



STAFF REPORT

Meeting Type: Board of Directors
Title: General Manager's Report February 2024
Through: Ben Horenstein, General Manager
Meeting Date: March 19, 2024

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Approve Report

SUMMARY:

A. HIGHLIGHTS:

- The daily average net production for the month of February 2024 was 13.6 MGD compared to 13.7 MGD for the month of February 2023. Typical usage for February is 16.7 MGD.
- The daily average flow from Sonoma County Water Agency for the month of February 2024 was 0.2 MGD compared to 2.0 MGD for the month of February 2023.
- Staff have received and reviewed the Phoenix-Bon Tempe draft initial study/mitigated negative declaration. Staff will be bringing this item to the Board next month to adopt the IS/MND which will allow staff to file the document ensuring the project stays on schedule for construction starting August 2024.
- Staff received notification from the California Office of Emergency Services that the Building Resilient Infrastructure in Communities grant application that was submitted by the District for the San Geronimo Treatment Plant Clarifiers has been moved forward to FEMA for grant funding consideration. If awarded, this grant would cover 75% of the project cost with a District 25% match providing the option of bond funding other large capital projects.
- Staff kicked off the design of the Soulajule Pipeline project in February which will install approximately 2.5 miles of 36-inch pipe connecting Soulajule Reservoir and Nicasio Reservoir. This project is in support of the Soulajule Electrification project and aligns with the Districts conveyance and storage projects that staff are currently working on.
- Staff awarded the Redwood Drive pipeline replacement project which will replace approximately 4,300 feet of pipe of fire flow and seismically deficient pipe with welded steel pipe improving fire flow capacity to the neighborhood and water system resiliency and reliability.

- Staff renewed a leaking 35' plastic District Service Lateral located on Second Street in San Rafael that serves a business on B Street in San Rafael. The leaking service lateral spanned three lanes of traffic. Adhering to the City of San Rafael daytime work permitting requirements only allowing one of the three lanes of traffic to be closed at a time for this job, staff successfully renewed the 35' plastic lateral with copper in three phases totaling three days of work. The execution of this job provided a valuable experience for staff having to utilize three different traffic control plans, required some hand digging near a high pressure gas main and performing work in a high density traffic zone.
- Staff performed annual water quality flushing of the District's water mains. This year the Department flushed areas in Corte Madera, Larkspur, Belvedere and Tiburon. These areas represent approximately 20% of the District service area and essentially "cleans" areas of our water system. Over the course of eight days, teams of two completed an assigned procedure consisting of flushing 18 facilities per team per day. The facilities flushed include hydrants and blow offs.
- Staff updated the graphics on SCADA distribution system screens. The SCADA screens are a visual representation of the layout of each system. The Distribution System Operators rely upon these screens to operate the distribution system.
- Staff completed the testing of 6 fire lines under construction. The testing of the insulators separating the private piping from the District owned piping ensures that a short does not develop and preserves the life span of the District owned pipe.
- A winter storm on 2/4/24 knocked out power to several areas of Marin. Pumps at Marin Terrace, Oak Manor first and second, Tam Woods first and second, Highland Vista and Conifer were without power for over 48 hours. Staff used towable generators as backup power to start the pump and fill the associated water tanks so that the communities which they served were never at a risk of being without water.
- The District continued implementation of Year 5 of the Biodiversity Fire, & Fuels Integrated Plan through February 2024 with multiple Fuels Reduction and Invasive Weed Abatement Projects across the Watershed. The 55 acre Forest Fuel Reduction project at East Potrero Meadow is ongoing, and is supported by weekly Nesting Bird Surveys from Point Blue. Multiple Broom projects totaling roughly 190 acres were completed near the Phoenix Lake and Sky Oaks areas of the watershed. The district staff continue to make incremental progress on the Shafter Grade Roadside mowing project and Taylor Trail Pile Burns as staff and equipment time allow. Lastly the district continues to coordinate with CCNB on a Forestry Corps grant to remove invasive species and manage fuelbreaks in the Phoenix Lake area.
- On 2/1/24, staff co-led a tour with other One Tam partners for Wildlife Conservation Board members assessing funding opportunities for various vegetation projects on State, Federal and district lands. The tour highlighted proposed WCB funded prescribed burn projects at China Camp State Park and around Muir Woods, as well as supporting ongoing forestry work on Marin Water lands.

