

WATER

On July 10, District staff conducted routine sampling at established sample stations in the water system.

July 11 - routine samples' lab results from the July 10th had a presence of Total Coliforms and E. Coli. These are the tests we sample for on a monthly routine basis. The District contacted the State Drinking Water Regulator to inform them of the sample results. BWD staff was instructed to conduct repeat sampling. The repeat samples were at the sample station (Ash Street) where the July 10 results showed presence of Total Coliform and E. Coli. In addition to that sample station, samples were collected at nearby upstream and downstream residential outdoor hose bibs and the ground water well.

July 12 - the lab informed the District one of the repeat samples' lab results had a presence of Total Coliforms, one of the residential outdoor hose bibs. Staff contacted the State Drinking Water Regulator to inform them of the sample results. The State Regulatory agency issued a Boil Water Advisory. Also, the State Regulatory Agency notified KRCR of the BWA. District staff split the town into sections, walking the sections, leaving BWA Notices on front doors and conspicuous locations at houses.

In addition, field staff, with the help of Burney Fire District, flushed the water system in the area where the E. Coli was discovered. After flushing, staff sampled all 8 sample stations throughout the water system and the source water well.

July 13 - July 12 Samples were delivered to the lab. The State Drinking Water regulator toured the District's water facilities. In addition, another set of samples were collected and delivered to the lab.

July 14 - Sample results from July 12 were received and showed Total coliform was present at 2 of 8 sampled locations, neither of which were at the first or second location on Ash Street. Results showed total coliforms were present at Modoc Street sample station and Bartel Street sample station.

Sample results from July 13 were received and showed Total coliform and E. Coli were absent from all 8 sample station locations.

Sample results were discussed with the State regulator and the District Manager made the decision to chlorinate the water distribution system even though the most recent sample results were absent of Total Coliform and E. Coli.

District Engineers calculated the amount of sodium hypochlorite and staff dosed the storage reservoirs accordingly.

July 15 - Staff flushed the system to introduce the chlorinated water from the storage tanks to the distribution system.

Staff stopped chlorinating at the wells in the afternoon.

Staff checked chlorine residuals at the sample stations in the morning and evening. During chlorine residual sampling in the evening staff called Burney Fire District to start flushing chlorinated water from the system because the residual was more than anticipated at 3 sample stations. After flushing the chlorine residual was checked again.

July 17 to July 22 - Staff flushed chlorinated water from the distribution system in an effort to dechlorinate the water system. Staff made valve changes in the water distribution system to reduce chlorine residual in our system faster than flushing water through fire hydrants.

July 23 - Staff monitored the chlorine residual throughout the water distribution system and collected the first set of samples for laboratory testing.

July 24 - we monitored the chlorine residual throughout the water distribution system. We collected the second set of samples for laboratory testing. The samples from July 23 and 24 were delivered to the laboratory for testing.

July 25 - The lab results from the previous two days of sampling were received from the laboratory. Results for both days were absent of Total Coliform and E. Coli.

The State cancelled the Boil Water Advisory.

POOL

The Pool Opening was on June 11th, 2023. There was a great turnout, and it was dedicated in memory of Lola Harris. She was one of the Community volunteers who spent 17 years raising funds, securing land, ensuring sustainability, and gaining community support to have a Community Pool in Burney. She said, "we are doing this for our kids" as she was raising funds and gaining community support and after the opening in 1990, she said, "we did this for our grandkids". She was one of two volunteers who were awarded certificates of appreciation from the Burney Water District for their participation in the opening of the pool facility. After the opening of the pool, she continued to be the biggest advocate for the pool and spent 32 years.

The Burney Water District and Friends of the Pool dedicated the diving board to Lola "Spring into Action", which is what she did when she found out the pool at Pit 1 was closing and because of her we are able to enjoy

our Community Pool. She spent a lifetime of dedication to the community of Burney and we're grateful for the years she spent at the Raymond Berry Pool.

The last day of the Pool season will be September 1, 2023.

SEWER

WWTP--Major Tasks Worked On:

1. Continued installation of fixed mechanical aerators.
2. Blower building equipment and pads, CMU walls, and roof have been installed.
3. Influent flow meter has been installed.
4. Clarifier launder trough was poured.
5. Clarifier leakage testing was performed and passed.
6. Installation of clarifier mechanical internals has begun.
7. Piping and pump installation continues in the sludge pumping building.

