



CITY OF

OXNARD

WASTEWATER DIVISION

DECEMBER 2016

MONTHLY REPORT

CALIFORNIA

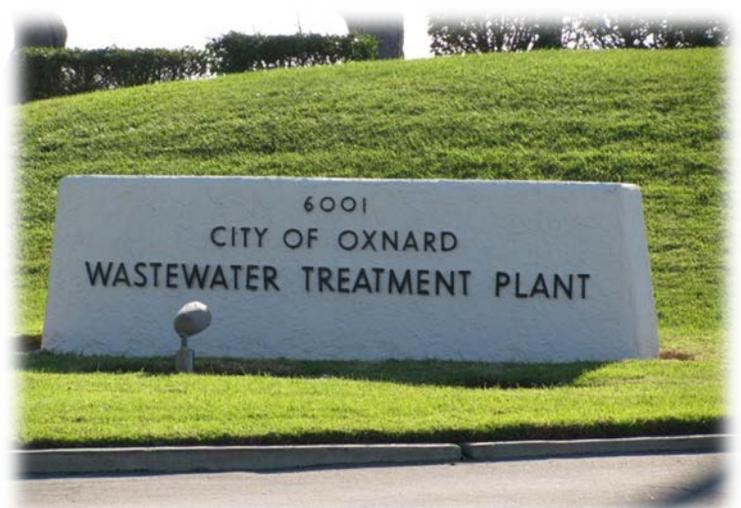


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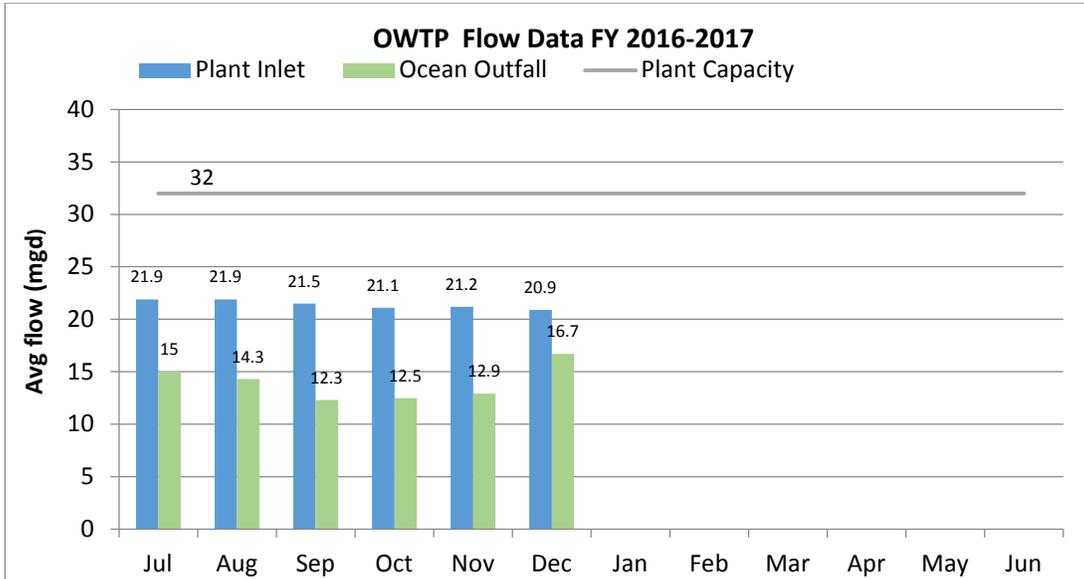
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Monthly Operations and Maintenance Report