MARIN WATER GRANT STATUS

PROJECT DETAILS						REQUIREMENTS	BUDGET		
OPPORTUNITY	FUNDER	FUNDER PRIORITIES	APPLICATION DATE	MATCHING PROJECT	DESCRIPTION	STATUS	PREREQUISITE	FUNDS REQUESTED	MATCH REQUIREMENT %
CURRENT APPLICATIONS								\$72,173,326	
Local Water Supply Storage Projects	DWR	Water Supply	1/9/23	Water Supply	Three projects: recycled water, local storage enhancement, and winter water conveyance	Unfunded (Grant program funding not allocated for 2024)	UWMP Compliance	\$53,000,000	50
Desal Feasibility Study	USBR	Desalination	2/28/23	Desalination	Exploring new brackish desal in Petaluma	Open	None	\$200,000	50
Prop. 1. Round 2 IRWM Disadvantaged Community	DWR	Water Infrastructure	12/1/22	Marin City/San Rafael Infrastructure	Replacing aging transmission lines and laterals in Marin City and San Rafael's Canal District	Funded	IRWM CC Approval	\$6,500,000	0
Forestry Corps	CCNB	Vegetation Management	Jan 2023	Ongoing Forestry work	Workforce development; state funding directly to CCNB to fund crews working on the watershed	Funded	Corps Partnership	\$500,000	0
Fisheries Restoration Grant Program	CDFW	Fisheries	4/20/23	Lagunitas Creek Restoration	Funding for Phase II site design and CEQA	Funded	30% designs	\$723,000	5
Lagunitas Creek Salmonid Spawning Gravel Improvement Project	DWR Riverine	Fisheries	11/1/22	Lagunitas Creek Restoration	Gravel augmentation for Lagunitas Creek	Funded	None	\$590,000	0
Prop 1. Fisheries Restoration	CDFW	Fisheries	7/1/23	Lagunitas Creek Restoration	Lagunitas Creek Restoration Sites 1-6	Funded	60% designs	\$4,422,898	0
CA Division of Boating & Waterways	NRA	Water Quality	7/1/23	Reservoir Water Quality	Monitor and prevent infestation of quagga and zebra mussels	Funded	NA	\$86,800	0
One Tam Forest Health Strategy	CA WCB	Forestry Restoration	11/21/23	BFFIP Implementation	BFFIP Implementation for 2-3 years	Funded	CEQA	\$6,000,000	0
WaterSMART Applied Science	USBR	Fisheries	10/15/2023	Advanced Weather Modeling	Funding for weather modeling to inform water resources management	Open	TBD	\$150,628.00	50%
WaterSmart Energy Efficiency	USBR	Conservation	2/22/2024	AMI	Funding to expand AMI	Open	Environmental Compliance	\$1,000,000	50%
UPCOMING OPPORTUNITIES								\$0	
Hazard Mitigation Program	FEMA	Natural Hazards	Summer 2023	Treatment Plant Clarifiers	Funds to address seismic hazards in water treatment facilities	TBD	NOI APPROVAL	TBD	
WaterSMART Planning & Design	USBR	Water Supply	4/2/2024	Water Supply Planning	Funding for advancing implementation of Strategic Water Supply Projects	Open	TBD	TBD	
LONG TERM OPPORTUNITIES (ongoing development)									
2024 Water Bond	State of CA	Water supply projects	Fall 2024	SWSA Water Supply Projects	Currently in Legislature	In legislature	Voter approval; District participation	TBD	
Water Resources Development Act	Army Corps of Engineers	Water supply projects	FY 2024	SWSA Water Supply Projects	Pursuing for No Regrets and regional projects	In appropriations	Authorization (secured 2022)	\$28,000,000.00	
Small Storage Program	USBR	Water Supply	Fall 2024	Phoenix Lake	Funding for new water supply projects	TBD	Approved Feasibility Study	TBD	

