



MONTHLY OPERATIONS REPORT

April 2011

Town of Discovery Bay, CA

SAFETY & TRAINING:

Training

Preventing Sprains and Strains-staff
Belt Press operation-Bill, Gerald
Singer & by-pass valve operation-Gerald, Joe
Effluent monitoring guidance-Blaise
eSMR & LabCal-Lori Gabriel

Compliance Summary:

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

There were no violations issued by the CVRWQCB.

The CSD and Veolia are in receipt of documents from the CVRWQCB. The first document is an Administrative Civil Liability Complaint R5-2011-0576 in which identifies non serious violations that occurred between September 1, 2009 through February 2011. One annual average electrical conductivity and 7 total coliform 7-day median excursions were listed. Mandatory minimum penalties assessed totaled \$15,000. The Town of Discovery Bay submitted a letter to the CVRWQCB requesting the multiple events for total coliform excursion be considered a single operational upset (SOU) reducing the number of violations. The Central Valley Water Board concluded this event did not meet the criteria for a SOU.

There were no NTU average hourly triggers for effluent monitoring.

The facility staff used the by-pass manually prior to cleaning the Plant II clarifiers. Time to clean and return the system to normal was approximately two hours.



Parameter		
<i>WW Influent /Effluent</i>	<i>February</i>	<i>March</i>
Flow, MG Effluent	47.17	50.06
Influent BOD ₅ , mg/L/day, monthly avg.	138	100
Influent TSS, mg/L/day, monthly avg.	440	190
Effluent BOD ₅ , mg/L, monthly avg.	<1.0	<1.0
Effluent TSS, mg/L, monthly avg.	16.8	14.0
Total Coliform 7 day Median Max	35	17
Total Coliform Daily Maximum	110	17
TSS Effluent Composite Max Result mg/L	26	19
TSS Effluent Composite Max Result lbs	351	284

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)
April 2011	51.20
March 2011	54.90
February 2011	47.06

Total Water Produced: Million Gallons MG

Month	Willow Lake WTP	Newport WTP	Totals (million gallons)
April 2011	23.51	65.16	88.67
March 2011	26.01	27.89	53.90
February 2011	15.27	36.69	51.66

Water Quality Reports:

Samples collected	No. Total Coliform Positives	No. Fecal/E. coli Positives
16	0	0

Operations Summary:

On April 23 Veolia responded to a Sanitary Sewer Overflow located at 1402 Willow Lake. Within an hour, the on duty operator followed shortly after by the Project Manager, had arrived at the site of the spill. The blockage relieved itself halting the overflow condition. The area was cleaned with fresh water and all wash water was vacuumed including standing water in the storm drain. Samples were collected, residents interviewed, collection lines clean, lift stations monitored for performance and signs were posted with flyers provided door to door in the immediate area of the spill. All agency and Veolia internal immediate notifications were conducted. The 24-hour and 5-day reports were completed within the time frame required by the CVRWQCB.

The water Emergency Notification Plan (ENP) was submitted in April along with the annual Large Water System Report (LWS) to the CDPH. The LWS report encompasses topics including distribution, disinfection, back flow devices and current population. The ENP identifies how Veolia and the TODB would notify the public in the event of confirmed coliform positive in water quality monitoring samples using flyers and news media outlets.

Veolia has collected an effluent grab sample from each of the ultraviolet disinfection channels when compliance monitoring is conducted. The results are being compared to ensure performance.

Veolia Water hired two individuals through Aerotek to supplement staff during the recruitment process. Maintenance and contract deliverables identified in the 5-year contract are the focus.

Herwit Engineering and Veolia Water are working together in an effort to upgrade influent flow measurement and conduct intensive load monitoring at the wastewater treatment facility. The information will be used to optimize process operations and report flow data as accurately as possible while making compliance monitoring more effective.

The effluent pump station logic control at Plant 2 has been modified. Telstar modified the program to allow each pump to operate optimally to prevent surge of effluent flow to the UV system. A defective output card and other components were installed providing greater control of pump operation.

A trial using a new polymer was conducted for optimization of the biosolids handling. A slight increase in % solids at a reduced feed rate was demonstrated. The new product may be more available with shorter order times. Biosolids produced last year have been stored on site. We are now



beginning the second year of storing solids on site. Disposing an amount greater than 290 metric tons during any one year increases monitoring requirements from annually to quarterly. Biosolids generated should be disposed (land filled or land applied) each year to reduce the amount stored.

There were five colored water calls in April. These calls were related to hydrant opening or line flushing. Veolia has completed the first phase of routine line flushing on the West side of town. It is expected that by the end of May, the water mains will have been flushed throughout the town. There are several dead ends that require a special below grade connection that will be used during the day time hours.

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

Call Outs:	Veolia Operation			
	Total	TODB Water	W & WW Operations	Collections-LS
	11	1	8	2

Veolia Water recorded 11 total call outs for the month of April. Eight Wastewater calls were process control. One collection call was for the spill on 4/23. Five calls were found to be false requiring no action.

Maintenance & Repair Work:

PM's	Regulatory	Hours
233	17	174.97

General

Veolia Water has been operating under a month to month contract during negotiations. During this period Veolia Water underwent significant financial management upgrade and implementation. The maintenance expense for this four month period, January through April 2011, was \$ 6,532.43.

While utilizing interim resources from Aerotek, several applicants have been interviewed as we are engaging Veolia Human Resources in on boarding additional staffing.

- Repaired moles replacing fuses and straightening spool feed.
- Replaced low level float at Plant I decant.

- Document program for VFD P1 at West Village IV, remove to be sent for repair, internal thermister problem
- Belt Press alignment air absorber blew out and was replaced
- Specialty oil replaced in Belt Press auger motor
- Replacing bearings on Rotor I at Plant II
- Clarifier 4 sump pump wire burnt up, replaced.
- Influent pump 1 and pump 5 pulled and checked. Both units taken by Shape for repairs.
- Small 3 HP pump pulled and sent in for repair at decant pump station. Drawing calls for a 20HP to replace.

Electrical & Programming

Reprogram VFD for RAS 3 WWTP2 to work on hand speed control
Set point changes for Effluent pump station (Telstar)

Effluent by-pass programming completed. The valves will auto bypass if above 10 NTU for longer than 5 consecutive minutes.

Collections - Willow Lake and Newport WTP

Well 5 brought back on line 4-12-2011.

Eight hundred (800.00) feet of collection line was cleaned in April.

A 120 foot section of force main line was replaced up stream of the Cherry Hills collection line.