

# Agenda Item

DATE: November 15, 2023  
TO: Michael Minkler, General Manager  
FROM: Damon Wyckoff, Director of Operations  
RE: Report on the October 2023 Operations Department

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## **RECOMMENDED ACTION:**

Report on the Operations Departments Report for Districts 1 through 5.

## **SUMMARY:**

Attached is the monthly Operations Department Report for October 2023. The report will review the operational status and work completed by departmental administration and each of the five Districts. The report will cover the following:

- Administration
- Water treatment plants
- Wastewater treatment plants
- Distribution
- Collections
- Construction
- Electrical
- Mechanical

Staff will be present to report to the Board of Directors and will be available for questions.

## **FINANCIAL CONSIDERATIONS:**

None.

*Attachment: Octoberr 2023 Operations Department Reports for Districts 1 through 5*

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# Operations Departments Report

October 1<sup>st</sup> through October 31<sup>st</sup>, 2023

## **Director of Operations:**

1. On-going coordination and management of multiple District Operations projects and work efforts.
2. Coordinated Mobile MMS Training for District Staff.
3. Participated in Workshop #2 for the Disinfection Byproducts Root Cause Analysis.
4. Site visits to multiple in-construction District projects.
5. Continued to work with District Staff and the consultant to ensure the effective resolution of punch list items for the AMI Project.
6. Conducted a Tour with TUD Staff of Glass-fused Steel Tanks in Ebbetts Pass.
7. Participated in multiple onsite project progress meetings.
8. On-going FEMA coordination related to DR-4683 and DR-4699.
9. Participated in a Tour of the West Point WWTP.
10. Participated in a tour of the Jenny Lind WTP.
11. Participated in a kickoff meeting to develop a Request for Design Proposals for the La Contenta WWTP.
12. On-going CARB related work with MCWRA and ACWA.
13. Continued participation in meetings with Calaveras County Public Works focused on road conditions and project coordination in the Rancho Calaveras Service Area.

