Summary of Operations

Fiscal Year 2024

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

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Acronyms

AF	Acre feet
ASR	Aquifer storage and recovery (treated surface water pumped into the underground aquifer, then retrieved for use at a later date)
cfs	Cubic feet per second
CT	Concentration x time (for chlorination)
CUWCD	Central Utah Water Conservancy District
FY/FYT	Fiscal year/Fiscal year total
gpcd	Gallons per capita per day
GWR	Groundwater Rule
HAA	Haloacetic acid
HPC	Heterotrophic plate count
JVWCD	Jordan Valley Water Conservancy District
JVWTP	Jordan Valley Water Treatment Plant
M&I	Municipal and Industrial
MG	Million gallons
MGD	Million gallons per day
mg/L	Milligrams per liter
MPG	Miles per gallon
MWDSLS	Metropolitan Water District of Salt Lake and Sandy
NTU	Nephelometric turbidity units
O&M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
SCADA	Supervisory Control and Data Acquisition
SERWTP	Southeast Regional Water Treatment Plant
SWGWTP	Southwest Groundwater Treatment Plant
TDS	Total dissolved solids
THM	Trihalomethane
WBWCD	Weber Basin Water Conservancy District
WCWCD	Washington County Water Conservancy District

Introduction

Jordan Valley Water Conservancy District compiles a Summary of Operations at the end of each fiscal year. The Summary of Operations reports on all District activities, from wholesale water deliveries to fuel costs, Conservation Garden Park attendees to mainline breaks.

The purpose of this report is to provide stakeholders with an overview of our operational performance over the past year, grounded in quantitative data. Through this lens, we aim to be transparent in the management of our infrastructure, water quality, and conservation initiatives, drawing comparisons with the preceding years to identify patterns and emerging trends.


CHLORINE

Operations

Water Sources

Jordan Valley Water Conservancy District's (JVWCD's) water supply comes from a wide range of sources. Most of our Municipal and Industrial (M&I) water comes from reservoirs (stored water) or streams and rivers (unstored flows). These untreated sources are our raw water. Additionally, JVWCD supplements our supply with treated, or finished, water from treatment plants around the valley and from the Central Water Project. Figure 1 shows the sources of water for the past three years. The volumes are shown in acre feet. See Appendix A, Figures A1-A4 for five-year water supply histories of key sources.

Figure 1. JVWCD Water Sources (3 Years)

Source	FY2024	FY2023	FY2022
Municipal and Industrial	Acre Feet	Acre Feet	Acre Feet
Raw Water			
Jordanelle Reservoir (Central Utah Project)	25,979	31,007	35,984
Deer Creek Reservoir (Provo River Project)	11,352	12,670	10,539
Upper Provo River reservoirs	2,094	1,534	1,392
Echo Reservoir	2,272	1,786	0
Provo River (unstored flows) and extra allotment	41,901	28,686	16,126
Weber River (unstored flows)	0	0	1,833
Central Water Project	11,680	11,679	11,676
Salt Lake County mountain streams	2,633	1,449	1,248
Salt Lake County groundwater (wells)	4,261	12,733	16,225
Southwest Groundwater Project Wells	3,604	3,211	3,349
Finished Water			
Culinary water purchased from MWDSLS	900	867	798
Bingham Canyon Water Treatment Plant	3,842	2,859	3,114
Subtotal for Municipal and Industrial sources	*110,518*	*108,483*	*102,284*
Irrigation			
Jordanelle Reservoir (Central Utah Project)[1]	0	0	0
Deer Creek Reservoir (Provo River Project)[2]	0	0	0
Upper Provo River reservoirs[1]	0	0	0
Echo Reservoir[3]	0	0	0
Provo River (unstored flows)[1]	7,454	8,165	2,786
Weber River (unstored flows)[2]	0	0	0
Utah Lake	17,730	14,217	21,928
Subtotal for irrigation sources	*25,185*	*22,382*	*24,714*
Total	**135,703**	**130,864**	**126,998**

Some reservoirs are sourced from multiple rivers and streams, as noted below:
1. Provo River sources
2. Weber, Duchesne, and Provo River sources
3. Weber River sources

Water Deliveries

JVWCD provides water to about 775,000 residents of Salt Lake County. Water is provided wholesale to member agencies for municipal, industrial, and irrigation use. JVWCD also provides water to retail customers in some areas of the county. Figure 2 shows the amount of water that was delivered to member agencies and customers for the past three years. The volumes are shown in acre feet. See Appendix A, Figure A5 and A6 for historic wholesale deliveries by month.

