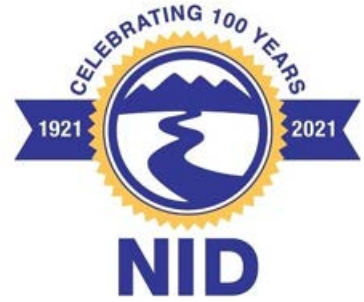


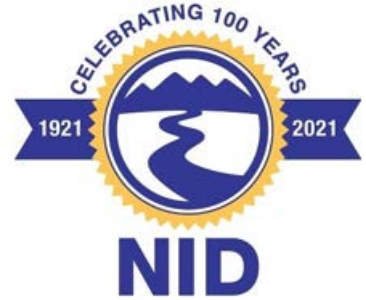
Nevada Irrigation District

Department Updates



Presented to the Board of Directors
April 28, 2021

Administration Department



Environmental Resources Program

Program Updates, Grants & Outreach Update

Safety

Site Visits, Training Classes, & Administrative Duties

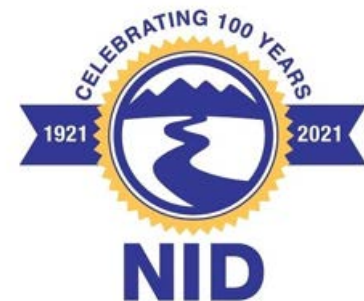
Communications

News Releases, Website, Engage, Social Media

Environmental Resources Program

Program Updates

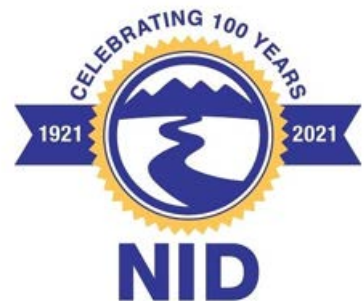
- **Meadow restoration:** English Meadow Floodplain Restoration Project environmental compliance continues, and the public DRAFT IS/MND is nearly ready for release in preparation for the Wildlife Conservation Board's upcoming grant August 2021
- **Watershed and Healthy Forests:** Fire fuels treatment at Scotts Flat Reservoir in partnership with Sierra Nevada Conservancy, and Rollins Reservoir CAL FIRE work is underway. Hazard tree removal has been prioritized at the Rollins campgrounds, and there is significant work to complete prior to the summer recreation season at Orchard Springs, Long Ravine and Peninsula Campgrounds.
- **Grant administration/contract management:** Contracting, invoicing and reporting ongoing
- **Regional partnerships/Education:** The Cosumnes, American, Bear and Yuba River (CABY) Integrated Regional Water Management Plan has been submitted to the Dept. of Water Resources and comments are forthcoming.
- **Grazing:** Grazing leases will be updated for District properties in mid and high elevation areas in 2021



Environmental Resources Program

Program Highlight: English Meadow Floodplain Enhancement and Restoration Project

- Currently underway with environmental compliance and IS/MND development for a 380-acre project in the Middle Yuba River headwaters
- \$1.2M grant award from the Wildlife Conservation Board scheduled summer 2021
- AB52 Tribal Cultural Consultation is completed
- Plan for implementation to begin summer of 2022
- Installation of woody debris to Middle Yuba River stream to activate floodplain, and improve hydrology
- Understory thinning on forested slopes to decrease risk of wildfire disturbance and benefit hydrology, forest health, and habitat



Environmental Resources Program

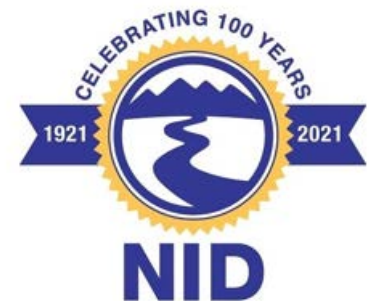
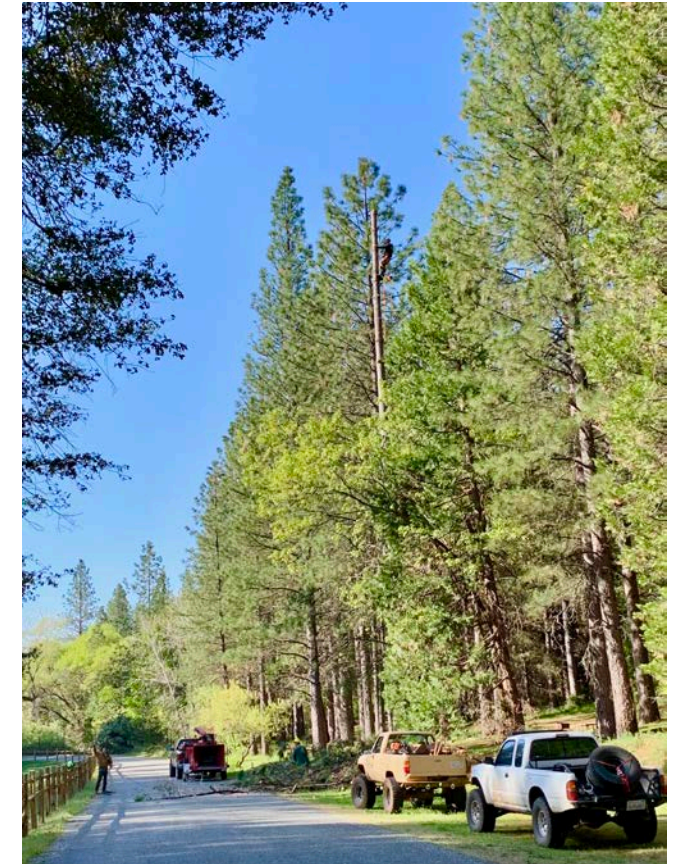
Grants Update

CAL FIRE CFIP Grant for Rollins Reservoir

- Work began March 2021 at Long Ravine and Orchard Springs Campgrounds, near Rollins Reservoir to include mastication and handcrews. This has been a significant undertaking, requiring coordination with Recreation Dept. to close campgrounds to ensure public safety
- Additional hazard tree removal (not part of the grant funded scope of work) is also occurring while we are onsite working and operators can maximize efficiencies to improve overall safety and appearance of the campgrounds

SNC Fuels Treatment at Scotts Flat Phase 4

- Project implementation continues
- Work to continue along our pipeline and Upper Bench Road, and on the north shore between Deer Creek and the Gate 2 Campground
- Grant agreement is executed with the Sierra Nevada Conservancy for \$981,000 at Scotts Flat Reservoir, and project is in final phase (approximately 70 acres left)
- Mastication and handcrews to reduce fire fuels to improve forest health
- Create a multi-species, multi-aged, properly spaced community
- We will treat total of 300 acres by Jan. 1, 2022



Environmental Resources Program

General Watershed and Healthy Forests Program Update

Fire Fuels Treatment and Hazard Tree Removal on District Property

- The annual hazard tree assessment and inventory is underway by our consulting Forester, Mr. Kevin Whitlock RPF at all of our campgrounds
- Orchard Springs, Long Ravine and Peninsula have been assessed, and tree removal and cleanup has been initiated due to the large number of hazards that were found. Over 30 will be removed at Orchard Springs.
- Oak trees seem to be showing significant signs of disease and rot, which compromises their integrity and prompts removal. Large pines have also been removed due to disease and insect stress. Additionally, limbing above campsites is critical to reduce potential for associated damages.



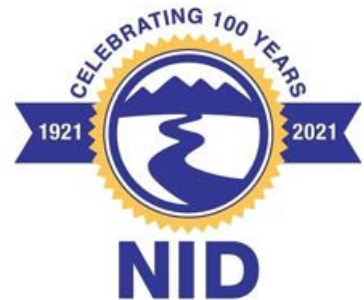
Safety

Site Visits

- Maintenance Department: Ridge Road/Sierra College intersection regarding employee safety for traffic control in a high volume area
- Maintenance/Operation Departments: set up safety equipment and assisted with confined space entry into the dissipater at the head of the Snow Mountain Canal
- Placer Maintenance Department: Cleaning debris on the Combie Ophir 2 canal
- North Auburn Ops/Placer Maintenance Dept.: Fire extinguisher inspections and replenish first aid kits

Training Classes

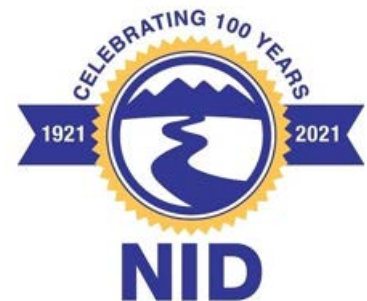
- Maintenance Department: New temp orientation for three utility workers
- Maintenance Department: New temp orientation for two vegetation workers
- Maintenance Department: Cyber security training for promotion positions of senior utility workers
- Operations Department: Refresher confined space for all water distribution operators, five sessions due to Covid-19 restrictions on room size of six employees at a time.



Safety

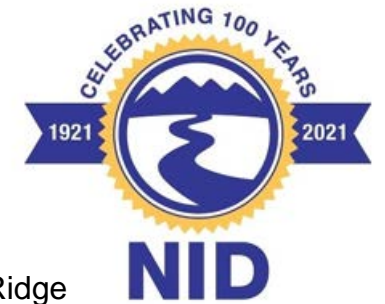
Administrative Safety Activities

- COVID-19 workplace safety considerations are still being executed at NID. Training classes were revised to ensure social distancing guidelines were met; disinfectant still available to all. Weekly restroom checks for the Covid policy regarding the restrooms be stocked with supplies for employees.
- Working with Glatfelter Insurance Claims
- Continue working on District claims
- Reviewing the Confined Space Permits 2020/2021
- Target Solutions: tracking all trainings, certifications, tailgate meetings, etc.
- Meeting with AIG Insurance regarding a contractor for risk consulting for revising our safety procedures and policies.
- Meeting: Greg Jones regarding safety activities
- Meeting: Fred Waymire, treated water superintendent and Phil Goguen, electrical systems supervisor regarding the EPA/AWWA updates
- Review trench safety logs from the maintenance dept.
- Review LOTO permits 2020/2021



Safety

Pictures



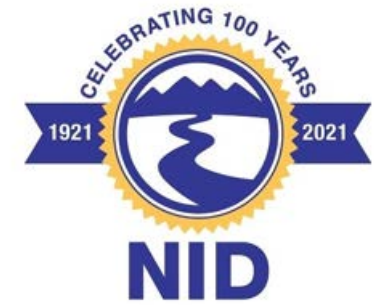
Tree removal off of Ridge Road before new pipeline replacement

Up grading the transmission main line on Ridge Road, upsizing 10 inch pipe to 20 inch pipe

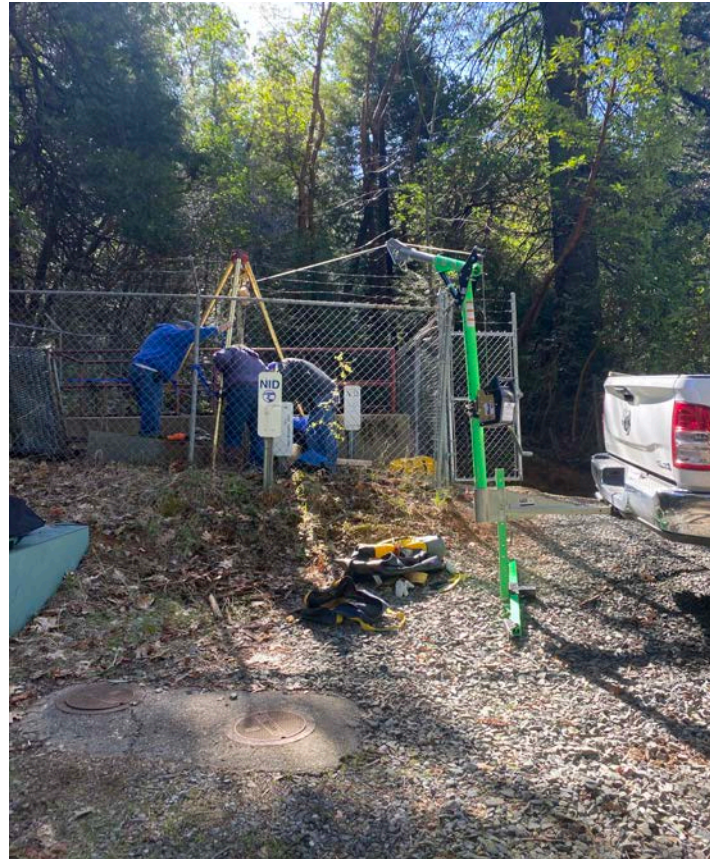


Safety

Pictures



Confined Space entry at the dissipater at Snow Mountain Canal to replace the old head gate with a modern steel gate.