DISCUSSION

B. SUMMARY:

- AF = Acre Feet
- Mg/L = milligrams per liter
- MPN = most probable number
- MPY = mils per year
- MG = million gallons
- NTU = nephelometric turbidity units

1. Water Production:

	FY 2023/24		FY 2022/23	
	(million gallons)	(acre-feet)	(million gallons)	(acre-foot)
Potable				
Total production this FY	4,749	14,573	4,538	13,928
Monthly production, February	394	1,210	395	1,211
Daily average, February	14.09	43.23	14.09	43.24
Recycled				
Total production this FY	172.10	528.17	149.50	458.80
Monthly production, February	8.33	25.55	6.48	19.89
Daily average, February	0.30	0.91	0.23	0.71
Raw Water				
Total production this FY	38.84	119.20	42.81	131.38
Monthly production, February	0.00	0.00	0.00	0.00
Daily average, February	0.00	0.00	0.00	0.00
Imported Water				
Total imported this FY	1,727	5,301	933	2,864
Monthly imported, February	6	20	57	175
Reservoir Storage				
Total storage	25,927	79,566	25,927	79,566
Storage change during February	0	0	43	131
Stream Releases				
Total releases this FY	2,076	6,371	1,814	5,566
Monthly releases, February	67	205	172	528

2. <u>Precipitation:</u>	<u>FY 2023/24 (in.)</u>	<u>FY 2022/23 (in.)</u>
Alpine	39.83	41.17
Bon Tempe	36.18	40.81
Kent	41.62	39.07
Lagunitas *	42.10	53.50
Nicasio	28.49	34.59
Phoenix	41.39	47.93
Soulajule	28.26	34.34

* Average to date = 39.34 inches

3. Water Quality:

<u>Laboratory:</u>	<u>FY 2023/24</u>	<u>FY 2022/23</u>
Water Quality Complaints:		
Month of Record	7	8
Fiscal Year to Date	58	105
Water Quality Information Phone Calls		
Month of Record	13	9
Fiscal Year to Date	39	63

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 1,224 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 2.61 (1.37 – 3.57) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: No flushing events were performed for this month on record.

Disinfection Program: No new pipelines were disinfected during the month of November. Performed chlorination's on 7 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 35 water quality-monitoring events on storage tanks for various water quality parameters this month to help ensure compliance with bacteriological water quality regulations.

Summary:

The lab treated 7 tanks for low chlorine and checked an additional 35 tanks for low chlorine residual in February 2024.

4. Water Treatment:

San Geronimo Treatment Results Average	Bon Tempe		Ignacio		Average		Monthly	
	Average	Monthly	Monthly	Goal	Average	Monthly	Goal	Goal
Turbidity (NTU)	0.05		< 0.10	0.03	< 0.10	0.04	< 0.10	
Chlorine residual (mg/L)			2.77	2.75 *	2.82	2.75 *	2.80	2.75 *
Color (units)	0.4	< 15	0.4	< 15		0.2	< 15	
pH (units)	7.8		7.8*	7.8	7.8*	8.1	8.1**	

