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Water Operations Manager's Report July 2022

Introduction

The Phelan Piñon Hills Community Services District (District) maintains a large water distribution system that includes over three hundred & forty miles of water lines. The following are District statistics and information related to the operations of this distribution system and the quality of the water supplied to District customers.

Summary

The District's water distribution system is in compliance with the State Water Resources Control Board- Division of Drinking Water, The Environmental Protection Agency, Safe Drinking Water Act, Cal OSHA, and all other governing agencies.

Current chlorine demand has remained low and steady due to routine maintenance and flushing. Chlorine demand is found by subtracting the chlorine residual from the total chlorine added to the water system. A low chlorine demand indicates water-free or nearly free of pathogenic microorganisms.

Water Quality Samples

The following is a summary of all water quality samples collected this month and any pertinent information related to said samples.

TEST TYPE	NO. OF COLLECTIONS THIS MONTH	TESTING SCHEDULE	NOTES
Raw water and Bac-t samples	44 samples	Monthly	All in compliance, Sampled Weekly
General physical samples	6 samples	Monthly	All in compliance, Sampled Weekly
TTHM/HAA5	0 samples sets	Quarterly	All in compliance.
UCMR 4	0 sample sets	TBD	All in Compliance.
Inorganics	0 samples	Yearly	All in compliance.
Radiological (Gross Alpha)	0 samples	Every 3 Years	All in compliance.
Trichloropropane 1,2,3-TCP	0 samples	Quarterly	All in compliance.
Regulated VOC	0 samples	As needed	All in compliance.
Nitrate as N	0 samples	As needed	All in Compliance.
Chromium 6	0 samples	Quarterly	All in Compliance.
Secondary GP'S	0 samples	As needed	All in Compliance.
Uranium	0 samples	As needed	All in Compliance

Production and Service Order Report

The following is a summary of the District's water production and service orders for the current month.

Total Monthly Production	337.72 A. F. 11 % less than 2013 16% less than 2021
2013 Monthly Production	377.75 A. F.
USA's Marked	156
Service Orders Completed	499 service orders completed
Main/Service Line Leaks	72 service line leaks repaired. 0 Main line leak/ breaks repaired
Hydrant Repairs/Replacements	2 hydrant repaired/1 replaced
Residential Meters Sold	4
Commercial Meters Sold	0
YTD Total Meters Sold (Calendar)	50 (95 in 2021)
Construction Meters Out	5
Service Lines Replaced	1

Job Code Summary

Job Code	Total Completed
C-Lock - Lock	76
C-Read & Unlock-Open - Read & Unlock - Opening	5
C-Read & Unloc-OC-DM - Read & Unlock - Opening-OC-DM	97
D-Closing Read & Lck - Closing Read & Lock DO NOT USE	4
D-Closing Read-OC-DM - Closing Read & Lock-OC-DM DO NOT USE	2
M- Investigate Lock - Verify Meter Still Locked	25
M- Verify Acct Class - Verify Account Class	0
M- Water Audit - Audit Water Usage	4
M-Backflow - Backflow Information	0
M-Cost Estimate Req - Cost Estimate Request	4
M-Data - Data Log	5
M-Bees- Bees	0
M-Investigate Leak - Investigate Leak	0
M-Investigate No Wtr - Investigate No Water	2
M-Lock No N/O Info - Meter Locked No New Owner Info	0
M-Low/No Consumption - Investigate Low/No Consumption	14
M-Meter Leaking - Meter Leaking	0
M-Meter UTL - Buried - Meter UTL - Buried	2
M-Pressure Ck Hi-Low - Pressure Check Hi-Low	3
M-R/R Angle Stop - Repair/ Replace Angle Stop	0
M-R/R Gate Valve - Repair/ Replace Gate Valve	0
M-Read - Read (do not update Read)	3
M-Repair Svc Line - Repair Service Line	72
M-Repair/Install Box - Meter Box	3
M-Replace Serv Line - Replace Service Line	1

M-Stake Meter Loc - Stake Meter Location	1
M-Status - Status	6
M-Turn off-Cust Req - Turn off - Customer Request	6
M-UNLOCK – UNLOCK	27
M-Verify Leak Repair - Verify Leak Repaired	2
M-Water Loss Leak - Door Hanger Water Loss Leak	2
M-Water Quality Taste - Water Quality - Taste	1
S- Replace Register - Register Not Sending Signal	0
S- Meter Downsize - Meter Downsizing	0
Service Change - Service Status Change	0
S-Replace Mtr & Reg - Replace Entire Meter Max Life Usage	3
S-Replace Reg Hotrod - Replace Register Hotrod Died	41
S-Replace Register - Replace Register Mueller	0
S-Replace Mtr- Replace Entire Meter Bottom Seal Leaking	6
Grand Totals	499

Summary of Current Projects

The following is a brief summary of all current and completed projects for the reported period

- Well Soundings at all wells are being done monthly
- Well 11 Production loss due to holes in column pipe- SCADA monitoring of well meters avoided possible destruction of well casing due to jetting from holes. Well rehabilitation is underway.
- Well 14 Production for June 0.24 AF, YTD 1.97 AF @ \$1055 per AF replacement C/Y 2022
- Valves and Hydrants Maintenance: 0 hydrants flushed and painted YTD Total-42
- Service line replacement program on target to meet current established goals. 129 Replaced Calendar Year To Date, 1 Replaced Fiscal Year To Date
- Air-Vac maintenance & flushing program-1 Flushed & Maintenance YTD-71 of 336 Total Project 21% Complete
- Cla-Val automatic controls valves being systematically rebuilt as a water conservation measure- 13 Complete YTD Water savings from this project is 15 GPM and counting @ 7MG
- Water Meter Replacement Project- 2919 of 7050 Replaced – 41 % Complete

Projects Completed

- Successfully deployed emergency backup generators to 4 locations on 3 occasions in June 5 events Total for 22
- Diving cleaning of Zone G Reservoir- 100% Complete
- Tank 1A-3 Interior coating sand, blast, re-coat- 100% Complete
- Replacement of Booster motor B at site 3A- 100% Complete
- Re-wiring of site 5A Boosters A, B, C and control wiring-100% Complete
- Well Meter and inter-tie Meter annual accuracy program FY 21/22- 100 % Complete
- Electrical Efficiency test performed @ every booster and well within the District- 100% Complete with summaries of notable replacements attached
- Oil Changes and greasing at all district wells 100% Complete Boosters 100 % Complete
- 0 Valves Turned this month as part of the district Valve Exercising Program, 152 Year To Date Turned of 4291
- 317 Dead ends flushed of 317 = every year no matter what < No goal, this is mandatory
- 1936 hydrants = 5 flushed this Year To Date 159 Painted Goal is 968 annually, this is done Bi-Annual
- Tank washouts of 1B-2,1B-1,3B,3C,1C-1,5A,1A-3, Well 2-1, 4A, Well 2-2, Zone G Complete