Communications

News Releases

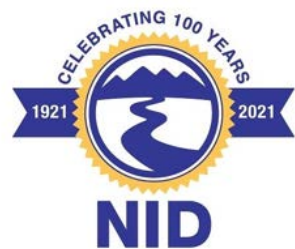
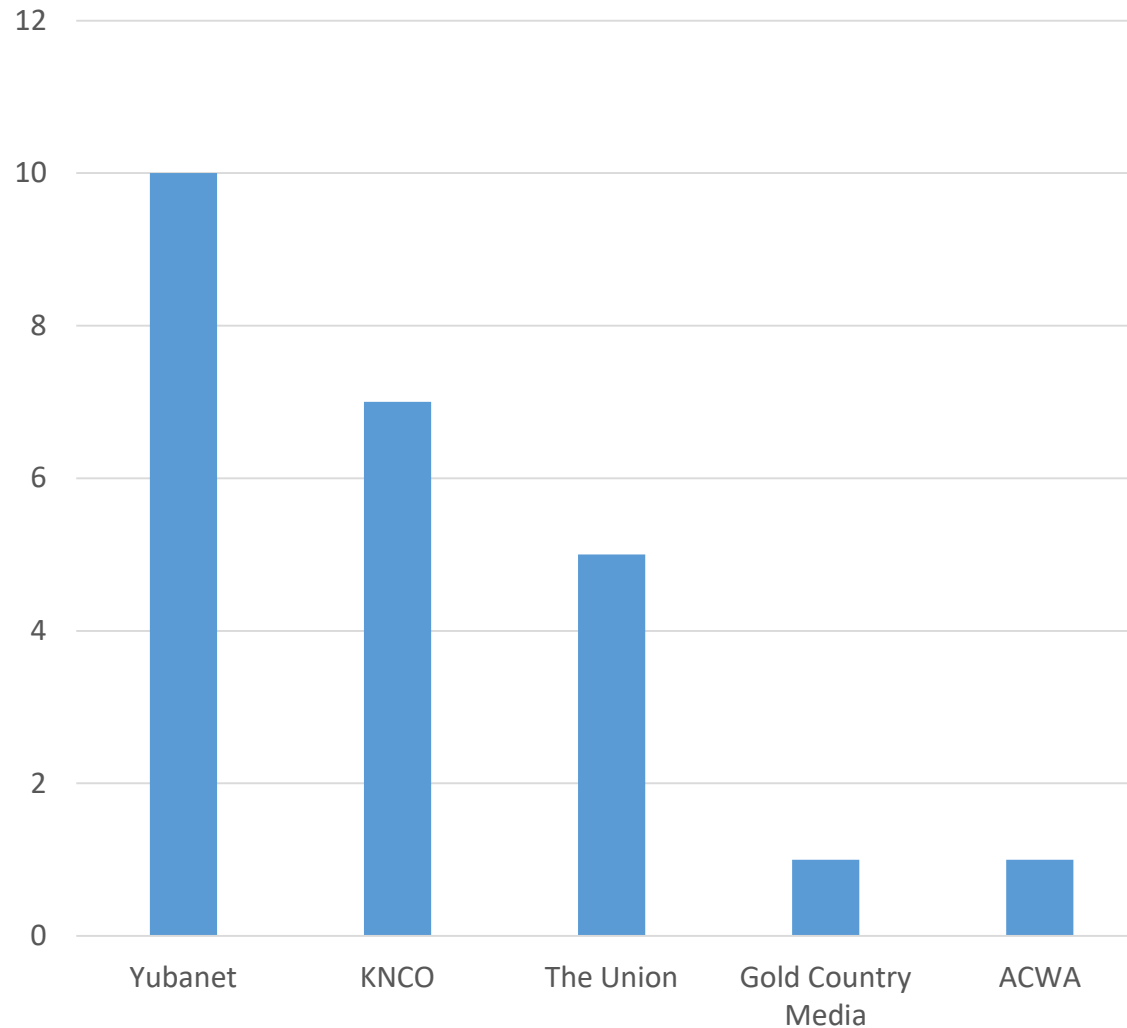
**March & April
News Releases 10**

Coverage:

- Yubanet
- KNCO
- The Union
- Gold County Media

* Snow survey story picked up by the Association of California Water Agencies

Who published our releases?



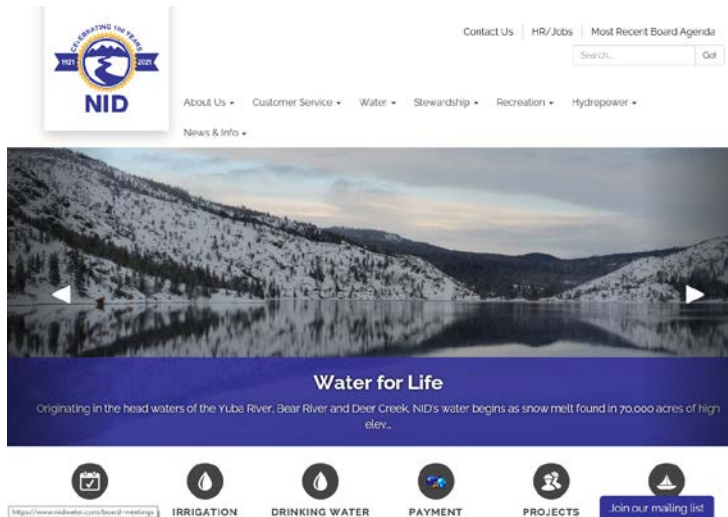
Communications

Website

New website launched in February

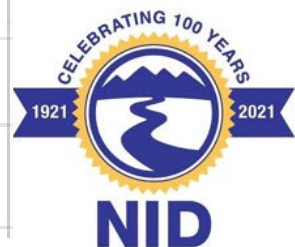
Stats for April

Visits: 38,292



Top 10 pages for April

1.	Nevada Irrigation District
2.	Current Job Openings - Nevada Irrigation District
3.	Contact Us - Nevada Irrigation District
4.	Welcome to Human Resources - Nevada Irrigation District
5.	Board Meetings - Nevada Irrigation District
6.	NID to Fill Irrigation Canals on April 15 - Water Supports 32,000 Acres of Agriculture - Nevada Irrigation District
7.	Lower Scotts Flat Trail - Nevada Irrigation District
8.	News Releases - Nevada Irrigation District
9.	Customer Service and Billing Questions - Nevada Irrigation District
10.	Board Meeting - Special - Nevada Irrigation District
11.	Meetings & Minutes - Nevada Irrigation District
12.	NID snow survey: snowpack and water content below average - Nevada Irrigation District



Communications

Engage

Email direct communications

Total subscribers: **5,505 (45 new)**

March 1 – April 20

Topics:

- Board Meetings
- AWMP
- Combie Phase I Complete
- Snow Survey

Proposed Scotts Flat Lower Connector Trail Project - Public Review & Comment Period Opens		NID Board of Directors Only	4/15/2021 3:13 PM	7	42.9%	71.4%	View Details
Board Meeting - Special - April 16, 2021		All Meeting Notices - Board and Committee	4/15/2021 7:28 AM	274	32.6%	26.7%	View Details
NID snow survey: snowpack and water content below average		News and Alerts	4/12/2021 1:12 PM	4,306	50.0%	1.4%	View Details
Board Meeting - Special - April 9, 2021		All Meeting Notices - Board and Committee	4/8/2021 11:21 AM	268	29.5%	25.4%	View Details
Board Meeting - April 14, 2021		All Meeting Notices - Board and Committee	4/7/2021 4:21 PM	267	31.8%	21.7%	View Details
NID completes vital Combie Phase 1 Canal and Bear River Siphon Project		NID Board of Directors Only	4/7/2021 10:41 AM	7	42.9%	100.0%	View Details
NID to conduct testing of Rollins powerhouse – expect increased flows and water levels on Wednesday		Tomi	4/5/2021 1:30 PM	1	100.0%	100.0%	View Details
NID to conduct testing of Rollins powerhouse – expect increased flows and water levels		Tomi	4/5/2021 1:18 PM	1	100.0%	100.0%	View Details
Water Rates Committee Meeting - April 7, 2021		All Meeting Notices - Board and Committee	4/2/2021 3:59 PM	264	30.8%	18.3%	View Details
Board Meeting - Special - April 2, 2021		All Meeting Notices - Board and Committee	4/1/2021 2:45 PM	264	30.4%	30.4%	View Details
Board Meeting - Special - March 26, 2021		All Meeting Notices - Board and Committee	3/25/2021 8:17 AM	262	33.2%	29.0%	View Details

Communications

Social Media

Top 5 videos on YouTube


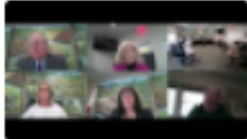

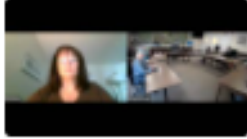

YouTube

- 438 views
- 56 subscribers (6 new)
- 31.2 viewing hours

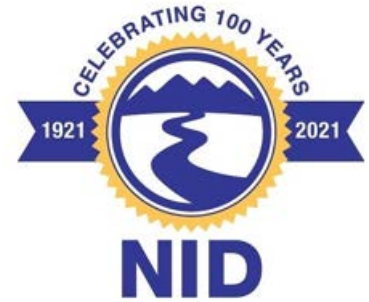
Facebook

- 610 followers (175 new)
- 9,244 people reached
- 95 page likes

* stats for past 28 days

Video	Average view duration	Views
 <p>1 Combie I Feb 2021 Feb 22, 2021</p>	1:30 (69.0%)	223
 <p>2 March 24, 2021 - NID Board of Directors Meeting Mar 25, 2021</p>	18:19 (4.9%)	47
 <p>3 What is a Miner's Inch of Water? Mar 6, 2012</p>	0:52 (93.4%)	44
 <p>4 April 9, 2021 - Special Board Meeting Apr 9, 2021 Recent upload</p>	0:21 (55.3%)	13
 <p>5 March 18, 2021 - NID Special Board Meeting Mar 19, 2021</p>	4:32 (4.3%)	11

Engineering Department



Project Highlights

Engineering Project Status Report

Hydroelectric Project Status Report

Alta Sierra Tank Site Construction



Alta Sierra Tank Site Construction Cont'd



Doty North Canal Siphon #1 Replacement



Combie Phase 1 Pipeline



Crews encasing a section of pipeline, March 17, 2021



Removal of steel bulk head on April 9, 2021

Combie Phase 1 Pipeline, Cont'd



Final piece of pipe installed April 11, 2021

Placer County Government Center (Mercy Housing)



Developer Installed Project



ENGINEERING DEPARTMENT PROJECT STATUS

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments	Start Year
01 - EXTENDED CEQA [\$30,000] 10151- 52913								
01	DOUGLAS RODERICK	DIV 2	Banner Cascade Pipeline	6593-2	Banner Cascade & Upper Grass Valley Canals - Longterm Canopy Cover & Pond Studies - Year 8 of 10 year Monitoring Plan	Post Construction	Studies to be completed Fall 2021 by Stantec Environmental	2021
02 - PIPELINE REPLACEMENT (\$2,050,000) 10151-52907								
01	DOUGLAS RODERICK	DIV 5	Lidster Avenue & Country Club Terrace	2071	Replacement of deteriorated water mains and services in this area. 4,545 LF of 8" pipe.	Closeout	Final paving complete. Project Complete. Will be removed from future Project Status Reports	2020
02	TONIA TABUCCHI HERRERA	DIV 5	Rough & Ready Round-a-bout waterline improvements	2497	Nevada county proposed to realign Rough and Ready Hwy, Ridge Road and Adams Ave. NID affected facilities included treated water line along Rough and Ready HWY and Adams Ave ; and Rough and Ready Canal crossing/near Ridge Road. (Div. 5)	Planning	The County is agreeable to relocating the culvert crossing for the RR canal. Details of ROW management and District participation in discussion internally. The County does not feel the treated waterline is impacted by their project and will not relocate it as a result.	2020
03	TONIA TABUCCHI HERRERA	DIV 5	Christian Life Way at Highway 49	6962	Replace approximately 1500 LF of pipeline with 8" pipeline. Existing pipeline is undersized; has reached its useful life, is difficult to access, existing ROW is inadequate, requires new route for accessibility	Design	Investigating an alternative route to improve maintenance access, and potential to add additional service connections.	2021
04	TONIA TABUCCHI HERRERA	DIV 4	Meadow Brook Pipeline Relocation	2324	Service lines are located in backyards and trees have broken the mainline several times. Project includes relocation of service lines and abandonment of 4" main.	Planning	Reviewing impacted services to determine area to be surveyed.	2021
05	ADRIAN SCHNEIDER	DIV 2	North Day Road Pipeline Replacement	2182	Replacement of badly deteriorated A.C. pipeline on North Day Road. Approximately 3,780 feet long.	Design	Design at 75%. Project modified to include an additional 850 feet to connect to same pressure zone (Meadow View Road Pipe). Easement needs are being evaluated for new pipe location.	2021
06	ADRIAN SCHNEIDER	DIV 3	Willaura Acres	2323	Replace deteriorated water mains and services.	Design	Drafting to place new pipe alignment on plans; design to be reviewed for construction next year.	2021
07	DOUGLAS HOBBS	DIV 2	Osborne Hill Inlet Pipe	6966	Osborne Hill Inlet Pipe 1,720' of 18" pipe	Planning	Reinstating project previously deferred due to funding. Preparing Scoping Report.	2021
08	TONIA TABUCCHI HERRERA	DIV 4	Live Oak Way	2534	Replace old and undersized valves and service lines.	Planning	2021 Budgeted Project.	2021
03 - PRV REPLACEMENT (\$480,000) 10151-52908								
01	DOUGLAS HOBBS	DIV 1	Berggren Lane PRV Replacement	2370	Replace PRV with 1300 LF of 8" pipe connecting Red Dog Rd. with Jasper Agate Court	Construction	Design and easement acquisition complete. Project will be constructed by Maintenance in 2021.	2020
02	TONIA TABUCCHI HERRERA	DIV 2	Cedar Ridge PRV Replacement	2366	Existing PRV station is badly deteriorated with valves in a vault . Replacement station will be above ground. Additional ROW is required	Design	Design 90%. Property owner to be contacted regarding existing easement; easement adjustment is required.	2019
03	TONIA TABUCCHI HERRERA	DIV 1	East Ridge PRV Replacement	2318	Existing PRV station is badly deteriorated with valves in a vault . Replacement station will be above ground. Additional ROW is required.	Design	Design 10%. Survey is complete. Existing easement information received.	2019
04	DOUGLAS HOBBS	DIV 2	Silver Way PRV Replacement	1010	Replace existing PRV station at corner of Silver Way and Hwy 174 with an above ground PRV station upstream on Hwy 174	Design	Design at 10%. Property owner to be contacted regarding adding above ground structure to existing pipe easement.	2021