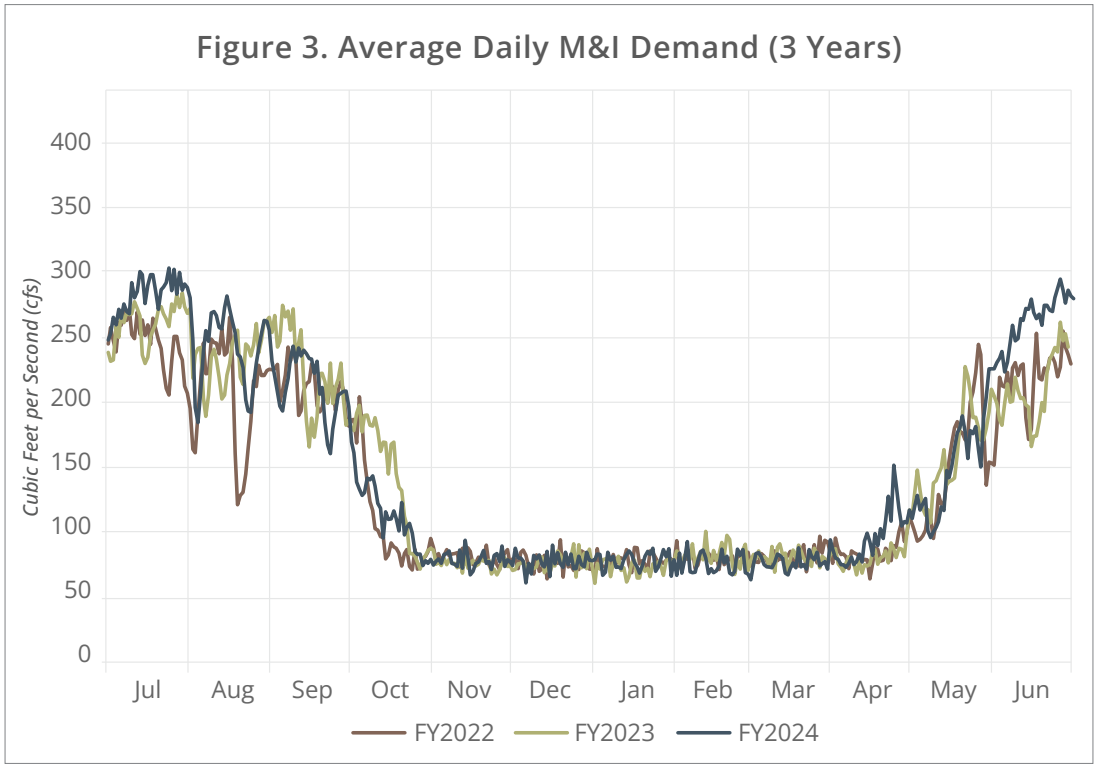
Figure 2. JVWCD Water Deliveries (3 Years)

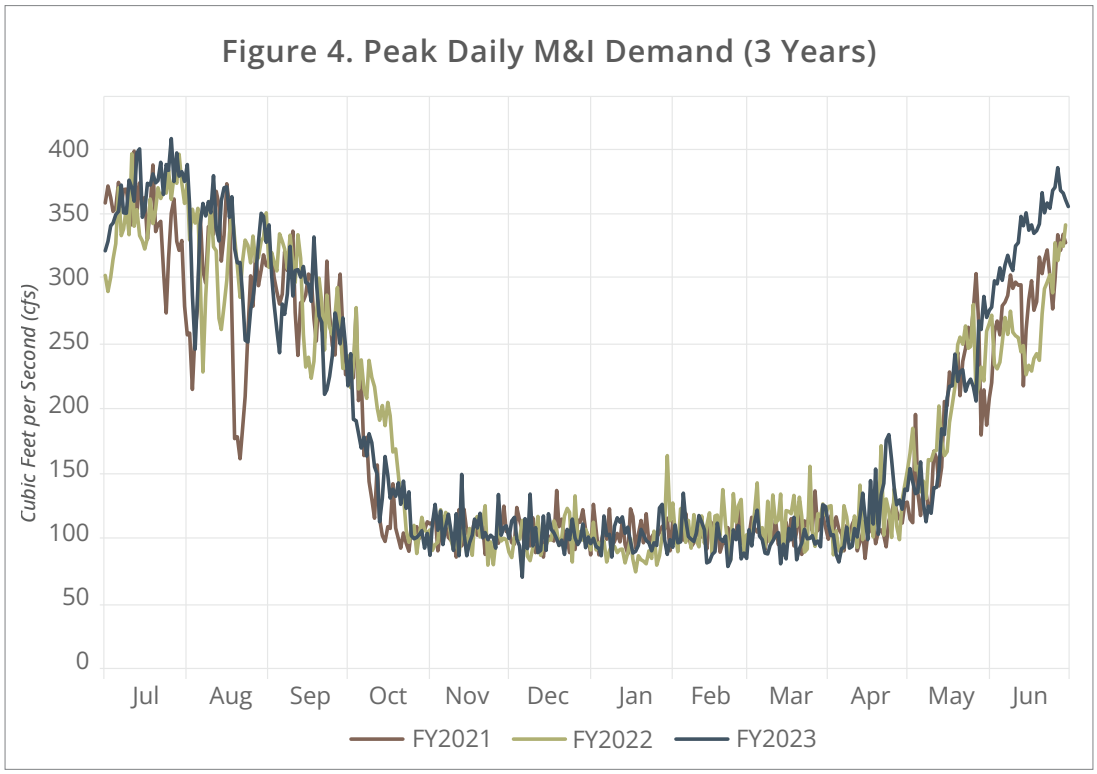
Recipient	FY2024	FY2023	FY2022
Municipal and Industrial	Acre Feet	Acre Feet	Acre Feet
City of Bluffdale	3,476	3,350	3,313
Copperton Improvement District	11	29	1
Draper City	4,374	4,205	4,194
Granger-Hunter Improvement District	17,353	18,939	18,533
Herriman City	7,095	5,533	5,243
Hexcel Corporation	1,060	934	658
Kearns Improvement District	7,785	7,218	7,155
Magna Water District	806	799	803
Midvale City	3,027	3,450	2,761
Riverton City	5,754	5,220	4,750
City of South Jordan	17,105	16,482	15,304
City of South Salt Lake	1,011	1,073	1,020
Taylorsville-Bennion Improvement District	5,062	4,825	4,569
Utah Department of Corrections	89	228	447
WaterPro, Inc. (Treated) WaterPro, Inc. (Raw)	0 1,242	0 1,129	0 1,331
City of West Jordan	21,474	20,336	18,793
White City Water Improvement District	0	0	0
Willow Creek Country Club	*293*	*303*	*269*
Subtotal for wholesale deliveries	97,018	94,052	89,143
JVWCD retail service areas (Holladay, Murray, Sandy, South Salt Lake and unincorporated county)	7,722	7,317	7,012
JVWCD system non-revenue water (use and loss)[1,2]	*5,778*	*7,114*	*6,129*
Subtotal for deliveries, use and loss	110,518	108,483	102,284
Irrigation			
Utah Dept of Public Safety	0	0	0
Welby Jacob Water Users Co.	*25,185*	*22,382*	*24,714*
Subtotal for irrigation sources	**25,185**	**22,382**	**24,714**
Total	**135,703**	**130,864**	**126,998**

