



MONTHLY OPERATIONS REPORT

July 2013

Town of Discovery Bay, CA

1435 Days of Safe Operations

61908 worked hours since last recordable incident

TRAINING:

Safety, Operations, & Equipment

Safety	Hours
Monthly Training consist of: Intro into First Aid & CPR, Blood-borne Pathogen, Good Housekeeping, Hot Work (Cutting, Welding, & Brazing), Fire Extinguisher Training Take 5 Safety Tailgates (7) West Region Safety Council Call Monthly Regional Safety Webinar	9.0
Operations	
Hach/WIMS/LabCal Data Entry training was provided by Bryce Benhke for one day during July. Oil Sampling for Analysis	12.0

REPORTS SUBMITTED TO REGULATORY AGENCIES

Monthly Discharge Monitoring Report (DMR) Monthly electronic State Monitoring Report (eSMR) Quarterly Chronic Toxicity Report Quarterly Groundwater Monitoring Report Semi Annual Report (Dioxin) Monthly Coliform Report, California Department of Public Health (CDPH) Quarterly Chlorine Residual Report, (CDPH)

WATER SERVICES

# of Active Wells	Water Produced (MG)	Chemical (Hypo) Delivered	Fire Hydrant Flushing
5	162.13	6720	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					

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>May Lab Data</i>	<i>June Lab Data</i>
Flow, MG Effluent, monthly total		38.55	39.51
Flow, MG Daily Discharge Flow, avg.	2.1	1.285	1.27
Effluent BOD ₅ , lbs/d, monthly avg.	350	27	23
Effluent TSS, lbs/d, monthly avg.	525	50	38
Effluent BOD ₅ , mg/L, monthly avg.	20	3.0	2.3
Effluent TSS, mg/L, monthly avg.	30	5.0	3.8
Total Coli form 7 day Median Max	23	16	3
Total Coli form Daily Maximum	240	30	4.5
% Removal BOD ₅ , monthly avg.	85% min.	98.6	98.8
% Removal, TSS, monthly avg.	85% min.	94.6	93.8
Electrical Conductivity, umhos/cm annual avg.	2100	2132 (YTD)	2220 (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>
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# of Active Lift Stations	# of Inactive Lift Stations	Chemical Usage Polymer-gals	SSO	Wastewater Received (MG)
15	0	50	0	47.81

COLLECTION:

- Flushed **0 ft.** of sanitary sewer “Hot-Spots”. YTD **0 ft. 0%** completed
- CCTV **0 ft. 0%** completed
- Inspected **0** manhole & covers. YTD **8**
- Performed weekly lift station inspections.
- Inspected vaulted lift stations.

MAINTENANCE

Wastewater

- Vacuumed out Clarifier no. 2 wet well
- Replaced the 3-way valve at Plant no.2.
- Installed GPS devices on vehicles as a pilot test.
- Switched UV Channels from UV 3000 to 3000+, replaced bulbs on UV 3000+ bank C module 5.
- Removed pump no. 4 from the Influent Pump Station at Plant no.1, megged out bad.
- Plant no.2 Magna Rotor Brush no. 1 has problems with the gear box
- Plant no.2 Magna Rotor Brush no. 4 needs to have a bearing replaced, both these action items are going to be addressed early August.
- Performed preventative maintenance.
- Pressure washed the clarifiers each week for algae removal.

Water

- Replaced limit switches on Well no.2.
- Replaced the chlorine line on Well no.5.
- Trouble-shooted and replaced Well no.6 control valve.
- Well no.2 main breaker tripped, had to reset.
- Performed preventative maintenance.



Preventive and Corrective

Total # of WO's Completed	Total Hours
191	114

Work Order Back-Log

Aging 8 - 30 Days	Aging > 30 Days
50	21

Call & Emergency Responses

Call Outs	Emergencies
10	0

Personnel Hours & Overtime:

Regular Hours	Overtime
1234	76.25

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