ENGINEERING DEPARTMENT PROJECT STATUS

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments	Start Year
05 - RAW WATER SYSTEM IMPROVEMENTS (\$1,250,000) 10151-52910								
01	DOUGLAS RODERICK	DIV 4	Doty North Canal	1031	Doty North canal which will encase approximately 450 feet of canal and replace siphon #1.	Closeout	Project complete and in service. Will be removed from future Project Status Reports.	2019
02	DOUGLAS HOBBS	DIV 4	Santini Siphon 1	1098	Replacement of undersized Siphon with 1500 LF of 18" pipe.	Design	Design at 95. One easement signed and acquiring remaining easement. Project will be completed by Maintenance in 2021.	2020
03	DOUGLAS RODERICK	DIV 1	South Yuba Canal Repair Upgrades Ph 1	2419	Repair/Replace segments of So. Yuba Canal	Planning	Review meeting scheduled for April 22, 2021 on Condition Assessment Report. Additional field work scheduled for early May, 2021.	2020
04	ADRIAN SCHNEIDER	DIV 1	Maben Canal - IV	8099-4	Rehabilitate and enlarge canal.	Design	Draft design completed; easements being reviewed by ROW. Construction to begin in 2022.	2021
05	DOUGLAS HOBBS	DIV 4	Hayt Canal Siphon Replacement	2474	Hayt Canal Siphon #6, replace aged infrastructure	Design	Construction of siphon #1 improvements complete. Flow test completed by Operations. Anticipate moratorium to be removed this season. Evaluating alternatives for a spill at siphon #6 and shortening the end of the canal.	2020
06	TONIA TABUCCHI HERRERA	DIV 5	Pet Hill Extension Repairs	2373	Repair and upgrade pipeline and gate for capacity	Planning	2021 Budgeted Project.	2021
07	TONIA TABUCCHI HERRERA	DIV 5	China Drop Pipe Replacement	2329	Replacement of badly deteriorated pipeline to improve water delivery and reliability.	Planning	2021 Budgeted Project.	2021
08	DOUGLAS HOBBS	DIV 1	Clipper Creek Techite	2535	Replace 8600' of 24" Techite pipe.	Planning	2021 Budgeted Project.	2021
09	ADRIAN SCHNEIDER	DIV 2	China Union Parshall Flume	2570	Design and install a pre-manufactured, 24" Parshall Flume on the China Union Canal	Planning	Design being reviewed. Installation in 2021 pending Operations and Maintenance schedules and budget.	2021
06 - BACKBONE EXTENSION 10151-52911								
01	TONIA TABUCCHI HERRERA	DIV 5	E. George to LWW Pipeline	2255	Extend a pipeline from the E. George Treatment Plant to Lake Wildwood to increase the water supply capacity, reliability, and create redundancy. Project to be completed in phases as funds become available.	Construction	Phase 5b - Ridge Road waterline replacement in construction by Maintenance. The Slate Creek PRV relocation and replacement is in planning stage. Tie-in of pipe anticipated by mid May, 2021.	2020
07 - NON-PROGRAMMATIC [2,200,000] 10151-52915								
01	DOUGLAS RODERICK	DIV 3	Combie I Replacement	6746	Combie Phase 1 Pipeline Bypass, 8900 LF of 96" pipe	Closeout	Pipeline complete and placed into service. Final items anticipated to be completed in mid May, 2021	2021
02	DOUGLAS HOBBS	DIV 2	Alta Sierra Tank Replacement	6971	Replace existing Alta Sierra Hypalon-covered reservoir with 3MG storage tank	Construction	Electrical design has started. Floor slab has been poured. Easement for 8" pop-off valve at golf course is in process.	2020
03	TONIA TABUCCHI HERRERA	DIV 4	Hemphill Diversion	7032	Hemphill Diversion Project to facilitate Fish Passage.	CEQA Process	DEIR released for public comment April 1, 2021 through May 17, 2021.	2020
04	ADRIAN SCHNEIDER	DIV 3	North Auburn Treatment Plant	2376	Upgrade of high lift pumps and addition of emergency generator at North Auburn Water Treatment Plant	Design	Waiting for PG&E response to request for adding larger natural gas service from main in street. Design at 90%. Generator install expected in Summer 2021	2020
05	ADRIAN SCHNEIDER	DIV 2	Pine Woods Pump Station	2488	Design, purchase and install a permanent stand-by generator at Pine Woods Pump Station	Planning	Draft Study under internal review.	2020
06	TONIA TABUCCHI HERRERA	All	SGIP Battery Installation	2520	Battery installation at various District facilities. Part of the California Public Utilities Self-Generation Incentive Program	Planning	Three sites are being pursued that meet the qualifications for backup battery - EGWTP, LRWTP, and Norlene pump station. GSRE working on the applications and interconnection agreement. NID staff providing support. Bringing to Board in April 2021.	2021
07	DOUGLAS HOBBS	DIV 5	LWW Treatment Plant Expansion	2568	Lake Wildwood Treatment Plant Upgrades - Drying beds, backwash pumps and canal intake screen.	Planning	2021 budgeted project. Working on Clarifier Tank A rehabilitation (FATR 2526)	2021

ENGINEERING DEPARTMENT PROJECT STATUS

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments	Start Year
07 - NON-PROGRAMMATIC [2,200,000] 10151-52915								
08	DOUGLAS HOBBS	DIV 2	Loma Rica WTP Clear Well Expansion	2375	Expansion of clearwell to add volume for higher plant flows.	Planning	2021 budgeted project.	2021
09	DOUGLAS HOBBS	DIV 2	Loma Rica WTP Modify CT	2378	Modification of Loma Rica Treatment Plant for additional chlorine contact times	Planning	2021 budgeted project.	2021
10	ADRIAN SCHNEIDER	DIV 3	David Way Pump Station Rehab	2322	Replace the existing David Way Pump Station. Facility is badly deteriorated.	Design	After internal review of draft design, decision to plan for a pre-built pump station rather than rehabilitate the existing pump station. Looking at companies for design, manufacture, and installation.	2021
11	DOUGLAS RODERICK	DIV 2 & 3	Centennial Water Supply Project	7013	Centennial Water Supply Project	Planning	Quarterly update to Board at the March 24, 2021 meeting. Due to COVID-19, no consulting work or AB52 consultations have taken place. The next quarterly update will be June 2021.	2021
08 - COMMUNITY INVESTMENT 10151-52912								
01	ADRIAN SCHNEIDER	DIV 2	Loma Rica Drive - DFWLE	2181	Assist, Design and Construction of a pipeline for existing neighborhoods approved by the Engineering Committee January 16, 218	Planning	Project approved. Survey request submitted and survey of project to follow. Pending signed funding agreements from property owners.	2021
02	ADRIAN SCHNEIDER	DIV 2	Maranatha Place DFWLE	2409	Assist, Design and Construction of a pipeline for existing neighborhoods. Approved by Engineering Committee Aug 20, 2019.	Planning	Waiting for available funding to move project forward.	2023
13 - ENGINEERING O&M 10151-NA								
01	DOUGLAS RODERICK	N/A	Urban and Agricultural Water Management Plan	1034	Development and approval of Urban and Agricultural Management Plans as regulatory required	Planning	AWMP approved and resolution adopted by Board on April 14, 2021. UWMP is in process.	2020
02	GREG JONES	N/A	District Wide Plan for Water	1041	Plan for Water / EIR	Planning	Waiting until AWMP & UWMP's are completed. Anticipate public outreach in Fall 2021.	2020
13-1 - ADMIN CAPITAL 10114-52915								
01	GREG JONES ADRIAN SCHNEIDER		Scotts Flat Lower Connector Trail	2294	Planning, design, and construction of Scotts Flat Lower Connector Trail	Planning	Public review of Initial Study/Mitigated Negative Declaration planned for April 14 through May 14, 2021. Public Review Meeting scheduled for May 6, 2021. Public Hearing scheduled for May 26, 2021.	2021
17 - SEDIMENT REMOVAL PROJECTS 10151-52914								
01	ADRIAN SCHNEIDER	ALL	District-wide Reservoir Study	2500	District-wide reservoir study of the current condition of all District reservoirs, that includes bathymetry to better understand the diminished capacity due to sedimentation. Will assist in determining costs, prioritization, and alternatives.	Planning	Draft report being reviewed internally.	2020
02	ADRIAN SCHNEIDER	DIV 2	Loma Rica Reservoir	2090	Placement of 5,600 cubic yards of stockpiled sediment at airport property	Post Construction	Monitoring seed growth to obtain 70% coverage per SWPPP permit requirements. grading permit (through contractor submittal of final special inspection reporting).	2019
03	GREG JONES	DIV 3	Combie Sediment Removal Project	2135	Removal of sediment at the east side of Combie Reservoir	Post Construction	Final report completed and submitted to DWR. Report is available on the District's website. Final disposal of material is ongoing.	2019

ENGINEERING DEPARTMENT PROJECT STATUS

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments	Start Year
17 - SEDIMENT REMOVAL PROJECTS 10151-52914								
04	ADRIAN SCHNEIDER	DIV 2	Greenhorn Sediment Removal	8515	Removal accumulated sediment from the Greenhorn Creek arm of Rollins Reservoir	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.	TBD
05	ADRIAN SCHNEIDER	DIV 3	Orr Creek Reservoir Cleaning	6963	Removal accumulated sediment from the Greenhorn Creek arm	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.	TBD
06	ADRIAN SCHNEIDER	DIV 2	Dutch Flat Afterbay Sediment Removal	2213	Remove accumulated sediment from the afterbay to reduce outlet pipe clogging for operation	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.	TBD
07	ADRIAN SCHNEIDER	DIV 2	Steephollow Sediment Removal	6877	Removal of sediment at Steep Hollow and protection of hydro facilities	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.	TBD
00 - MISC. PROJECTS								
00	ADRIAN SCHNEIDER	DIV 4	Valley View Access Road	2222	Relocate access road that currently crosses a private driveway	Construction	Maintenance constructing new access route.	2021
00	DOUGLAS HOBBS	DIV 5	LWW Clarifier Tank A	2526	Rehabilitate Clarifier Tank A. Work will precede other Lake Wildwood Treatment Plant Upgrades (FATR 2568).	Planning	Maintenance Project, requires extensive rehabilitation in addition to painting.	2021

HYDROELECTRIC DEPARTMENT PROJECT STATUS

Priority	Project Manager		Facility Name	FATR#	Description	Status	Comments
10-1 - HYDRO NON-PROGRAMMATIC (\$250,000) 50112-52915							
01	KEANE SOMMERS	2020	Hydro Field Office	2432	Design and construction of the new Hydroelectric Field Office	Hold	The Energy Center program components are under development. The new maintenance facility and storage yard draft pre-design by the architect is complete. The three energy/carbon concept studies are complete; forest carbon sequestration, pumped storage, and solar field. A draft Energy Management Strategy Summary has been received and is under review. Once all efforts are completed, findings will be summarized to present options and alternatives for developing the site into various levels of renewable energy generation and carbon zero footprint.
10-2 - HYDRO POWERHOUSE IMPROV (\$1,925,000) 50112-52920							
01	NATHAN DROIVOLD	2020	Dutch Flat #2 Powerhouse Balance of Plant.	2348	Install an expandable balance of plant to monitor critical plant systems such as excess vibration of the turbine and generator, temperature, and flow.	Post-Construction	The new balance of plant PLC was installed during the September/October outage period. Testing of the new vibration monitoring system was completed before returning the unit to service. Testing for the new automatic forebay level controls is complete. Hydro has received final submittals for the project. PLC programming will be revised in April after review of recent test results. After testing is complete, project will be ready for close out.
02	NATHAN DROIVOLD	2020	Deer Creek Powerhouse	2290	Deer Creek Powerhouse Upgrades - Cost of upgrades necessary to sell power upon close of sale	Design	Hydro is finalizing plans for a new gaging station on the South Yuba Canal that will measure flow supplying Deer Creek PH. These plans will be sent to PG&E for approval prior to installation.
03	ADRIAN SCHNEIDER	2019	Chicago Park Fire Suppression System (DIV 2)	2164	Upgrade of existing CO2 system (piping, alarms, sensors) to protect Generator. Includes installation of new Clean Agent suppression system for control room and the addition of a fire detection system for electrical cable trays.	Construction	Construction of project commenced on January 26, 2020. Expected to be completed by end of April.
04	NATHAN DROIVOLD	2021	SFPH Fire Detection Upgrades	2552	Install new smoke detection systems in the Scotts Flat Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Planning	Hydro has contracted with a consultant to begin the design of a new fire detection system for the PH. A site visit to discuss possible solutions is scheduled for early May. Design and install are scheduled to be completed by the end 2021.
05	NATHAN DROIVOLD	2021	CNPH Fire Detection Upgrades	2553	Install new smoke detection systems in the Combie North Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Planning	Hydro has contracted with a consultant to begin the design of a new fire detection system for the PH. A site visit to discuss possible solutions is scheduled for early May. Design and install are scheduled to be completed by the end 2021.
06	NATHAN DROIVOLD	2021	CSPH Fire Detection Upgrades	2554	Install new smoke detection systems in the Combie South Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Planning	Hydro has contracted with a consultant to begin the design of a new fire detection system for the PH. A site visit to discuss possible solutions is scheduled for early May. Design and install are scheduled to be completed by the end 2021.
07	ADRIAN SCHNEIDER	2019	Combie Reservoir	6943	Combie South Access Road. Develop approx. 3,000 ft. from south abutment.	Design	90% Design for new access road is complete. Staff to receive appraisal report. ROW is sending offer packages for required easements. Construction is planned for 2021.
08	THEODORE BLANK	2019	Combie South Electrical Upgrades	2168	Combie South Electrical Upgrades	Design	The new 12kV transformer has been delivered to Hydro. Hydro and Engineering are working on the containment pad and foundation design for the new transformer. Installation is scheduled for 2021.
09	NATHAN DROIVOLD	2020	Rollins Powerhouse	2351	Replace the existing oil circuit breaker (OCB) at the Rollins Powerhouse with a more environmentally acceptable vacuum circuit breaker.	Design	Hydro has opened a project with PG&E's engineering team and is working with PG&E to provide requested project documentation. Hydro received manufacturer's drawings for the new breaker and has approved the unit for fabrication. Installation is planned for Q3 2021. Hydro is working with Engineering to modify the existing pad to accommodate the new VCB footprint.
10	NATHAN DROIVOLD	2021	Chicago Park Powerhouse Governor Replacement	2402	Replace governor, install instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components.	Design	Final design complete. Procurement of project materials is nearly complete. Hydro will install the new cooling water system during the 2021 annual outage for Chicago Park Powerhouse.
11	NATHAN DROIVOLD	2021	Chicago Park PH Transformer Replacement	2362	Procure and install a new main transformer at the Chicago Park Powerhouse.	Planning	Hydro is working with an engineering consultant to perform a condition assessment of the existing equipment in the Chicago Park PH to make recommendations for future repair or replacement. The project scope will be developed after reviewing this report in 2021.
12	NATHAN DROIVOLD	2021	Chicago Park PH Turbine Overhaul	2353	Replace worn turbine and appurtenances.	Planning	Hydro is working with an engineering consultant to perform a condition assessment of the existing equipment in the Chicago Park PH to make recommendations for future repair or replacement. The project scope will be developed after reviewing this report in 2021.