* Set monthly by Water Quality Lab

** pH to Ignacio is controlled by SCWA

5. Capital Improvement:

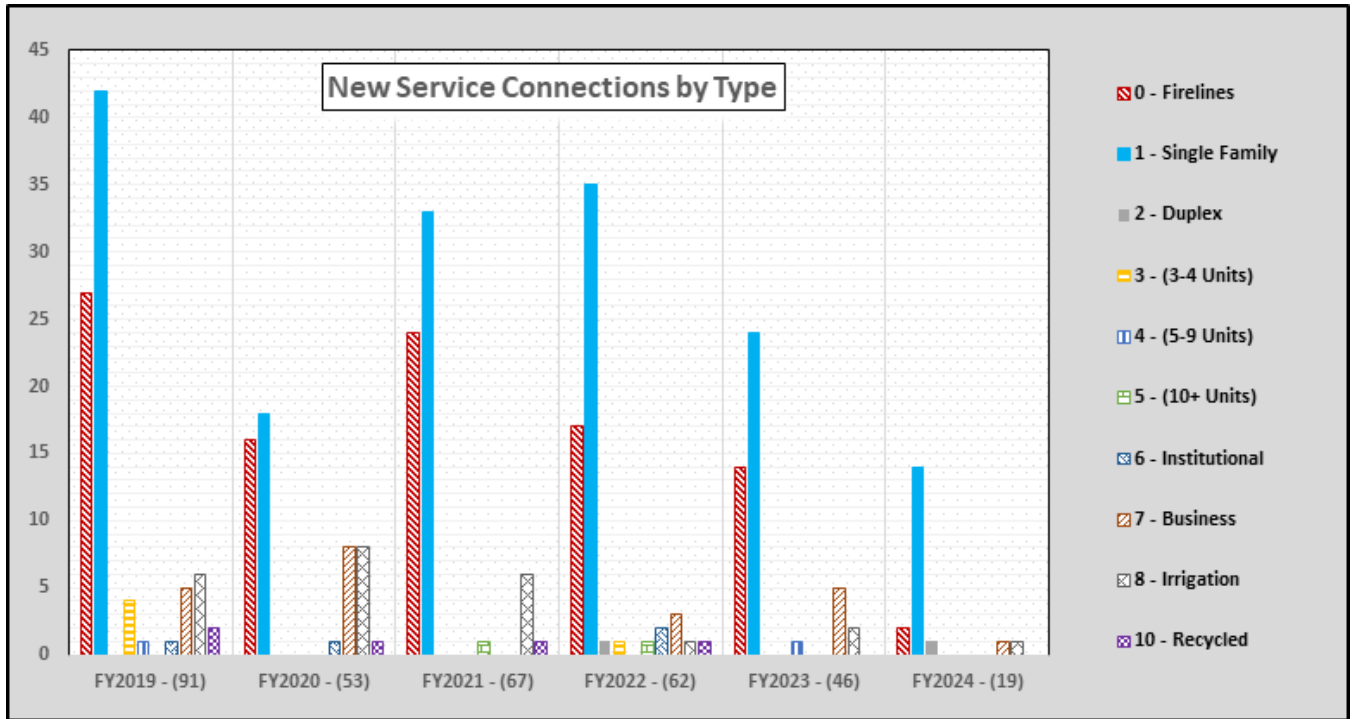
- a. Pine Mountain Tank Phase 1 – Rough Grading Project (D21043): The Pine Mountain Tunnel Tanks Replacement Project is a multi-year two-phased project that will replace the existing Pine Mountain Tunnel. This project (Phase 1) will excavate approximately 45,000 cubic yards of hillside and will install a soil nail retaining wall in preparation for a future project that will install two 2-million gallon pre-stressed concrete storage tanks (Phase 2). This Phase 1 project will also perform site grading and drainage improvements.
 - Project Budget: \$7,734,575
 - Monthly Activities: The project was winterized and temporarily suspended by January 31, and will restart August 1, 2024. Access is permitted on Concrete Pipe Road and Taylor Trail through the duration of the suspension period.

