



## MONTHLY OPERATIONS REPORT

November 2013

Town of Discovery Bay, CA

**1554** Days of Safe Operations

**67214** worked hours since last recordable incident

### TRAINING:

Safety, Operations, & Equipment

<b>Safety</b>	<b>Hours</b>
Monthly Training consists of: Fork-Lift Safety Take 5 Safety Tailgates (13) West Region Safety Council Call Monthly Regional Safety Webinar	3.0
<b>Operations</b>	
All Operators were trained on PH meter calibration, Settleable Solids sampling method, Trojan 3000+ acid cleaning procedures	3.0

### REPORTS SUBMITTED TO REGULATORY AGENCIES

Monthly Discharge Monitoring Report (DMR) Monthly electronic State Monitoring Report (eSMR) Monthly Coliform Report, California Department of Public Health (CDPH)
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### WATER SERVICES

# of Active Wells	Water Produced (MG)	Chemical (Hypo) Delivered	Fire Hydrant Flushing
5	83.10	3,705	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
51.48	55.88	86.09	99.81	148.77	144.86



July	August	September	October	November	December
162.13	156.00	129.93	117.18	83.10	

**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>Oct Lab Data</i>	<i>Nov Lab Data</i>
Flow, MG Effluent, <b>monthly total</b>		39.85	39.39
Flow, MG Daily Influent Flow, <b>avg.</b>	N/A	1.42	1.39
Flow, MG Daily Discharge Flow, <b>avg.</b>	<b>2.1</b>	1.28	1.31
Effluent BOD <sub>5</sub> , lbs/d, <b>monthly avg.</b>	<b>350</b>	12.3	50.6
Effluent TSS, lbs/d, <b>monthly avg.</b>	<b>525</b>	41	40.2
Effluent BOD <sub>5</sub> , mg/L, <b>monthly avg.</b>	<b>20</b>	1.2	4.6
Effluent TSS, mg/L, <b>monthly avg.</b>	<b>30</b>	4.0	3.7
Total Coli form 7 day Median Max	<b>23</b>	13	9
Total Coli form Daily Maximum	<b>240</b>	5	5
% Removal BOD <sub>5</sub> , monthly avg.	<b>85% min.</b>	99.3	99.3
% Removal, TSS, monthly avg.	<b>85% min.</b>	97.3	97.3
Electrical Conductivity, umhos/cm <b>annual avg.</b>	<b>2100</b>	2130 (YTD)	2133 (YTD)

Red - new parameter added

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

<u>NPDES Related Excursions</u>	<u>Permit Parameter</u>	<u>NPDES Parameter Limit</u>	<u>Actual Parameter 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>8</u>	<u>0</u>	<u>0</u>	<u>0</u>
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# of Active Lift Stations	# of Inactive Lift Stations	Chemical Usage Polymer-gals	SSO	Wastewater Received (MG)
15	0	135	0	41.68

**COLLECTION:**

- Flushed **3,130 ft.** of sanitary sewer lines, YTD **23,328 ft. 35.35%** completed
- CCTV **0 ft. 0%** completed (Deadline is May 2014)
- Inspected **10** manhole & covers. YTD **92**
- Changed transducer at Lift Station G
- Changed a belt on the odor control motor at Newport Lift Station
- Performed valve exercising
- Performed weekly lift station inspections.
- Inspected vaulted lift stations.

**MAINTENANCE**

**Wastewater**

- Worked on ARV's including replacing four ARV's
- Plant no.2 Magna Rotor Brush 4-inch shaft broke
- Changed the conveyor chain in the bio-solids truck
- SWRCB Enforcement section performed a second annual inspection of facilities.
- Clean Harbors remediated the acid tank at plant no.2 and we replaced it with citric acid.
- Pulled the gear box on Magna Rotor Brush no. 2 at Plant no.2 and placed it in Brush no.4.
- Switched over to UV3000 and cleaned out UV3000+ on November 14, 2013
- Troubleshooted BFP no.3 sludge pump wiring
- Performed preventative maintenance.
- Pressure washed the clarifiers each week for algae removal.

**Water**

- Cleaned out Newport WTP backwash tank using the vac truck.
- Troubleshooted Well 6 waste clay valve
- Reset Willow Lake PLC because it was not responding in auto
- Performed preventative maintenance

**Preventive and Corrective**

Total # of WO's Completed	Total Hours
304	219

**Work Order Back-Log**

Aging 8 - 30 Days	Aging > 30 Days
62	43

**Call & Emergency Responses**

Call Outs	Emergencies
13	0

**Personnel Hours & Overtime:**

Regular Hours	Overtime
1253	42.25

**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
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