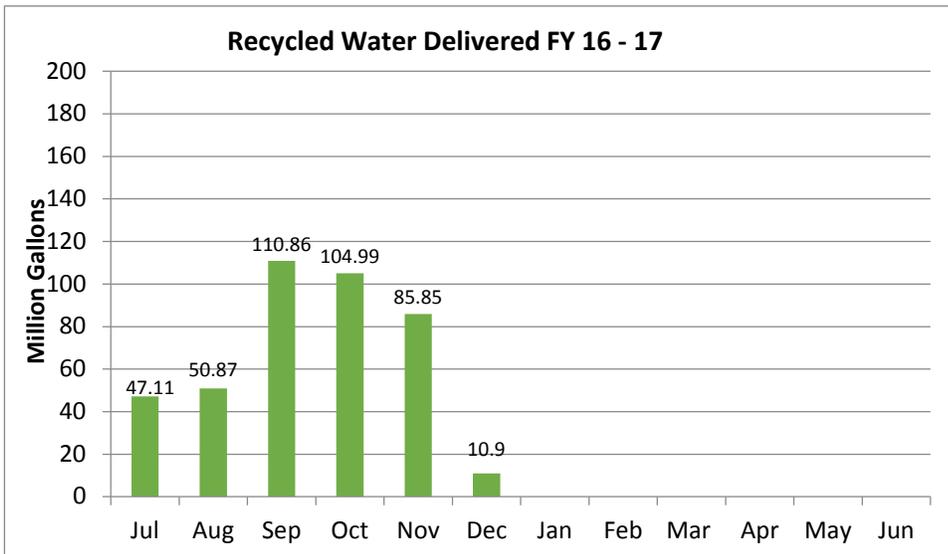
December 2016

Figure 1



Provide treated secondary effluent to Advanced Water Purification Facility (AWPF) for recycled water treatment.

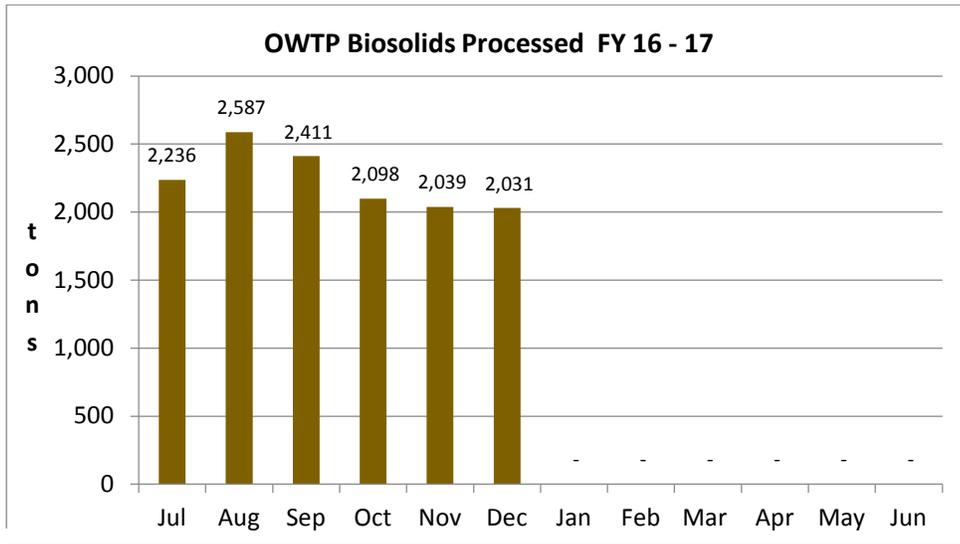
Figure 2



	Acre feet	Cum
7Jul	144.55	144.55
Aug	156.09	300.64
Sep	340.17	640.81
Oct	322.20	963.01
Nov	263.42	1226.43
Dec	33.45	1259.88
Jan		
Feb		
Mar		
Apr		
May		
Jun		

