



**BEAR VALLEY
WATER DISTRICT**
P.O. Box 5027
Bear Valley, CA 95223
(209) 753-2112

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

31 October 2010

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

Subject: Order R5-2005-139, Self Monitoring Report (SMR), September 2010

Dear Ms. Boyd:

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 September 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.

As previously reported, due to the late snowmelt this year, the first Tri-Annual groundwater-monitoring event took place 13 July; the second one took place 24 August. The first Tri-Annual Report was submitted to your office on 9 September 2010; the second was submitted 25 October. The third Tri-Annual groundwater monitoring is scheduled for the first week of November.

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

Page 3

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.

Page 4

No Treatment Pond effluent was transferred to the Polishing Reservoir during September.

The Polishing Reservoir was sampled on 8 September from both the irrigation pump discharge and from the reservoir surface. The reported results are an average of the two samples collected that

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Bear Valley Water District
SMR September 2010
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date. Results of reservoir samples are individually reported on pages 5, 6, 7, and 8 of this report. We have added a column to report Turbidity results from the reservoir.

The floating suction was not utilized for transferring reservoir effluent during this reporting period. Consequently, effluent quality at the bottom of the reservoir, which is applicable to effluent applied to the East Area, is represented by irrigation pump data results. As a portable pump that draws from the surface supplies the North Area, results from the reservoir surface are applied to that area.

Page 5

The 10-acre North Area loadings are presented.

Page 6

Loadings to the 49 acres of the 68-acre East Area that were utilized during this reporting period are presented.

Page 7

Page 7 presents a summary of Polishing Reservoir surface sample data from 2010.

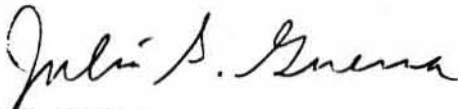
Page 8

Page 8 presents a summary of Polishing Reservoir data from samples collected through the outfall sample tap through June, and, during August and September, from the irrigation pump discharge during 2010.

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: **September**
Year: **2010**

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)	Discharge to Bloods Creek (MGD)	Dissolved Oxygen (mg/L)	pH (SU)	Dissolved Oxygen (mg/L)	pH (SU)	Freeboard (0.1 ft)
1	0.021		7.8			0.000			4.7	7.3	
2	0.025		7.7			0.000					
3	0.039		8.1			0.000					
4	0.075		8.4			0.000					3.1
5	0.093		8.2			0.000					
6	0.059		8.7			0.000					3.0
7	0.024	227		558	220	0.000					
8	0.021					0.000	3.8	6.79	4.9	7.5	
9	0.023		7.9			0.000					
10	0.022		7.6			0.000					
11	0.033		8.3			0.000					
12	0.028		8.1			0.000					
13	0.022		7.6			0.000					
14	0.023	241	7.3		407	0.000					
15	0.018		7.2			0.000	4.7	7.78	8.8	7.8	2.5
16	0.018		7.2			0.000					
17	0.023		8.5			0.000					
18	0.030		8.5			0.000					
19	0.027		8.5			0.000					
20	0.021		8.4			0.000					
21	0.028	447	8.4		809	0.000					
22	0.022		8.4			0.000	2.6	7.36	7.3	7.7	2.5
23	0.024		8.3			0.000					
24	0.024		8.3			0.000					
25	0.028		8.4			0.000					
26	0.024		8.3			0.000					
27	0.017		7.2			0.000					
28	0.016	421	7.6		400	0.000					
29	0.018		8.3			0.000	4.8	5.99	8.5	8.0	2.5
30	0.018		7.9			0.000					
Total	0.864					0.000					
Max	0.093	447	8.7	558	809	0.000	4.8	7.78	8.8	8.0	3.1
Min	0.016	227	7.2	558	220	0.000	2.6	5.99	4.7	7.3	2.5
Avg	0.029	334	8.0	558	459	0.000	4.0	6.98	6.8	7.7	2.7

BEAR VALLEY WASTEWATER TREATMENT FACILITY

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

Alpine County

Month: **September**

Year: **2010**

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)	Total Dissolved Solids (mg/L)	Dissolved Oxygen (mg/L)	pH (SU)	CBOD* (mg/L)	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)	Turbidity (NTU)	Freeboard (Feet) Total Depth: 23.5 ft		
1	0.000									3.3	7.5										5.46	17.0	
2	0.000																					4.95	
3	0.000																					5.36	
4	0.000																					5.24	
5	0.000																					5.13	
6	0.000																					5.07	
7	0.000																					5.08	
8	0.000									4.9	9.92	3.7	4.7	12	2	3.4	0.24	3.64	103		5.99	17.5	
9	0.000																					5.21	
10	0.000																					5.59	
11	0.000																					5.73	
12	0.000																					5.43	
13	0.000									9.1	9.1											4.96	
14	0.000																					5.31	
15	0.000																					4.85	18.5
16	0.000																					4.93	
17	0.000																					5.35	
18	0.000																					4.91	
19	0.000																					4.55	20.0
20	0.000																					4.69	
21	0.000																					5.75	
22	0.000									7.9	8.5											5.81	20.0
23	0.000																					4.92	
24	0.000																					4.86	
25	0.000																					5.24	
26	0.000																					5.02	
27	0.000																					5.83	
28	0.000																					6.30	
29	0.000									9.6	7.8											6.15	21.5
30	0.000																					5.93	
	0.000																						
Total	0.000																						
Max	0.000									9.6	9.9	3.7	4.7	12.0	2.0	3.4	0.24	3.6	103	6.30		21.5	
Min	0.000									3.3	7.5	3.7	4.7	12.0	2.0	3.4	0.24	3.6	103	4.55		17	
Avg	0.000									6.9	8.6	3.7	4.7	12.0	2.0	3.4	0.24	3.6	103	5.32		19	