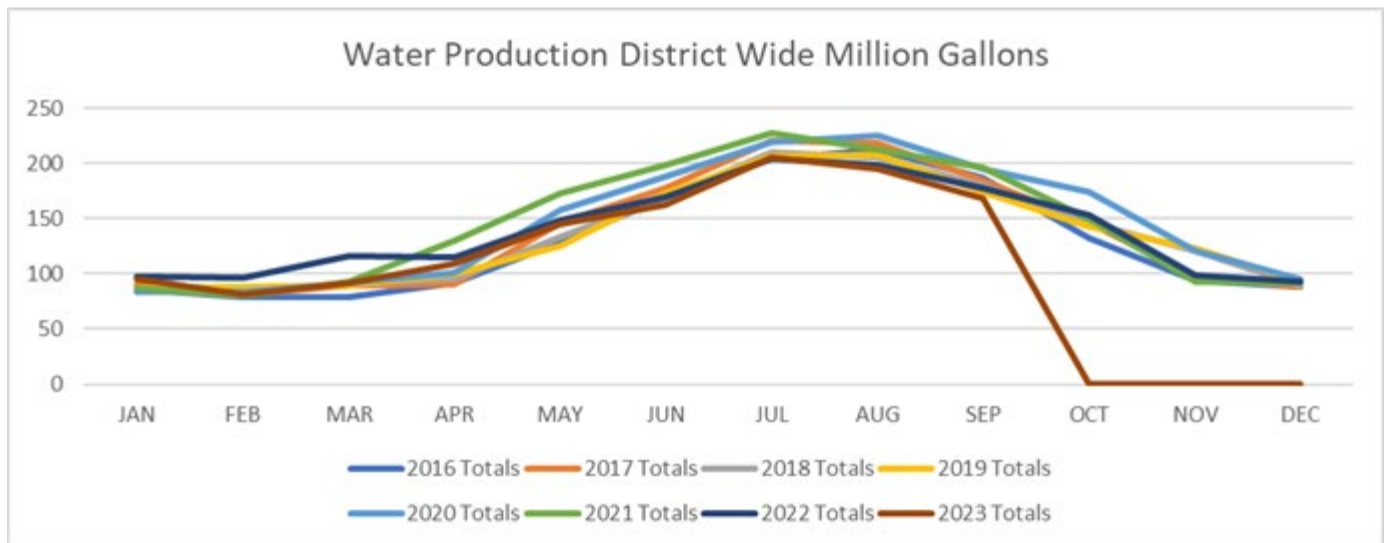
## **Administrative Technician:**

1. Maintained Field Calendar
2. Received/Tracked All USA North Line 811 Locates – Handled Associated Calls – 696 Received District Wide
3. Facilitated with Employee Reimbursements
4. Facilitated with Employee Certification – Applications, Exams, Renewals, Trainings, Resources
5. Field Training Course Ordering/Registrations/Travel Arrangements
6. Process Operations Purchase Order Batches
7. On Call Reminders, Transfers, Logs
8. Electronic Lab Report Filing
9. Organizing and Archiving Operations Department Documents
10. Safety Tailgate Meetings: Create, Track, & Archive
11. Attended Various Meetings & Webinars
12. Permit Renewals
13. Continued CERS Program Work Efforts
14. 2023 Backflow Program Work Efforts
15. Cross Connection Survey Work Efforts
16. On Call Document Updates
17. Miscellaneous Administrative Functions

## **Plant Operations Manager:**

1. Completed the review and acceptance of the monthly and quarterly State Water Reports for all the Districts Water Systems and submitted them to the State.

2. Completed the monthly and quarterly Wastewater Reports for all the Districts Wastewater Systems and submitted them to the State.
3. Continued to work very closely with the new operator in West Point to ensure that all system needs are met.
4. On-going work associated with PO's and ordering supplies for different District facilities and projects.
5. Continued work efforts on annual backflow testing
6. Ongoing work efforts associated with the Ebbetts Pass HAA5 violation for purposes of public notification and data collection.
7. Began work to facilitate the rehabilitation of 3 filters at the La Contenta Wastewater Treatment plant.
8. On-going work with our lab on UCMR5 sampling.
9. Participated in a tour of Jenny Lind Water Treatment Plant with members of the public.
10. Completed backflow site visits with the Operations Admin Tech.
11. Spent time with Treatment Plant Operators doing plant checks at Southworth, Wallace Wastewater, and Wallace Water.
12. Worked to secure 2 new ozone generators for Copper Cove Water Plant.
13. Completed the State mandated SAFER Reporting with the External Affairs Manager.
14. Ongoing work efforts related to the District's Cross Connection Control Surveys with the Operations Admin.
15. Worked to renew the District's EPA IDs of all sites associated with CERS (California Environmental Reporting System).
16. Attended the kickoff construction meeting for Copper Cove water system tank project.
17. Working with Peterson Brustad Inc. on West Point water plant filter addition.
18. Working on the Operations plan for revision for West Point Water Treatment Plant.
19. On-going work efforts with the Districts CERS annual reporting.
20. Working with the Sheriff's department on getting our new radio tower site up and going.
21. Below is the water production for the month of September 2023.



**Construction and Maintenance Manager:**

1. Staff meetings.
2. Board meetings.
3. AMI weekly project update meetings.
4. Copper Lift Station and force main relocation project weekly meetings.
5. West Point/Wilseyville Consolidation on-site project meeting.
6. Attended monthly CWEA Northern/Central Committee meeting.
7. Attended and assisted with the coordination of Mobile MMS training.
8. -Attended Engineering and Ops coordination meeting.
9. -Participated in a collaboration meeting with County Public Works and CCWD staff.
10. -Data discussion regarding Sentryx with CCWD staff.
11. -Joined in on the US Army Corp of Engineers reservoir outlook for 2024 presentation.

12. -Attended Copper Cove phase 1 & 2 tank project pre-con meeting.
13. Reviewed Mueller punch list items from AMI project and responded with status.
14. -Coordination with Collections Senior to pump and clean Vallecito camp septic tanks. (16 loads).
15. -Open Service Orders for Jenny Lind Distribution for items on Keystone punch list.
16. -Participated in tour and presentation to public at the Jenny Lind Water Treatment Plant.
17. -Attended monthly CWEA Northern/Central Committee meeting.
18. -Coordination with JL Distribution Senior regarding failed PRV on Friedman and over pressurizing.
19. -Site visit to Copper Town Square to meet with CV developers to discuss sewer options.
20. -Updated equipment rental prices on cost to serve sheets.
21. -Meeting with CCWD staff to discuss A to B transmission main project and options on paving and service line replacements.
22. -Pre-Con meeting at LS 15 & 18 in Copper with CCWD staff, PG&E, Mazingo and Fuzion.
23. -Site visit to corner of Hwy 26 and Silver Rapids to check on possible leak (on customer side).
24. -Worked with Construction crew driving 10-wheeler on the tule removal project at White Pines.
25. -Tours with staff from TUD to look at glass lined bolt up steel tanks at District sites.
26. -Updated documents regarding on-call procedures and put together binders for training with newer staff.
27. -Multiple site visits to White Pines Lake tule removal project.
28. -Multiple phone calls to customers to discuss issues/concerns.

