



## MONTHLY OPERATIONS REPORT

January 2014

Town of Discovery Bay, CA

**1616** Days of Safe Operations

**70,047** worked hours since last recordable incident

### TRAINING:

**Safety, Operations, & Equipment**

<b>Safety</b>	<b>Hours</b>
Monthly Training consists of: Escape Routes and Procedures Take 5 Safety Tailgates (18) West Region Safety Council Call Monthly Regional Safety Webinar	3.0
<b>Operations</b>	
All Operators were trained on Fire Extinguisher (annual), Hazardous Materials, Automatic Control Valves, & Hazard Communications Scott Biocic, Fermin Garcia, and Blaise Tetio participated in a Cla Val training in Oakley	8.0

### REPORTS SUBMITTED TO REGULATORY AGENCIES

Monthly Discharge Monitoring Report (DMR) Monthly electronic State Monitoring Report (eSMR) Annual Operations Report Annual Priority Pollutant Report Annual 503 BioSolids Report Annual Groundwater Report Semi-Annual (2 <sup>nd</sup> ) Dioxin Report Chronic Toxicity 4 <sup>th</sup> Quarter Report Groundwater 4 <sup>th</sup> Quarter Report Monthly Coliform Report, California Department of Public Health (CDPH) Stage 2 Disinfection By-Product 4 <sup>th</sup> Quarter Report (CDPH) Chlorine Residual 4 <sup>th</sup> Quarter Report (CDPH)
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### WATER SERVICES

# of Active Wells	Water Produced (MG)	Chemical (Hypo) Delivered	Fire Hydrant Flushing
5	69.3	2,330	0

Note: Well 4 in lead and Well 5 in lag to offset specific conductivity

**2013 Water Production Table (MG) by Month**

January	February	March	April	May	June
69.3					
July	August	September	October	November	December

**Bacteriological Test Results:**

Routine Bacteria Samples Collected	No. Total Coliform Positives	No. Fecal/E. coli Positives	Brown Water Calls
16	0	0	0

**WASTEWATER SERVICE**

**Wastewater Laboratory Analysis**

<i>WW Effluent Parameter</i>	<i>Permit Limits</i>	<i>DEC Lab Data</i>	<i>JAN Lab Data</i>
Flow, MG Effluent, <b>monthly total</b>		40.71	41.08
Flow, MG Daily Influent Flow, <b>avg.</b>	N/A	1.39	1.30
Flow, MG Daily Discharge Flow, <b>avg.</b>	<b>2.1</b>	1.31	1.32
Effluent BOD <sub>5</sub> , lbs/d, <b>monthly avg.</b>	<b>350</b>	25.1	24.0
Effluent TSS, lbs/d, <b>monthly avg.</b>	<b>525</b>	39.0	40.0
Effluent BOD <sub>5</sub> , mg/L, <b>monthly avg.</b>	<b>20</b>	2.4	2.0
Effluent TSS, mg/L, <b>monthly avg.</b>	<b>30</b>	3.7	3.8
Total Coli form 7 day Median Max	<b>23</b>	4	2
Total Coli form Daily Maximum	<b>240</b>	4.5	2
% Removal BOD <sub>5</sub> , monthly avg.	<b>85% min.</b>	98.0	97.8
% Removal, TSS, monthly avg.	<b>85% min.</b>	97.2	97.3
Electrical Conductivity, umhos/cm <b>annual avg.</b>	<b>2100</b>	2136 (YTD)	2138 (YTD)

Red -- new parameter added

**National Pollution Discharge Elimination System (NPDES)**

<u>NPDES Related</u>	<u>Permit Parameter</u>	<u>NPDES Parameter</u>	<u>Actual Parameter</u>
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<u>Excursions</u>	<u>Limit</u>	<u>Result</u>
<u>0</u>		

**Bacteriological Test Results:**

<u>Routine Bacteria Samples Collected</u>	<u>No. Total Coliform Positives</u>	<u>No. Fecal/E. coli Positives</u>	<u>7-Day Median Excursion</u>
<u>9</u>	<u>0</u>	<u>0</u>	<u>0</u>

<u># of Active Lift Stations</u>	<u># of Inactive Lift Stations</u>	<u>Chemical Usage Polymer-gals</u>	<u>SSO</u>	<u>Wastewater Received (MG)</u>
15	0	115	0	40.22

**COLLECTION:**

- Flushed **969 ft.** of sanitary sewer lines, YTD **26,049 ft. 39.5%** completed
- CCTV **18,200 ft. 27.6%** completed (Deadline is May 2014)
- Inspected **5** manhole & covers. YTD **205**
- Vacuumed out Lakeshore lift station.
- Installed a new odor solenoid on the odor control bed at Newport lift station.
- Performed valve exercising
- Performed weekly lift station inspections.
- Inspected vaulted lift stations.

**MAINTENANCE**

**Wastewater**

- Replaced the parshall flume meters at both headworks and the UV lift station.
- Performed predictive vibration and ultrasound analysis on all the magna rotor brushes.
- Replaced two underground wasting valves to the digester.
- The panel view for BFP no.2 went out in Dec and was replaced this month.
- UV 3000+ on Dec 31, 2013 and was switched to UV 3000 on Jan 31, 2014.
- Conoco West installed a drain system on the UV 3000+ channel on Jan 31, 2014.

- Detected a coolant leak on the emergency generator at Plant no.1, Virgil hired a company to repair the leak.
- Wasting activated sludge pump no.2 motor at plant two went bad and needs to be repaired or replaced.
- Performed preventative maintenance.
- Pressure washed the clarifiers each week for algae removal.

**Water**

- Telstar calibrated Newport water treatment plant flow meters.
- Troubleshooting and repairing air leaks at Willow WTP filter station.
- Troubleshooted Well 1 and Well 2 Cla Val.
- Performed preventative maintenance.

**Preventive and Corrective**

Total # of WO's Completed	Total Hours
196	121

**Work Order Back-Log**

Aging 8 - 30 Days	Aging > 30 Days
39	46

**Call & Emergency Responses**

Call Outs	Emergencies
12	0

**Personnel Hours & Overtime:**

Regular Hours	Overtime
1440	58.75

**TERMS**

WWTP	WASTEWATER TREATMENT PLANT
WTP	WATER TREATMENT PLANT
WL	WILLOW LAKE
NP	NEWPORT

VFD	VARIABLE FREQUENCY DRIVE
WO	WORK ORDER
PLC	PROGRAMMABLE LOGIC CONTROLLER
L/S	LIFT STATION
SSO	SANITARY SEWER OVERFLOW
BOD	BIOLOGICAL OXYGEN DEMAND
TSS	TOTAL SUSPENDED SOLIDS
MGD	MILLION GALLONS PER DAY
mg/l	MILLIGRAMS PER LITRE
CCTV	CLOSED CIRCUIT TELEVISION
PPM	PARTS PER MILLION
RAS	RETURN ACTIVATED SLUDGE
WAS	WATSE ACTIVATED SLUDGE
UV	ULTRAVIOLET LIGHT