

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

Month: **February**
Year: **2011**

INFLUENT MONITORING										NPDES BLOODS CREEK			TREATMENT POND		
Day	Daily Flow (MGD)	BOD ₅ (mg/L)	pH (SU)	Electrical Conductivity (umhos/cm)	Total Suspended Solids (mg/L)	BOD ₅ (lbs/day)	Total Suspended Solids (lbs/day)	Daily Precipitation (Inches)	Snow Water Content (Inches)	Discharge to Bloods Creek (MGD)	Dissolved Oxygen (mg/L)	pH (SU)	Dissolved Oxygen (mg/L)	pH (SU)	Freeboard (0.1 ft)
1	0.048	475	7.9	284	93	190	37	0.00	26.39	0.000					
2	0.046		7.4					0.00	26.39	0.000			6.5	7.2	2.8
3	0.048		7.0					0.00	26.39	0.000	11.1	7.3			
4	0.061		7.2					0.00	26.39	0.000					
5	0.081		7.3					0.00	26.39	0.000					
6	0.073		7.9					0.00	26.39	0.000					
7	0.060		7.1					0.00	26.27	0.000					
8	0.055	81	7.5		67	37	31	0.00	26.27	0.000					
9	0.052		7.2					0.00	26.27	0.000			5.3	7.6	3.2
10	0.057		7.0					0.00	26.27	0.000	10.6				
11	0.070		7.3					0.00	26.27	0.000	10.6	7.3			
12	0.151		7.5					0.00	26.27	0.000					
13	0.088		7.8					0.00	26.27	0.000					
14	0.059		7.4					0.23	26.27	0.000					
15	0.056	114	7.1		112	53	52	0.00	26.27	0.000					
16	0.059		7.0					2.32	26.27	0.000			6.9	7.5	3.3
17	0.056		7.1					1.66	27.83	0.000					
18	0.084		7.3					2.24	29.87	0.000					
19	0.115		7.7					2.17	31.91	0.000		6.8			
20	0.151		8.4					0.15	33.23	0.000					
21	0.117		7.9					0.03	33.47	0.000					
22	0.075	290	8.2		357	181	223	0.06	33.59	0.000					
23	0.073		8.5					0.04	33.71	0.000			5.8	7.5	3.1
24	0.074		8.3					0.04	33.83	0.000	10.0	6.9			
25	0.078		8.4					0.20	34.07	0.000					
26	0.085		8.4					0.09	36.23	0.000					
27	0.071		8.6					0.75	36.35	0.000					
28	0.051		8.4					0.22	36.47	0.000					
Total	2.094							10.20		0.000					
Max	0.151	475	8.6	284	357	190	223	2.32	36.47	0.000	11.1	7.27	6.9	7.6	3.3
Min	0.046	81	7.0	284	67	37	31	0.00	26.27	0.000	10.0	6.82	5.3	7.2	2.8
Avg	0.075	240	7.7	284	157	115	86	0.36	29.34	0.000	10.6	7.07	6.1	7.4	3.1

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

Alpine County

Month: **February**
Year: **2011**

Treatment Pond Effluent Monitoring												Polishing Reservoir										
Day	Flow (MGD)	BOD (mg/L)	Settleable Solids (ml/L/hr)	TSS (mg/L)	Total Coliform Organisms (MPN/100 ml)	Total Kjeldahl Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Nitrate-Nitrogen (mg/L)	TDS (mg/L)	Total Chlorine Residual (mg/L)	Contact Time (mg/minutes)	Dissolved Oxygen (mg/L)	pH (SU)	BOD (mg/L)	TSS (mg/L)	Ammonia-Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrogen (mg/L)	Total Nitrogen (mg/L)	Total Dissolved Solids (mg/L)	Freeboard (Feet) Total Depth: 23.5 ft	
1	0.143									5.9	718											
2	0.136	11	<0.5	5.0		20	17	0.2	159	6.3	795	3.3	6.9									15.8
3	0.139									6.2	769											
4	0.175									6.3	618											
5	0.159									4.2	457											
6	0.149									5.1	588											
7	0.149				<2					7.7	899											
8	0.151									4.9	561											
9	0.154	11	<0.5	<5.0	<2					3.2	364	2.9	7.0									15.3
10	0.127									2.8	378											
11	0.141									5.4	659											
12	0.150									5.5	636											
13	0.144									5.5	659											
14	0.149									5.5	636											
15	0.150									6.3	722											
16	0.141									5.3	653	2.9	7.0									15.0
17	0.170									4.9	496											
18	0.048									4.4	1570											
19	0.000																					
20	0.143									2.2	261											
21	0.177									4.4	427											
22	0.182									3.1	296											
23	0.184		<0.5							5.9	555	2.8	6.9									14.5
24	0.115									3.6	545											14.0
25	0.188									4.7	431											14.0
26	0.179									4.8	461											14.0
27	0.181									6.0	574											13.8
28	0.149									6.5	756											13.8
Total	4.071																					
Max	0.188	11.0	<0.5	5.0	<2	20.0	17.0	0.200	159	7.7	1570	3.3	7.0									15.8
Min	0.000	11.0	<0.5	<5.0	<2	20.0	17.0	0.200	159	2.2	261	2.8	6.9									13.8
Avg	0.145	11.0	<0.5	5.0	<2	20.0	17.0	0.200	159	5.1	610	3.0	6.9									14.4