

# Forest View Acres Water District

Operations Report –December 2019 / January 2020

Prepared by Clyde Penn ORC Water Professionals

## Arapahoe Water Plant

- The plant produced 100% of demand for August
- Cleaned Injector for Chlorine
- Purged Chlorine Analyzer as Needed
- Plant Checks, Mixed Chemicals

## Booster Pump Station

- Checked Booster Station
  - o Pilot Valve on Return Line PRV developed a leak on the body, Replaced PRV
    - General Alarm – Water on the floor
      - Was able to get the plants/booster station online but could not clear the alarms. Have attached an estimate to have Jeff Robison look into the programming

## Distribution

- Tie-in on Forest View Rd was completed
- Meters were Read on 27 December 2019 and will be read on 27 January 2020
- Monthly BACTI's
  - o Upcoming samples include SOC/VOC, Fluorides

## Surface Water Plant

- The plant produced 0% of demand for November because of low water flow in the canyon – inlet pressure is at about 30 psi – Still getting water out of the pipe, just no pressure
- Completed monthly MOR report for state – No Violations – Plant offline
  - o Going to have a New MOR Report that will need to be filled out once plant is back online

## Locates

- Completed Locates for the Month
  - o Having to complete Positive Response for each locate now

## Production for the Month of November and December 2019

| Year         | Month | SWTP Production - BW | % of Total | AWP Production    | % of Total | Total Production  | Total Water Sold  | Percentage Discrepancy |
|--------------|-------|----------------------|------------|-------------------|------------|-------------------|-------------------|------------------------|
| 2019         | Jan   | 152,587              | 8%         | 1,680,427         | 92%        | 1,833,014         | 1,277,263         | 30.32%                 |
|              | Feb   | 0                    | 0%         | 1,335,096         | 100%       | 1,335,096         | 1,031,991         | 22.70%                 |
|              | Mar   | 0                    | 0%         | 1,533,895         | 100%       | 1,533,895         | 1,183,118         | 22.87%                 |
|              | Apr   | -63,912              | -4%        | 1,748,857         | 104%       | 1,684,945         | 1,183,142         | 29.78%                 |
|              | May   | -35,803              | -2%        | 1,867,532         | 102%       | 1,831,729         | 1,398,912         | 23.63%                 |
|              | Jun   | 183,124              | 8%         | 2,005,631         | 92%        | 2,188,755         | 1,732,721         | 20.84%                 |
|              | Jul   | 1,009,434            | 42%        | 1,408,667         | 58%        | 2,418,101         | 1,842,689         | 23.80%                 |
|              | Aug   | -710                 | 0%         | 2,494,354         | 100%       | 2,493,644         | 1,909,733         | 23.42%                 |
|              | Sep   | -67,885              | -3%        | 2,766,096         | 103%       | 2,698,211         | 2,082,272         | 22.83%                 |
|              | Oct   | 0                    | 0%         | 2,199,877         | 100%       | 2,199,877         | 1,416,580         | 35.61%                 |
|              | Nov   | 0                    | 0%         | 2,379,072         | 100%       | 2,379,072         | 1,223,100         | 48.59%                 |
|              | Dec   | 0                    | 0%         | 1,300,350         | 100%       | 1,300,350         | 1,167,076         | 10.25%                 |
| <b>Total</b> |       | <b>1,176,835</b>     | <b>4%</b>  | <b>22,719,854</b> | <b>96%</b> | <b>23,896,689</b> | <b>17,448,597</b> | <b>26.98%</b>          |

SWTP Offline JAN/FEB/MAR 2019 because of Frozen Supply Line

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

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

**SWTP Offline SEPT/OCT/NOV/DEC 2019 because of low flow in the Canyon**

**Flushed Hydrants Multiply times during the work on Forest View Rd**

### 2018 Water Leaks:

11 February 2018 – Forest View and Red Forest: Repaired by J&K; Flowed Hydrants after Repairs

27 August 2018 – Sandstone and Pixie Park PRV – Leaking; Parts (SS) on order – Setting up a date for Repair/Training to install parts