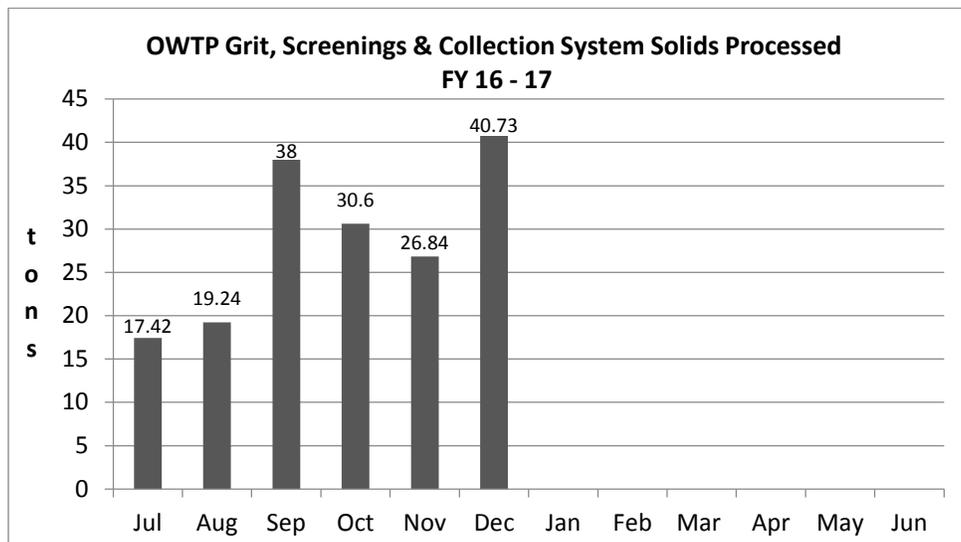
This graph illustrates monthly total volumes of recycled water delivered. Due to the recent wet weather events in December, the recycled water demand less than October & November.

Figure 3



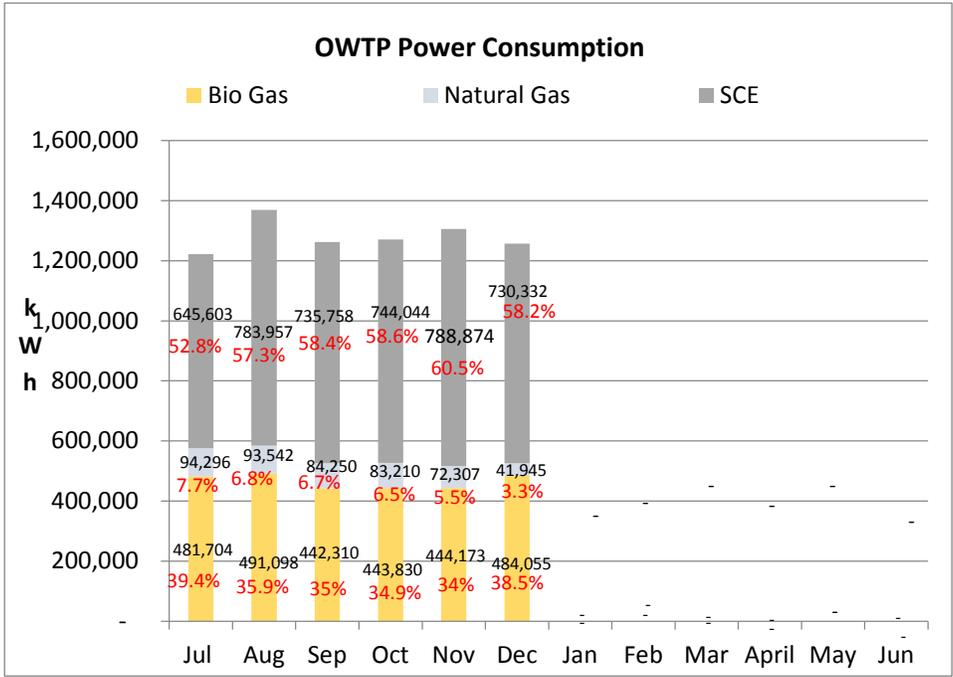
This graph illustrates monthly tonnage of biosolids processed.

Figure 4



This graph illustrates monthly tonnage of grit, screenings and Collection system solids processed.