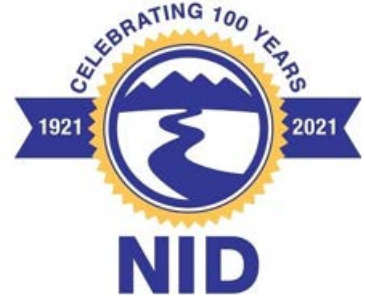
HYDROELECTRIC DEPARTMENT PROJECT STATUS

Priority	Project Manager		Facility Name	FATR#	Description	Status	Comments
10-2 - HYDRO POWERHOUSE IMPROV (\$1,925,000) 50112-52920							
13	NATHAN DROIVOLD	2020	Rollins Powerhouse Balance of Plant	2393	Install an expandable balance of plant to monitor critical plant systems such as excess vibration of the turbine and generator, temperature, and flow.	Design	Hydro has reviewed the 60% design package received in March and is expecting a 90% design package in April. The design will be completed in Q2 2021, and installation is scheduled for Q3 2021 during the annual outage.
14	NATHAN DROIVOLD	2021	Rollins PH Governor Replacement	2392	Replace worn governor and appurtenances.	Planning	Hydro to begin project scoping in 2021. Installation is scheduled for 2022.
15	NATHAN DROIVOLD	2020	Rollins Powerhouse Relay Protection Upgrade	2394	Replace aging relay protection system to improve protection of the powerhouse relay, transformer, and generator.	Planning	Hydro is reviewing draft project specifications developed by the engineering consultant. Once finalized, a bid package will be developed for the project by NID staff. The final bid package will be released in Q2 of 2021.
16	NATHAN DROIVOLD	2021	Dutch Flat #2 PH Cooling Water System Upgrades	2544	Install new instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components	Hold	Hydro will solicit proposals to complete the design of a new cooling water system in 2021. Installation is planned for 2022.
17	NATHAN DROIVOLD	2020	Dutch Flat #2 Powerhouse Fire Suppression System	2240	Designing, installing and commissioning a new CO2 fire suppression system for the Dutch Flat #2 Powerhouse.	Hold	Hydro has received a draft basis of design report from its consultant for a new fire suppression system at the Dutch Flat #2 Powerhouse. Hydro has reviewed and provided comments for revisions to the document. A final draft of the basis of design report is expected during Q1 2021.
18	NATHAN DROIVOLD	2020	Bowman Intertie	2354	Replace the existing Bowman Inter-tie SF6 breaker with a more environmentally friendly vacuum circuit breaker	Hold	Hydro will replace the existing SF6 breaker with a vacuum circuit breaker after completion of the oil circuit breaker replacement at Rollins PH (FATR# 2351).
19	NATHAN DROIVOLD	2021	Rollins PH Fire Protection System	2379	Provide fire protection system for Rollins Powerhouse (design, installation and commissioning).	Hold	Hydro to begin project scoping in 2021. Installation is scheduled for 2022.
20	NATHAN DROIVOLD	2021	Deer Creek PH Controls and Automation	2342	Install programmable logic controller and automate the Deer Creek Powerhouse.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.
21	NATHAN DROIVOLD	2021	Deer Creek PH Exciter Replacement	2395	Replace exciter & appurtenances.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.
22	NATHAN DROIVOLD	2021	Deer Creek PH Generator Breaker Replacement	2343	Replace the existing generator breaker with a generator breaker and cabinet to mitigate an arc flash safety hazard at the Deer Creek Powerhouse and improve reliability.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.
10-3 - HYDRO DAM & WATER IMPROV (\$2,660,000) 50112-52921							
01	MIN CHEN	2020	Scotts Flat Spillway Repair	2094	Scotts Flat Spillway Repair & Upgrades	Design	Model construction is nearly complete. FERC and DSOD approved the start of trial testing of the model which is currently underway. The final alternatives report including the preferred solution is expected later in 2021.
02	MIN CHEN	2019	Combie / Van Giessen Dam	20140 2	Dam stabilization, abutments protection against scouring, and water supply upgrade.	Hold	The final design report has been received and a preferred solution has been selected. Construction is planned for 2025-2026.
03	ADRIAN SCHNEIDER	2020	Gaging Station	2007/ 2360	Replace the damaged sections of the concrete lining on the upstream dam face to minimize leakage, modify the spillway training walls to prevent over topping, and construct a weir on the dam outlet to measure flow.	Construction	Construction specification and contract documents 90% complete. Requesting permit modifications from the Regional Water Quality Control Board and Department of Fish & Game. Obtaining proposals from environmental consulting firms for field monitoring and reporting. Construction start anticipated by August 2021.
10-4 - HYDRO LOWER DIV (\$100,000) 50112-52922							
01	NATHAN DROIVOLD	2020	Chicago Park Forebay Canal Liner Replacement	2511	Repair segments of the Chicago Park Canal where existing shotcrete liner needs replacement.	Hold	Hydro received a report from Engineering reviewing the findings of the September site visit and damage assessment with Hydro. Hydro and Engineering will hold scoping discussions and start the development of a design report with an alternatives analysis in Q1 2021.
02	NATHAN DROIVOLD	2021	Chicago Park Powerhouse Tailrace Repair	2551	Evaluate and address erosion concerns of the tailrace foundation.	Hold	Hydro received a report from Engineering reviewing the findings of the September site visit and damage assessment with Hydro. Hydro will hold scoping discussions and start the development of a design report with an alternatives analysis in Q1 2021.
03	NATHAN DROIVOLD	2021	Dutch Flat Canal Liner Replacement	2545	Repair segments of the Dutch Flat Canal where existing shotcrete liner needs replacement.	Hold	Hydro will solicit a condition assessment of the existing liner system in 2021 in order to plan for future repairs.

HYDROELECTRIC DEPARTMENT PROJECT STATUS

Priority	Project Manager		Facility Name	FATR#	Description	Status	Comments
10-5 - HYDRO UPPER DIV (\$300,000) 50112-52923							
01	DOUGLAS RODERICK	2021	Rucker Creek Spillgate	2339	Replace existing radial gate at Rucker Creek Diversion with an overshot gate to improve personnel safety and operational performance.	Design	Hydro and Engineering made a site visit to discuss the project scope and proposed approach in December. Engineering will work with Hydro to develop specifications for the new gate and a preliminary construction plan ahead of contacting gate manufacturer's for quotes.
02	PHILIP NEDVED	2021	Fall Creek Flume Upgrades	2404	Bowman-Spaulding Canal Improvements - Make structural enhancements to improve the reliability of the Fall Creek Flume.	Construction	Hydro staff have prepared a bill of materials for the project and will start the procurement process. Installation is planned to start in the summer of 2021 during the annual outage for the canal.
03	MIN CHEN	2020	Texas Creek Flume Repairs	2525	Repairs along the Bowman-Spaulding Canal below the Texas Creek Diversion.	Design	Work is being planned to repair the exposed weathered foundation bedrock and adjacent ground that has been subject to the erosive impact of the spilling water. The design package was submitted to FERC for approval. Construction is planned for Q3 2021.
04	NATHAN DROIVOLD	2020	Wilson Creek Diversion Rehab	2546	Repair and modify the Wilson Creek Diversion Dam structure to ensure diverted flows are measurable and accurate.	Planning	Hydro has requested Engineering assist to prepare a design for a temporary solution to improve flow measurement and diversion for the 2021-22 winter season. A more permanent solution will be developed for future implementation.
10-6 - HYRDO SCADA/COMMS (\$200,000) 50112-52924							
01	KEANE SOMMERS	2022	Hydro Office Radio Tower	2405	Construct a new hydroelectric field office radio tower to improve communication of critical infrastructure.	Planning	Hydro has contracted with a radio tower design firm to complete a feasibility study and preliminary design of the new radio tower to be located at the site of the future Hydro Office. LOS survey will be conducted in April.

Water Operations Department



Activities Report

New Treated Water Accounts

New Raw Water Sales in Miners Inches

Raw Water Sales Changes Miners Inches

Scheduled Treated Water Outages

Emergency Treated Water Outages

Scheduled Raw Water Outages

Water Operations Department

Activities Report

Distribution

- Irrigation Season Startup
 - High flows due to dry conditions
- South Yuba Canal Outage
 - Nevada County flows limited
 - Ran DS Ext. & Siphon Ln Pumps
- Irrigation boxes will be locked after initial set
- 40 calls a day over 500 miles – running thin
- Large # requests for increased raw water
- Prepping for PG&E emergency outage on Edgewood system

Water Treatment

- March treated water production = 144.7 M.G.
- Cleaned storage tanks
 - 2 scheduled for paint
- Working on 11 annual state reports
- Developing Risk Resiliency Plan for EPA
- Recreation water systems

Water Resources

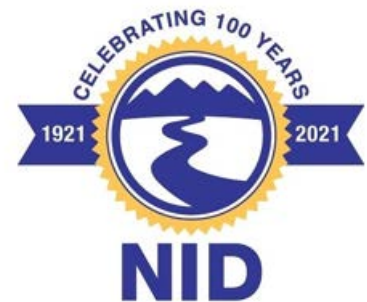
- Continued updating water supply forecast
- Pre 1914 Water right use reporting to SWRCB
- Gathering Urban Water Management Plan data
- Hydrographers set up 204 gaging stations prior to irrigation season

Customer Service

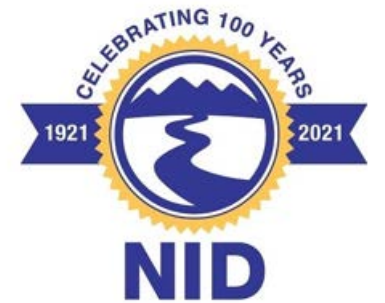
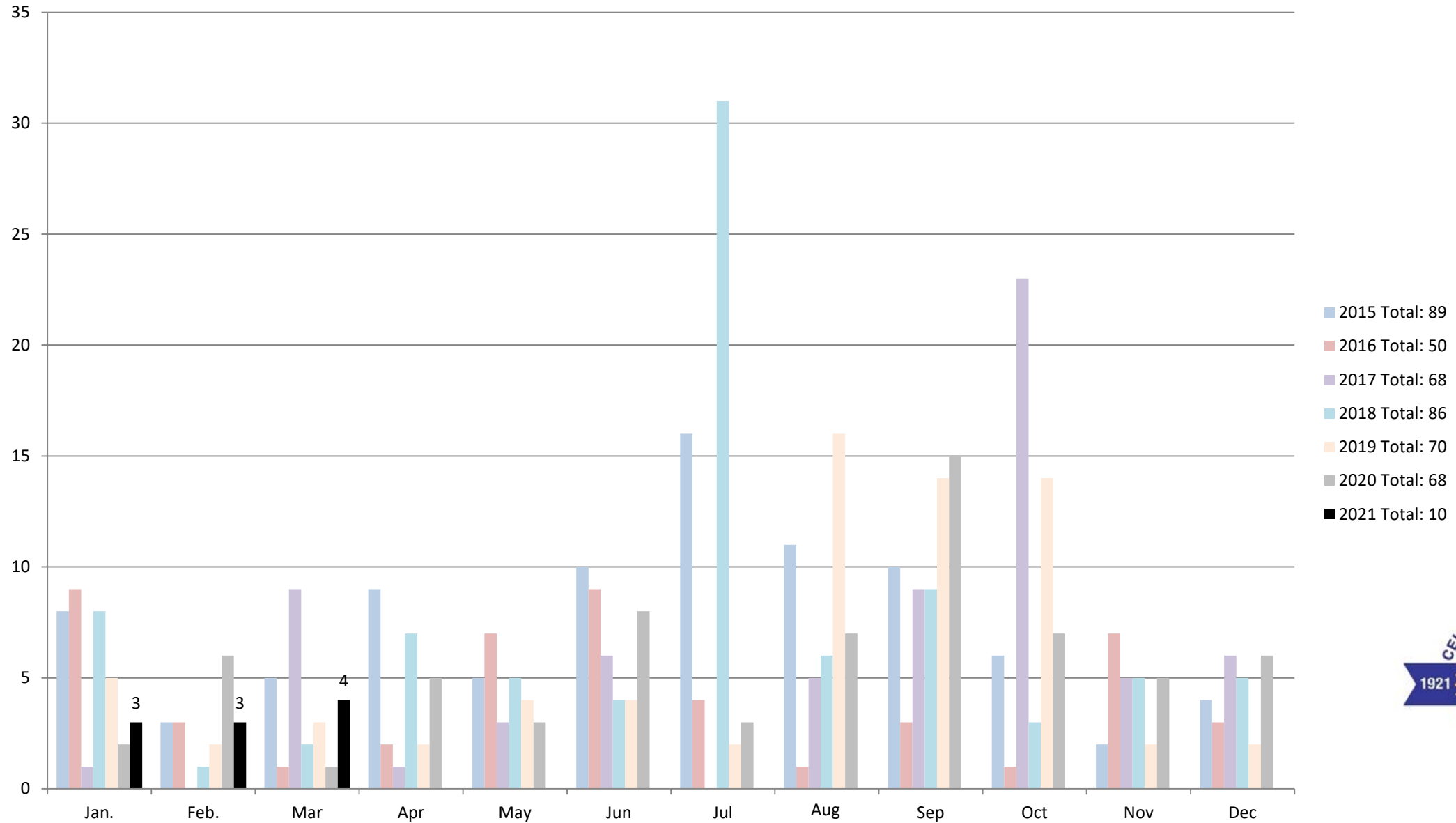
- Received 3,380 calls and 261 emails in May
 - Averaging 420 daily calls in last week
- 2,942 online transactions in May totaling \$478k
- 54 customers utilized LIRA in Feb.
- Updating fee schedules
- Customer Service Techs. replaced 59 meters & 385 endpoints

