

MAINTENANCE DEPARTMENT ACTIVITIES REPORT JANUARY 16, 2021 – FEBRUARY 14, 2021

Emergency

On February 7, 2021 (Super Bowl Sunday afternoon), the Maintenance Department responded to a PG&E emergency Underground Service Alert (USA 811) ticket, due to a downed power pole (vehicle accident). NID marked its facilities to allow safe excavation by PG&E.

General

Various Maintenance employees completed the required “Anti-Harassment Training” required by the state. The department also held a Quarterly Safety Meeting (located outside with appropriate social distancing) to review various general topics and a specific “Confined Space and Air Monitor Training” refresher, including proper equipment use and regulations.

Canal

Since December 1, the Canal Maintenance Crew has been dedicating most of its time to seasonal hand and machine cleaning of canals, as well as installing new raw water delivery boxes. The “Canal Cleaning Season” starts in December and carries through to mid-March, during which the crew has cleaned a cumulative total of 156 miles of canal. The crew also patrolled canals during the late January and early February storm events, removing downed trees from the Farm, Forest Springs, Rough & Ready, Spenceville and Woodpecker canals, and repairing damaged berm on the Rough & Ready Canal. Equipment Operators plowed snow on the access road to the Cascade upper bench inlet at Deer Creek and removed snow from the DS (Deer Creek South) Siphon Lane pump station. The crew also plowed snow for the Hydroelectric Department to create access to the power station and across the dam at Scotts Flat. The crew is also preparing to install 80 linear feet of 24-inch Advanced Drainage Systems (ADS) pipe to encase a portion of the Sanford Struckman Canal to ensure full water delivery to downstream customers.

Construction

The Construction Crew performed work at various treatment plant sites as follows: (1) old/decommissioned Cascade Shores T.P. – Upgraded the propane tank from 500 to 1,000 gallons; (2) Loma Rica T.P. – Replaced paddles in the “floc basin,” as well as latches on basin doors and the basin drain; (3) North Auburn T.P. – Installed a 12-inch control valve on the “back wash” supply line, cleaned out out sump basin and worked on “foot valve” for the sump pump for the the back wash basin and clarifier tank; (4) Lake Wildwood T.P. – Cleaned out sump pump for the back wash basin; and (5) E. George T.P. – Replaced “plug valve” for back wash basin. The crew also performed work at various tank sites as follows: (1) Timber Ridge – Poured a concrete restraining wall, and stripped and addressed erosion along upper the hillside; and (2) Shale Ridge – Replaced the sensing line. The crew also replaced 5 air release valves (ARVs): 2 within the Loma Rica System, 2 within the Lake Wildwood System and 1 within the E. George System, and 1 service line within the Lake of the Pines System. The crew plowed snow at the Grass Valley main yard and at various District sites in/near Cascade Shores and the E. George T.P. The crew also assisted the Placer Crew with Class A commercial drivers to haul materials from the Combie Phase I Canal encasement to the Placer/Gold Hill yard.

Facilities

The Facilities Maintenance Crew assisted the Construction Crew with all of the work outlined above. It also brushed and chipped unwanted vegetation at the Lake Wildwood T.P. and other locations throughout the Lake Wildwood System.

Fleet

The Mechanic Shop continues to perform a variety of vehicle and equipment maintenance work for the District, including routine preventative maintenance (brakes, clutches, hydraulics, electrical, tires, etc.), retrofitting new vehicles, and other mechanical projects. The crew performed required Biennial Inspection of Terminals (BIT) on several District vehicles. The crew also performed maintenance on the mounted pump engines at the DS (Deer Creek South) Siphon Lane pump station to address loose bolts at engine frame mounting locations and leaks in the cooling system. The crew also made several trips to the Lake of the Pines T.P. to continue assessing the generator for needed service work and coordination of that work.

Placer

Since December 1, the Placer Crew has been dedicating most of its time to seasonal hand and machine cleaning of canals, as well as installing new raw water delivery boxes. As noted above, the "Canal Cleaning Season" starts in December and carries through to mid-March, during which the crew has cleaned a cumulative total of 97 miles of canal. The crew also patrolled canals during the late January and early February storm events. The crew assisted the department's Treated Water Section with replacing several residential meters and 2 commercial Double Check Valves (DCVs) within the North Auburn System.