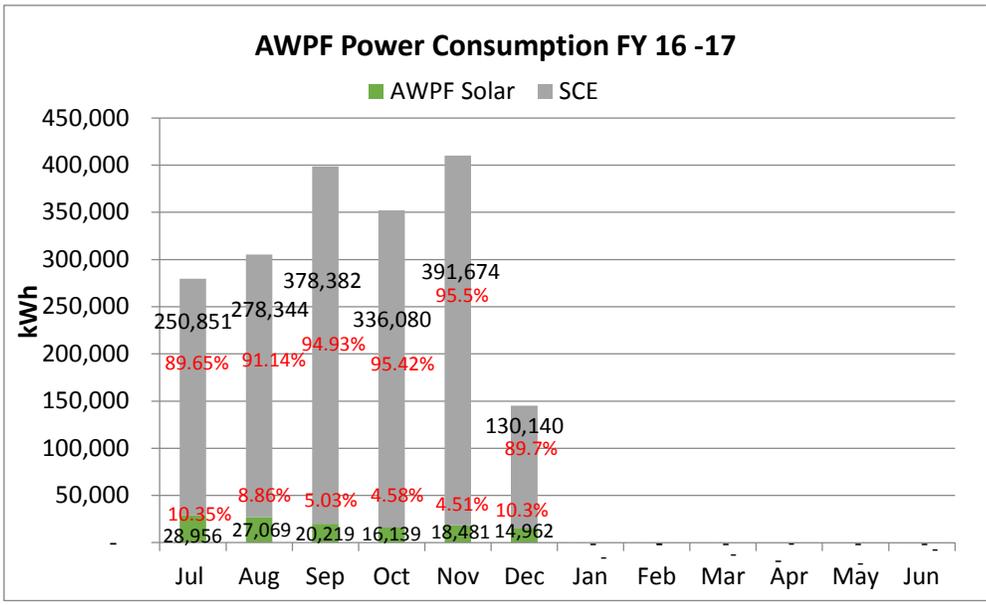
Figure 5



Month	kwh	Cum
Jul	1,221,603	1,221,603
Aug	1,368,597	2,590,200
Sep	1,260,925	3,851,125
Oct	1,271,084	5,122,209
Nov	1,305,354	6,427,563
Dec	1,256,332	7,684,185
Jan		
Feb		
Mar		
Apr		
May		
Jun		

This graph illustrates monthly power consumption of electricity at OWTP. A blend of natural gas and bio gas from the digesters is used to produce electricity. The remainder of OWTP’s power consumption is purchased from Southern California Edison at a cost of \$46,091.25 for the month of December.

Figure 6



Month	kwh	Cum
Jul	279,804	279,804
Aug	305,413	585,217
Sep	398,601	983,818
Oct	352,219	1,336,037
Nov	410,155	1,746,192
Dec	145,102	1,891,294
Jan		
Feb		
Mar		
Apr		
May		
Jun		

This graph illustrates monthly power consumption of electricity at the AWP. Solar panels at the AWP produce a small portion of electricity. Calculated Solar Power cost credit of \$944.25. The remainder of AWP’s power consumption is purchased from SCE at a cost of \$8,213.14 for the month of December.

1. REGULATORY COMPLIANCE REPORTING

OWTP

- Conducted and submitted annual State Bureau of Automotive Repair (BAR) Smog testing report
- Conducted annual diesel equipment Smoke testing and report filed
- Submitted annual fees for Air Toxic Information and Assessment program as required by Ventura County Air Pollution Control District (VCAPCD)

AWPF

None

Collections

- Submitted certified “No-Spill Report” to the State Water Resources Control Board.

Stormwater

- None

2. OWTP OPERATIONS & MAINTENANCE

a. OPERATIONS

i. Flow Treatment Process

1. Influent Pumps 2 and 3 have been repaired. Pump 6 is displaying a “High Vibration Alarm” and is currently the only pump out of service.
2. The Flow Equalization Basin (FEB) Gate has been repaired.
3. Installed the stop log at the FEB needed to divert more secondary effluent to the AWPf during low flow periods. Two additional six inch stop logs are available to fine tune the flow as needed.

ii. Solids Treatment Processes

1. Belt press #'s 1 & 3 have been repaired.

iii. Auxiliary Equipment and Lab

b. MAINTENANCE

i. Preventative Maintenance

1. Regularly scheduled preventative maintenance (i.e. check oil levels, belts, motors)
2. Conducted monthly generator testing on all units

ii. Non-scheduled repairs

1. Numerous SCADA / RTU issues resolved
2. Replaced batteries in UPS at Headworks electrical room
3. Replaced Variable Frequency Device(VFD) Current Transfer(CT) block influent pump #3
4. Thickened Waste Activated Sludge(TWAS) pump #2 packing adjusted and area cleaned
5. Serviced dissolved air flotation (DAF) feed pump # 3
6. Repacked 3W process water pump # 3