1. Treatment plant losses calculated based on plant use and evaporation for JVWTP and SERWTP. Includes SWGWTP by-product flow.
2. Water use and loss includes hydrant and main line flushing, main line breaks, leaks, reservoir cleaning, ASR injection and irrigation of landscaping at Jordan Valley sites. JVwWCD's non-revenue water and treatment plant use and loss as a percentage of total water delivered, treated or transported: **FY2024:** 5.2% **FY2023:** 6.5%, **FY2022:** 6.0%.

Wholesale Deliveries

Contract deliveries are made to JVWCD's 17 wholesale member agencies. Figures 3 and 4 show the average and peak daily Municipal and Industrial (M&I) demand for the past three fiscal years in cubic feet per second (cfs).





Treatment Facilities

The Treatment Division staff ensures our surface water sources are treated to not only meet State and Federal regulations, but also Jordan Valley Water's more stringent water quality goals. Figure 5 summarizes the capacity of our three treatment facilities and the production and cost for fiscal year 2024.

Figure 5. JVWCD Treatment Capacity and Production

	JVWTP	SERWTP	SWGWTP	TOTALS
General Information				
Rated capacity (MGD)	180	20	7	207
Capacity using standby power (MGD)	180	20	0	200
Maximum daily effluent flow (MGD)	177.3	14.9	3.5	195.7
Average daily flow during operation (MGD)	68.2	9.4	2.5	80.1
Percent of fiscal year in operation (%)	100%	85%	71%	N/A
Total volume into distribution (AF)	77,112	10,657	1,924	89,693
Direct Treatment O&M Costs				
Chemicals	$2,098,352	$453,464	$133,614	$2,685,430
Utilities	$401,051	$138,522	$395,495	$935,068
Personnel	$2,938,540	$782,766	$313,288	$4,034,594
Other Expenses	$92,196	$87,239	$110,503	$289,937
Plant Totals	**$5,530,139**	**$1,461,990**	**$952,900**	**$7,945,030**
Treatment O&M cost per acre-foot delivered to distribution system	**$72**	**$137**	**$495**	**$89**

Total Treated Water

JVWCD owns and operates three water treatment plants. Figures 6-8 illustrate the amount of water treated at each facility over the past three fiscal years in millions of gallons per day.

Figure 6.
JVWTP Total Treated Water (3 Years)

JVWTP is a conventional-process treatment plant with a rated capacity of 180 MGD. Its source water is conveyed from the Provo River at Olmsted Diversion, through the Jordan Aqueduct. Provo River water may also be diverted at the Murdock Diversion through the Provo River Aqueduct.

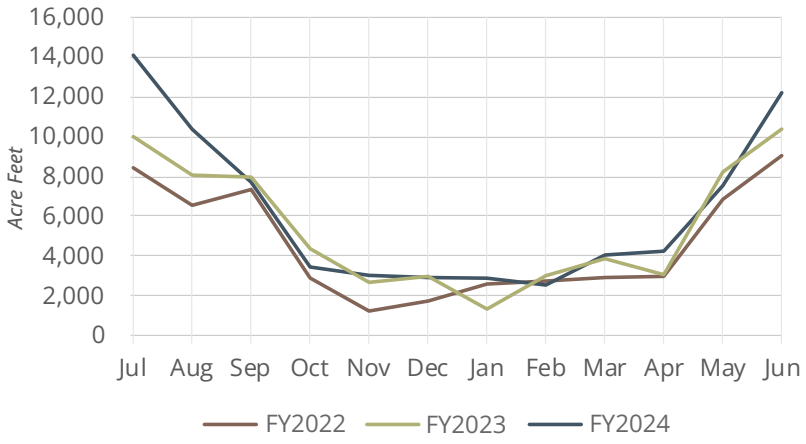


Figure 7.
SERWTP Total Treated Water (3 Years)

With a rated capacity of 20 MGD, SERWTP uses high rate clarification to quickly settle suspended solids. Some water is conveyed through the Salt Lake Aqueduct from the intake located at Deer Creek Dam. The rest comes from runoff collected into the Draper Diversion from five mountain streams.

