

NORTH BEACH WATER DISTRICT

GENERAL MANAGERS REPORT

August Meeting - 2024

Well Field Output

| | | | | | |
|---------------------|----|----------------------|-------------------------------|-----------------------|-----------|
| <u>July 1, 2024</u> | to | <u>July 31, 2024</u> | NWF Master Meter: | <u>15.1737</u> | mg |
| | | | SWF Master Meter: | <u>0.0000</u> | mg |
| | | | Total Pumped to Plant: | <u>15.1737</u> | MG |

Water Plant Production

| | | | | | |
|---------------------|----|----------------------|----------------------------|-----------------------|-----------|
| <u>June 1, 2024</u> | to | <u>June 30, 2024</u> | NWF Master Meter: | <u>10.9410</u> | mg |
| | | | SWF Master Meter: | <u>0.0000</u> | mg |
| | | | Accounted for Water: | <u>9.5280</u> | MG |
| | | | Total Water Pumped: | <u>10.9410</u> | MG |

Metering Period

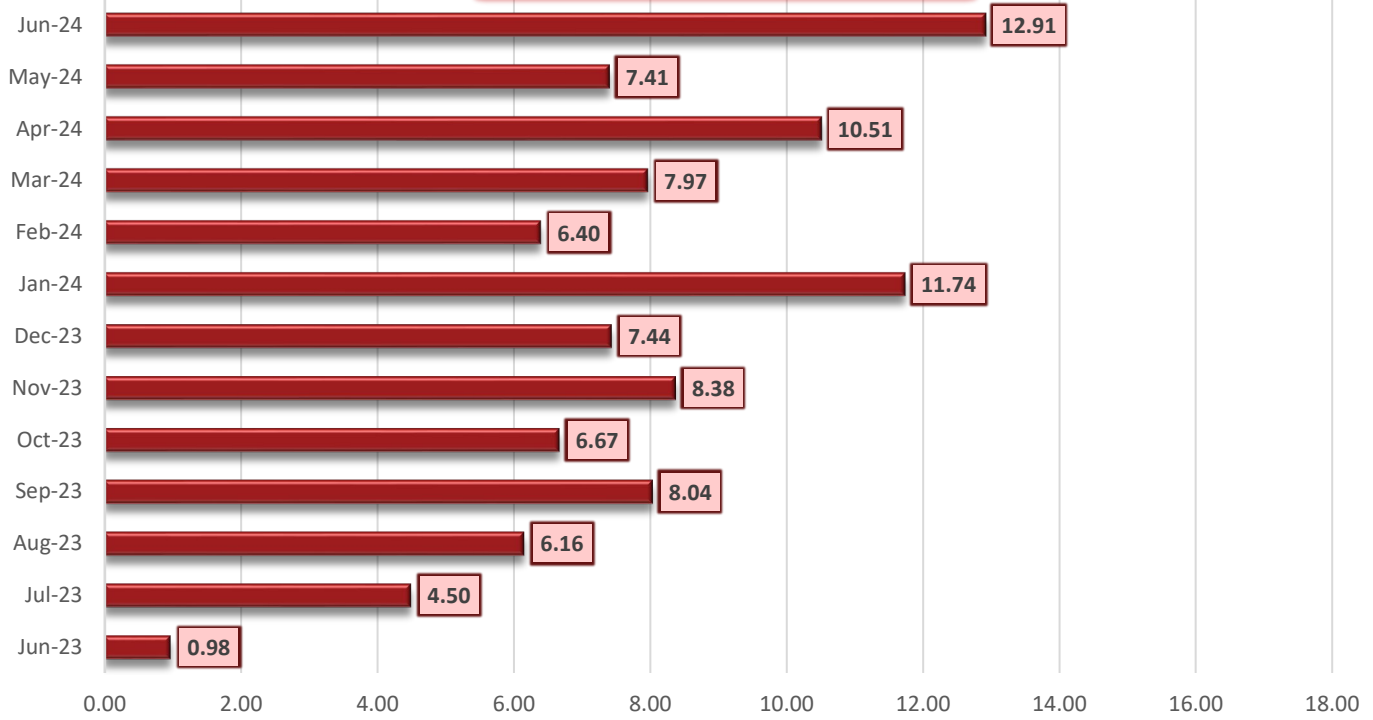
| | | | | | |
|---------------------|----|----------------------|---------------------------|----------------------|-----------|
| <u>June 1, 2024</u> | to | <u>June 30, 2024</u> | Total Water Sold : | <u>7.1970</u> | MG |
|---------------------|----|----------------------|---------------------------|----------------------|-----------|