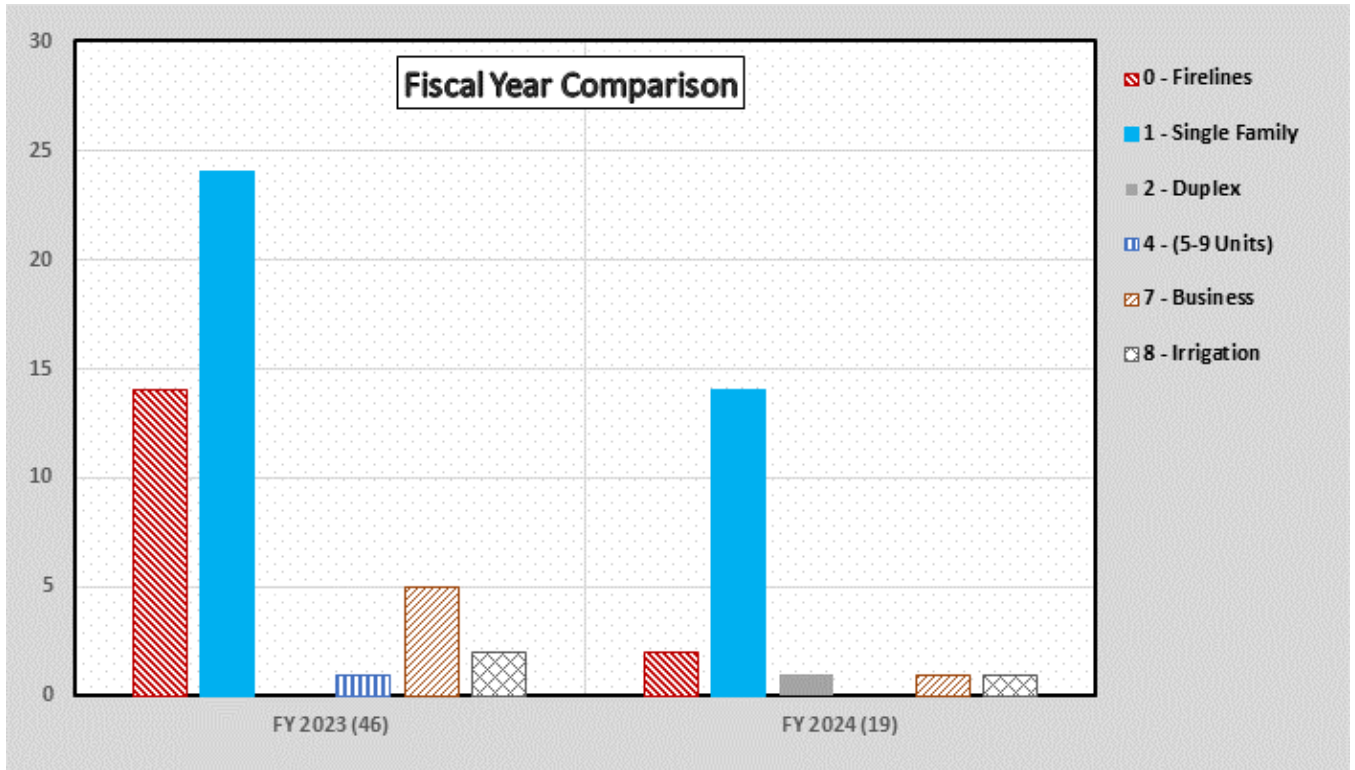
- b. Spillway Condition Assessment Phase II (CN2006): This project is considered Phase II of a multi-phase project that will investigate the concrete spillways at Peters Dam (Kent Lake), Seeger Dam (Nicasio Reservoir), and Soulajule Dam. Assessment work includes concrete coring, ground penetrating radar (GPR), video inspection and cleaning of sub-drains, and visual observation.
 - Project Budget: \$680,106

- Monthly Activities: The project has been temporarily suspended due to the winter conditions and full reservoir levels. The project will resume this summer.
- c. Redwood Drive Pipeline Replacement Project (CN1989): This project is a component of the District’s Fire Flow Improvement Program and will install approximately 4,400 linear feet of 6-inch welded steel pipe to replace old, leak-prone, and fire flow deficient piping installed as early as 1913 in the unincorporated community of Woodacre.
- Project Budget: \$2,204,075.20
 - Monthly Activities: The project was awarded for construction at the February 27 Board of Directors meeting and the contract is currently being executed. Work is anticipated to begin late March or early April.
- d. Wolfback Ridge Tanks Rehabilitation Project (CN2016): This project will replace the roof and recoat both the interior and exterior of each tank at Wolfback Ridge in Sausalito.
- Project Budget: \$950,000
 - Monthly Activities: The project was awarded for construction at the February 13 Board of Directors meeting and the contract is currently being executed. Preliminary work is anticipated to begin late April, while on-site field work will not begin until October.