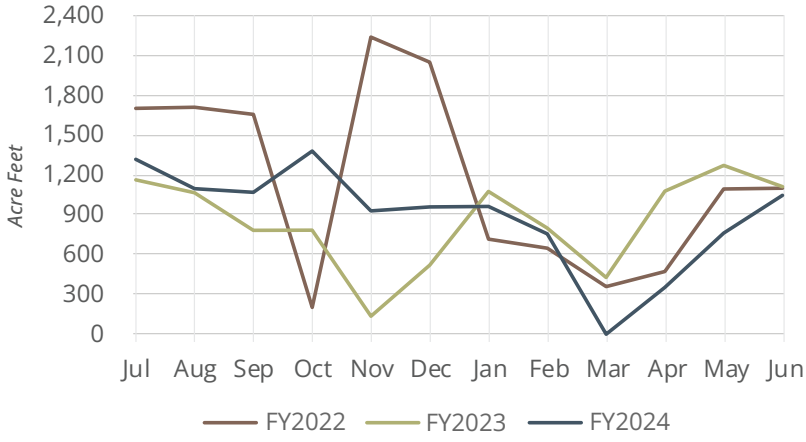
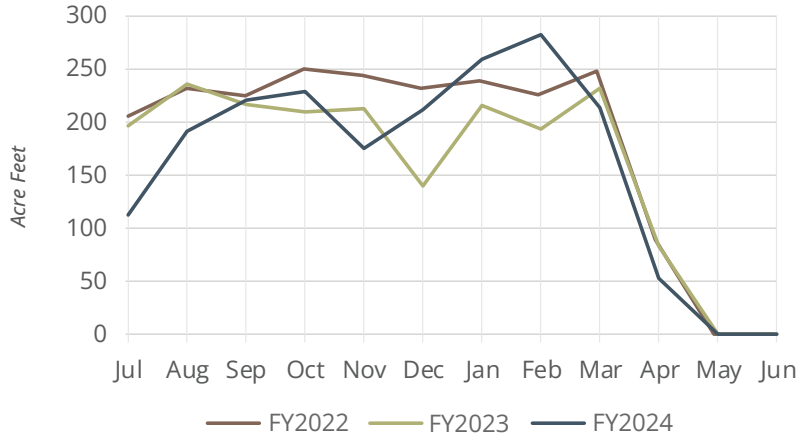


Figure 8.
SWGWTP Total Treated Water (3 Years)

SWGWTP has a rated capacity of 7 MGD. This plant uses reverse osmosis technology to treat mining-contaminated groundwater.



Graphs that show 0 indicate the plant was off-line.

Turbidity

Current regulations for surface water require combined effluent turbidity to be below 0.3 Nephelometric turbidity units (NTU) 95% of the time, and never exceed 1.0 NTU. There are also requirements for individual filters. The Partnership for Safe Water has set a finished water turbidity goal of 0.1 NTU. JVWCD has adopted even more stringent goals.

Figure 9.
JVWTP Turbidity

Max: 0.14
Average: 0.03
Min: 0.02
Goal Achieved: 99%
Record for consecutive days in operation below 0.08 NTU: 341

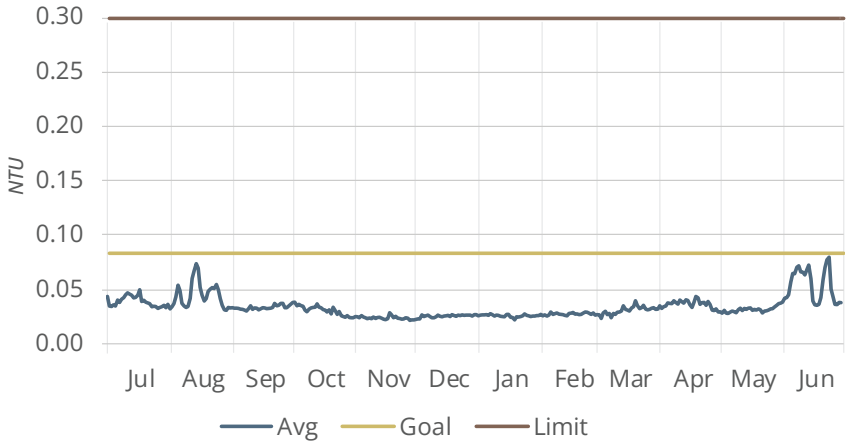


Figure 10.
SERWTP Turbidity

Max: 0.22
Average: 0.04
Min: 0.02
Goal Achieved: 98%
Record for consecutive days in operation below 0.08 NTU: 201