7. Replaced Pinion gears on belt press # 3
8. Replaced collector arm wheels for DAF tank # 2
9. Replaced belts on primary clarifier sludge pump # 4
10. Resolved gaseous odor issue in Lab storage room (sealed all pipe and conduit openings)
11. Repaired leaking seal water line on digester # 3 sludge pump
12. Repaired door to North are safety locker
13. Replaced Peristaltic hose in South de-chlorination area pump # 1
14. Serviced belt press # 3 hydraulic system
15. Repositioned belt press # 3 rack and pinion gear
16. Repacked digester sludge pump # 1
17. Replaced damaged worm gear on Secondary Sedimentation Tank (SST) skimmer # 4
18. Serviced packing and seal water on Chlorine Contact Tank (CCT) pump (Big Red)
19. Replaced main drive nut for Flow Equalization Basin (FEB) gate
20. Repaired broken chain and replace broken flight in SST # 12
21. Serviced # 2 skimmer unit at SST's
22. Repaired leaking cooling system on electro-motive diesel (EMD) emergency generator # 4
23. Replaced lights and pole on primary clarifier # 2

iii. Vehicle Maintenance

1. 3228 replaced fuel pump
2. 3640 serviced emission system
3. 6037 replaced burnt out headlight
4. 9402 rewired lighting on rear bumper
5. 3229 replaced thermostat
6. 9403 replaced wiper blades
7. 3139 two new tires and alignment, replaced wiper blades
8. 3641 oil and filter change, replaced air filter, tire inspection
9. 9403 oil and filter change, replaced air filter, wiper blades and brake service
10. Operation cart replaced 5 batteries

3. ADVANCED WATER PURIFICATION FACILITY (AWPF)

a. OPERATIONS

1. Flushed liquid lime (LL) pumps discharge line .
2. Replaced Ballast in UV Reactor.
3. Resolved problem with reverse osmosis (RO) flush system (will not turn on).
4. Removed and cleaned pinch valve for LL pump #1 & #2 in static mixer vault completely plugged.
5. Performed acid enhanced flux maintenance (EFM) on microfiltration (MF) racks #1,2,3,4,5 & 6.
6. Performed acid EFM on MF racks #1,2,3,4,5 & 6.
7. Troubleshoot ultraviolet (UV) reactor High alarm.
8. Repaired sump pumps in RO room.
9. Replaced UV lamps and checked reactor lamp #71 wires continuity from lamp's connector to ballast's connector.

b. MAINTENANCE

i. Preventative Maintenance

1. Tested emergency generator.

ii. Non-scheduled repairs

1. Numerous SCADA issues resolved
2. Blending station roll up door serviced
3. Installed 2 new blower units for wetlands
4. Reconfigured sample lines and installed new pump at blending station
5. Replaced fuel pump for AWPf van

