



**BEAR VALLEY
WATER DISTRICT**

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BOARD OF DIRECTORS:
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28 October 2011

Victor Vasquez

CVRWQCB

11020 Sun Center Drive #200

Rancho Cordova, CA 95670-6114

Subject: Order R5-2005-139/R5-2011-0053, Self-Monitoring Report (SMR), September 2011

Dear Mr. Vasquez:

Monthly Report, Waste Discharge Requirements, Order R5-2005-139/R5-2011-0053

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

During this reporting period the following significant events occurred:

- The Main Pump Station Flood Control Project progressed;
- The NPDES permit (Order No. R5-2011-0053) adopted 4 August took effect 23 September 2011;
- A Notice of Violation was issued to BVWD on 23 September 2011.

Response, Notice of Violation of 23 September 2011

As directed in the 23 September 2011 NOV, copy attached for your convenience, we herewith address the alleged violation and indicate the actions that have been implemented to prevent future such violations:

NPDES permit, Order No. R5-2005-0139 contained tertiary requirements governing discharge from our Treatment Pond to the Polishing Reservoir. That permit, and the attendant tertiary standards and the requirement to construct a tertiary treatment facility that was the basis for the Notice of Violation have been rescinded.

We further submit that, since the District has been working closely with the NPDES permitting section in furtherance of the permit modification, and in view of the ultimate decision that tertiary treatment was not required, and in recognition that no discharge to surface waters occurred during the life of the permit, it is not clear how the cited BOD concentration of 23 mg/L could be deemed an NPDES violation. We note that the Daily Maximum BOD limit, for both discharge to surface waters under Order R5-2005-0139, and, discharge to land under Order 5-01-208, is 60 mg/L.

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Actions to Prevent Future Such Violations:

- Order No. R5-2011-0053, which took effect on 23 September 2011, has no requirements on the discharge from the Treatment Pond to the Polishing Reservoir;
- Consequently there will be no future violations as cited in the Notice of Violation issued 23 September 2011;
- The Notice of Violation also requested that separate reports and cover letters be prepared for Order 5-01-208 and Order R5-2011-0053;
- Separate cover letters for the two monthly reports have been submitted since July 2009, and, beginning with the August 2011 SMR, we implemented submittal of separate data summaries as well. We note that, pursuant Standard Provisions we thought all the data needed to be reported under both MRPs. We now stand corrected and will ensure that data from only the monitoring points specified in Order No. R5-2011-0053 will be reported in the SMR.

For your convenience, we below discuss each of the data summary 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 Bloods Creek monitoring data. Please note that, pursuant the MRP, Bloods Creek monitoring is only required during periods of discharge, but we are voluntarily reporting this data.

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As previously reported, we have adjusted operational procedures to better handle the higher-than-normal Polishing Reservoir volume that resulted from this greater than 1 in100 year precipitation season. As we cannot transfer Treatment Pond effluent to the Polishing Reservoir concurrent with transferring Polishing Reservoir effluent to the sprayfields, we must shorten the Treatment Pond effluent transfer cycle to maximize land application. Consequently, during the application season we are operating at a minimum 30-minute detention time and limiting transfer to when necessary. We instituted this operational mode on 11 July. As a result of this procedure, we have to limit effluent sampling accordingly and did not sample at the MRP-specified frequency

We further note that samples collected 14 September, while meeting requirements under Order 5-01-208, did not meet the tertiary requirements under now-rescinded Order R5-2005-0139 for Total Coliform Daily Maximum of 23 MPN/100 ml (sample result was 30 MPN/100 ml). Such a result will no longer be a violation now that order is rescinded as that sample location is no longer regulated under NPDES and the Order 5-01-208 Daily Maximum at that sample location is 240 MPN/100 ml.

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0.606 MG of Treatment Pond effluent was transferred to the Polishing Reservoir during September. Total volume transferred this season (October 2010-present) is 41.101 MG. That volume represents 39.3% of total reservoir volume of 106 MG. However, on 10 July 2011, the 2-foot freeboard margin had been exceeded by 1.5 feet and peak reservoir volume was then estimated to be 116.5 MG, which represented 110% of capacity.

Following peak volume, as we have been drawing down the reservoir, an additional 2.929 MG was transferred in; so, as of this reporting period, the total effluent volume we have been managing is 119.429 MG. This was all due to the fact we experienced a greater than 1 in 100 return precipitation year. The total precipitation between 10/1/2010-9/30/2011 was 90.21 inches; at our location the 1 in 100 return level is 82.3 inches.

