

Forest View Acres Water District

Operations Report – August 2020

Prepared by Clyde Penn ORC Water Professionals

Arapahoe Water Plant

- The plant produced 99% of demand for August;
- Purged Chlorine Analyzer as Needed
- Alarm System on order
- Plant Checks, Mixed Chemicals

Booster Pump Station

- Checked Booster Station
- Booster Station Alarm – Loss of Communication with AWP – Happens Daily which causes the plant to trip off

Distribution

- Meters were Read on 28 August 2020 and will be read on 28 September – Reports completed
- Monthly BACTI's / Lead and Copper Samples
 - o Upcoming samples include SOC/VOC,

Surface Water Plant

- The plant produced 1% of demand for July;
- No flow in Canyon; trying to run the plant occasionally
 - o Ran the plant at 20 gpm for about 45 Minutes, Inlet Pressure dropped to below 50 PSI
- Completed monthly MOR report for state – No Violations

Production for the Month of August 2020

Year	Month	SWTP Production - BW	% of Total	AWP Production	% of Total	Total Production	Total Water Sold	Percentage Discrepancy
2020	Jan	0	0%	2,061,922	100%	2,061,922	1,256,861	39.04%
	Feb	0	0%	1,922,915	100%	1,922,915	1,252,367	34.87%
	Mar	0	0%	1,651,707	100%	1,651,707	1,204,035	27.10%
	Apr	0	0%	1,814,822	100%	1,814,822	1,379,752	23.97%
	May	0	0%	1,997,113	100%	1,997,113	1,935,338	3.09%
	Jun	824,456	33%	1,697,757	67%	2,522,213	2,281,558	9.54%
	Jul	752,647	28%	1,916,247	72%	2,668,894	2,302,404	13.73%
	Aug	43,200	1%	2,908,781	99%	2,951,981	2,482,113	15.92%
	Sep							
	Oct							
	Nov							
	Dec							
Total		1,620,303	8%	15,971,264	92%	17,591,567	14,094,428	19.88%

2019 Water Leaks:

13 March 2019 Service Line Leak – 3830 Range View – Being repaired by homeowner

05 June 2019 Main Line Break on Oxbridge – Hit by Foothills Electric

23 October Service Line Break on Rockbrook Dr. – Repaired by Homeowner

Flushed Hydrants on Rockbrook Dr because of water quality complaint – Brown Water.

2” Main on Clovenhoof was flushed multiple times during sewer line installation

2020 Water Leaks:

4825 Limestone – Service line between the Main and Curb Stop – REPAIRED

18810 Cloven Hoof – Service line leak – Repaired by Homeowner

Flushed Hydrants – Water Quality Complaints

Service line leak 18640 Cloven Hoof Dr. – Homeowner Notified

Meters

Total of 329 Meters in District of which 328 are Remote Reading currently

2019 New Meter Installations / Water Taps:

4660 Red Stone Ridge Rd

4640 Red Stone Ridge Rd

Two meters installed for new homes on Forest View Rd.

2020 New Meter Installations / Water Taps:

4909 Redstone Ridge – Meter Installed

4820 Limestone Rd – Meter Installed

Tap Fee Paid at New Build on Forest View Rd

New Build on Stone View – Tap Fee Not Paid Yet

Meter Repairs:

Have repaired 11 Meters, still have two left to work on

Locates

- New Company doing locates – Contacted new company doing locates, offered assistance should they need help on locates

The Next Generation of Wireless Real-Time Alarm, Monitoring, and Remote-Control

All of the functionality of the legacy series (M110 and M800) with an onboard interactive display and enhanced electronics

MyDro 150 and 850 RTUs

Easy to Install

Each remote terminal unit (RTU) includes all necessary hardware for a standard installation, such as a cellular radio, enclosure, backup battery, transformer, antenna with cable, and mounting hardware. Purpose-built RTUs simplify and speed installation. There is no programming required, and RTUs are self-enrolling.