May's Accounted for Water:

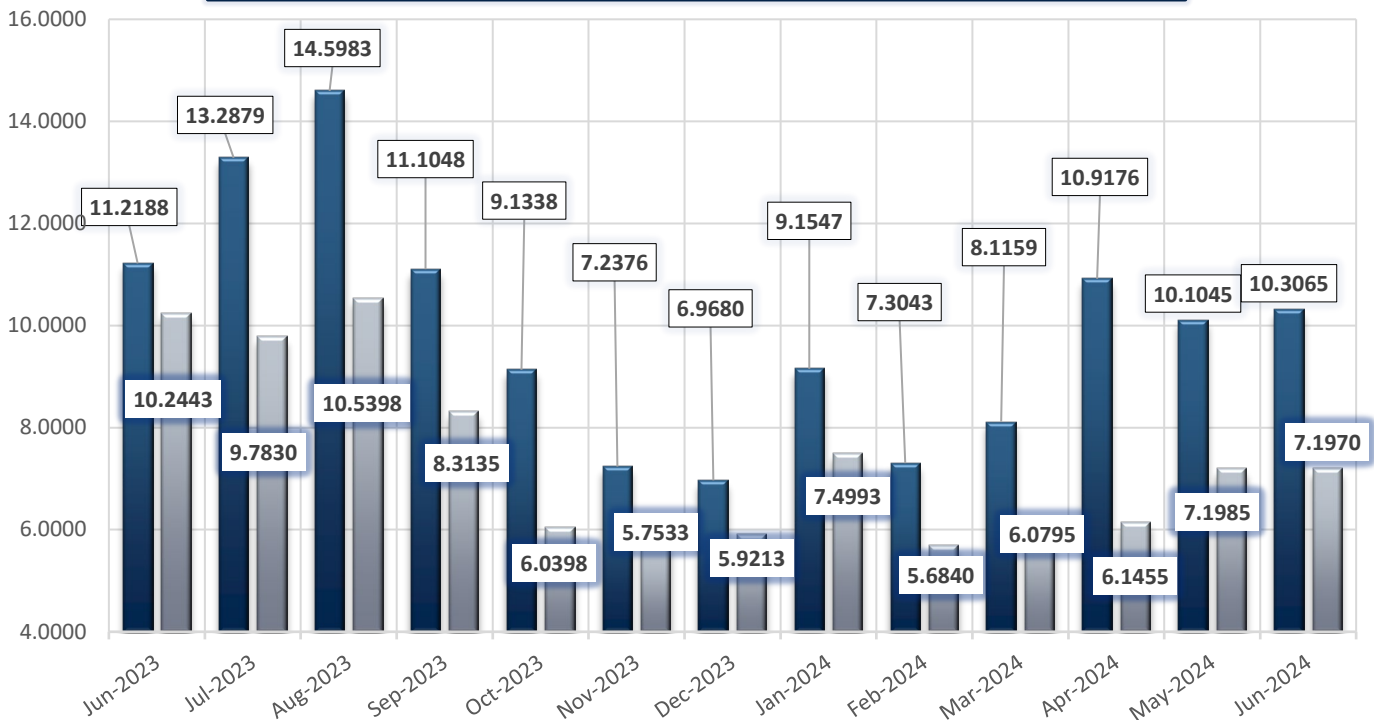
| | | | |
|---|-----------------------------------|----------------------|-----------|
| | NWF Backwash : | <u>0.6417</u> | mg |
| | SWF Backwash : | <u>0.0000</u> | mg |
| Distribution Flushing, Fire Dept, Pac Co & Waterline Leak Repair's: | | <u>1.6474</u> | mg |
| | NBWD use NWF & SWF: | <u>0.0419</u> | mg |
| | Total Accounted for Water: | <u>9.5280</u> | MG |

| | | | |
|--|---|----------------|----------|
| | Total Water Treated : | <u>10.9410</u> | MG |
| | Accounted for Water Used : | <u>9.5280</u> | MG |
| | Water Sent to Distribution : | <u>10.3065</u> | MG |
| | Water Sold : | <u>7.1970</u> | MG |
| | Distribution Leakage : | <u>1.4130</u> | MG |
| | Percent of Unaccounted for Water : | 12.91 | % |