6. Other:

<u>Pipeline Installation</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Pipe installed during February (feet)	45	47
Total pipe installed this fiscal year (feet)	1,439	1,146
Total miles of pipeline within the District	908*	908*
<i>* Reflects adjustment for abandoned pipelines</i>		
<u>Pipe Locates (1,133 Responses)</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Month of February (feet)	16,209	16,146
Total this fiscal year (feet)	228,389	176,586
<u>Main Line Leaks Repaired:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Month of February	11	19
Total this fiscal year (7/1/23-2/29/24)	87	135
<u>Services:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Service upgrades during February	15	9
Total service upgrades this FY	128	111
Service connections installed during February	2	1
Total active services as of March 1st, 2024	60,578	60,499
(Total Including firelines)	61,960	61,873





7. Demand Management:

	Feb-24	FY 23/24 TOTAL	FY 22/23 TOTAL	FY 21/22 TOTAL
WATER-EFFICIENCY PROGRAMS				
Water-Use Site Surveys				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	17	230	291	731
Residential properties resi 3-5 (multi-family units)	1	5	3	7
Non-residential properties resi 6-7 (commercial)	0	0	3	1
Dedicated irrigation accounts resi 8-10 (large landscape)	0	0	0	3
Marin Master Gardeners' Marin-Friendly Garden Walks				
Residential garden walks	3	120	72	100
Public Outreach and Education, Customer Service				
Public outreach events (number of people attending)	0	1022	1775	1602
Public education events (number of participants)	0	0	328	536
Customer calls/emails admin staff	189	2522	4150	9508
Outreach to new Marin Water customers (letters sent)		1189	0	0
School Education				
School assemblies				
Number of activities	0	16	0	0
Number of students reached	0	17250	0	0
Field trips				
Number of activities	0	6	15	0
Number of students reached	0	117	307	0
Classroom presentations				
Number of activities	1	7	17	0
Number of students reached	75	276	531	0
Other (e.g. booth events, school gardens)				
Number of activities	0	0	1	0
Number of students reached	0	0	480	0
Incentives				
Number of HECWs approved	4	66	103	190
Number of Rain Barrel/Cisterns approved	0	6	15	76
"Cash for Grass" Turf Replacements approved	0	43	116	402
Number of Laundry-to-Landscape Systems (kits) approved	0	0	7	27
Hot water recirculating system rebates	2	5	30	122
Pool Cover rebates	2	20	27	298
HET rebates	2	9	22	92
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	67	396	271	1568
Number of Smart Controllers rebates approved	1	27	35	69
Number of Smart Controllers "RainBird compatible w/Flume" approved	14	87	0	0
Number of Smart Controllers "Rachio Direct Distribution" approved	5	137	77	178
Advanced Metering Infrastructure (AMI)				
AMI leak letters sent to customers (>200 GPD)	53	901	1168	1050
ORDINANCES				
Water Waste Prevention				
Water Waste Reports Received	9	124	392	4451
Water Waste Notifications Sent	1	29	81	0
Landscape Plan Review				
Plans submitted	10	81	88	77
Plans exempt	1	16	5	1
Plans completed	3	28	20	17
Plans in workflow (pass & fail)	9	126	145	123
Tier 4 Exemption				
Inspections that resulted in a pass	0	2	1	1
Graywater Compliance Form				
Applications Received (as of Dec 2019)	4	102	123	57
Systems installed	1	19	23	13

8. Watershed Protection:

Rangers Investigate Vandalism at Nicasio Reservoir
 Rangers were notified that the two portable toilets at the Nicasio Reservoir were destroyed. Upon investigating the scene, just off the Petaluma-Pt Reyes Road, Rangers determined explosive devices were used to blow apart both portable toilets. Through interviewing residents in the area, it has been determined, the explosions occurred Thursday night, February 22nd, at 10:30pm. Similar incidents occurred a year ago to the same portable toilets, as well as to the portable toilet located in the Leo Cronin parking area in Lagunitas. Rangers are working with Sheriff's Office Investigations and the ATF. Investigators are trying to determine if all three are linked. No suspects have been identified at this time.



The destroyed portable toilets at Nicasio Reservoir

Foot and Bike Patrols in January

During February even with incimate weather, the Rangers completed 126 miles of foot and bike patrols. These patrols increase the visibility of the Rangers to the public using the watershed and improve public interaction with staff.