* Carbonaceous BOD

<Note> Average of two samples on 8 September from Polishing Reservoir Surface and from Irrigation Pump

BEAR VALLEY WASTEWATER TREATMENT FACILITY

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

Alpine County

Month: **September**

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	0.197	0	10		0.61		17.0
2	0.170	0	10		0.52		14.6
3	0.189	0	10		0.58		16.2
4	0.156	0	10		0.48		13.4
5	0.235	0	10		0.72		20.2
6	0.125	0	10		0.39		10.7
7	0.000	0	10		0.00		0.0
8	0.000	0	10	3.7	0.00	103	0.0
9	0.111	0	10		0.34		9.5
10	0.165	0	10		0.51		14.1
11	0.196	0	10		0.60		16.8
12	0.167	0	10		0.51		14.3
13	0.248	0	10		0.77		21.3
14	0.081	0	10		0.25		7.0
15	0.370	0	10		1.14		31.8
16	0.202	0	10		0.62		17.4
17	0.177	0	10		0.55		15.2
18	0.162	0	10		0.50		13.9
19	0.196	0	10		0.61		16.9
20	0.000	0	10		0.00		0.0
21	0.175	0	10		0.54		15.0
22	0.103	0	10		0.32		8.8
23	0.143	0	10		0.44		12.3
24	0.049	0	10		0.15		4.2
25	0.128	0	10		0.40		11.0
26	0.143	0	10		0.44		12.3
27	0.096	0	10		0.30		8.2
28	0.216	0	10		0.67		18.6
29	0.147	0	10		0.45		12.6
30	0.139	0	10		0.43		12.0
Total MG:	4.488	0	Total Inches	Total lbs N/acre:	13.85	Total lbs TDS/acre:	385
Avg	0.150	0.000		3.70	0.46	103	12.8
Max	0.370	0.00		3.70	1.14	103	31.8
Min	0.000	0.00		3.70	0.00	103	0.0

MG/acre: 0.449

BEAR VALLEY WASTEWATER TREATMENT FACILITY

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

Alpine County

Month: September

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	0.166	0	49		0.10		2.9
2	0.352	0	49		0.21		6.2
3	0.217	0	49		0.13		3.8
4	0.166	0	49		0.10		2.9
5	0.281	0	49		0.17		4.9
6	0.360	0	49		0.22		6.3
7	0.408	0	49		0.25		7.2
8	0.145	0	49	3.57	0.09	103	2.5
9	0.211	0	49		0.13		3.7
10	0.328	0	49		0.20		5.8
11	0.238	0	49		0.14		4.2
12	0.198	0	49		0.12		3.5
13	0.283	0	49		0.17		5.0
14	0.287	0	49		0.17		5.0
15	0.349	0	49		0.21		6.1
16	0.460	0	49		0.28		8.1
17	0.610	0	49		0.37		10.7
18	0.526	0	49		0.32		9.2
19	0.437	0	49		0.27		7.7
20	0.639	0	49		0.39		11.2
21	0.580	0	49		0.35		10.2
22	0.137	0	49		0.08		2.4
23	0.509	0	49		0.31		8.9
24	0.489	0	49		0.30		8.6
25	0.612	0	49		0.37		10.7
26	0.639	0	49		0.39		11.2
27	0.650	0	49		0.39		11.4
28	0.680	0	49		0.41		11.9
29	0.471	0	49		0.29		8.2
30	0.537	0	49		0.33		9.4
Total MG:	11.966	0	Total Inches	Total lbs N/acre:	7.27	Total lbs TDS/acre:	210
Avg	0.399	0.000		3.57	0.24	103	7.0
Max	0.680	0.00		3.57	0.41	103	11.9
Min	0.137	0.00		3.57	0.08	103	2.4

MG/acre: 0.244

BEAR VALLEY WATER DISTRICT

POLISHING RESERVOIR

DATA FROM SURFACE SAMPLES 2010

	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE	POLISHING RESERVOIR SURFACE
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	8/4/10	9/8/10
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	-	-	-
Boron (mg/L)	-	0.06	<0.05	<0.05	<0.05	<0.05	<0.0016	0.02	-	0.022	-	-
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	-	0.81
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	-	0.071
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	-	-	-	3.5	4.8
CBOD (mg/L)	1.5	-	1.9	-	-	-	-	2.9	2.7	<1.0	2.3	4.8
TSS (mg/L)	<5.0	7.7	<5.0	5.3	<5.0	<5.0	<5.0	14	8.8	<5.0	<5.0	13
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	4.1	3.4
NO3-N (mg/L)	3.2	0.86	0.74	2.7	1.2	1.4	0.34	0.37	0.34	0.4	0.2	0.3
NH3-N (mg/L)	1.4	3.5	1.3	1.9	2.4	<0.50	0.78	<0.5	5.6	2.0	2.8	1.5
TDS (mg/L)	170	137	134	95	96	378	38	222	69	88	116	103
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