DSL - Percentage of Lost Water



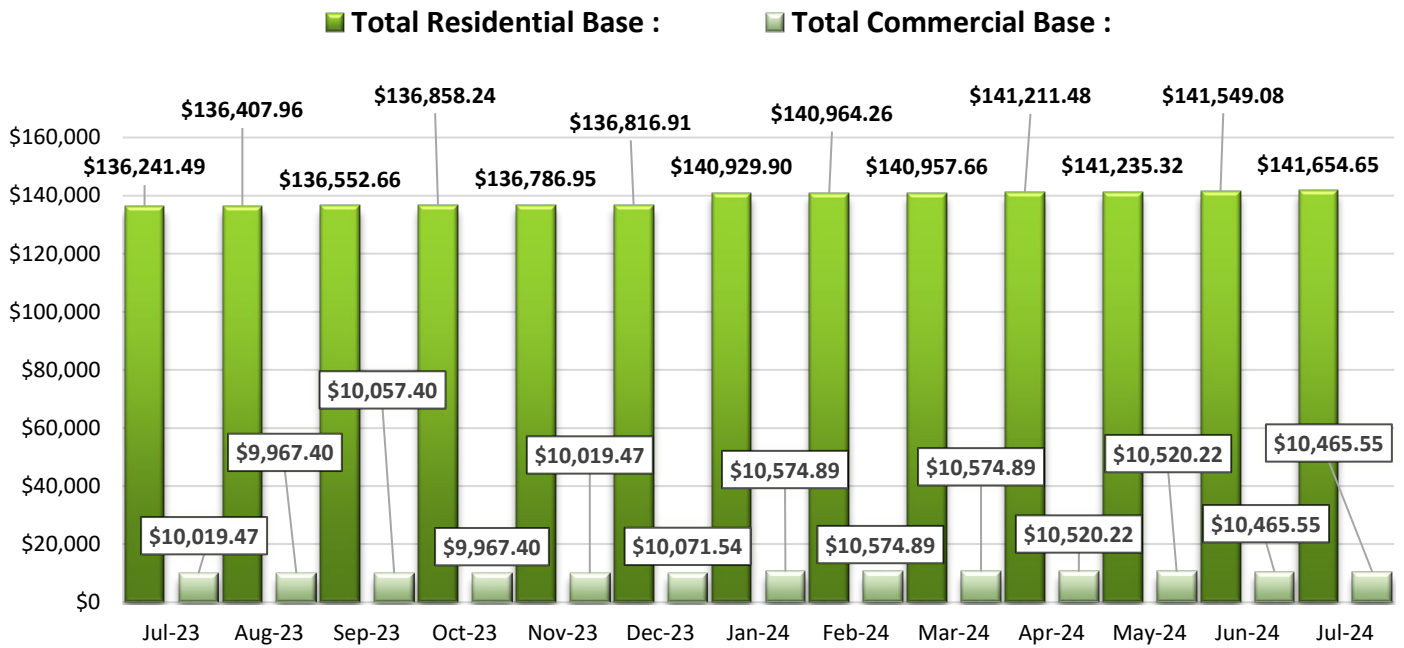
Water sent to Distribution MG / Total sold MG:



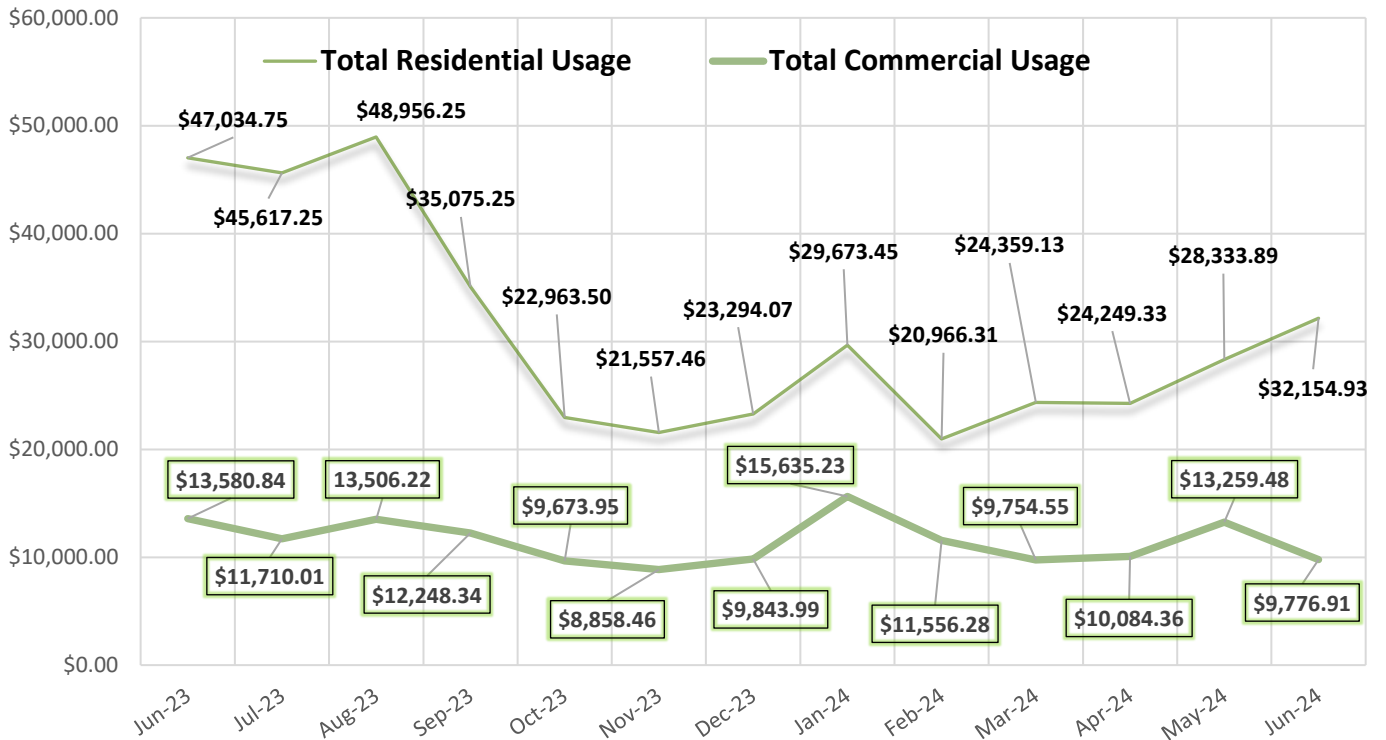
| Data Period | July 1 -31, 2024 | | Booster System Data | |
|-------------|------------------|--|---|-------------------|
| | | | North Wellfield Booster High GPM : | 702 <i>gpm</i> |
| | | | North Wellfield Booster Average GPM : | 262 <i>gpm</i> |
| | | | North Wellfield High psi: | 62 <i>psi</i> |
| | | | North Wellfield Average psi: | 56 <i>psi</i> |
| | | | Total MG Booster pumped to Distribution at NWF: | 14.2012 <i>MG</i> |
| | | | Total MG Booster pumped to Distribution at SWF: | 0 <i>MG</i> |
| | | | Total Booster Pumped to Distribution : | 14.2012 <i>MG</i> |
| | | | South Wellfield Booster High gpm: | 161 <i>gpm</i> |
| | | | South Wellfield Booster Average gpm: | 98 <i>gpm</i> |
| | | | South Wellfield Booster High psi: | 63 <i>psi</i> |
| | | | South Wellfield Booster Average psi: | 57 <i>psi</i> |
| | | | 245th Distribution Pressure Readings : | |
| | | | Highest | 64 <i>psi</i> |
| | | | Lowest | 52 <i>psi</i> |
| | | | Average | 14 <i>psi</i> |

| Data Period | | | Accounts Data | | |
|----------------------|-------|----|------------------------|--------------|----|
| July 1 -31, 2024 | | | Residential Base | \$141,654.65 | \$ |
| June 1 - 30, 2024 | | | Residential Usage | \$32,154.93 | \$ |
| July 1 -31, 2024 | | | Commercial Base | \$10,465.55 | \$ |
| June 1 - 30, 2024 | | | Commercial Usage | \$9,776.91 | \$ |
| Residential Accounts | 2,793 | ea | Fire Flow Rate | \$1,346.65 | \$ |
| Commercial Accounts | 98 | ea | Backflow Assembly Rate | \$798.65 | \$ |
| Fire Flow Accounts | 4 | ea | Other Fees & Charges | \$5,978.00 | \$ |
| Backflow Accounts | 49 | ea | Total: | \$202,175.34 | \$ |