4. WASTEWATER COLLECTIONS

Figure 7

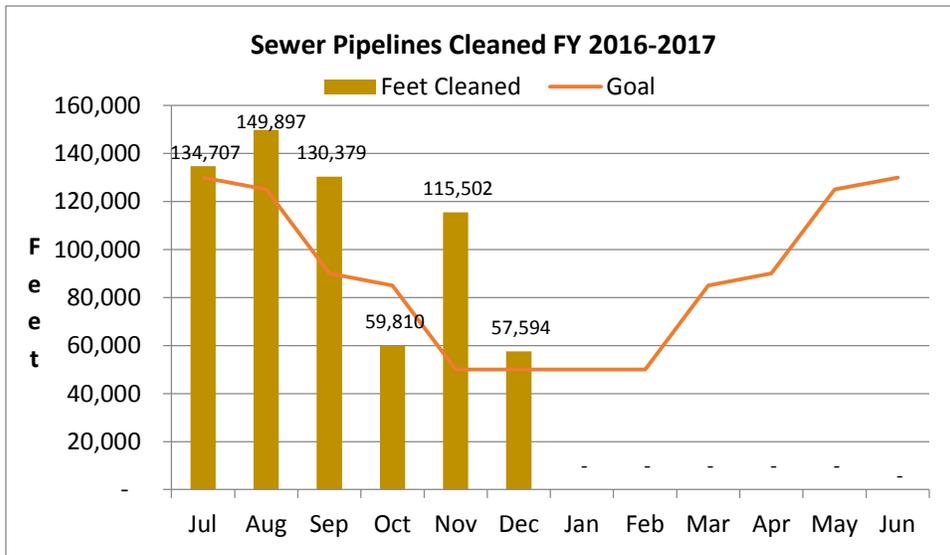
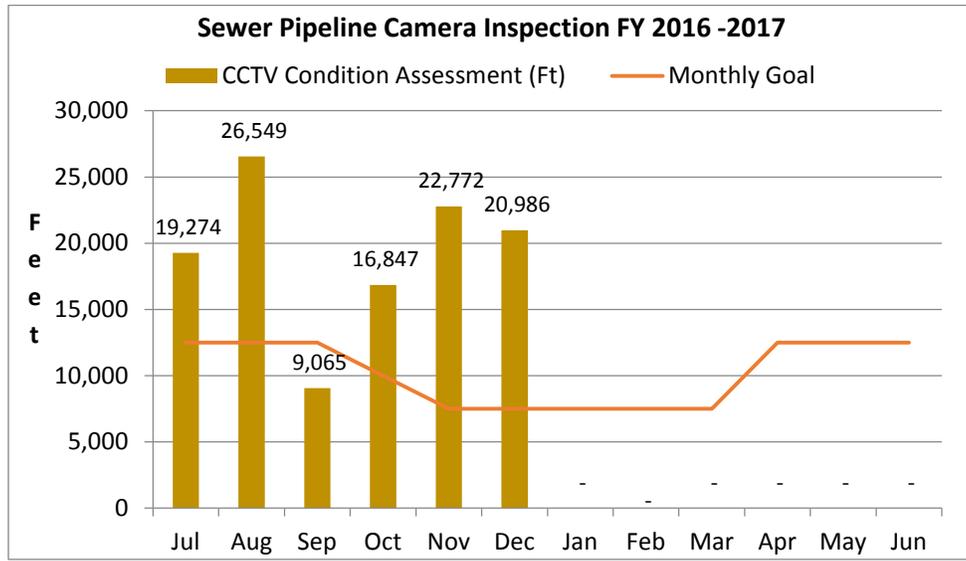


Chart illustrates the sewer pipelines cleaned monthly in the Wastewater Collection System for fiscal year 16-17.

Figure 8



This chart illustrates the sewer pipelines camera inspected and assessed by month in the wastewater collection system for fiscal year 16-17.

a. WASTEWATER COLLECTION SYSTEM

i. Preventative Maintenance

1. Cleaned 57,594 ft of sewer pipe.
2. Camera inspected 20,986 ft of sewer pipe.
3. Applied magnesium hydroxide chemical addition at Lift Station No. 6 for odor control in the Via Marina neighborhood.
4. Duke's Root Control performed Root Treatment of 64,011 ft of sewers in Las Posas Estates and other areas throughout the City. Las Posas Estates for 50% of the contract for Root Treatment.
5. Staff responded to (2) Private Sewer Lateral Discharges.
6. Performed chemical addition maintenance of gear box for magnesium hydroxide mixer located at Lift Station No. 6.