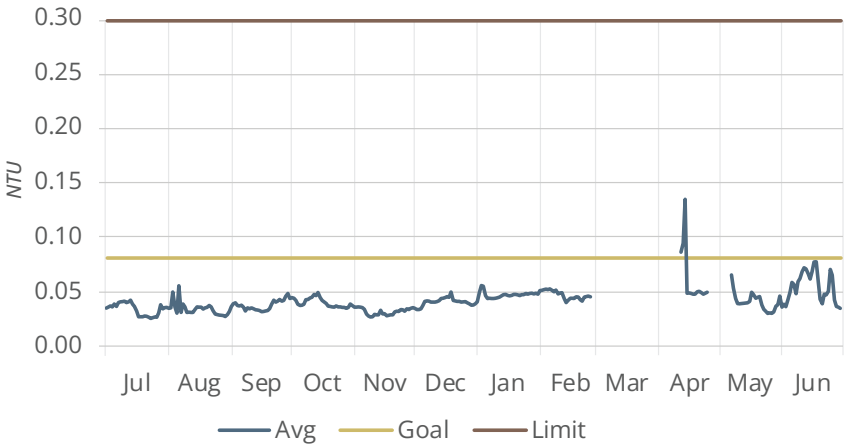
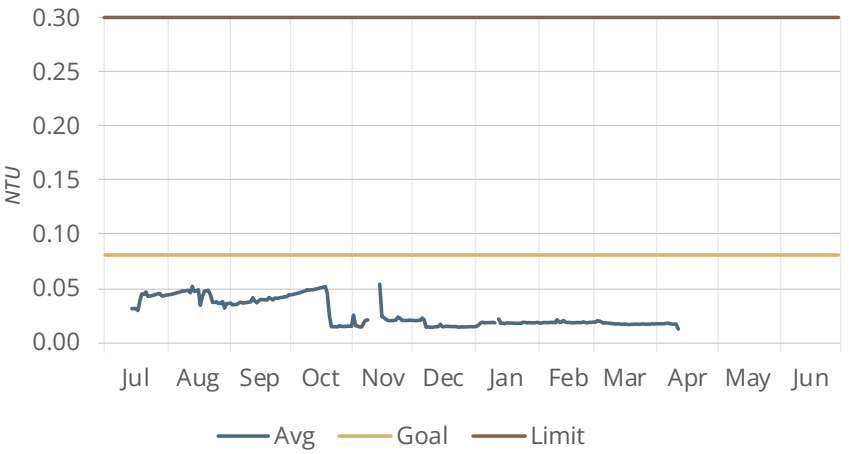


Figure 11.
SWGWTP Turbidity[1]

Max: 0.07
Average: 0.03
Min: 0.01
Goal Achieved: 100%
Record for consecutive days in operation below 0.08 NTU: 118 days

1. SWGWTP does not currently treat surface water or groundwater under the influence of surface water, so turbidity requirements are less stringent than for JVWTP and SERWTP that do. Graph is shown for comparison.



Gaps in data indicate the plant was off-line.

Chlorine Disinfection

The presence of chlorine residual in drinking water indicates that enough chlorine was added to the water to inactivate harmful bacteria and viruses. The residual also shows the water is protected from recontamination in the distribution system. While minimizing the chlorine concentration leaving the treatment plants helps control DBPs, it must be high enough to maintain a concentration of 0.2 mg/L throughout the distribution system.

Figure 12.
JVWTP CL Residual

Maximum residual: 1.14 mg/L
Average residual: 0.93 mg/L
Minimum residual: 0.77 mg/L
Goal achieved: 82%

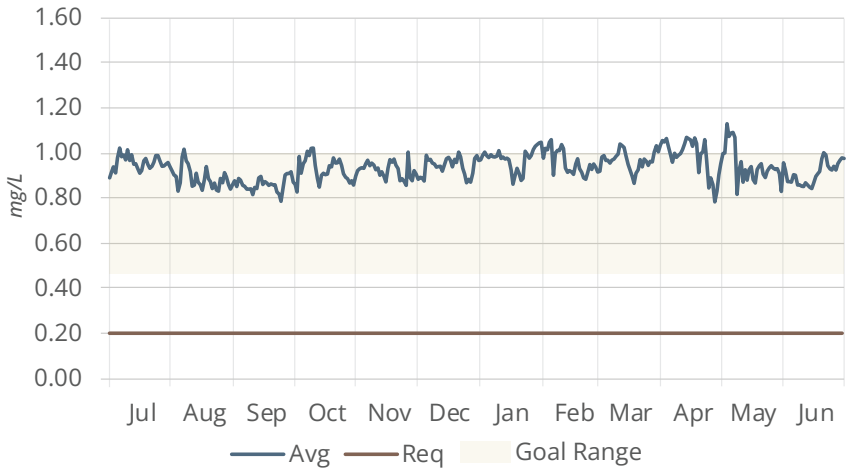


Figure 13.
SERWTP CL Residual

Maximum residual: 1.42 mg/L
Average residual: 1.07 mg/L
Minimum residual: 0.76 mg/L
Goal achieved: 99%

Figure 14.
SWGWTP CL Residual

Maximum residual: .84 mg/L
Average residual: 0.70 mg/L
Minimum residual: 0.39 mg/L[1]
Goal achieved: 97%

1. SWGWTP does not run continuously. The min value reflects the times the plant was put online.

Gaps in data indicate the plant was off-line.

Minimum CT Ratio

A CT value is the product of the concentration of chlorine and the contact time with the water. It is a measure of disinfection effectiveness which varies with water temperature, pH and disinfectant. Current regulations require sufficient CT to achieve 99.9% inactivation of Giardia and 99.99% inactivation of viruses. Compliance is determined by a CT ratio which compares the amount of CT achieved to the amount required. Any CT ratio above 1.0 meets regulations. Figures 21 and 22 show the minimum CT ratios at JVWTP and SERWTP.