27 August 2018 – 4315 Sandstone service line leak – Isolated/Repaired

29 October 2018 Sandstone and Pixie Park PRV – Leaking at outlet pressure gauge – Repaired

08 December 2018 Main Leak Red Forest Rd. – Repaired by Global

23 December 2018 Service Line Leak – 3765 Sierra Vista – Repaired by Homeowner

### 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

## **Meters**

**Total of 326 Meters in District of which 325 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.

**From:** Jeff Robison <[jeff@fluidbuilt.com](mailto:jeff@fluidbuilt.com)>

**Date:** January 9, 2020 at 13:45:52 MST

**To:** Clyde Penn <[cpenn@orcwater.com](mailto:cpenn@orcwater.com)>

**Cc:** Gabrielle Begeman <[gbegeman@orcwater.com](mailto:gbegeman@orcwater.com)>

**Subject: Cost Estimate for Booster Station Alarms**

Clyde-

Below is a cost estimate for troubleshooting and reprogramming the booster station PLC and HMI alarming.

Currently the booster station alarms cannot be reliably acknowledged and cleared after the original alarm condition is fixed.

This causes the Arapaho plant to be locked out.

\$1,350 - Labor (10 hours @ \$135/hr)

\$105 - Direct Costs (Mileage)

The total time and material (T&M) estimate is \$1,455. We can schedule the work as soon as we have approval.

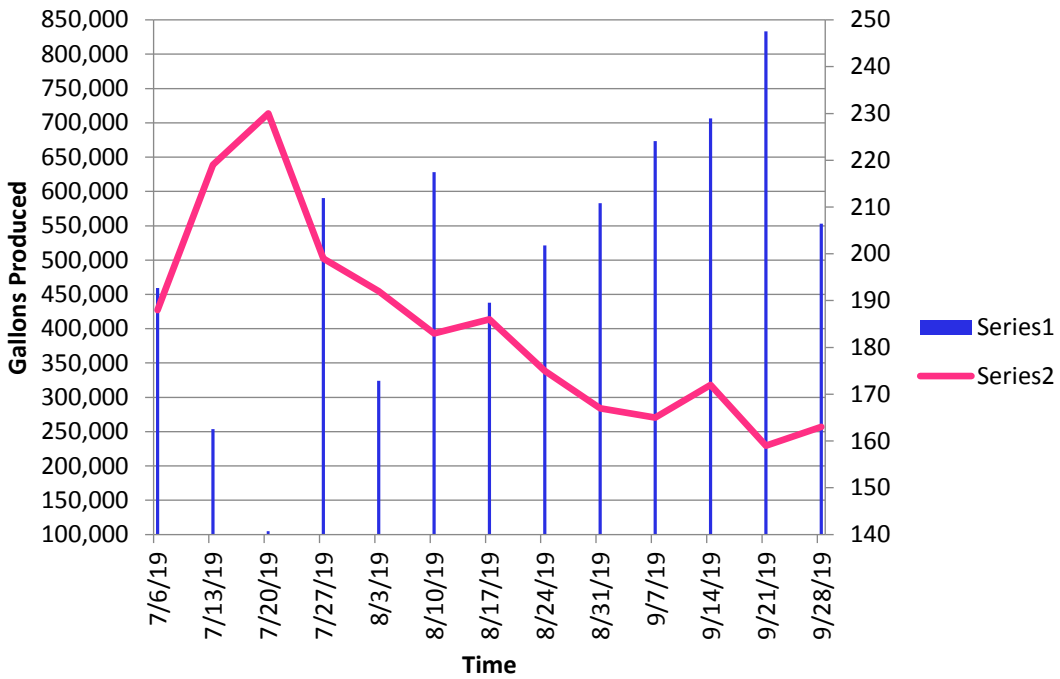
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Jeff Robison, PE

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Owner | Fluid Design + Build, LLC

### 3rd Qtr Water Over Pump vs Production 2019



### 4th Qtr Water Over Pump vs Production 2019