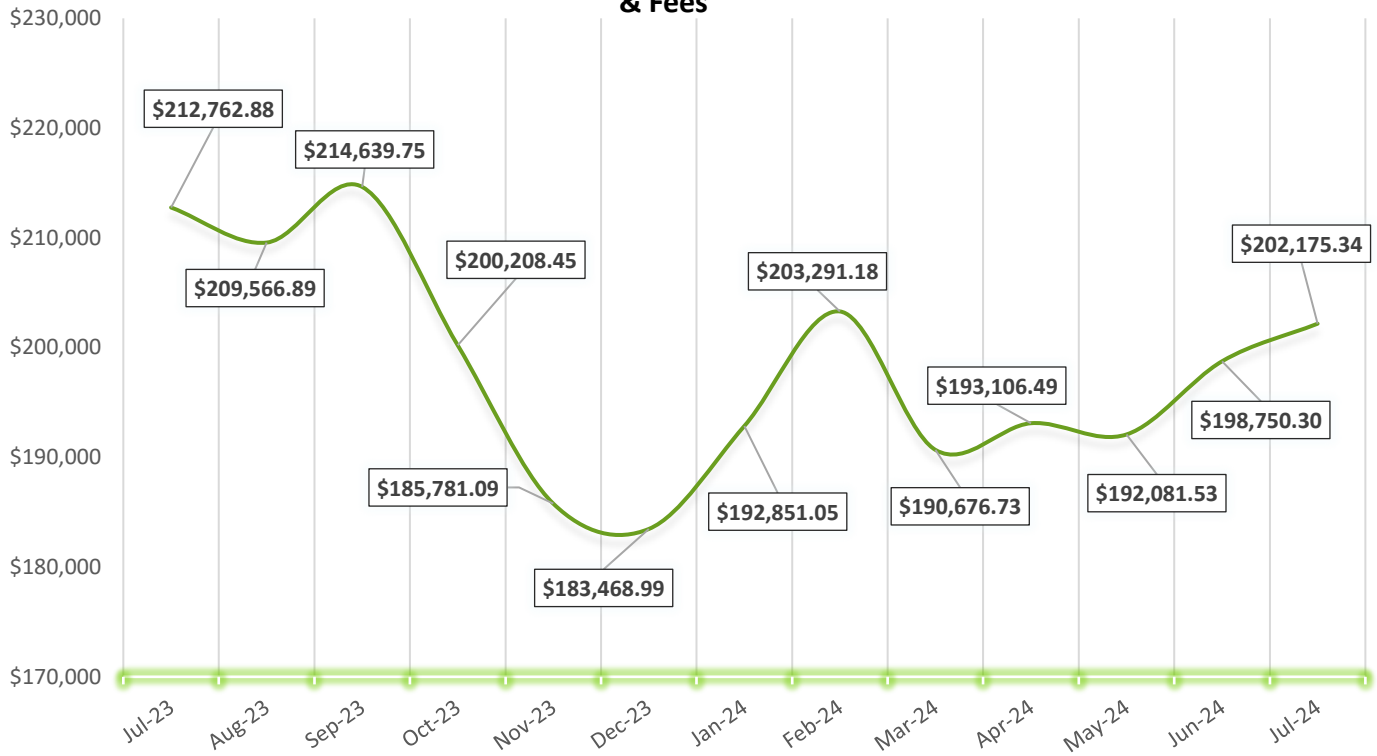
Residential & Commercial Base



Residential & Commercial Usage

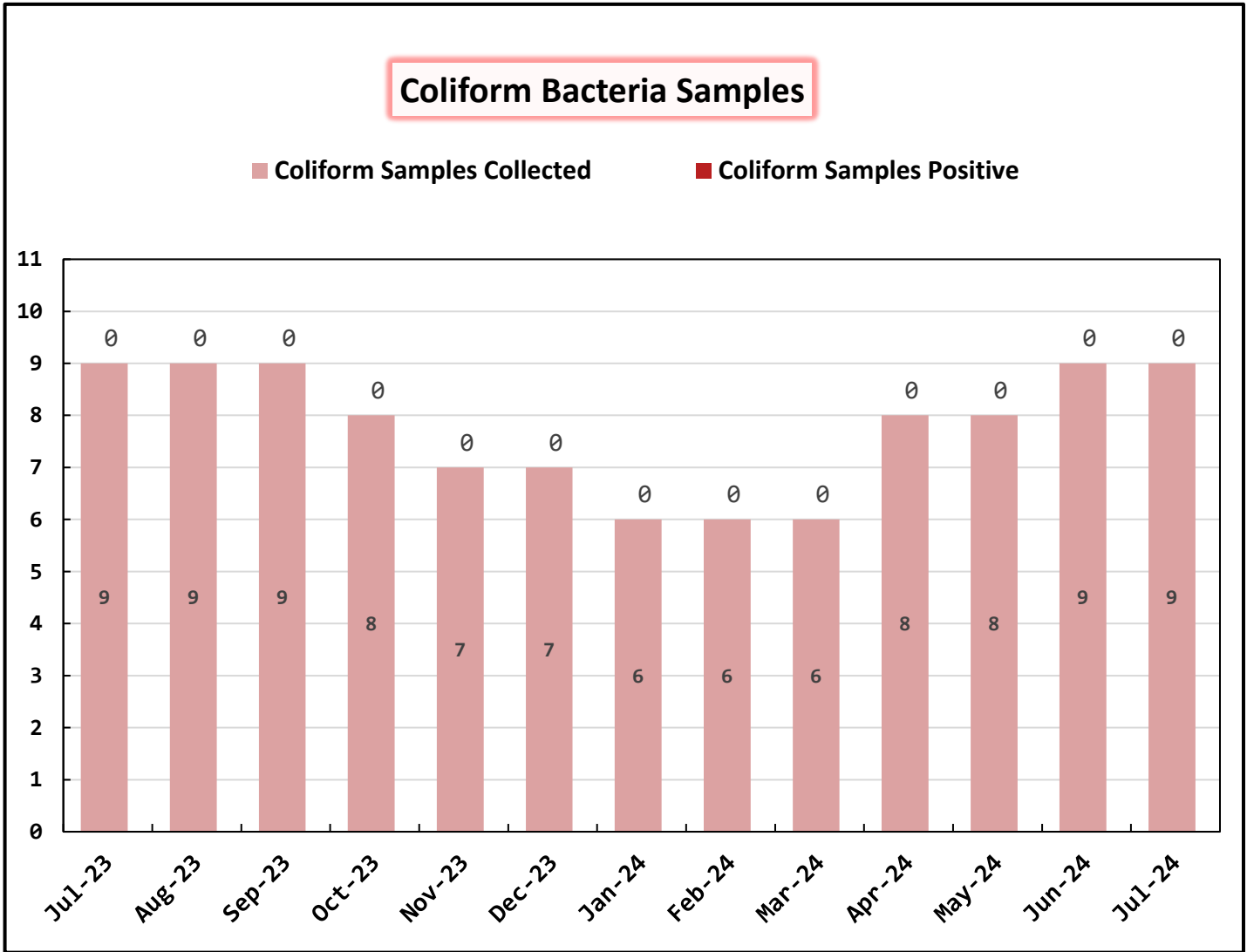


Backflow, Residential & Commercial Base & Usage, Fireflow, & Fees

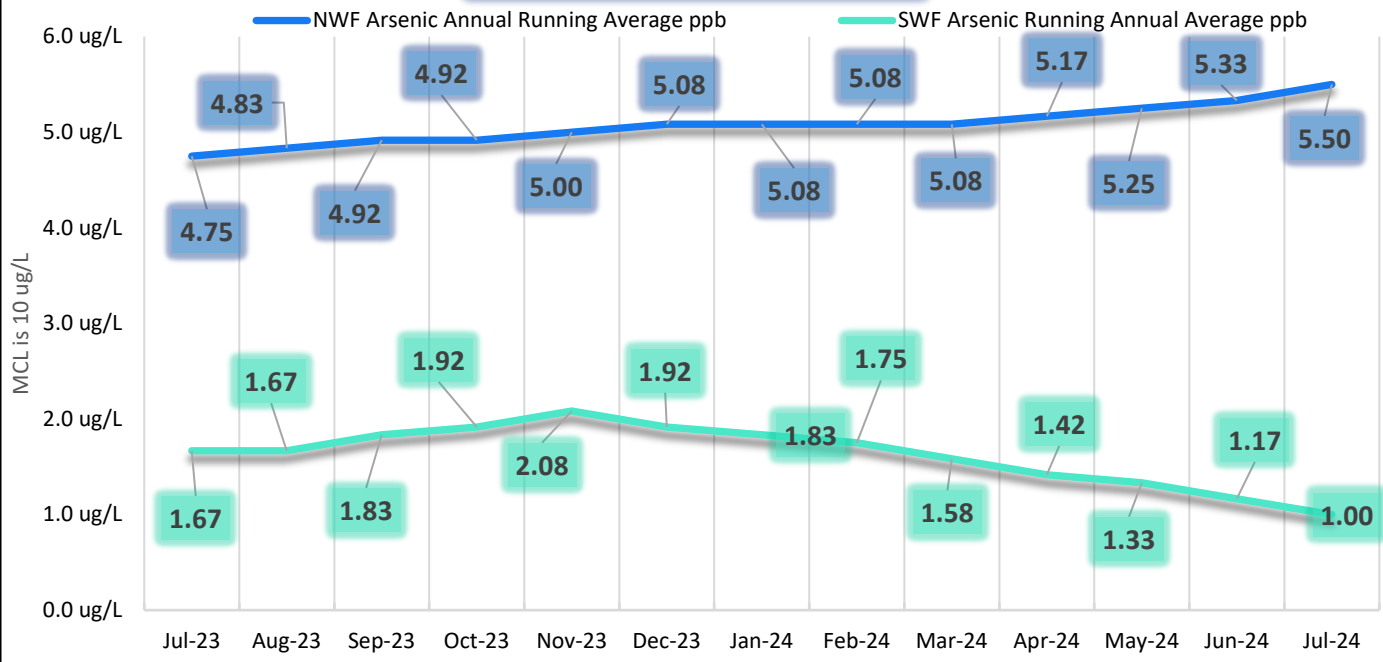


| Data Period | July 1 -31, 2024 | | Operations Data | |
|-------------|----------------------------------|----------------------|-----------------|-----------|
| | Past Due Accounts | 255 | | <i>ea</i> |
| | Properties with Liens | 18 | | <i>ea</i> |