### **Purchasing Agent:**

1. Worked on inventory of new warehouse.
2. Completed invoicing for purchased material.
3. Met with various reps and received quotes for various items for purchase.
4. Ordered parts, tools, materials, and equipment for all departments.
5. Coordinated servicing of District Vehicles for Field Staff
6. Reconciled Credit Cards for Field Staff
7. worked with new facilities maintenance worker on work order completion.
8. worked on flooring and painting of the rest of the new warehouse.
9. Got quotes and orders for pumps for LS 21 and 22, LS 1, in Copper and LS 3 in Arnold. Ordered back up actuator and valves for AWWTP. Motors CCWTP, JL UV.
10. Ordered valves and hydrants for district.
11. Delivered supplies, materials, and parts.
12. Coordinated the maintenance of pumps in Copper for October
13. Worked on recall orders for lease vehicles.
14. New employee evaluation

### **Water Treatment Plants:**

#### **Copper Cove Water Treatment Plant:**

1. Ongoing work on new SCADA app for the Copper Area. Operators continue to troubleshoot the app. The Collections System still needs to be tested and verified for proper operation as well as the recent repair list checked off.
2. Multiple power outages causing many callouts and Ozone system shutdowns. UPS failed for ozone PLC. This caused a com failure to the ozone system.
3. Walk through preconstruction for Clearwell and B-Tanks project.

#### **Hunter's (Ebbett's Pass) Water Treatment Plant:**

1. Operations as usual
2. Set up and tested new ACH chemical feed system at plant.
3. Gabriel set up sheets on the EP monthly report for monitoring results during ACH trial.
4. Set up special sampling schedule for ACH trails.
5. ACH jar testing was conducted in preparation for trials.
6. A new UVT/UVA spectrometer was ordered and in use to help with treatment optimization.
7. ERS inspected media leak on filter #1 clarifier.
8. Contacted Alderson Fencing regarding repairs needed at several facilities.
9. Ordered and installed markers to help locate sample sites during periods with heavy snow.

10. Worked with construction crew to maintain a lower lake level during the Oct. tule abatement project.
11. Monthly dam inspection conducted.
12. New electronics installed in the new Larkspur Tank.

**Jenny Lind Water Treatment Plant:**

1. Operations as usual

**Sheep Ranch Water Treatment Plant:**

1. Operations as usual
2. Break in/Vandalism at the Raw Water Pumping Station – All locks and lock tabs cut. No theft or other damage found.

**Wallace Lake Estates Well System:**

1. Operations as usual
2. Filters rehabilitated. Water quality has significantly improved.

**West Point Water Treatment Plant:**

1. Operations as Usual
2. On-going construction for the installation of the second filter – piping installation continues.

**Wastewater Treatment Plants:**

**Arnold Wastewater Treatment Plant:**

1. Operations as usual
2. Mechanics fabricated an addition to the headworks to keep rags out of the system. Installed
3. Cal FIRE removed weeds from filter drying beds and bucked up leftover tree rounds – site cleanup.
4. Ordered Auma WAS actuator and Keystone actuator to replace an old pneumatic backwash ram.

**Copper Cove Wastewater Treatment Plant:**

1. Pond 6 is dropping with the RCP in operation. Now blending Pond 4 and Pond 6 to maintain operations. Pump in Pond 6 installed to continue emptying Pond 6 to lowest level possible.
2. Solids in Ponds 1, 2 and 4. Are causing operational issues, and this needs to be addressed as soon as possible. (I am aware that Pat B and Jesse have been in contact and working on a test for the solids removal with CCWD staff and equipment. This would be a huge cost savings.

**Copper Cove Wastewater Reclamation Plant:**

1. Multiple power outages causing many callouts and RCP system shutdowns and startups.
2. The RCP continues to operate at a reduced flow. Maintaining influent flows to Wastewater plant.