b. LIFT STATIONS

i. Preventative Maintenance

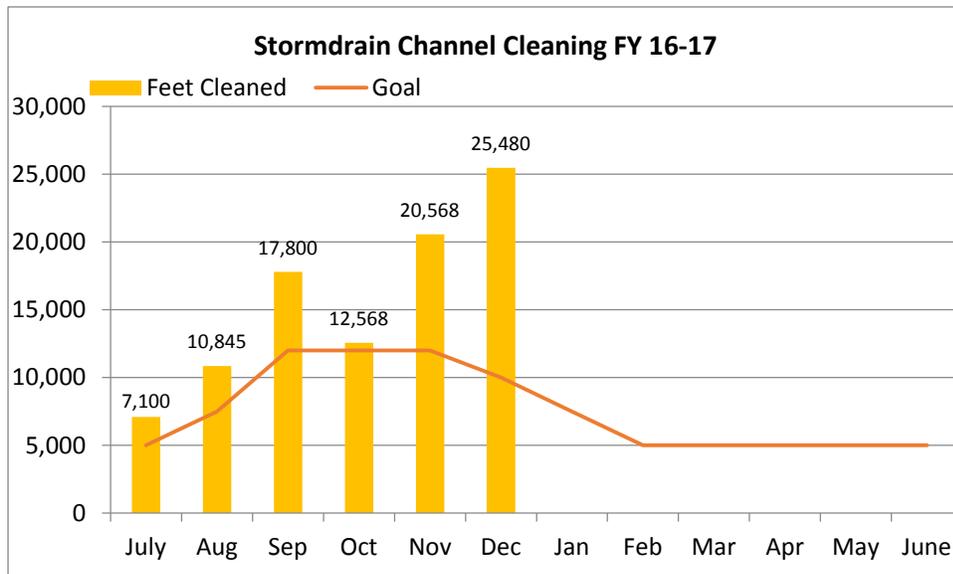
1. Lift Station No. 6 chemical addition maintenance.
2. Tightened all lugs in electrical panel station # 30
3. Cleaned nozzle on Vapex odor control unit at lift station # 29
4. Cleaned wet well level bubbler system all stations
5. Conducted monthly Emergency Generator Testing

ii. Non-Scheduled Repairs

1. Replaced pump # 2 breaker at station # 30
2. Worked with Frontier to resolve communication issues station # 6

5. STORM WATER

Figure 9



This chart illustrates the storm drain channels cleaned in the Stormwater Collection System by month for fiscal year 2016-2017

a. PREVENTATIVE MAINTENANCE

1. Storm Drain Channel Cleaning at the following:

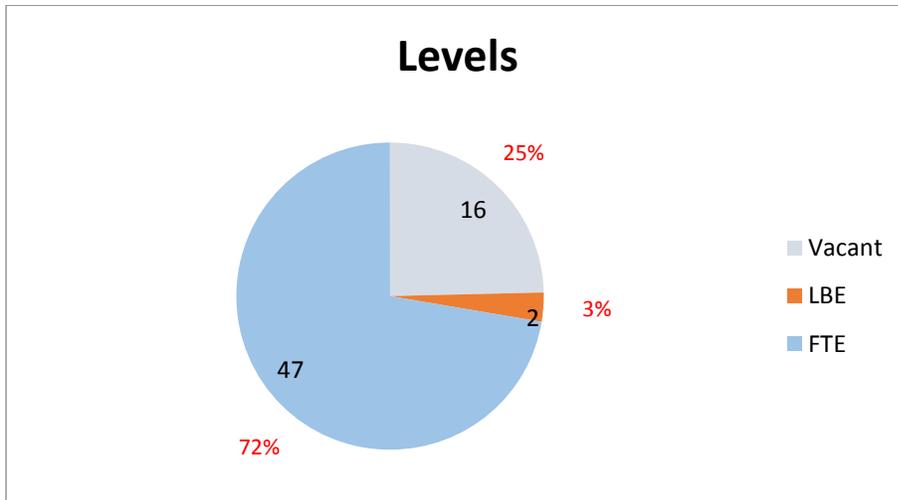
- Auto Center Drain
- Victoria Drain
- Doris Drain
- Chase Bros Drain
- Emerson Drain
- Lemonwood Drain
- Sturgis Drain
- Little Farms Drain
- Beach Drains

b. NON-SCHEDULED REPAIRS

1. None

6. STAFFING LEVELS

Figure 10



7. TRAINING

- a) Conduct Weekly tailgate sessions

8. CERTIFICATIONS/RENEWALS

Section	Certifications	Renewals
Maintenance	4	2
Operations	17	2
Collections	9	0
Lab	3	1

9. VISITORS

a. Air Pollution Control Dist.	0
b. Southern Ca. Edison	2
c. Water Quality Control Board	0
d. Tours # of People	1
e. Business Appointments	38
Monthly total =	41