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
Michael Fischer, RWQCB

enclosure

BEAR VALLEY WASTE WATER TREATMENT FACILITY
Monitoring and Reporting Program No. R5-2005-0139/R5-2011-0053
Alpine County

Month: **September** Year: **2011**

INFLUENT MONITORING (INF-001)												NPDES BLOODS CREEK (RSW-001)			
Day	Daily Flow (MGD)	BOD ₅ (mg/L)	pH Avg (SU)	pH Max (SU)	pH Min (SU)	E C (umhos/cm)	TSS (mg/L)	BOD ₅ (lbs/day)	TSS (lbs/day)	Daily Precipitation (Inches)	Snow Water Content (Inches)	Discharge to Bloods Creek (MGD)	Bloods Creek Flow (MGD)	Dissolved Oxygen (mg/L)	pH (SU)
1	0.020	370	6.6	7.9	6.0		480	62	80	0.00	0.00	0.000	0.350		
2	0.035		6.9	8.1	6.2					0.00	0.00	0.000	0.300		
3	0.060		6.8	8.4	6.1					0.00	0.00	0.000	0.700	5.41	6.67
4	0.070		6.7	8.6	6.0					0.00	0.00	0.000	0.600		
5	0.050		6.6	8.5	6.1					0.00	0.00	0.000	0.450		
6	0.015		6.8	8.0	6.0					0.00	0.00	0.000	<0.300		
7	0.018	138	6.9	8.0	6.8	528	44	20	6	0.00	0.00	0.000	<0.300		
8	0.018		7.0	7.6	6.4					0.00	0.00	0.000	<0.300		
9	0.023		6.8	7.9	5.7					0.00	0.00	0.000	<0.300	5.76	6.33
10	0.023		6.4	6.8	6.0					0.01	0.00	0.000	<0.300		
11	0.020		6.0	6.6	5.8					1.20	0.00	0.000	<0.300		
12	0.018		6.5	7.5	5.6					0.37	0.00	0.000	0.900		
13	0.013		7.2	8.1	6.9					0.24	0.00	0.000	0.900		
14	0.013	109	6.9	8.3	6.2		84	11	9	0.08	0.00	0.000	<0.300		
15	0.020		6.0	6.2	5.7					0.00	0.00	0.000	<0.300		
16	0.015		6.5	8.2	5.7					0.00	0.00	0.000	<0.300	5.29	6.54
17	0.023		6.6	8.0	5.5					0.00	0.00	0.000	<0.300		
18	0.020		6.0	6.5	6.0					0.00	0.00	0.000	<0.300		
19	0.018		6.2	8.1	6.2					0.00	0.00	0.000	<0.300		
20	0.015		6.2	7.3	6.1					0.00	0.00	0.000	<0.300		
21	0.015	136	7.0	8.1	6.1		60	17	8	0.00	0.00	0.000	<0.300		
22	0.018		6.7	8.3	6.0					0.00	0.00	0.000	<0.300		
23	0.015		6.7	7.9	6.3					0.00	0.00	0.000	<0.300	4.82	6.59
24	0.023		6.9	8.1	6.2					0.00	0.00	0.000	<0.300		
25	0.018		7.0	8.4	6.0					0.00	0.00	0.000	<0.300		
26	0.013		6.9	7.7	6.0					0.00	0.00	0.000	<0.300		
27	0.013		6.9	8.1	6.2					0.00	0.00	0.000	<0.300		
28	0.015	168	6.9	8.0	6.5		109	21	14	0.00	0.00	0.000	<0.300		
29	0.013		6.6	7.9	6.6					0.00	0.00	0.000	<0.300		
30	0.015		7.0	7.6	6.4					0.00	0.00	0.000	<0.300	5.77	6.56
Total	0.658									1.90		0.000	<11.100		
Max	0.070	370	7.2	8.6	6.9	528	480	62	80	1.20	0.00	0.000	0.900	5.8	6.67
Min	0.013	109	6.0	6.2	5.5	528	44	11	6	0.00	0.00	0.000	<0.300	4.8	6.33
Avg	0.022	184	6.7	7.8	6.1	528	155	26	23	0.06	0.00	0.000	<0.370	5.4	6.54