Electrical

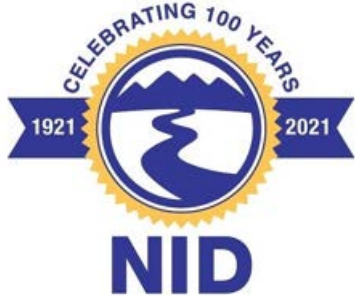
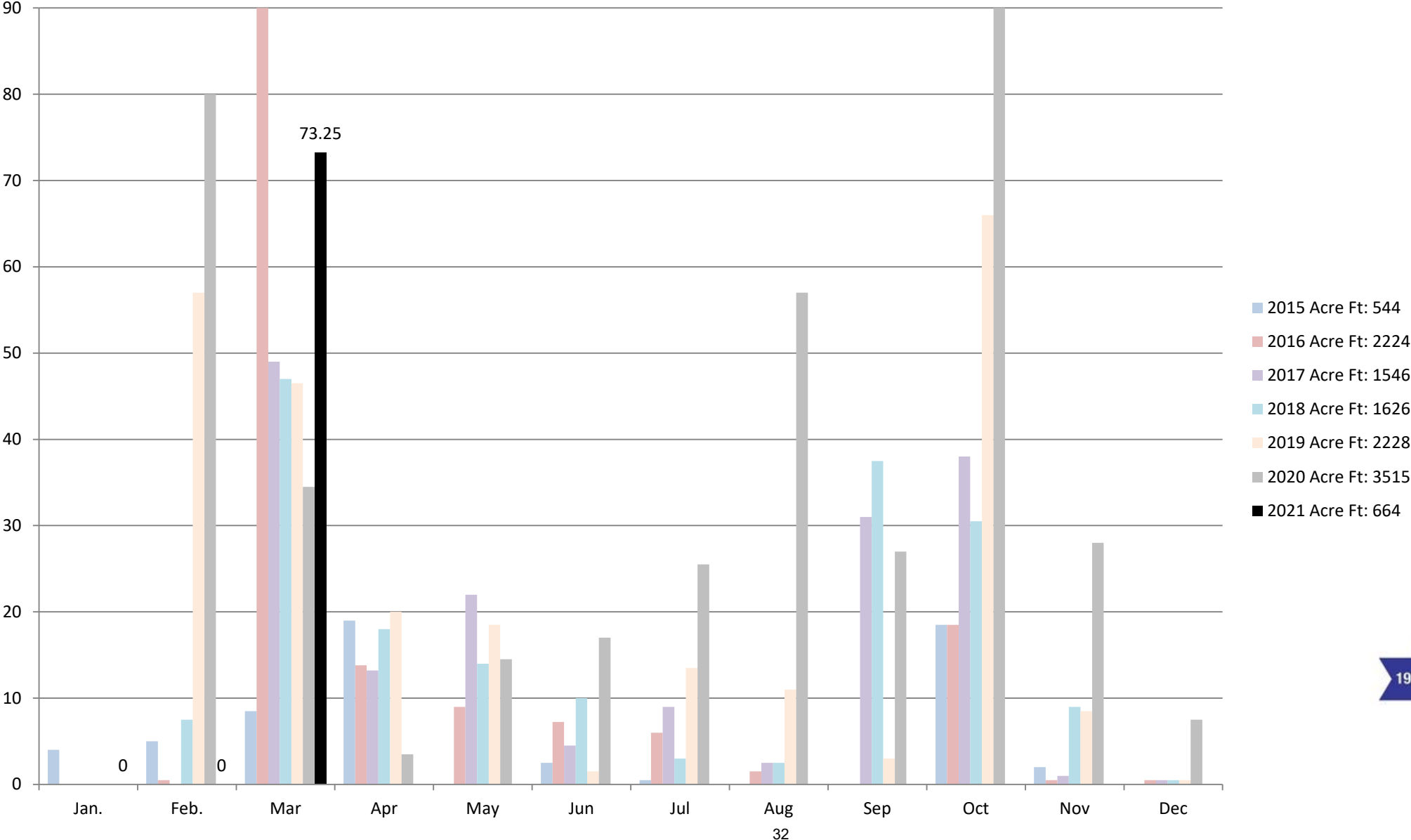
- Calibrated all level transmitters & flow mtrs.
- Rebuilt 4 treated distribution pumps
- Setting up electrical @ Bear Valley Yard



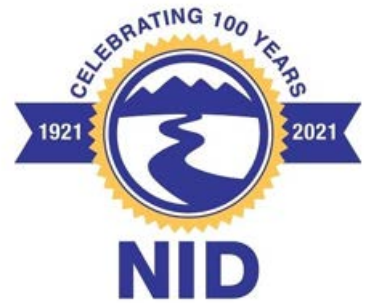
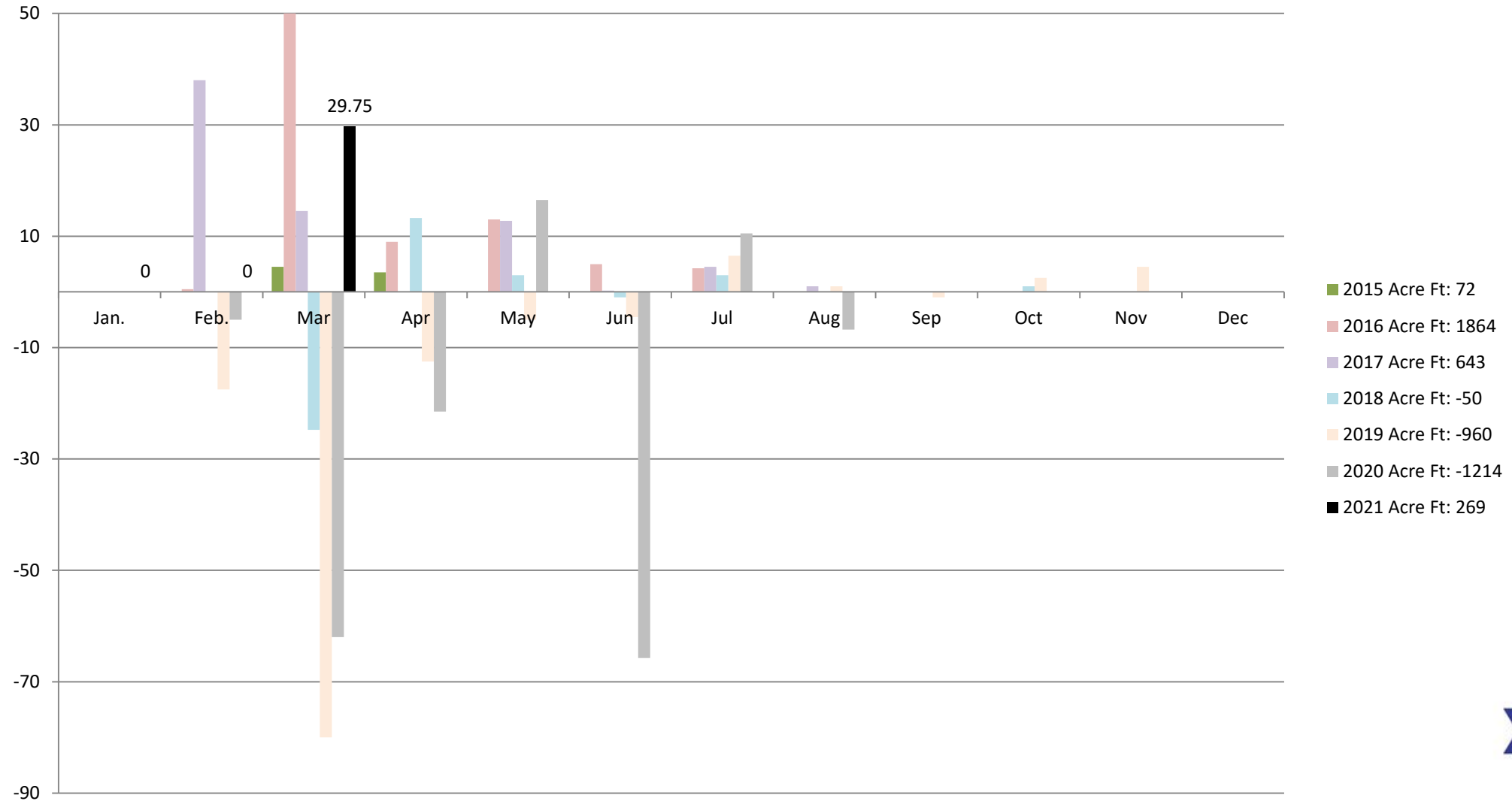
New Treated Water Accounts



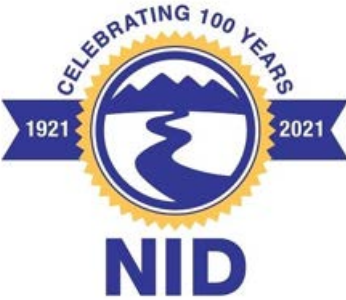
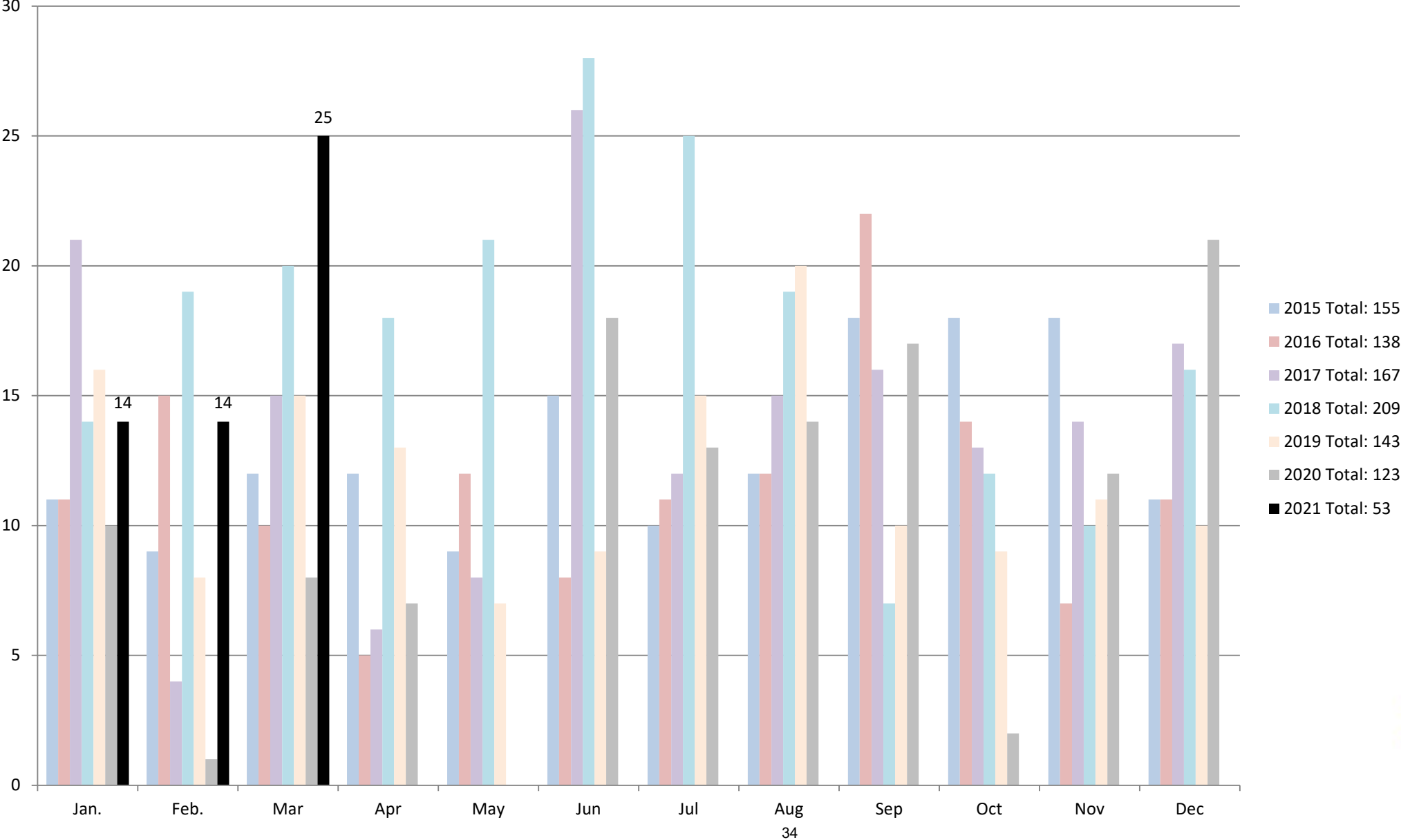
New Raw Water Sales in Miners Inches



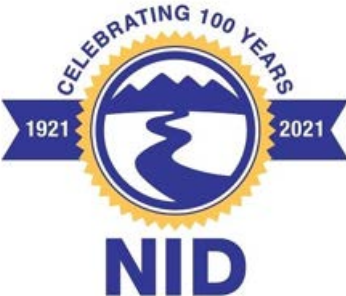
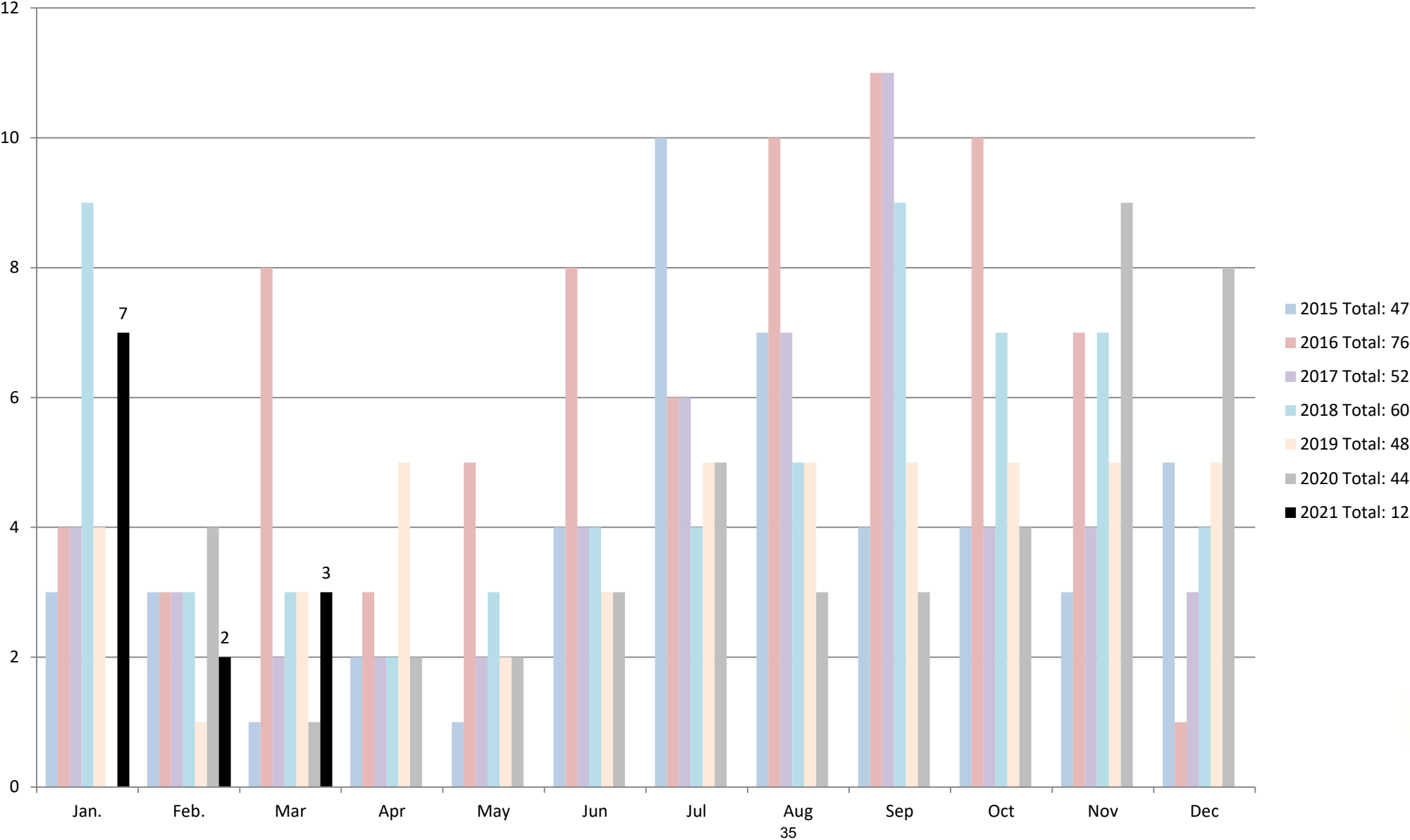
Raw Water Sales Changes Miners Inches