| | Accounts Locked Off | 10 | | <i>ea</i> |
| | Water Main Locates | 31 | | <i>ea</i> |
| | Water Quality Complaints | 4 | | <i>ea</i> |
| | Customer Service Calls | 55 | | <i>ea</i> |
| | Customer Valves Installed | 1 | | <i>ea</i> |
| | New Services Installed | 3 | | <i>ea</i> |
| | NBWD Office & Grounds Water Use: | <u><u>0.0419</u></u> | | <i>MG</i> |

| Data Period | July 1 -31, 2024 | | Water Quality Data | |
|-------------|------------------------------------|------|--------------------|-------------|
| | Coliform Samples Collected | 9 | | <i>ea</i> |
| | Coliform Samples Absent | 9 | | <i>ea</i> |
| | Coliform Samples Positive | 0 | | <i>ea</i> |
| | Coliform Sample Positive E.coli | 0 | | <i>ea</i> |
| | NWF Arsenic | 7.00 | | <i>ug/L</i> |
| | SWF Arsenic | 0.00 | | <i>ug/L</i> |
| | NWF Arsenic Annual Running Average | 5.50 | | <i>ug/L</i> |
| | SWF Arsenic Running Annual Average | 1.00 | | <i>ug/L</i> |



Arsenic Monthly Annual Average micrograms per liter (ug/L)



Residential Connections: 3/4" & 1"