Figure 15.
JVWTP CT Ratio

Average CT Ratio: 5.56
Minimum CT Ratio: 1.93

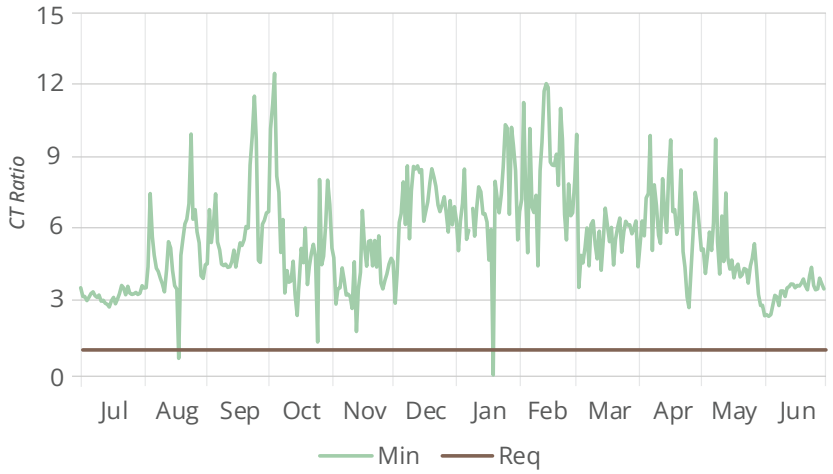


Figure 16.
SERWTP CT Ratio

Average CT Ratio: 1.99
Minimum CT Ratio: 1.29

Figure 17.
SWGWTP

Average CT: N/A
Minimum CT: N/A

SWGWTP does not report CT because groundwater not under the influence of any surface water is not required to report this measurement.

Gaps in data indicate the plant was off-line.

Disinfection By-Products

Disinfection by-products (DBPs) are compounds resulting from chemical reactions between organic and inorganic substances in water during water disinfection processes. DBP compliance is based on samples taken at points in the distribution system that represent where the highest level of DBPs are likely to occur. Figures 18 and 19 show the HHAs and THMs for the four quarters of fiscal year 2024 at eight distribution sites. See Figures A13 and A14 in Appendix A for our coliform and free chlorine residual compliance, as well as our fluoride compliance.

Figure 18. Compliance HAAs

Maximum Locational Running Annual Average: 22.0 ug/L

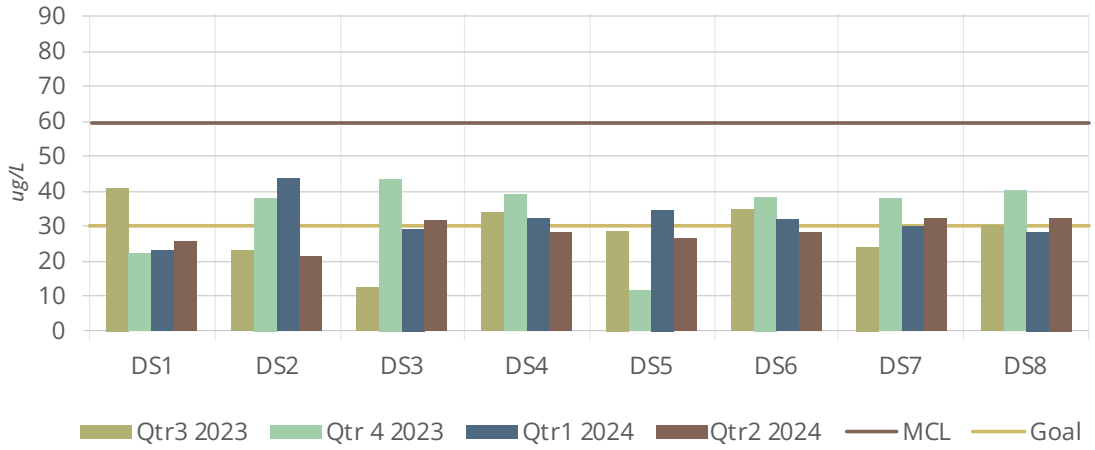
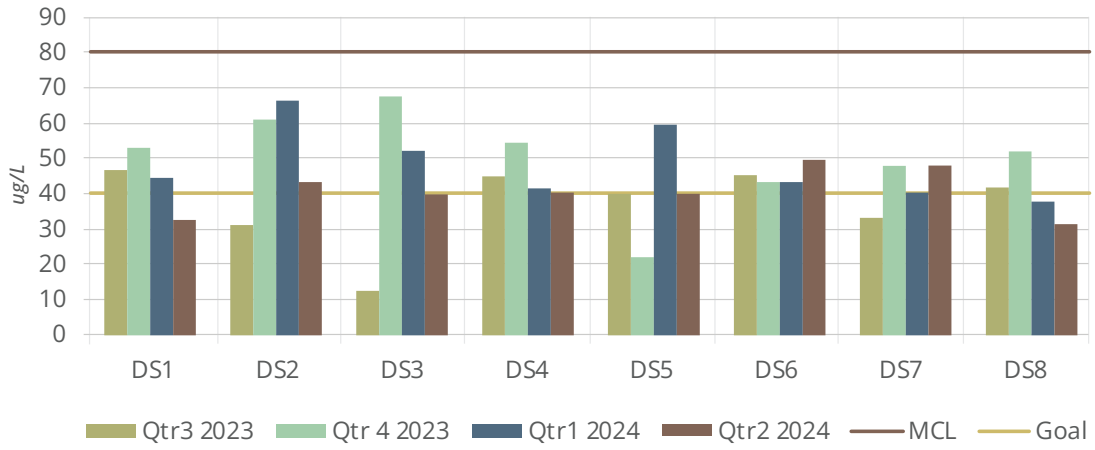


Figure 19. Compliance THMs

Maximum Locational Running Annual Average: 35.2 ug/L



Distribution Sites

DS1- 13800 S. Pony Express Rd.