Collections--Major Tasks Worked On:

1. RTA completed the Gunsmith Way sewer improvements.
2. RTA completed Open-Cut Spot Repair 1 on Main Street.
3. RTA completed an additional open-cut spot repair that was unable to be completed by an internal repair method.
4. The asphalt paving subcontractor, Eagle Paving & Grading, installed permanent pavement at various work sites previously constructed. These included the Sapphire Road sewer replacement site, Sapphire Road water main relocation site, Open-Cut Spot Repairs 1, 2, and 5, and four locations where rod holes were removed and replaced to facilitate CIPP lining installations.
5. RTA completed installation of concrete collars around new Manhole 5A on Modoc Street, new Rod Hole 5B on Gunsmith Way, new cleanouts installed as part of Open-Cut Spot Repairs 2 and 5, and the four new rod holes listed above as well as new Rod Hole 51E on Timber Drive. RTA also installed a concrete collar around the valve box installed to facilitate the Sapphire Road water

main relocation effort and replaced a section of concrete driveway that was damaged during construction.

PARKS

Furry Friends Playground Update

Ray Excavating and Grading, Inc. was awarded the Bid for construction of the Dog Park. The notice to Proceed was signed and construction will begin in either August or September 2023.

Civic Park Awarded Grant Funding

The Burney Water District was awarded \$850,000.00 from State of California - Natural Resources Agency Department of Parks and Recreation through the 2018 Parks Bond Act, Statewide Park Development and Community Revitalization.

The Grant Scope includes:

Recreation Features:

- Construct new Splash Pad.
- Construct new playground areas with lighting.
- Construct new walking loop with lighting.

Major Support Amenity:

- Construct a new parking area with lighting.
- Construct a new fence around entire park.



Conceptual Site Plan for the Civic Park

EXPLORERS CORNER

Dicalite Minerals LLC is a diatomaceous earth (DE) mining and processing company located near Burney CA, mining diatomite which was formed in the Pit River Diatomite Deposit. From this location we ship industrial filteraids and fillers all over the world. Currently, Dicalite directly employs ~70 people.

Mining first occurred on this property in the 1920's. The Shasta Silica Co made polishing materials until it was closed during the Great Depression at this site. Dicalite's parent company purchased the properties in the 1950's. The company then performed geologic and environmental explorations in the 1970's and constructed the processing plant in 1985. This location has been active since.

There are thousands of uses for diatomaceous earth (DE). Two major categories include industrial filtration which is making cloudy liquids clear, and as white fillers.

- Filtration uses include water, fruit juices, beer, wine, corn syrups, vegetable oils, petroleum, pharmaceuticals, sugar, latex, biofuels, etc.
- White Fillers produced at Dicalite include white fillers from this location which are used to make paper and plastic white, cosmetic makeup, dental compounds, plastic anti-blocking, natural insecticides, etc.

Geology of the Pit River diatomite deposit:

Diatomite is a lightweight sedimentary rock composed of the siliceous remains of diatoms – a variety of algae. Diatomite is the source rock/ore of diatomaceous earth. Diatomite ranges in color from white to light gray with yellowish, green, brown, and black varieties occurring. It is the white rock you see between Hat Creek and Pit River bridges on Hwy 299.

The Pit River diatomite deposit appears to be over 500 feet thick. The USGS has estimated the depositional rate at 1 inch per 125 years for this deposit. The ancient lake covered over 120 square miles between 1 to 3 million years ago. There have been two different articles written in California Geology about the Pit River Diatomite deposit.

There are basically two diatom species in this deposit, a disc shaped diatom called *Stephanodiscus* and a tubular shaped diatom called *Melrosira*. These are varieties of freshwater diatoms

Information Provided by Doug Witherspoon



NEWSLETTER

Quarter 2 2023

DRAFT

2022 Hudson Street
Burney, CA 96013
Phone: (530) 335-3582
Fax: (530) 335-2189

Emergency after Hours: (530) 238-7774

Burney Water District Mission

We are committed to providing a safe and reliable water supply, environmentally safe disposal of wastewater, and responsible governance of our pools and parks.