POLISHING RESERVOIR

DATA FROM OUTFALL TAP/IRRIGATION PUMP 2010

	RESERVOIR OUTFALL SAMPLE TAP GRAB	RESERVOIR OUTFALL SAMPLE TAP GRAB	RESERVOIR OUTFALL SAMPLE TAP GRAB	RESERVOIR OUTFALL SAMPLE TAP GRAB	RESERVOIR OUTFALL SAMPLE TAP COMPOSITE	RESERVOIR OUTFALL SAMPLE TAP COMPOSITE	RESERVOIR OUTFALL SAMPLE TAP COMPOSITE	RESERVOIR OUTFALL SAMPLE TAP COMPOSITE	RESERVOIR GRAB IRRIGATION PUMP	RESERVOIR GRAB IRRIGATION PUMP	RESERVOIR GRAB IRRIGATION PUMP
Parameter	12/30/09	1/15/10	2/24/10	6/16/10	6/17/10	6/20/10	6/22/10	6/29/10	8/4/10	8/25/10	9/8/10
Aluminum (mg/L)	0.241	0.167	0.088	0.051	<0.050	<0.050	<0.050	<0.050	0.091	-	-
Aluminum, Dissolved (mg/L)	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	-
Aluminum, Acid Soluble (mg/L)	-	-	-	-	<0.050	<0.050	<0.050	<0.050	-	-	-
Boron (mg/L)	-	-	0.074	<0.050	-	-	-	-	0.03	-	-
Copper by ICP (mg/L)	0.0047	0.0044	0.0066	-	-	-	-	-	0.012	-	-
Copper by ICP/MS (mg/L)	-	-	-	0.003	0.0028	0.0027	0.0028	0.0019	-	-	-
Copper, Dissolved (mg/L)	<0.003	<0.003	0.0057	-	-	-	-	-	0.0087	-	-
Copper, Dissolved by ICP/MS (mg/L)	-	-	-	0.0015	0.0024	0.0015	0.0011	0.0024	-	-	-
Copper, Acid Soluble by Icp/MS (mg/L)	-	-	-	0.0033	0.0027	0.0022	0.0024	0.002	-	-	-
Iron (mg/L)	5.65	7.03	6.1	1.6	1.4	2.1	1.8	3.0	2.3	-	1.4
Iron, Dissolved (mg/L)	2.52	2.37	0.486	0.7	0.55	0.73	0.56	0.77	1.5	-	-
Iron, Acid Soluble, (mg/L)	-	-	-	1.5	1.3	2.0	1.8	2.9	-	-	-
Manganese (mg/L)	0.643	0.647	0.38	0.24	0.26	0.39	0.37	0.47	0.32	-	0.12
Manganese, Dissolved (mg/L)	0.515	0.531	0.29	0.22	0.24	0.34	0.34	0.18	0.32	-	-
Manganese, Acid Soluble (mg/L)	-	-	-	0.24	0.26	0.38	0.36	0.47	-	-	-
BOD (mg/L)	20	16	15	-	-	-	-	-	56	5.8	4.5
CBOD (mg/L)	11	15	-	6.0	3.5	4.2	2.5	6.9	3*	3	2.6
TSS (mg/L)	58	66	25	8.2	11	12	14	15	5.5	<5.0	11
Na (mg/L)	29	29	-	-	-	-	16	-	-	-	-
Cl (mg/L)	20	20	-	-	-	-	15	-	-	-	-
Fl (mg/L)	-	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-	-
TKN (mg/L)	18	16	21	12	12	-	-	12	10	5.0	3.4
NO3-N (mg/L)	<0.050	<0.050	0.21	<0.050	11	-	-	<0.050	0.11	0.41	0.17
NH3-N (mg/L)	-	11	20	11	<0.050	-	-	11	8.2	3.6	2.5
TDS (mg/L)	197	185	236	110	120	102	99	98	106	93	103
EC (umho/CM)	333	341	-	247	235	244	233	237	-	-	-
TC-15 (MPN/100 ml)	80	23	4	20	-	-	-	-	-	-	-
FC-15 (MPN/100 ml)	<2	<2	<2	<2	-	-	-	-	-	-	-
Hardness (mg/L)	-	63	-	28	32	34	36	34	-	-	-
Alkalinity, Total (mg/L)	-	-	-	72	74	78	72	78	-	-	-
Turbidity (NTU)	-	40	-	5.39	-	-	-	-	-	-	-
pH (SU)	7.0	-	6.9	5.94	-	-	-	-	-	-	-

* Estimated "J Flag" Values