DS2- 700 W. 11400 S.

DS3- 10730 S. 1300 E.

DS4- 3700 W. 2100 S.

DS5- 3610 S. 1000 W.

DS6- 6000 W. 4700 S.

DS7- 5700 W. 10200 S.

DS8- 13953 S. Lookout Peak Dr.

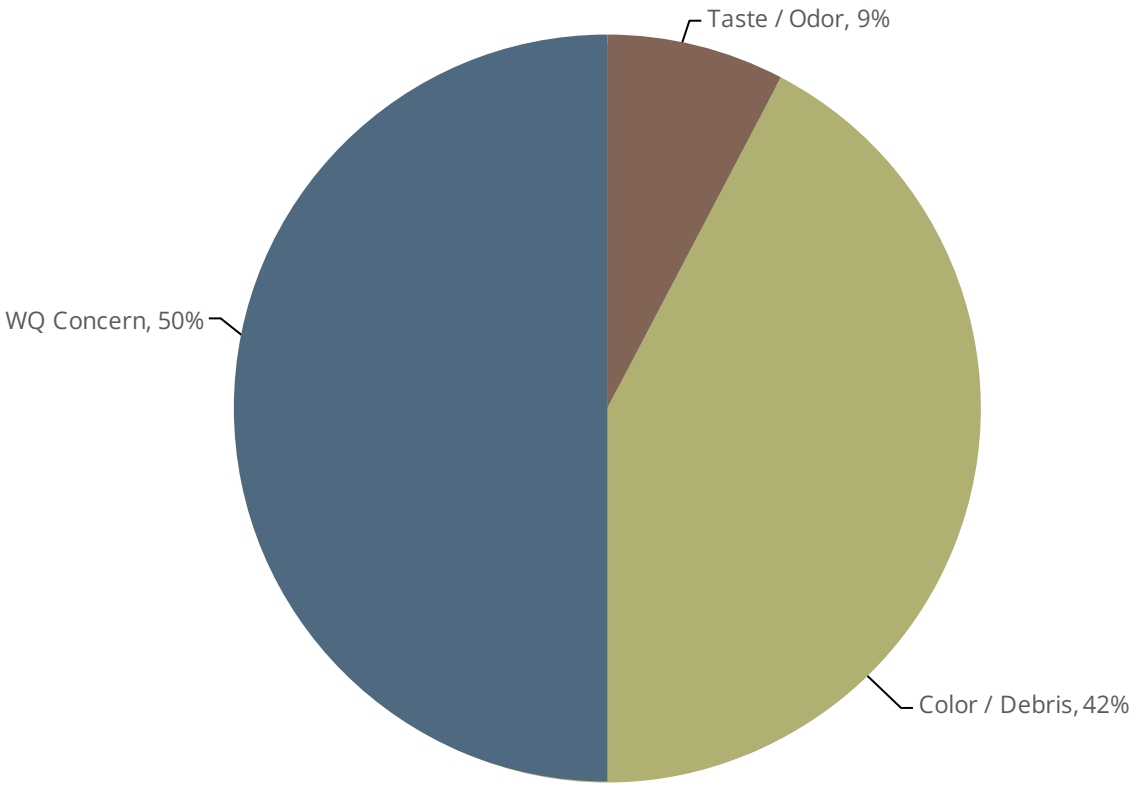
Water Quality Customer Service

The public perceives water quality as the look, taste and feel of their water. These calls are logged and tracked in a database, which allows us to determine response time and trends. Figures 34 and 35 summarize of the types of calls received.

Figure 20. Water Quality Calls by Type

Type of Call	Jul - Sep	Oct - Dec	Jan - Mar	Apr - Jun	Totals
Cross Connection	0	0	0	0	**0%**
Hardness	0	0	0	0	**0%**
Taste/Odor	1	0	0	1	**8%**
Color/Debris	2	3	2	4	**42%**
WQ Concern	3	3	2	5	**50%**
Question	0	0	0	0	**0%**
Total	**6**	**6**	**4**	**10**	**26**

Figure 21. Water Quality Calls by Type (%)



Figures A15 - A18 in Appendix A summarize data from Jordan Valley Laboratory.

Groundwater

Runoff water from the Wasatch Mountains is captured and stored naturally in the underground aquifer. Jordan Valley Water extracts this groundwater through the operation of multiple wells primarily located in the southeast portion of Salt Lake Valley. Groundwater accounts for about 10% of our total supply and is most heavily utilized to supplement our surface water sources in the summer when demands are high and during drought periods when surcace water surface water sources need to be preserved. Figure 36 shows a breakdown of groundwater production by location for fiscal year 2024 and a comparison of totals for the past three fiscal years. Figures A19 and A20 in Appendix A detail our Aquifer Storage and Recovery operations.