Service

The Service Crew installed 1 new and replaced 7 existing service lines, upgraded meter "yoke" connectors for 2 new private fire services (PFSs), replaced 2 fire hydrants, repaired 2 main line leaks and 1 transmission main line leak, and replaced an ARV and blow-off valve (BOV) within the Lake of the Pines System. The crew also assisted the Canal Maintenance Crew with "patrolling" canals during the late January and early February storm events.

South Yuba

The South Yuba Canal Crew primarily assisted the Canal Maintenance Crew with storm event issues and general winter canal maintenance efforts. They patrolled canals and removed trees from various locations. The crew also worked with PG&E in patrolling the South Yuba Canal system, following the repairs made to the Lennon Flume as a result of a downed tree during a late January storm/wind event. The crew also assisted PG&E with the reintroduction of water into the South Yuba Canal system, learning the associated practices of such a process.

Vegetation

The Vegetation Control Crew assisted the Canal Maintenance Crew with "patrolling" canals during the late January and early February storm events, removing fallen trees from canals and access roads. The crew also completed the required "state labeling" on all wooden boxes at the various copper treatment station locations along canals. The crew completed all repairs on and calibrations of the District's terrestrial spray equipment. The crew also sprayed 50 miles of canals with "pre-emergent herbicides" in conjunction with the seasonal canal cleaning schedule. The Assistant Maintenance Superintendent-Vegetation Control prepared and submitted the annual National Pollution Discharge Elimination System (NPDES) report to the state, and continues to

work with property owners on “No Spray Agreements” for the 2021 irrigation season. The crew also assisted the Placer Crew with a Class A commercial driver to haul materials from the Combie Phase I Canal encasement to the Placer/Gold Hill yard.

Welding

From a raw water perspective, the Welders fabricated 18 raw water delivery boxes for installation/replacement on various canals. They fabricated a 10-service manifold for the upgraded Edgewood Canal delivery vault. They also fabricated channels, handrails and rebar mats for new or upgraded concrete structures on various canals. From a treated water perspective, the Welders fabricated electrical box covers for the Norlene Way pump station, lock boxes for the Lake Wildwood T.P., a stainless steel screen for the North Auburn T.P. and a support bracket for the “sample station” at Scotts Flat Reservoir. They also fabricated and installed grates at the “pop-off” vault on Lime Kiln Road and fabricated a “heavy” lid for the meter box behind Grocery Outlet on Sutton Way. They also repaired the aluminum tank vent covers for a storage tank and repaired the “mud valve” at the Loma Rica T.P. The Welders also assisted the Mechanic Shop with latch repairs on a low-bed trailer and a smaller equipment trailer, and repaired the extensions on a forklift.

**MAINTENANCE DEPARTMENT
ACTIVITIES SUMMARY OF SELECT "ROUTINE" WORK
01/16/2021 – 02/14/2021**

CATEGORY / TASK DESCRIPTION	TOTAL #
TREATED WATER	
"EMERGENCY <u>CALL OUTS</u> " – HYDRANTS / SERVICE LINES / WATER MAINS	4
HYDRANTS – NEW / REPAIRED / REPLACED	1
METERS – NEW / REMOVED / REPLACED <i>(does not include Meter Replacement Program counts)</i>	12
METERS / GATE VALVES – REPAIRED	2
SERVICE LINES – NEW / REPAIRED / REPLACED	4
VALVES / DEVICES – ARV, BOV, DCV, PRV, RP, ETC.	7
WATER MAINS – REPAIRED / REPLACED	1
RAW WATER	
CANALS / BERMS – LEAKS AND REPAIRS	5
CANALS – CLEANED	Ongoing
CULVERTS – NEW / REPLACED / REMOVED	0
RAW WATER BOXES – NEW / MOVED / REMOVED / REPLACED	15
TREES – REMOVED	3
ACCESS ROADS – MAINTAINED	0
FLEET	
TRUCKS / VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	59
TRUCKS / VEHICLES – DAMAGE REPAIRS/LARGE SCALE REPAIRS	5
TRUCKS / VEHICLES – RETROFITS	0
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	21
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	0