**Country House Wastewater Facility:**

1. Operations as usual

**Forest Meadows Wastewater Treatment Plant:**

1. Operations as usual
2. Received 20K gallons of septage from the Vallecito Correctional Facility/Fire Camp.
3. Effluent flow meter failed; electricians repaired it.
4. New UV installation continues, Electrical component installations are almost complete.

**Indian Rock Vineyards Wastewater Facility:**

1. Operations as usual

**La Contenta Wastewater Treatment Plant:**

1. Operations as usual

**Mountain Retreat / Sequoia Woods Wastewater Facility:**

1. Operations as usual

**Six Mile Wastewater Collection System:**

1. Monthly reads taken and report submitted to the City of Angels Camp

**Southworth Wastewater Treatment Plant:**

1. Operations as usual

**Vallecito / Douglas Flat Wastewater Treatment Plant:**

1. Operations as usual
2. Electricians have to complete the wiring of the trash rack as part of the Vallecito Grit Removal Project.

**West Point Wastewater Treatment Plant:**

1. Operations as usual

**Wilseyville Wastewater Facility:**

1. Operations as usual

**Distribution:**

**Copperopolis Distribution System:**

**SERVICE LINE WORK**

1. 500 Pueblo Trail
2. 565 Antelope
3. 2423 Quail Hill
4. 2868 Salmon
5. 3030 Cheyenne
6. 202 Quail Meadow Ct
7. 1187 Sawmill
8. 277 Sunrise
9. 185 Oakhurst
10. 475 Sunrise
11. 449 Poker Flat

**MAIN LINE WORK**

None during this period

**Additional Work**

1. 6 Valves Turned
2. Service Requests
3. Flushed 26,250 gallons.
4. USA's
5. Assisted the Electrical Crew in Ebbetts Pass to dig a trench for conduit at a Blue Lakes Springs MWC tank site.

**Ebbett's Pass Distribution System:**

**SERVICE LINE WORK**

**Big Trees Village**

1. NAVAJO DR. 4 separate 1" Blue poly
2. CHEYENNE WAY 3 separate 1" Blue poly
3. KAROCK RD. 1" Blue poly

**Arnold**

4. PINE DR.  $\frac{3}{4}$ " Blue poly
5. CHURCH OF THE PINES 1" Poly
6. MEADOWVIEW RD. 1" Blue poly
7. ANTLER DR. 2 separate 1" Blue poly
8. LAKEMONT DR. 1" Brass
9. ROCKY RIDGE CT. 1" poly

**Avery/ Hathaway Pines**

10. CANYONVIEW DR. 1" Copper

11. RED TAIL HAWK DR. 1 ½" Meter flange

**MAIN LINE WORK**

1. None during this time

**Additional Work**

1. 522 USA Tickets
2. 18 Service Requests
3. 2 Hydrant Repairs
4. Flushed 12,000 Gallons Blagen Rd. Arnold
5. Flushed 3,000 Gallons Dardanella Vista B.T.V.
6. Ongoing multiple days weekly locating lines and having field meets associated with PG&E Underground Project
7. Assist Construction Crew with White Pines Lake restoration project.
8. Attended Root Cause Analysis workshop for Ebbetts Pass DBP issues.
9. Assisted with finishing touches on Tank Replacement Projects.
10. Replaced Can-a-Flex tube on Vac Truck and greased all fittings.
11. Cleared vegetation and cleaned culvert near Lift Station #2 and White Pines Lake that is notorious for flooding of roadway.
12. Ongoing organizing and cleaning of White Pines Barn and yard.
13. Ongoing routine infrastructure improvements and maintenance
14. Routine valve locating and exercising.