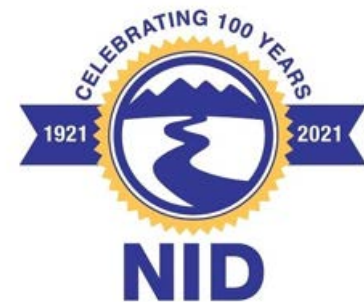
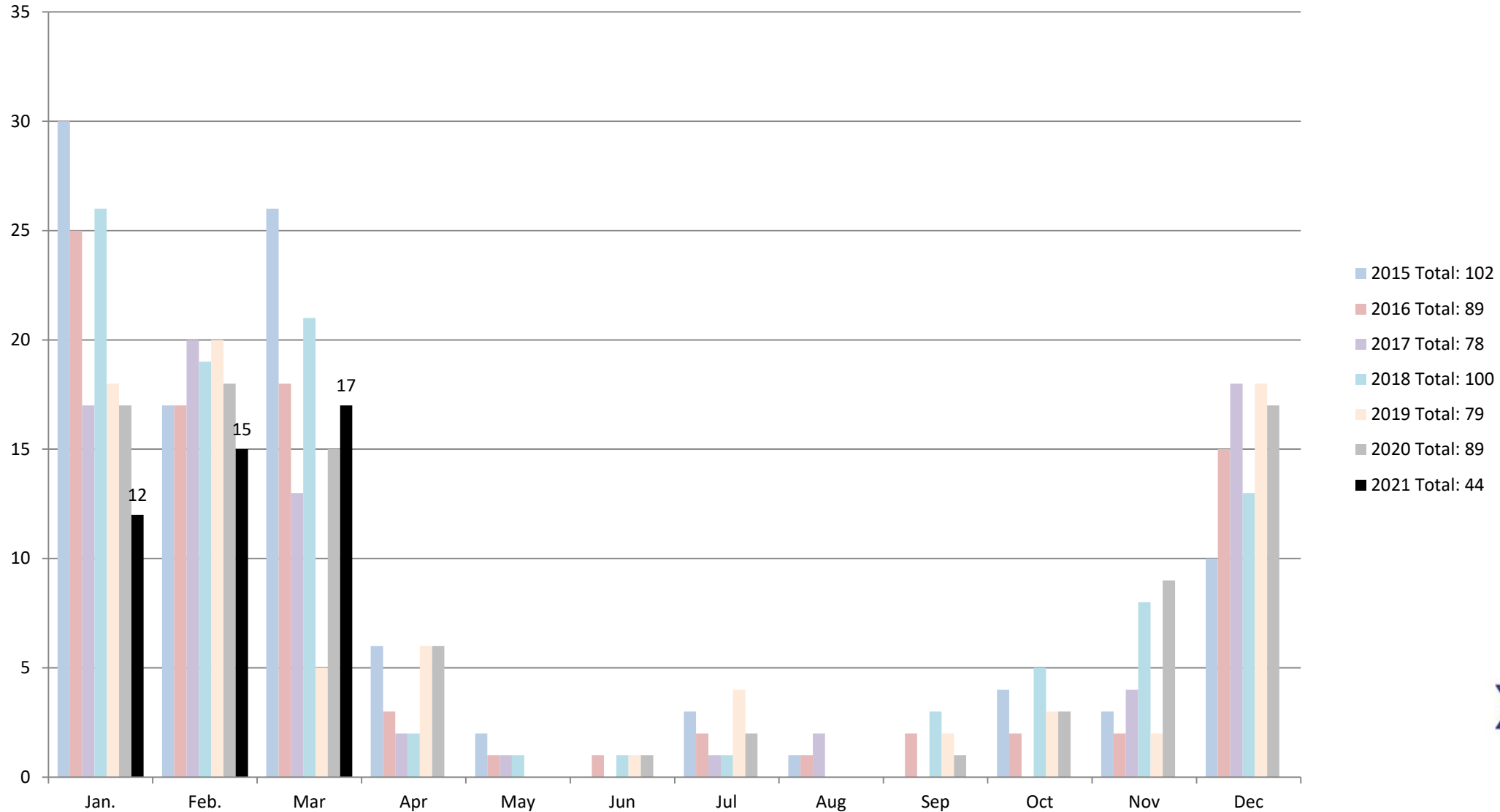
Scheduled Treated Water Outages



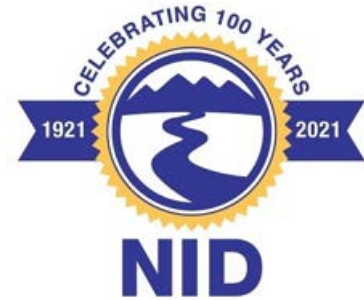
Emergency Treated Water Outages



Scheduled Raw Water Outages



Maintenance Department



Activities Report

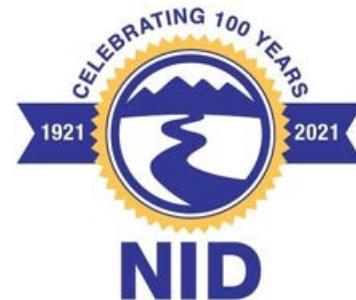
March 15, 2021 – April 18, 2021

Maintenance Department Activities Report

Treated Water

Summary of Select “Routine” Work

CATEGORY / TASK DESCRIPTION	TOTAL #
TREATED WATER	
“EMERGENCY <u>CALL OUTS</u> ” – HYDRANTS / SERVICE LINES / WATER MAINS	1
HYDRANTS – NEW / REPAIRED / REPLACED	2
METERS – NEW / REMOVED / REPAIRED / REPLACED	21
METER REPLACEMENT PROGRAM <i>(starts in April and runs to year-end)</i>	82
SAMPLE STATIONS – NEW / REPAIRED / REPLACED	1
SERVICE LINES – NEW / REPAIRED / REPLACED	6
VALVES / DEVICES – ARV, BOV, DCV, GATE , PRV, RP, ETC.	28
WATER MAINS – REPAIRED / REPLACED	0

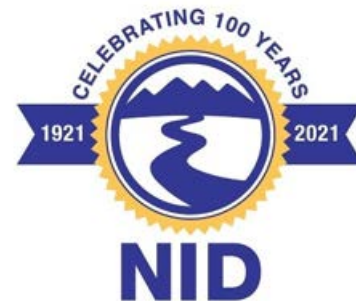


Maintenance Department Activities Report

Raw Water

Summary of Select “Routine” Work

CATEGORY / TASK DESCRIPTION	TOTAL #
RAW WATER	
CANALS / BERMS – LEAKS / REPAIRS	14
CANALS / BERMS – CLEANED <i>(20/21 official “cleaning season” now over until October)</i>	31.75 mi.
CANALS / CONTROL STRUCTURES – INSTALLED / REPAIRED / REPLACED	3
CULVERTS – NEW / REPLACED / REMOVED	1
RAW WATER BOXES – NEW / RELOCATED / REMOVED / REPLACED	24
TREES – REMOVED	6
ACCESS ROADS – MAINTAINED	1

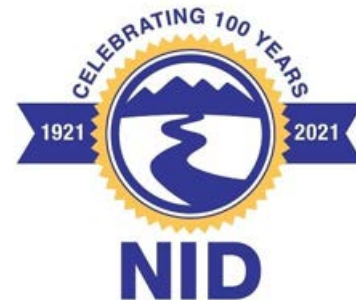


Maintenance Department Activities Report

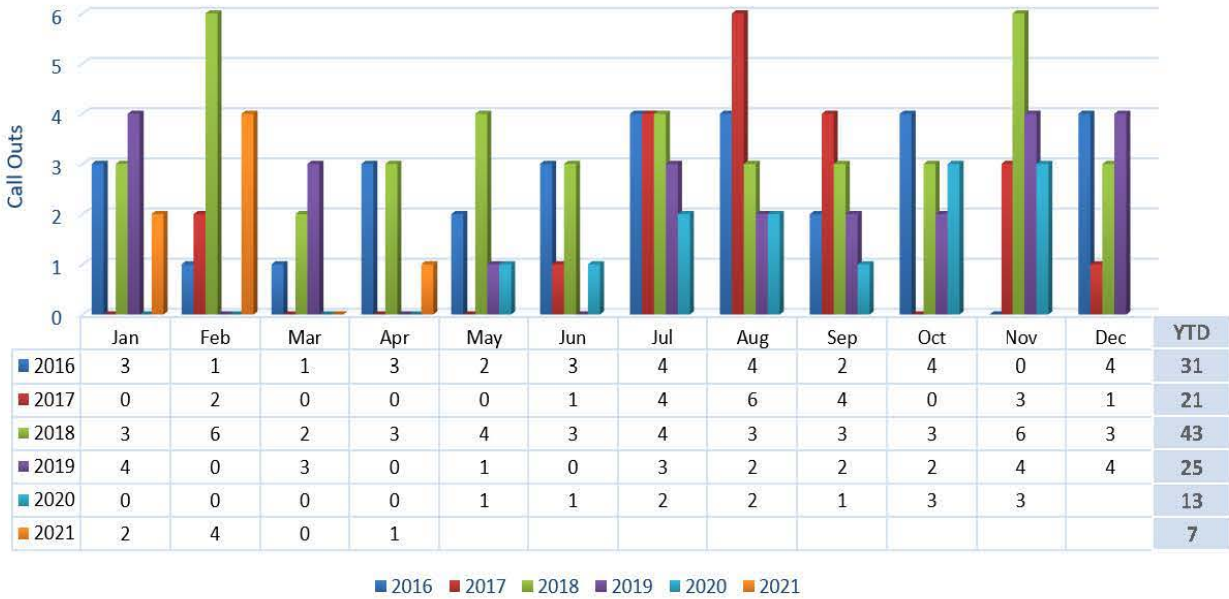
Fleet

Summary of Select “Routine” Work

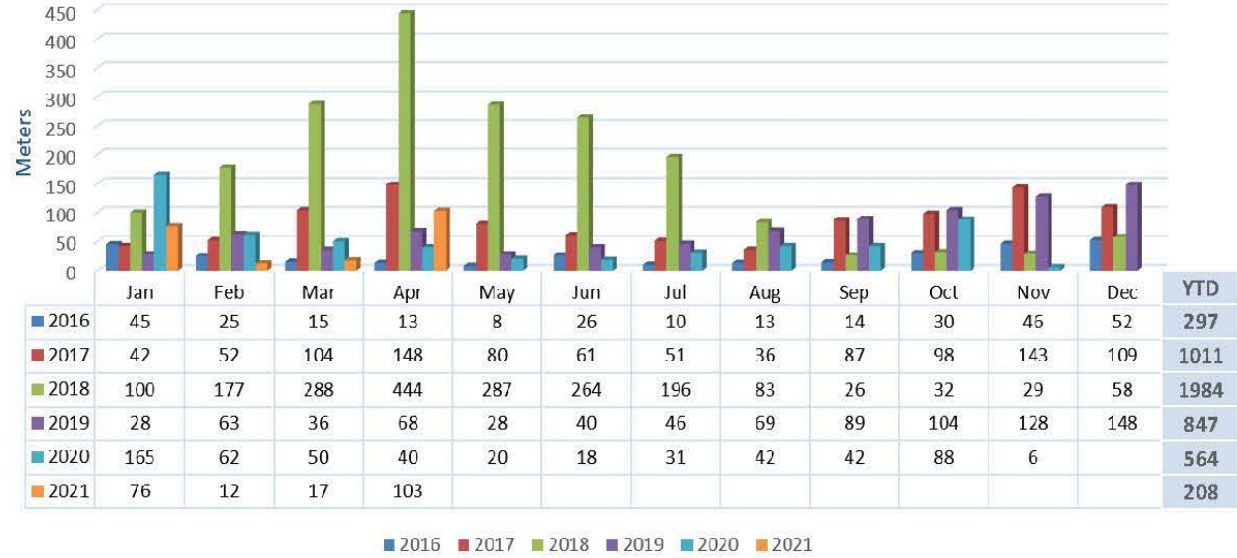
CATEGORY / TASK DESCRIPTION	TOTAL #
FLEET	
TRUCKS / VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	48
TRUCKS / VEHICLES – DAMAGE REPAIRS / LARGE SCALE REPAIRS	0
TRUCKS / VEHICLES – B.I.T. INSPECTIONS	7
TRUCKS / VEHICLES – RETROFITS	4
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	12
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	2



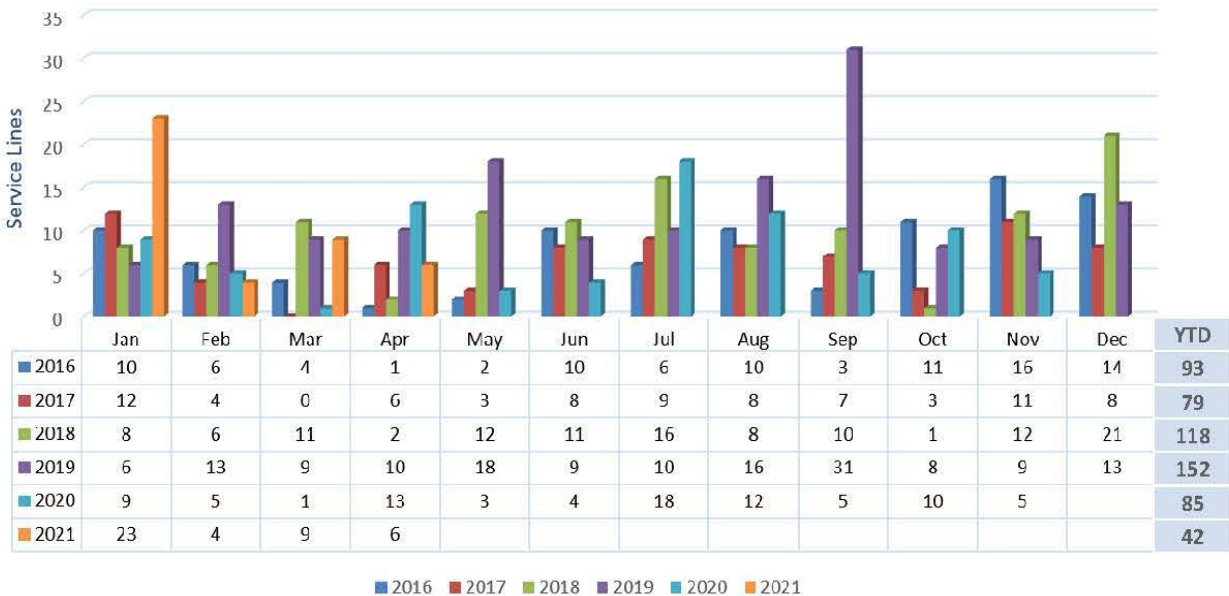
Emergency "Call Outs"