BEAR VALLEY WASTEWATER TREATMENT FACILITY

Monitoring and Reporting Program No. R5-2005-0139/R5-2011-0053

Alpine County

Month: **September** Year: **2011**

Treatment Pond Effluent Monitoring										
Day	Flow (MGD)	BOD (mg/L)	BOD ₅ (lbs/day)	Settleable Solids (ml/L/hr)	TSS (mg/L)	TSS (lbs/day)	Total Coliform Organisms (MPN/100 ml)	Total Chlorine Residual (mg/L)	Contact Time (mg/minutes)	Chlorine Used (lbs)
1	0.000									
2	0.000									
3	0.000									
4	0.000									
5	0.000									
6	0.000									
7	0.000									
8	0.000									
9	0.000									
10	0.000									
11	0.000									
12	0.000									
13	0.000									
14	0.572	5.5	26	<0.1	13	62	30	2.5	77	21
15	0.000									
16	0.000									
17	0.000									
18	0.000									
19	0.000									
20	0.000									
21	0.000									
22	0.000									
23	0.000									
24	0.000									
25	0.000									
26	0.000									
27	0.000									
28	0.000									
29	0.000									
30	0.034	5.1	1	<0.1	7.3	2	<2	6.5	3329	2
Total	0.606									
Max	0.572	5.5	26.3	<0.1	13.0	62.1	30.0	6.5	3329	21
Min	0.000	5.1	1.4	<0.1	7.3	2.1	<2	2.5	77	2
Avg	0.020	5.3	13.8	<0.1	10.2	32.1	16.0	4.5	1703	12



California Regional Water Quality Control Board
Central Valley Region
Katherine Hart, Chair



Matthew Rodriguez
Secretary for
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Edmund G. Brown Jr.
Governor

23 September 2011

RECEIVED SEP 28 2011

Julio Guerra
General Manager
Bear Valley Water District
PO Box 5027
Bear Valley, CA 95223

SELF-MONITORING REPORT REVIEW AND NOTICE OF VIOLATION, BEAR VALLEY WATER DISTRICT, BEAR VALLEY WASTEWATER TREATMENT FACILITY, ALPINE COUNTY

The discharge of wastewater by the Bear Valley Water District (Discharger) from the Bear Valley Wastewater Treatment Facility is regulated by both a land discharge permit, Waste Discharge Requirements (WDRs) Order 5-01-208, and a surface water discharge permit, WDRs Order R5-2005-0139. This letter contains a review of the monitoring data associated only with the surface water (NPDES) permit. It is noted that new NPDES permit WDRs Order No. R5-2011-0053 and Time Schedule Order No. R5-2005-0140 were adopted in August 2011; however, the monitoring reports reviewed in this letter were for the 2005 NPDES permit.

The Monitoring and Reporting Program (MRP) of the WDRs requires monitoring for constituents and other parameters and specifies the location and frequency of monitoring. Central Valley Water Board staff has reviewed the self-monitoring reports (SMRs) submitted by the Discharger for the **May 2011 and June 2011** monitoring periods.

The review of the SMRs identified the following violations:

Land Discharge Violation

The discharge to the wastewater storage reservoir resulted in the violation of effluent limitations contained in the WDRs, as listed in Table A below. According to the May 2011 SMR, no effluent was discharged to surface water during the period. All effluent was discharged to the storage pond which will be land applied during the summer of 2011. Board staff will determine at a later time whether the violation listed below is subject to mandatory minimum penalties.

California Environmental Protection Agency

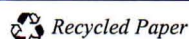


Table A. Land Discharge Effluent Violations

Date	Parameter	Units	WDR Limit	Measured	Period	CIWQS
5/25/2011	BOD	mg/L	20	23	Daily Max	905165

In addition, Central Valley Water Board has the following comments from review of the SMRs:

Comments regarding the SMR submittals

Effective on 23 September 2011, the Discharger will be regulated under WDRs Order 5-01-208 for discharges to land and WDRs Order R5-2011-0053 for discharges to surface water. In the past, the Discharger has submitted a combined report to fulfill the reporting requirements for both orders which has not been very clear. Beginning with the **September 2011 SMR**, please submit separate reports with separate cover letters to demonstrate compliance with the reporting requirements for each order. Please clearly indicate the monitoring locations using the location names given in Table E-1 of the new NPDES permit.

In your next monthly SMR submittal, please address the violations cited above and indicate in the SMR cover letter the actions that have been implemented, or will be implemented to prevent future similar violations. The cover letter may also include a discussion of any uncommon or unusual circumstances that resulted in a violation and which may suggest that reoccurrence of violations would be unlikely. If you disagree with any of the violations cited above, please provide an explanation and any supporting information necessary.

Please also implement the above comment related to separate reports for the land discharge and surface water discharge orders beginning with the September 2011 SMR.

If you have any questions, please contact Michael Fischer at (916) 464-4663 or mfischer@waterboards.ca.gov.



VICTOR VASQUEZ
Senior Water Resources Control Engineer
NPDES Compliance and Enforcement Unit