**Jenny Lind Distribution System:**

**SERVICE LINE WORK**

1. 7095 Jenny Lind Rd
2. 7374 Cassidy
3. 8014 Kirby
4. 8081 Kirby
5. 2910 Silver Rapids
6. 6251 Hwy 26
7. 5757 Thornicroft
8. 8756 Sparrowk
9. 6817 Conner
10. 3768 Berkesey
11. 4891 Hwy 26
12. 10760 Opal
13. 6755 Stabulis
14. 6455 Cane
15. 8775 Crosby Ct – Flare
16. 6346 Cane
17. 7138 Da Lee
18. 3999 Hartvickson
19. 6544 Cane
20. 2295 Partridge
21. 3490 Dunn
22. 3732 Dunn
23. 3950 Dunn
24. 4106 Dunn
25. 7333 Da Lee
26. 24 Pelican Place
27. 6013 Garner
28. 8566 Watts
29. 4839 Driver
30. 6199 Hwy 26
31. 7071 Jenny Lind Rd
32. 7464 Da Lee
33. 4231 Bartelink
34. 8487 Hautly
35. 8579 Hautly

36. 4806 Baldwin
37. 6593 Baldwin
38. 6850 Baldwin – 2 leaks on this line when we dug it up.
39. 6869 Baldwin – 3 leaks on this line when we dug it up.
40. 7131 Baldwin – Flare
41. 7192 Baldwin
42. 7357 Baldwin
43. 7438 Baldwin
44. 7573 Baldwin
45. 7796 Baldwin
46. 7968 Baldwin
47. Emereff PRV leak
48. Friedman PRV leak
49. Repaired leak on 1.5" PVC water line at La Contenta WWTP

**MAIN LINE WORK**

1. None during this time

**ADDITIONAL WORK**

1. Vehicle Inspections
2. Month end reads for fill stations, hydrant meters, raw water and lancha plana.
3. Lower end flushing for water quality.
4. Tank and pump station checks.
5. Raised meter box on Peachtree Ct for PG&E job.
6. Got tires replaced on jackhammer compressor trailer.
7. Got GapVax serviced and hydraulic leak repaired.
8. Repaired pilot system tubing on Friedman in line PRV.
9. Repaired blown out brass nipple on pilot system of the fire check PRV on Emereff.
10. Set up compaction testing and final paving at multiple leak repair sites.
11. Work orders for pressure problems, leak checks, meter installations and water quality issues etc.
12. Line locates.
13. Assisted utility crew with a complete line replacement on Silver Rapids.
14. Assisted West Point Distribution in West Point with leak repairs.

**West Point Distribution System:**

**SERVICE LINE WORK**

1. 24034 HWY 26
2. 96 Dowling (X's 2)
3. 1080 Barbera
4. 107 Barney
5. Assisted Jenny Lind Crew in the repair of many leaks in Rancho.

**MAIN LINE WORK**

1. None during this time

**ADDITIONAL WORK**

1. Help install cameras at WWTP and Warehouse.
2. MMS training.
3. Worked with Bad Elf GPS device.
4. Overseeing Electrical contractor digging across water main lines at WWTP.
5. Weekly pump checks.
6. Weekly flow reads.
7. Installed new toilet in warehouse.
8. Onsite while county public works excavated across water services to replace culvert. (County hit 3 service lines).
9. Warehouse yard maintenance- weed whacking clean up etc.
10. Country Ln water main is exposed. Conducted a needs assessment to have it replaced.
11. USAs
12. Service requests
13. Assisted the Collections Crew with sewer problems.
14. Installed new hot water heater in warehouse.



## **Construction**

1. Assisted in leak repair with the Ebbetts Pass, Copper Cove, and Jenny Lind Distribution Crews
2. White Pines Reservoir tule removal.
3. Slurry Line Meter Read.