Reliable Wireless Communications

RTUs operate on current generation cellular radios for dependable data transmissions. Mission maintains direct relationships with the largest cellular carriers in the U.S. and Canada to ensure the best service possible. There are no radios to license or cellular contracts to set up.

Real-Time Alarms Delivered To All Devices

Real-time alarms are delivered via phone call, text message, email, fax, page, and even to an existing HMI software through an OPC data link. Each alarm is logged with a time stamp for tracking and reporting. The alarm call-out schedule is easy, flexible, and intuitive to set up.

Managed Service—The Complete Package

The Mission system includes all cellular data service, data storage, alarm call-outs, reports, and on-call, 24-7-365 technical support. The highly reliable turnkey system offers more features at a lower cost than an in-house setup. No engineering or programming is required, and there are no networks to maintain.

View data and reports using the secure 123SCADA web portal, accessible from any web-enabled device. The 123SCADA user interface is designed to mimic industry-standard HMI SCADA and also includes a legacy user mode. Tabular and graphical reports can be used for compliance reporting and comparative studies. System enhancements are available immediately and included at no cost.

M150 RTUs

Real-Time Alarms with Hourly Summaries

M150 RTUs summarize pump runtimes and pump starts hourly. All alarm data is reported in real-time. Analog data and RTU status are reported hourly. Simultaneous pump runtimes can be reported when two pumps run.

M850 RTUs

Real-Time Alarms and Streaming Data

M850 RTUs report pump starts and stops in real-time. Analog values are reported every two minutes or on a five percent change. Volumetric flow calculations can utilize this information along with sump volume (as determined by an analog level sensor or fixed entries) to calculate hourly volumetric flow rates.

Remote-Control

Expand system operations with optional remote-control for off-site wells, tanks, gates, chlorine dosers, variable frequency drives, and more. Optional automatic remote control interfaces include the Tank and Well Control Package, Digital Interconnect, and Analog Interconnect.



LCD Touch Screen

- Displays current status
- Supports local configuration

Radio

- Cellular radios support LTE, 4G, 3G, and 2G for both GSM (AT&T and partners) and CDMA (Verizon and partners)
- No radio licenses or site path studies required

Expandable

- Up to 16 digital inputs, 6 analog inputs, 2 pulse inputs, and 2 analog outputs, simultaneously
- Onboard digital inputs configurable for wire fault supervision or strap on current sensing switch for easier pump run indication
- RS485 for digital, analog, and pulse expansion

Enhanced

- 12 or 24 VDC auxiliary output for battery-backed analog instrument loop power
- Over-the-air upgradeable firmware

	MyDro 150	MyDro 850
Wastewater	Sewage lift station, industrial water quality (WQ) alarming, lift station generator alarming	Master pump station monitoring and remote-control, critical process monitoring, open channel flow monitoring, sewer station power monitoring, reuse water monitoring and control
Water	Pump station alarming, reservoir level alarming, remote valve alarming, chlorine (Cl) residual WQ alarming, pressure reducing valve station alarming	Pump station monitoring, tank and multiple well control, remote valve monitoring and control, Cl residual WQ alarming, flow or pressure monitoring
Other	Gate status alarming, rainfall monitoring	Septic offfload and billing, custody transfer and billing, canal level monitoring and gate control, I&I flow, level data logging

Facility	Unit Type	Cost	Comments
Arapahoe	MyDro 150	\$1,445.00	
	Annual Service Package	\$295.20	With 3 year commitment
Booster Station	MyDro 150	\$1,445.00	
	Annual Service Package	\$295.20	With 3 year commitment
Surface Plant	MyDro 850 w/ expansion module	\$2,840.00	With Nema 4x enclosure and expansion board for data logging
	Annual Service Package	\$539.00	With 3 year commitment
	New Account Setup	\$250.00	
	Shipping	\$75.00	
		\$6,055.00	Up Front Cost
		\$1,129.40	Annual Cost for Service