

# OLIVEHURST PUBLIC UTILITY DISTRICT

October 28th, 2020

To: John Tillotson

From Karl Cozad

Re: Monthly Report of Activities

1. Water Treatment Plants / Wells

WTP #4 / well#1 no operating issues. Sept. total 30.209 MG

WTP #28 / well #10 no operating issues. Sept. total 0.0 MG

Wheeler Ranch WTP well #29 and #30 Sept. total 52.834 MG. The water treatment plant experienced valve failure causing backwash to inter the distribution system. The backwash system is automated and programmed to go through a series of functions every other day starting at 1am when the least amount of water is consumed. Dirty water complaints started October 12<sup>th</sup> and along with many employees flushing the distribution system, staff resolved the issue by October 23<sup>rd</sup>. The WTP was not designed with a fail-safe system of shutting down the backwash or plant with employee notification. Wright One Electric took over OPUD electrician John Niswanger upon his retirement, plus obtaining the only program for WTP #4, #28, WR, PL. I asked Wright One Electric for a proposal to provide and install a new PLC control cabinet, which will be programmed to perform a backwash cycle. If the actuator valve fail to open or close during a backwash cycle, the backwash cycle will stop and go to an alarm state. The WTP is not removing the manganese of which the filters were designed. The faulty valves could have decreased the filter media levels. Loprest Filter Inspection Services will be scheduled to inspect the filters and make recommendations. This is a start, four more WTP to address.

Lindhurst Booster Pump Station no operating issues.

Plumas Lake WTP well #31 and well #32. No operating issues. Sept. total 62.0 MG

WTP #34. The plant is off line. Sept. total 0.0 MG. The AC unit to cool the VFD for the 300 horse power well motor will be replaced by Valley Pump for \$9,800.00 plus labor. Two OPUD staff will help with the install. LJ Serving quoted \$27,000.00. The COVID-19 issue has caused many delays in equipment.

2.

| Total MG | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019   | 2020  |
|----------|-------|-------|-------|-------|-------|-------|--------|-------|
| Jan.     | 48.5  | 62.0  | 50.5  | 44.8  | 60.2  | 49.5  | 49.3   | 52.7  |
| Feb.     | 48.8  | 47.3  | 47.0  | 43.3  | 42.4  | 47.2  | 44.8   |       |
| Mar.     | 52.2  | 56.6  | 76.2  | 48.6  | 50.5  | 51.2  | 52.9   | 74.2  |
| Apr.     | 78.1  | 81.2  | 77.8  | 72.2  | 53.6  | 65.1  | 70.0   | 93.8  |
| May      | 177.5 | 144.9 | 102.5 | 104.7 | 121.5 | 116.9 | 104.3  | 142.2 |
| Jun.     | 175.5 | 169.7 | 113.3 | 139.8 | 142.2 | 151.8 | 151.5  | 165.4 |
| Jul.     | 193.1 | 188.7 | 126.4 | 156.5 | 170.3 | 171.4 | 168.3  | 186.9 |
| Aug.     | 225.6 | 166.3 | 117.2 | 146.3 | 161.0 | 152.1 | 170.9  | 176.9 |
| Sep.     | 216.4 | 134.4 | 97.6  | 130.9 | 134.1 | 131.2 | 136.8  | 145.0 |
| Oct.     | 163.7 | 105.5 | 88.1  | 88.7  | 110.5 | 105.2 | 117.2  |       |
| Nov.     | 117.0 | 56.0  | 44.0  | 52.6  | 58.2  | 80.7  | 91.168 |       |
| Dec.     | 83.7  | 53.8  | 46.4  | 49.3  | 51.7  | 53.5  | 60.5   |       |

The pumping report will be a month behind.

3.

| Water Wells | Static Sept | Static Oct. | Op. Sept. | Op. Oct. | Setting |
|-------------|-------------|-------------|-----------|----------|---------|
| Well #1     | 38ft        | 49ft        | 62ft      | 66ft     | 140ft   |
| Well #4     | 46ft        | 58ft        | 71ft      | 86ft     | 140ft   |
| Well #10    | 31ft        | 46ft        | 47ft      | 58ft     | 160ft   |
| Well #28    | 37ft        | 48ft        | 59ft      | None     | 200ft   |
| Well #29    | 43ft        | 32ft        | 125       | 102      | 252ft   |
| Well #30    | 50ft        | 33ft        | 128ft     | 110ft    | 190ft   |
| Well #31    | 53ft        | 36ft        | 132ft     | 120ft    | 200ft   |
| Well #32    | 54ft        | 35ft        | 128ft     | 110ft    | 180ft   |
| Well #34    | 26ft        | 23ft        | None      | None     | 200ft   |

4. For the month of October 2020 the distribution system and water treatment plants met all requirements.

5. Water Distribution Repairs

Repair and install fire hydrant corner of Turpen and Powerline Road.

1539 2<sup>nd</sup> Ave. repair crimped ¾ inch copper service line.

1710 and 1716 Maplehurst moved service up to grade and relocate r one meter to correct address.

1909 and 1923 Chapman install meters

1786 Copley Way replace copper service with poly pipe.

6. Radio Read Meters
  - 117 meter locations on MXUs have been tested and repaired
  - 14 MXU replaced
  - 21 registers replaced
  - 18 GPS corrected
  - 15 flow checked and discussed with customer
  - 3 touch couplers repaired
  - 80 locations on Non Consumption list repaired as necessary.
  - 4 chamber replaced
  
7. Meter Program 412 flat rate services. Installed 2 in October
  
8. Water service shut off for non-payment on hold.
  
9. District Subdivision and other projects
  - a. June finals Plumas Lake 18
    - 984, 995, 996, 1003, 1004, 1011 Jadeston Way---Lennar
    - 2085, 2092, 2093 Lavender Court---Lennar
    - 883, 884, 888, 894 Tiburon---Cresleigh
    - 1047 Monterey Way---Cresleigh Homes
    - 1369, 1371, 1373 High Noon Drive---Capital Valley
    - 1432 Vista Drive---Capital Valley
  - b. June final Olivehurst 1
    - 1470 Furneaux---UPS