## **Electrical:**

1. Installed 4 security cameras at West Point WWTP with the bucket truck.
2. Removed occupancy sensor and slave switches in the mechanics office, replace with traditional decora 3-way and 4-way switches.
3. Troubleshoot and repaired an H.O.A switch at Mountain Retreat lift station, tightened loose wires on PLC terminals.
4. Wired in/tested new aerator #2 in pond 1 at Forest Meadows WWTP.
5. Dug trench and installed underground conduit for the AML power feed at Blue Lakes tank.
6. Helped contractors get new filter #2 online at West Point WTP, helped with startup testing as well.
7. Pulled control cables to all banks and pinned out control cables for the new UV system at Forest Meadows WWTP.
8. Troubleshoot and repaired backwash return pump #2 flow problem at Jenny Lind WTP, replaced burnt relay.
9. Troubleshoot and repaired backup generator at Copper Cove lift station #15 during the construction project, went online with the MPAC1500, set clock to the correct time.
10. Troubleshoot and repaired pinch valve flow meter at Arnold WWTP after power outage.
11. Troubleshoot and repaired SCADA 2 machine Arnold WWTP after power outage.
12. Troubleshoot and repaired new Flexim flow meter at Forest Meadows WWTP, made signal dampening adjustments in the Flexim.
13. Troubleshoot and repaired telemetry communications failure at Heather Tank after a power outage, rebooted radio.
14. Replaced failed hour meter on influent pump #3 at Jenny Lind WTP with new unit.
15. Used remote SCADA access to troubleshoot and repair Win911 alarms at West Point WTP.
16. Worked with contractor at Larkspur tank getting new control panel installed.
17. Set the clock in the MPAC 1500 transfer switch at Copper Cove raw water pump station to the correct time.
18. Retrofitted LED lamps into all fixtures in the Forest Meadows WWTP U.V room.
19. Troubleshoot the solar flowmeter at the Wilseyville pond, replaced internal battery.
20. Troubleshoot and repaired the turbidimeter on filter #1, suspected failed ASCO valve, replaced with new.
21. Troubleshoot and repaired low air alarm at West Point WTP, went online with the PLC, found disabled in logic, enabled.
22. Removed electrical and controls from filter #1 at Jenny Lind WTP for filter rehab project.
23. Respiced pond 6 motor at Copper Cove WWTP, attached floats on S/O cord.
24. Worked with A-TEEM at Larkspur tank project getting new telemetry radios talking.
25. Replaced IEC starter and overloads for the mixer at Upper Cross-Country lift station.
26. Troubleshoot and repaired Ozone generator #1 at Jenny Lind WTP, flow meter had no power, 3 internal circuit breakers were tripped.
27. Wired in new pump motor at Lower Cross-Country lift station after unit was rebuilt.
28. Troubleshoot and repaired septic control panel at 7564 Pitt Ranch Ct. Panel was full of frogs, removed frogs and sealed entrance.
29. Troubleshoot 60kw Kohler portable generator, ordered new voltage selector switch.
30. Installed and programmed new occupancy sensors for the high bay lights at the new mechanic's shop.
31. Replaced failed pump #1 running indicator lamp at Lower Cross-Country lift station.
32. Performed annual flow meter calibrations at Southworth WWTP, Wallace WWTP and Wallace WTP.
33. Worked with A-TEEM at Copper Cove WTP on new Ignition SCADA system and water loss data collection.
34. Upgraded the firmware on the Ewon Cosy remote SCADA appliance for the latest security patches at Copper Cove WTP.
35. Worked with Gold Electric on the new interconnects for new filter #2 at West Point WTP.

36. Used remote SCADA access to fix the on-call security code in the Hunters WTP SCADA system.
37. Reset the clock in the MPAC1500 automatic transfer switch at Copper Cove headworks after observing an exercise at night.
38. Troubleshoot generator running alarm at Upper Cross-Country lift station, wiring was landed on the wrong terminals.
39. Added debounce timer in the PLC program for the mixer control at Upper Cross-Country lift station to prevent starter chatter.
40. Set calendar and clock setting to the correct date and time in the MPAC 1500 automatic transfer switch at Upper Cross-country lift station.
41. Replaced failed ethernet switch for the SCADA control network at La Contenta WWTP after old unit had failed.
42. Worked with Shape Inc on troubleshooting a pump at Lower Cross-Country lift station.
43. Wired in rebuilt pump at Upper Cross Country lift station.
44. Installed portable flow meter on the new filter #2 backwash line at West Point WTP, while TESCO locates their new flow meter transmitter.
45. Troubleshoot a weird smell in pump #2 at Copper Cove raw water pump station, compared thermal images of pump #1 with pump #2, as well as amp readings, pump #2 within spec.
46. Troubleshoot and repaired ozone generators and destruct units at Jenny Lind WTP, reset all units restoring proper function in auto.