General Managers Report for Augusts 2024

- Pilot testing continues. Where reducing iron and manganese but were not seeing any consistency that we need. It tests ok after an hour of run time but after that it goes way off the reservation. New scheme we are testing is to install **Granular Activated Carbon** and let the raw water run through that then into a mix column where ferric chloride, 8105 polymer, & chlorine are mixed. Then into the filter media. Filter media's being tested are Katalox and Pyrolox.
- Water complaints in the Dell, Elm and Gile section of our distribution system continue to have dirty water issues.
What has been used for blow offs, isn't even close to doing the job. We are going to install a 4" blow off on the south end of Elm Place, 2" at the End of Isle Place, 2" at 245th and a 2" at the north end of Dell Place.
Isolation valves will be installed so we may use them in a multi-directional fashion to clean up this end of the system. We'll tie in dead end line at 247th between Dell Place and Elm Place. This work will start on the 20th- 23rd of August. All residents have been handed hangers and the message board is out there at the west end of 245th.
- Crew, went to a customer complaint, slash locate which ended up being a dandy between 245th Street and 242nd on V Lane. What was found is that the 2" mainline, between 245th and 242nd was reduced from 2" to ¾" then back up to 1-1/4". No wonder volume and pressure complaints from this area were common. Crew removed and replaced with 2" schedule 40 pvc. How many more are like this??
- The crew has been out digging up around meters. We must identify what type of pipe is used from the mainline to the meter and then identify what type of pipe is being run from the meter to the house. Then they are taking pictures as proof.
This is all part of an EPA requirement for every water purveyor in the United States. They are looking into this as part of the Lead and Copper rule.
One good thing that is coming out of this is that we're finding a lot of meter locations which are buried into the landscaping and forests of bamboo. We will go back and dig these up properly so we can get to the meter and the customer can get to their customer control valve.
- Property sale is complete. The fence contract has been signed and new meter base for the shop will be installed by Ford Electric. Ford will also repair the wildcat wiring in the panel inside the building and place a cover on it.

- North Water Plant operation July and August water plant has been running an average of 22.5 hrs. With an off time of 90 minutes. This is the weekends.

Drawdowns on Wells are as follows. Recharge times 90 minutes

Well 1- 36.5 ft. Well 1 with 90 minutes, recharge depth 15.5 ft.

Well 4 – 28.8 ft. Well 4 recharge depth 10 ft

Well 5 – 26.4 ft Well 5 recharge depth 8.9 ft

Well 6 – 34.3 ft Well 6 recharge depth 11.7 ft

Well 7R – 29.9 ft Well 7R recharge depth 12 ft

Well 8 – 63.2 ft Well 8 recharge depth 13.2 ft

Well pumps are given a max gpm they can pump.

Well 1 = 70, Well 4 = 90, Well 5 = 60, Well6 = 100, Well8 = 100, Well7R = 100 gallons per minute.

- The maximum we can pump in is 520 gpm, which gives us a max of 748,800 million gallons per day.

Plant treats 425,000 gallons before backwash.

Filtration rate is 4.5 gpm/sqft.

We can push it another 20 gallons which would give us a max output of 777,600 MGD, a difference of 30,000 gallons approximately.

We run normally at 386 gpm. All pumps come on based on reservoir level settings.

- Our Arsenic at the North is 7 ppb on the finish. With raw Arsenic at 11 ppb. We're removing around 36 % of Arsenic.

Even at these long runs our Iron is at .04 ppm & Manganese is at 0.027ppm on the finish.

Raw iron coming in is at 0.37ppm and Manganese is .097ppm.

Secondary's maximums are Iron 0.30 ppm, and Manganese at 0.050 ppm . Were operating well below the requirements.

July Work Orders

| | |
|----------------------------------|------------|
| Read/Leave On | 6 |
| Turn Off/Lock – Customer Request | 4 |
| Turn Off/Lock – Non-Payment | 10 |
| Interrogate Meter | 8 |
| Locates | 31 |
| Unlock/Turn On | 11 |
| Test Backflow | 8 |
| Miscellaneous | 0 |
| Replace Meter Box | 1 |
| Low Pressure | 5 |
| Check Customer Valves | 0 |
| Dirty Water Complaints | 4 |
| Replace Meter | 5 |
| Install New Service | 3 |
| Assist Customer | 2 |
| Check For Leak | 3 |
| Re-Read Meter | 0 |
| Install Customer Control Valve | 1 |
| Total | 102 |