Incidents and Events	768
Visitor Assists	220
Warnings	141
Assist Watershed Maintenance	134
Dam Check	103
Citations	58
Fish and Game Contact	41
Misc Law Enforcement Calls	16
Vandalism	15
Preventive Search and Rescue	7
Illegal Trail Work	7
Assist Other Agency	5
Suspicious Circumstance	4
Medical Aid	4
Fire Service	3
Ranger Callout	2
Humane/Animal Related	2
Citizen Complaint: Illegal Bike Use	1
Citizen Complaint: Off Leash Dogs	1
Theft	1
Illegal Dumping	1
Use of Destructive Device	1
Found Property	1

Citations	58
Non-Payment of Parking Fees	39
Obstruct Traffic/Parking within 6' of Center	11
Parking After Sunset	3
Dog off Leash	2
Swimming/Wading	2
No Parking	1

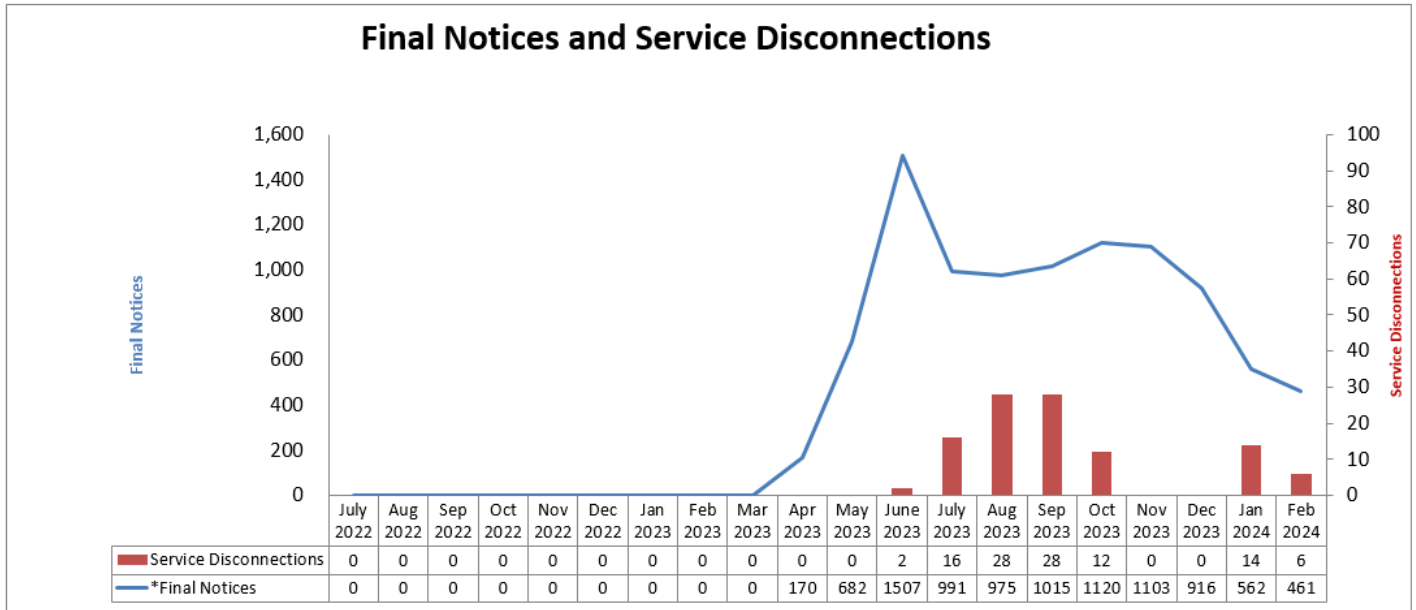


9. Shutoff Notices and Disconnections:

*Final Notices

Service Disconnections

* Includes 10 day and final notices



FISCAL IMPACT

None

ATTACHMENT(S)

None

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Office of the General Manager	_____	
_____	_____	_____
	Ben Horenstein General Manager	Ben Horenstein General Manager