## **Collections:**

1. SSO online reporting completed.
2. Weekly lift station inspections completed.
3. Monthly dry can inspections completed.
4. Monthly vehicle inspections completed.
5. Continued marking USA's district wide.
6. Worked on a bypass plan with rain for rent at Upper Cross-Country LS.
7. Pumped and cleaned lift stations 12 & 13.
8. Checked grease traps in Copper (quarterly inspections).
9. Started ARV inspections in Copper for bi-annual maintenance.
10. Pulled pump 2 at LS 1 in Copper due to pump failure. Will need to order new pump.
11. Pumped and cleaned back wash ponds at West Point WTP.
12. Checked ARV's in La Contenta.
13. Checked grease traps in La Contenta.
14. Checked grease traps and ARVs in West Point.
15. Pumped and cleaned Vallecito Correctional Camp's septic system.
16. Checked grease traps in Arnold.
17. Called out to 249 Thompson lane odor complaint. Found no issues on CCWD side.
18. Called out to 7564 pit ranch road septic tank alarm. The panel was full of tree frogs causing it to trip the breaker.
19. Called out to Forest Meadows lift stations due to power outages.
20. Checked ARV's in Arnold and Vallecito areas.
21. Multiple days of pumping septic tanks in West Point.
22. Pumped and cleaned Hwy 4 LS and Hydro'd line above it.
23. Helped The Copper Distribution Crew with the repair of a water leak near pizza plus.
24. Called out to 7081 Ospital rd. Septic tank alarm. On off float went bad.
25. Called out to Lower Cross-Country LS due to pump 2 failure.
26. Called out to Copper generators due to power outages night of 10-22-23.
27. Installed rebuilt pump at Upper Cross-Country LS.
28. Hydro'd the bench in Forest Meadows (yearly maintenance).
29. Hydro'd the head works at Vallecito WWTP.
30. Called to 45 pine street in West Point backed up septic tank. Had to pump the tank for the weekend due to effluent line being plugged.
31. Dug up check valve at 45 pine street and found it was plugged up with feminine hygiene products cleared it. Tank is working fine now.

## **Mechanical:**

1. Welcomed aboard new mechanic Darren Johnson.
2. Conducted district wide generator checks while introducing new employee to generator and district equipment locations and job requirements.
3. Repaired packing gland water supply line to the Hunter Dam Pump Station's pump #2.
4. Replaced drive belts on Hunters WTP air compressor.
5. Researched and fabricated stands for the West Point WTP chemical tanks in coordination with the new filter installation.
6. Final alignment and test run of Meadowmont Pump Station's pump #3 after pump rebuild and installation.
7. Crane lift and repair of the discharge hose of Copper Cove WWTP pond 6 sub pump due to placement complications.
8. Responded to Copper LS 15. The generator failed to start during test after generation repositioning. Replaced battery and insured its running capability.
9. Assisted the Collections Crew with crane lift and de-ragging of LS1 pump and placed back in service.
10. Researched, fabricated, and repaired excavator bucket to ensure White Pines lake cleaning project continuation.
11. Troubleshoot VEH719 (2017 Jeep Wrangler) overheating, replaced water pump and thermostat.
12. Troubleshoot tow behind air compressor failure. Failed to make air pressure for jack hammer. Separated the compressor from engine to find the coupler had come out of adjustment. Corrected adjustment, serviced compressor and engine, repacked and adjusted wheel bearings and placed back in service.
13. Replaced battery at LS #8 generator, fan belts on LS #12 generator, as well as assist collections and electricians install of lower cross country submersible pump (crane lift).
14. Researched, fabricated, and installed a custom upgrade of the Arnold WWTP heads works auger to re-fit seals and screen assembly in the head works trough to correct poor filtration prior to entering the plant.
15. Replaced front brakes and passenger front upper control arm on V608(2001 Chevy Silverado) to correct bad shake under braking.
16. Troubleshoot water leaking into the cab of V712 (2016 F350). Re-sealed and corrected leaks at both the roof antenna and third brake light.
17. Training, troubleshooting and repairs to V126 (2004 VacCon), diagnosed hydraulic issues, corrected multiple water leaks and diag pulsation of high-pressure water system.
18. Troubleshoot a high-pressure water pump problem, tore down and parts researched, repair pending.
19. Replaced failed oil pressure switch on larkspur tank generator and fuel HWY generators due to power outages.
20. Assisted in the installation of an Upper Cross-Country pump (crane lift).
21. Replaced batteries and run-tested all or most of the vehicles in the corp yard storage as well as towable generators.
22. Attempted a Valley Springs A-tank pump #4 mechanical seal replacement only to find high bearing run out of the upper pump section requiring a pump rebuild.
23. Research to correct and bring up to date our BIT inspection program.
24. Serviced VEH736 (2020 GapVax) and corrected hydraulic leaks.

## **Underground:**

1. Continued Service Lateral replacements in the Jenny Lind Area.

**Prepared By: Damon Wyckoff, Director of Operations**