



MONTHLY OPERATIONS REPORT

December 2013

Town of Discovery Bay, CA

1585 Days of Safe Operations

68548 worked hours since last recordable incident

TRAINING:

Safety, Operations, & Equipment

Safety	Hours
Monthly Training consists of: Emergency Action Plan Take 5 Safety Tailgates (13) West Region Safety Council Call Monthly Regional Safety Webinar	3.0
Operations	
All Operators were trained on Hazardous Communication Standard Requirements and Protect your Hearing Scott Biocic and Fermin Garcia participated in the Thermo- Imaging Camera training in Rio Vista	8.0

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	67.61	1,620	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	67.61

Bacteriological Test Results:

Routine Bacteria Samples Collected	No. Total Coliform Positives	No. Fecal/E. coli Positives	Brown Water Calls
20	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, monthly total		39.39	40.71
Flow, MG Daily Influent Flow, avg.	N/A	1.39	1.39
Flow, MG Daily Discharge Flow, avg.	2.1	1.31	1.31
Effluent BOD ₅ , lbs/d, monthly avg.	350	50.6	25.1
Effluent TSS, lbs/d, monthly avg.	525	40.2	39.0
Effluent BOD ₅ , mg/L, monthly avg.	20	4.6	2.4
Effluent TSS, mg/L, monthly avg.	30	3.7	3.7
Total Coli form 7 day Median Max	23	9	4
Total Coli form Daily Maximum	240	5	4.5
% Removal BOD ₅ , monthly avg.	85% min.	99.3	98.0
% Removal, TSS, monthly avg.	85% min.	97.3	97.2
Electrical Conductivity, umhos/cm annual avg.	2100	2130 (YTD)	2136 (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>10</u>	<u>0</u>	<u>0</u>	<u>0</u>

# of Active Lift Stations	# of Inactive Lift Stations	Chemical Usage Polymer-gals	SSO	Wastewater Received (MG)
15	0	150	1	43.02

COLLECTION:

- Flushed **1,752 ft.** of sanitary sewer lines, YTD **25,080 ft. 38.00%** completed
- CCTV **0 ft. 0%** completed (Deadline is May 2014)
- Inspected **96** manhole & covers. YTD **200**
- Responded to an SSO at Key-West Way on December 12, followed up to all regulatory agencies.
- Placed Bio-Plugs in L/S G,S, & Lakeshore to test for grease control
- Performed an electrical test on the Lakes L/S because pumps are turning off on over-voltage, will need to test further, Gregory witnessed it on Dec 19.
- Had a PG & E power service outage for L/S F on Dec, 14, 2013.
- Performed valve exercising
- Performed weekly lift station inspections.
- Inspected vaulted lift stations.

MAINTENANCE

Wastewater

- PG & E upgraded Plant no.1 transformer, we ran portable power during that period approximately 3-weeks.
- When we resumed PG&E power we experienced some problems with SCADA and lost some days of data, Cascade worked on retrieving the data and continues to work on retrieving the histograms.
- Cascade Integration programmed Clarifier no. 1 and the unit was place into service this month.
- Lost Clarifier no.4 for 3-days beginning on a Sunday, found some wires that were corroded and needed to be repaired.
- Lost a bearing on Magna Rotor no.2 at Plant no.1.
- The panel view for BFP no.2 went out and needs to be replaced.
- Cleaned the UV3000 on Dec 19 and the UV 3000+ on Dec 31.
- PIC broke the influent pump station discharge line to Plant no.2, the sewage remained on site was pumped to the lagoon and was not reportable.

- Performed preventative maintenance.
- Pressure washed the clarifiers each week for algae removal.

Water

- We experienced erratic PLC issues at Willow WTP, this facility has Modicon so MCC troubleshooted and determined the cause was electrical noise from PG & E, similar to what is happening at the Lakes L/S.
- Replaced the fan on booster pump no.2 at Newport WTP
- Replaced the coil in the starter for the air compressor at Willow WTP
- Rock Rayl with Veolia troubleshooted the backwash pump at Newport and determined the soft start needs to be replaced.
- Brought Well 1B back into service this month.
- Performed preventative maintenance

Preventive and Corrective

Total # of WO's Completed	Total Hours
194	104

Work Order Back-Log

Aging 8 - 30 Days	Aging > 30 Days
61	31

Call & Emergency Responses

Call Outs	Emergencies
10	0

Personnel Hours & Overtime:

Regular Hours	Overtime
1221	68.5

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