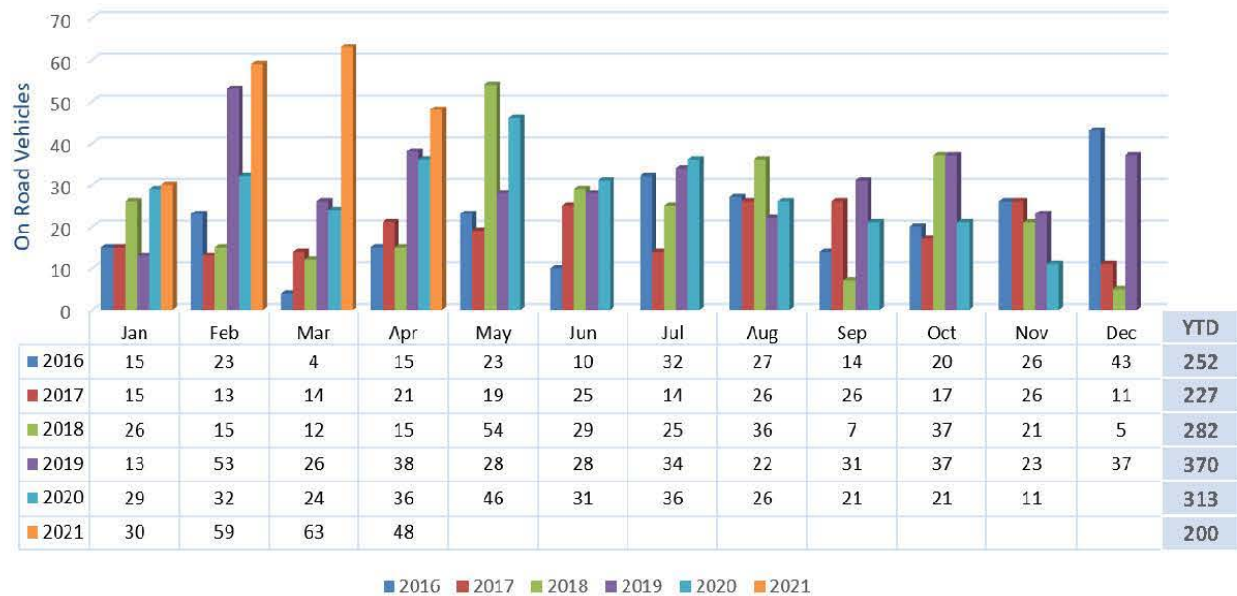
Meters - New / Removed / Repaired / Replaced (includes Meter Replacement Program)



Service Lines - New / Repaired / Replaced



On-Road Vehicles - Service / Repairs



Maintenance Department Activities Report

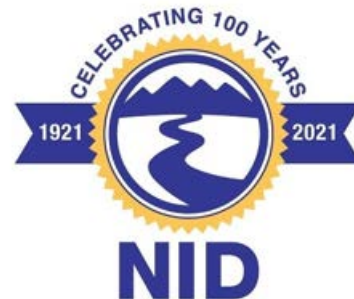
All Crews

Canal Maintenance / Placer

- Completed 2020/2021 canal cleaning schedule, and installations of raw water delivery boxes and (check and concrete) structures prior to 2021 irrigation season
- Brushed canal berms in both Nevada and Placer counties
- Completed backfilling and armoring of new inlet structure at Alta Hill Reservoir (pipe to feed Allison Ranch Canal)
- Encased 60 feet of Snow Mountain Canal (temporary, due to ongoing leak)
- Installed seasonal diversion dams for 2021 irrigation season at Auburn Ravine Natural (Hemphill Canal) and Doty Ravine Natural (Doty South Canal)
- Upgraded/encased Gold Blossom Canal (above “Fire House Siphon”) with 120 feet of 18-inch HDPE pipe
- Repaired canal berms along sections of Doty North, Dudley and Lincoln Canals
- Repaired fence at Edgewood Reservoir
- Placer Crew began supplementing “treated water” work in North Auburn and Lake of the Pines Systems (April-October)



Auburn Ravine Natural /
Hemphill Canal Diversion Dam
Placer Crew



All Crews (cont'd)

Construction

- Ridge Road Pipeline Replacement Project – Installed 1,293 feet of 20-inch ductile iron pipe along Ride Road (65% complete)
- Removed trees at Banner Taylor Reservoir
- Phase 2 of Lidster Avenue and Cypress Hill Drive Unit 1 Waterline Replacement Project – JB Bostick Company 95% complete with final asphalt paving; striping of stop bar and crosswalk locations and District acceptance of work remain.

Facilities Maintenance

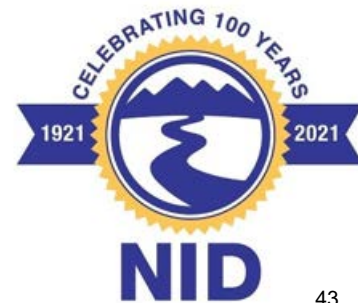
- Remodeled Mechanic Shop Office (95% complete); window treatments remain.
- Painted Executive Offices, including furniture movement (100% complete)
- Continued buildings and grounds maintenance at various District sites

Service

- Continued systematic replacement of Air Release Valves (ARVs)
- Continued repairs and new installations of meters, service lines, water mains, fire hydrants and valves
- Began 2021 “Meter Replacement Program” in North Auburn and Lake of the Pines Systems
- Performed final “patch paving” over road areas that were excavated for needed infrastructure repairs/installations (Lake Wildwood System)



Ridge Road Pipeline Replacement Construction Crew



All Crews (cont'd)

South Yuba Canal

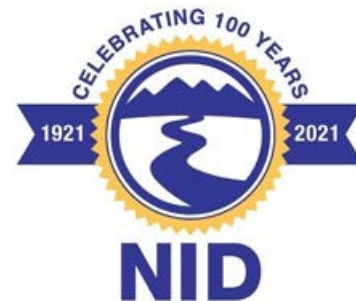
- Participated in pre-flume system outage staging and annual lockout-tagout (LOTO) and helicopter training with PG&E Hydro Crew
- Built material loads and tools to fly from Zeibrite Road (Bear Valley) to various South Yuba Canal repair locations
- Worked with PG&E's Hydro Crew on box flume and Lennon flume repairs (below SR/ Hwy 20 and Cape Horn helicopter pad)
- Assisted Canal Maintenance Crew with brushing and ongoing projects

Vegetation Control

- 40 miles of aquatic applications (began 2021 Aquatic Weed Control Schedule)
- 92 miles of terrestrial applications
- 118 miles of pre-emergent applications
- Other pre-emergent applications for NID Hydro: 5 powerhouses and 4 dam sites
- Set 15 application sites for NID Hydro (eliminating applications by outside contractor)
- Soils testing for Copper residual – Camp Far West, Chicago Park East and West, Lincoln and Doty North Canals; testing dry canals, different elevations, canals and berms (last tested 3 years ago; will perform annually starting April 2021)



South Yuba Canal
Flume Repair
SYC Crew



All Crews (cont'd)

Welders

- Various welding and fabrications for all NID departments – Handrails and boat ramp repairs for Recreation; weir blades and various treatment plant site repairs and upgrades for Operations; raw water treatment and aluminum distribution box repairs for Vegetation Control; pipe angle kickers, channels, head gates and service manifolds for Maintenance; and equipment/vehicle repairs and retrofits for Mechanic Shop.

Other Select Crew Photos



Ridge Road Pipeline Replacement
Construction Crew



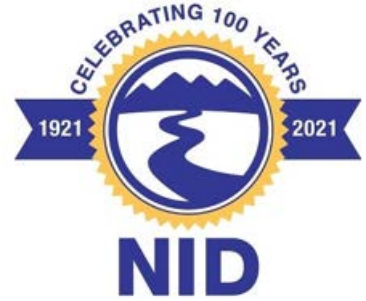
Auburn Ravine Natural / Hemphill
Canal Diversion Dam
Placer Crew



Snow Mountain Canal Encasement
Canal Maintenance Crew



Recreation Department



Campground Activities Report:
Scotts Flat, Orchard Springs, Long Ravine,
Peninsula, Greenhorn, Combie, Jackson Meadows and
Bowman Corridor

Activities Report

- With the warm weather Scotts Flat, Orchard Springs, Long Ravine and Peninsula Campgrounds are busy with campers, day-users and boaters.
- Recruitment for summer staff has begun for all campgrounds.
- CAL FIRE CFIP Grant tree work at Orchard Springs and Long Ravine is moving along. Due to heavy mastication work Long Ravine was closed for camping April 5 – 13 and areas at Orchard were closed.
- Kevin Whitlock, Under the Trees, is in the process of identifying hazard trees and limbs in all the campgrounds.
- Group campgrounds and campsites are still closed due to the current State and County COVID-19 guidelines. With the new information from the State looks like we should be able to open June 15, 2021.

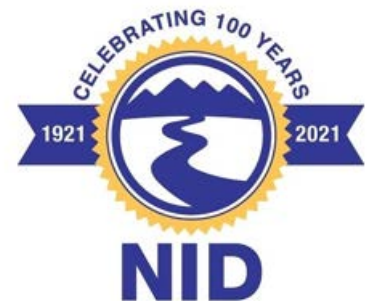
Scotts Flat Campground

Projects in Progress or Completed

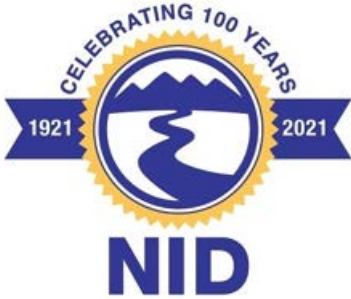
- Added railing to the new retaining wall and rock around the marina store
- Building picnic tables

Future Projects

- Upgrade the play area



Finished Scotts Flat Retaining Wall and Railing



Orchard Springs Campground

Projects in Progress or Completed

- Chicago Park School held their track at the campground
- Boat slips have been set up for the season

Future Projects

- Order picnic tables and umbrellas for the store picnic area
- Install a shade structure over the picnic and play area

Long Ravine Campground

Projects in Progress or Completed

- Repaired walkway down to boat slips
- Created a picnic area above the boat slips
- Boat slips have been set up for the season

Future Projects

- Add sand to the day use/swim area

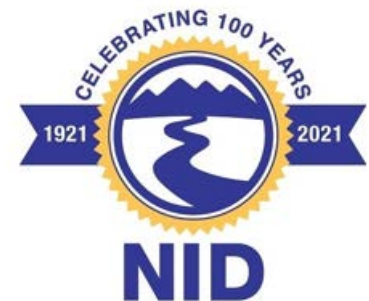
Peninsula Campground

Projects in Progress or Completed

- Massive campground cleanup
- Campground opened for the season April 16th

Future Projects

- Creating a day-use/swim area



Chicago Park School Track Meet at Orchard Springs - Seven School Districts



Combie Reservoir

Projects in Progress or Completed

- Yearly dock bills and quagga forms will be sent out the end of April

Future Projects

- Staff presence on the lake during summer months to help educate on lake/reservoir rules

Greenhorn Campground

Projects in Progress or Completed

- Staff is working with the Liserra's (concessionaire) to replace the 40+ year old sewer pumps

Future Projects

- Continued team approach to issues

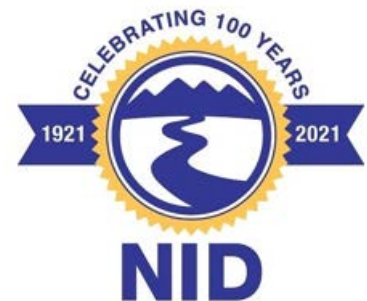
Jackson Meadows Campgrounds and Bowman Corridor Camping

Projects in Progress or Completed

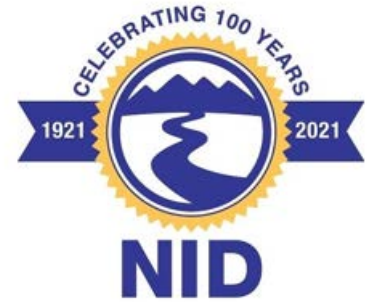
- Upper Division closed since November 1st, 2020

Future Projects

- Pre-season hazard tree work
- Install gates at Aspen and Woodcamp day use areas



Hydroelectric Department



Reports: Generation, Availability & Outage
Inspections: Powerhouses, Dams & Linear Facilities

Generation Report

Powerhouse	Average Generation	Current Generation
Chicago Park	12,183	3,045
Dutch Flat #2	8,474	3,707
Rollins	6,267	2,165
Bowman	911	96
Combie North	128	0
Combie South	772	172
Scotts Flat	365	0
Total	29,100	9,185

Report Description:

This report presents the total megawatt-hours (MWh) generated per powerhouse for the previous month. Average Generation is based on the monthly generation from the previous five years.

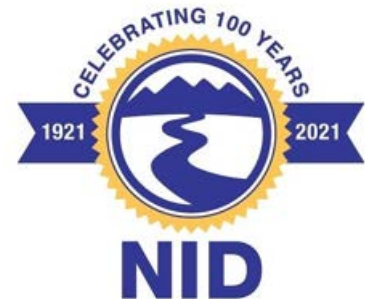
Context:

Powerhouses Combie North, Combie South and Scotts Flat create revenue based on MWh produced. Powerhouses Chicago Park, Dutch Flat #2, Rollins and Bowman generation is provided for informational purposes.

Discussion:

Generation is well below historic averages due to the dry conditions experienced during the past winter.

Note: Data is preliminary and subject to verification



Availability Report

Powerhouse	Budgeted Availability	Actual Availability
Chicago Park	94.2%	100%
Dutch Flat #2	94.1%	95.2%
Rollins	94.9%	100%
Bowman	92.0%	99.8%

Report Description:

This report presents the total percentage of time a powerhouse is available to generate during the given month.

