



MONTHLY OPERATIONS REPORT

March 2011

Town of Discovery Bay, CA

SAFETY & TRAINING:

Training

General Electrical Safety
Lock Out - Tag Out and Control of Hazardous Energy
Annual Fire Extinguisher training conducted by Contra Costa Fire
Equipment
Asbestos Awareness
Chemical Tank Storage Awareness

Project Manager attended a Webinar on SSMP audits
Lori Gabriel passed her Grade 3 Water Distribution exam. Blaise Tetio is expected to receive his Grade I WW license in the near future.

Compliance Summary:

- No Wastewater permit limit excursions occurred in March
- No Water violations or excursions occurred in March.
- No SSO events occurred in March.

The calculated 7 – day median indicates the effluent exceeded the total coliform 23 MPN limit on February 1, 2011. The RWQCB submitted a NOV that stated this one date should be considered as a part of the series of total coliform violations for the January 2010 reporting period. The response was generated and stated the bringing on line of new ultra violet disinfection equipment coincided with the total coliform exceedances.

On March 30 the NTU (Nephelometric Turbidity Unit) was over the hourly average trigger value for two events. The events were caused by adjusting effluent sequence operation following routine maintenance.

All permit required data is being submitted and therefore no Monitoring and Reporting Program violations were issued by the RWQCB.

The Town of Discovery Bay received a Notice of Violation and Draft Record of Violations for Assessing Mandatory Minimum Penalties dated 25 March 2011. For the period of August 2009 through January 2011, a total of 7 violations are listed. All are considered non serious violations and the first three within a six month period fall and not subject to penalties. The Town of Discovery Bay is challenging the events of January 21, 24, 25 and 26 as being a single event or due to construction of new



equipment and should be waived from being assessed penalties. The following is the Record of Violations listed in the NOV.

**RECORD OF VIOLATIONS (1 August 2009– 31 January 2011) MANDATORY PENALTIES
(Data reported under Monitoring and Reporting Program R5-2008-0179)**

	<u>Date</u>	<u>Violation Type</u>	<u>Units</u>	<u>Limit</u>	<u>Measd</u>	<u>Period</u>	<u>Rmrks</u>	<u>CIWQS</u>
1	6-Oct-10	Coliform	MPN/100mL	23	27	7-day median	3	887312
2	31-Dec-10	Electrical Conductivity	µmhos/cm	2,100	2,192	Annual Average	3	890048
3	19-Jan-11	Total Coliform	MPN/100mL	23	30	7-day median	3	892607
4	21-Jan-11	Total Coliform	MPN/100mL	23	30	7-day median	4	892608
5	24-Jan-11	Total Coliform	MPN/100mL	23	40	7-day median	4	892610
6	26-Jan-11	Total Coliform	MPN/100mL	23	30	7-day median	4	892609
7	26-Jan-11	Total Coliform	MPN/100mL	23	40	7-day median	4	892611

Parameter		
<i>WW Influent /Effluent</i>	<i>January</i>	<i>February</i>
Flow, MG Effluent	50.40	47.17
Influent BOD ₅ , mg/L/day, monthly avg.	138	138
Influent TSS, mg/L/day, monthly avg.	198	440
Effluent BOD ₅ , mg/L, monthly avg.	<1.0	<1.0
Effluent TSS, mg/L, monthly avg.	15.3	16.8
Total Coliform 7 day Median Max	40	35
Total Coliform Daily Maximum	900	110
TSS Effluent Composite Max Result mg/L	19	26
TSS Effluent Composite Max Result lbs	249	351

The last two month's data is provided as current month's data has not been fully received from the laboratory.

Total Wastewater Treated Million Gallons MG

Month	Totals (million gallons)
March 2011	54.90
February 2011	47.06
January 2011	51.42

Total Water Produced: Million Gallons MG

Month	Willow Lake WTP	Newport WTP	Totals (million gallons)
March 2011	26.01	27.89	53.90
February 2011	15.27	36.69	51.66
January 2011	15.65	36.62	52.27

Water Quality Reports:

Samples collected	No. Total Coliform Positives	No. Fecal/E. coli Positives
20	0	0

Operations Summary:

Veolia lost the new maintenance staff recently hired to a specialized electrical position at a cogeneration facility. A concentrated effort is ongoing to fill this and one other position. Veolia has engaged Aerotek to provide maintenance personnel on site during the recruitment process. The new contract requires a Project Manager to possess a minimum of California Grade 3 license and to have 3 years experience while holding that license. Greg White has been engaged by Veolia to assume the Project Manager position.

The Veolia Annual Operations Report was delivered to the District's managers.

Additional BOD and TSS influent monitor continued into April. The results are being tabulated for review by Veolia Technical Direction Group.

On March 24 the Trojan 3000 UV channel was brought on line and both UV channels are currently being operated in a split flow auto mode. Veolia is conducting process monitoring of both disinfection units separately during the routine compliance monitoring for performance.

The by pass valves leak by and the flow is being directed to the Plant 2 lagoon. The District is working with Dezurick valve vendors for alternatives and corrective actions. During a recent valve testing event, Veolia took advantage in an "all hands" approach to clean all four clarifiers while diverted.

The effluent pump station at Plant 2 began to operate in such a fashion that flow was being surged. Gregory Harris working with Telstar has provided direction in the modification of set points and programming logic.



There were no colored water calls in March. Veolia has begun to flush in the evenings utilizing a flushing plans developed by subject matter experts.

The NPDES Discharge Monitoring Reports were submitted to appropriate agencies for the month of February 2011. The monthly eSMR was submitted electronically.

Call Outs:	Veolia Operation			
	Total	TODB Water	W & WW Operations	Collections-LS
	19	3	13	3

Veolia Water recorded 19 total call outs for the month of March. Twelve calls were water related for items such as leaks or turn ons. Virgil Koehne managed the service related calls and several reported leaks.

Maintenance & Repair Work:

PM's	Regulatory	Hours
239	17	125.10

General

Veolia Water continues to utilize outside staff to complete the 2010 back log of Preventive Maintenance tasks. There are fifty-four out of several hundred left to complete.

- Replaced ballast for UV3000Plus bank 1B module 1.
- Auger shaft separated from bearing at head works in plant 2. Virgil scheduled repair and installation of wear bars for both headwork stations.
- Pumped Influent wet well at plant 1 removing rags and debris
- Export ARV opened and repaired

Electrical & Programming

Repaired VFD for RAS pump three in Plant II.
Upgraded Firmware on Trojan 300+ UV disinfection system and adjusted the auto self cleaning timers.

Collections - Willow Lake and Newport WTP



Well 5 remained off line through March. Additional monitoring was conducted and the results were reviewed by the TODB Water Engineers and determined safe for consumption. CDPH approval was granted to bring Well 5 back on line for distribution.

A water leak was found at Well 1B. The well was taken off line repaired and brought back on line.

Three thousand one hundred fifty (3150.15) feet of collection line was cleaned in March. Cherry Hills pipe line determined to be deteriorated and was replaced in early April.