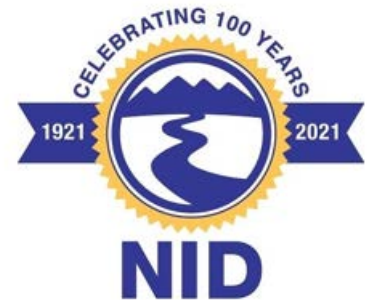
Context:

Powerhouses Chicago Park, Dutch Flat #2, Rollins, and Bowman produce revenue based on the percentage (%) of time the unit is available to generate. Budgeted availability shown was used to develop revenue forecasts. Actual availability shown is based on the hours the powerhouse ran minus any outages that are not excused by the terms of the Power Purchase Agreement (PPA) and is the basis of payment calculation.

Discussion:

All powerhouses were above their budgeted availability for the month. Details of outages that impacted availability are shown on the next slide.

Note: Data is preliminary and subject to verification



Outage Report

Powerhouse	Date	Time Out	Duration (HH:MM)	Cause
Bowman	03/24/21	13:55	0:28	Software update
Chicago Park	03/10/21	07:30	9:04	Fire System Integration
	03/31/21	07:30	5:15	Routine Testing
Dutch Flat #2	03/24/21	04:04	33:54	Draft Tube Repairs
Rollins	03/14/21	16:46	1:53	60kV Line Relay
	03/23/21	08:05	7:25	Routine Testing
			57:59	Total

Report Description:

This report presents a list of each time a powerhouse has an outage caused by something other than a lack of water and basic information about the outage.

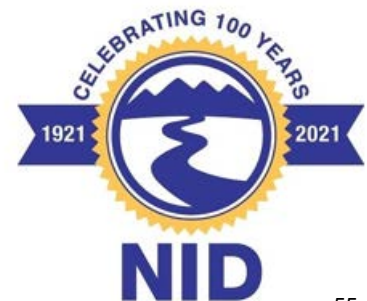
Context:

Minimizing the number of outages and their length is key to maximizing revenue from the powerhouses.

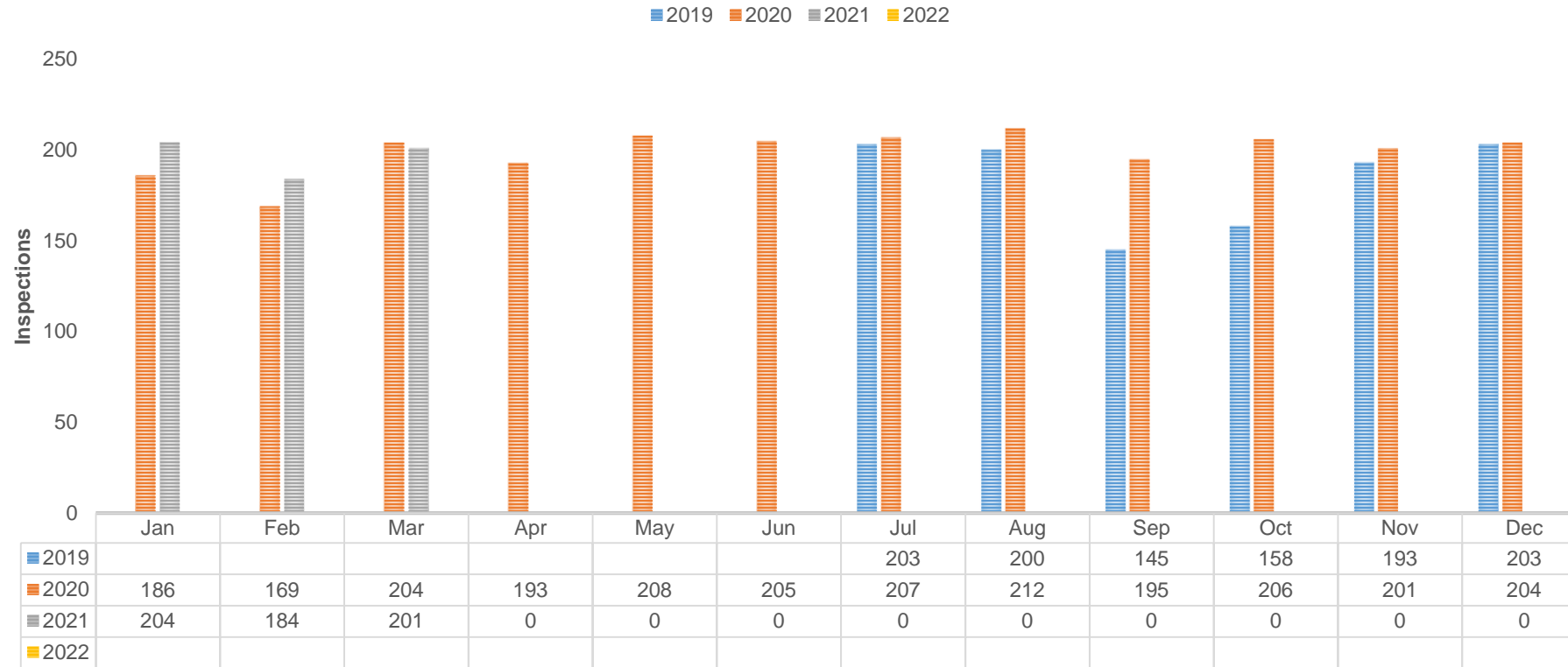
Discussion:

The extended outage at Dutch Flat #2 was caused by repairs to the draft tube. Further repairs may be needed during the annual outage.

Note: Data is preliminary and subject to verification



DAILY POWERHOUSE INSPECTIONS



Report Description:

This report presents the total number of powerhouse inspections completed. The total number of inspections possible is presented below.

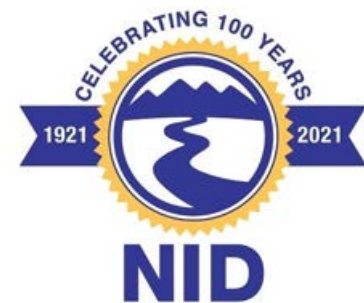
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Possible Inspections	217	196	217	210	217	210	217	217	210	217	210	217

Context

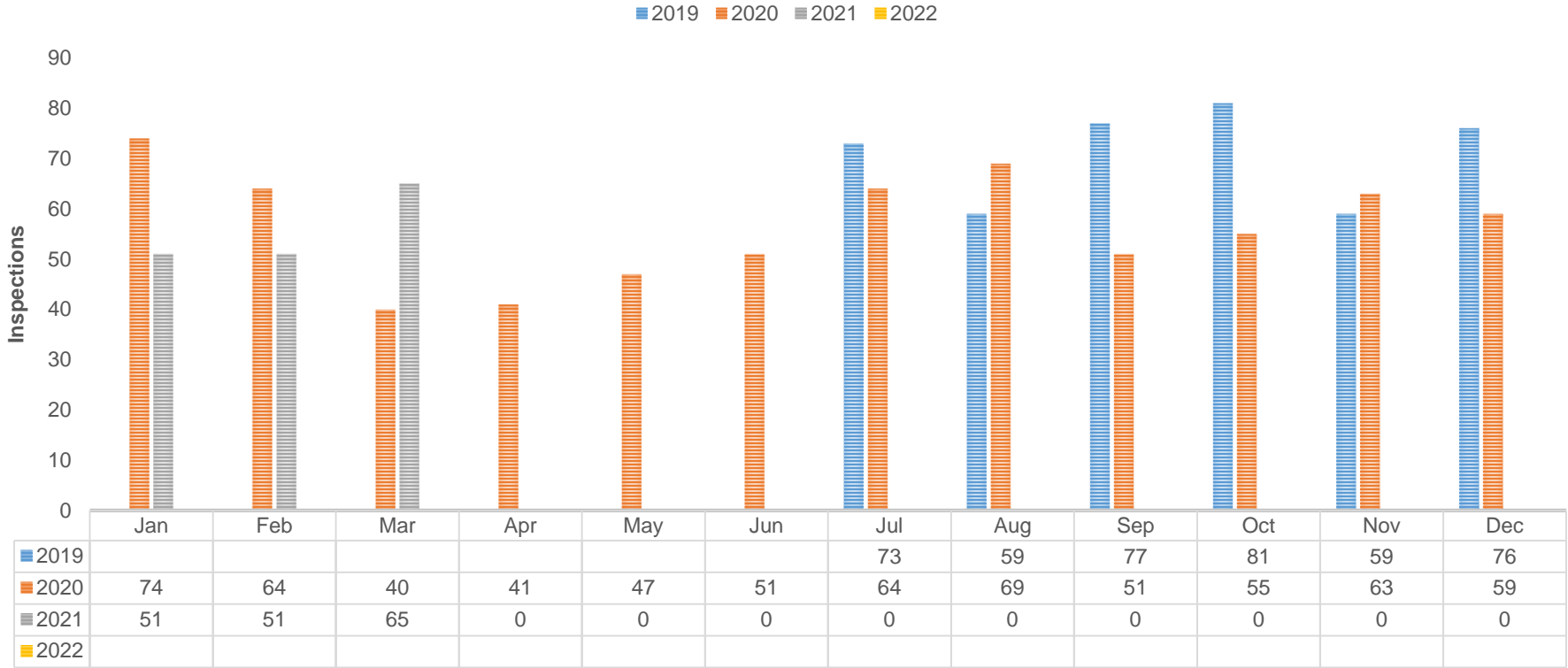
Routine inspection of powerhouses is key to identifying issues that may impact reliability of operations causing reduced generation or availability. The Department’s goal is to visit every powerhouse on a daily basis.

Discussion:

The number of powerhouse inspections is consistent with historic averages.



WEEKLY DAM INSPECTIONS

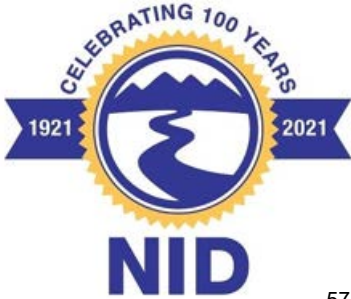


Report Description:

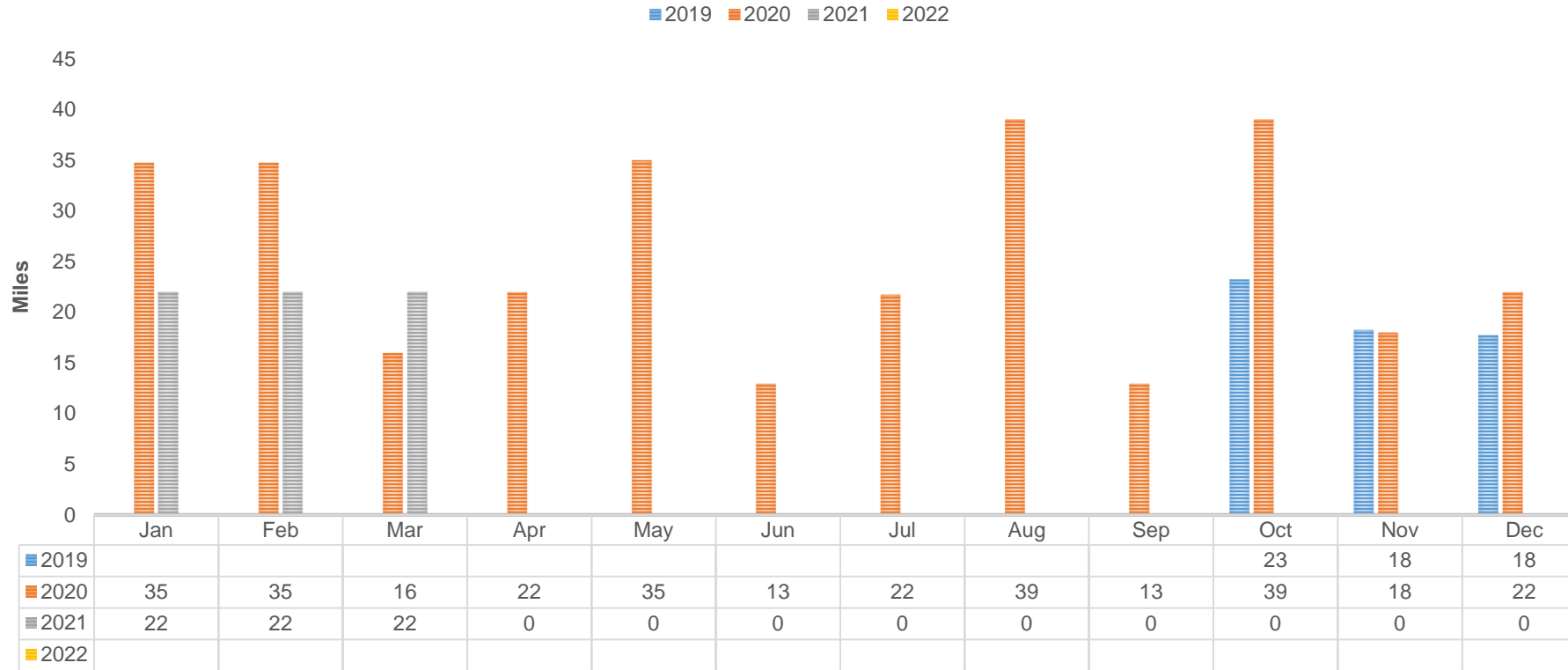
This report presents the total number of dam inspections completed during the prior month. The total number of possible inspections is 84.

Context
 Routine inspection of dams is key to identifying and correcting potential issues. The District’s Owner’s Dam Safety Program specifies that NID Hydroelectric Operations is to “perform safety inspections of District dams on a weekly (visual) and monthly (detailed) basis when weather conditions permit.”

Discussion:
 The number of inspections in March increased year over year because snow is limited in the Upper Division allowing for easier access.



LINEAR FACILITY INSPECTIONS



Report Description:

This report presents the length (miles) of linear facilities inspected at least one time during the previous month. The total length of the facilities considered is 39 miles as shown in the table.

Context

Routine inspection of linear facilities is key to identifying and correcting potential issues. The Department’s goal is to inspect all linear facilities at least monthly.

Discussion

The Department has stopped inspecting the South Yuba and Chalk Bluff Canals on a regular basis until the transfer of those canals to NID is closer in time.

Linear Facilities	Miles Per Facility
Dutch Flat Flume	4.5
Chicago Park Flume	4
South Yuba Canal	14
Chalk Bluff	3
Bowman 60kV Poles	9
Scotts Flat 12kV Poles	0.25
Bowman-Spaulding Canal Lower	2
Bowman-Spaulding Canal Middle	1.25
Bowman-Spaulding Canal Upper	1
Total Possible Miles each Month	39