Figure 22. Groundwater Well Production (FY2024 and 3 Years)

Location	Design Capacity (cfs)	Well Setting Level (ft)	Emergency Back-up Capacity (cfs)	Avg. Flow Rate (cfs)	Days Operated	Annual Production (AF)			Total Power Cost	Avg. Cost/AF	Water Level (ft Above Pump)		
						FY2024	FY2023	FY2022			Max	Min	Avg
275 E. Carol Way	3	460	-	0	0	0	0	352	$13,892	$0	363	338	353
300 E. 4500 S.	1	200	-	0	0	0	0	0	$0	$0	0	0	0
1028 E. College Dr.	4	400	-	0	0	0	0	261	$10,548	$0	0	0	0
1155 E. Webster Dr.	7	465	-	0	0	0	0	0	$33,705	$0	186	155	173
1159 E. 4500 S.[1]	2	282	-	1	151	386	183	22	$141,385	$367	307	20	170
1200 E. 9400 S.	2	480	-	0	0	0	0	0	$12,285	$0	234	125	169
1307 E. 6860 S.	5	322	-	5	90	889	1,303	746	$58,049	$65	192	52	156
1364 E. 6400 S.	6	265	6	0	0	0	208	1,372	$128,808	$0	184	0	95
1500 E. 9400 S.[1]	10	640	-	0	0	0	1,459	2,560	$5,473	$0	188	159	176
1526 E. 8600 S.	9	580	-	0	0	0	1,252	1,545	$6,661	$0	201	166	187
1530 W. 14600 S.	4	150	-	0	0	0	143	86	$12,006	$0	150	147	149
1600 E. Siesta Dr.[1]	10	422	-	8	115	1,770	1,551	1,579	$279,730	$158	220	37	170
1784 E. Creek Rd.	7	700	-	0	0	0	1,721	1,121	$76,394	$0	408	370	394
1787 E. Creek Rd.	5	177	-	0	0	0	0	0	$3,720	$0	160	160	160
1850 E. Newbury Dr.	9	740	9	0	0	0	699	1,219	$6,191	$0	258	241	250
2090 E. 8600 S.	2	520	-	0	0	0	0	0	$10,772	$0	165	91	107
2300 E. 9800 S	4	760	-	0	0	0	0	0	$12,467	$0	161	0	161
2400 E. Creek Rd.	3	440	-	2	6	25	623	536	$7,308	$290	101	72	95
4670 S. 1590 E.	4	450	-	3	62	332	46	0	$35,940	$108	439	1	66

7700 S. 700 E.[1]	6	375	-	0	0	0	628	0	$78,042	$0	229	198	217
7750 S. 1000 E.	3	401	-	0	0	0	106	240	$2,760	$0	231	188	201
7751 S. 1300 E	4	402	-	0	0	0	0	243	$3,481	$0	179	127	153
8148 S. 1330 E.	7	505	-	0	0	0	1,392	885	$20,007	$0	254	198	232
8200 S. 1000 E	2	356	-	0	0	0	0	0	$212	$0	198	159	184
8201 S. 700 E.	2	444	-	0	0	0	98	474	$15,523	$0	272	239	261
8518 S. 960 E.	6	460	-	5	29	280	497	391	$81,451	$291	258	55	233
8578 S. Monitor Dr.	8	530	8	8	27	403	0	1,264	$161,888	$402	161	85	146
8651 S. 1300 E.	4	550	-	0	0	0	0	0	$576	$0	170	170	170
9003 S. Quail Hollow	2	800	-	2	47	176	241	442	$28,032	$160	219	80	197
9125 S. 500 West	2	150	-	0	0	0	0	0	$2,385	$0	0	0	0
9390 S. Solena Way	5	635	-	0	0	0	582	885	$36,582	$0	135	119	127
Prison Well[2]	1	-	-	0	0	0	15	65	$0	$0	0	0	0
Totals	**147**					**4,261**	**12,748**	**16,290**	**$1,286,274**	**$58**			

1. Corresponds to the wells in Figure 41. Aquifer Recovery Levels.
2. Owned by the Utah Department of Facilities & Construction Management (not included in Totals and Averages). Power costs paid by the Utah Department of Facilities & Construction Management.

(-) Indicates not applicable or data not available

Booster Pumps

The District operates multiple booster pumps to ensure proper pressure throughout the various pressure zones within the transmission/distribution system.

Figure 23. Booster Pump Operational Information (FY2024 and 3 Years)

Zone (SCADA ID)	Location	Capacity (cfs)	Emergency Back-up Capacity (cfs)	Total HP	Average Dynamic Lift (ft)	Total Pumped (AF)	Total Capacity (cfs)	Avg. Flow Rate (cfs)	Volume Pumped (AF)			Total Power Cost	Avg. Cost/ AF	Days Operatied
									FY2024	FY2023	FY2022			
A South (N/A)	4706 Naniloa Dr.	12	N/A	300	N/A	0	12	0	0	0	0	$2,706	$0	0
B East (SE5010)	110 E 11400 S.	28	8	1,200	320	32,681	242	0	0	0	0	$86,780	$0	0
B North (NW4740)	4500 S 4800 W.	64	14[1]	1,625	200			12	8,542	6,309	6,868	$144,757	$17	328
B North (NW4740)	5820 S 3800 W.	24	14	650	180			6	4,112	2,535	2,655	$153,759	$37	161
B North (NW4740)	6200 S. 3200 W.	40	12	1,500	180			26	9,482	9,696	8,359	$530,050	$28	348
B North (SW4960)	3600 W. 10200 S.	44	5[1]	2,050	350			8	5,588	4,937	4,523	$202,440	$36	324
B North (N/A)	3145 W. 11400 S.	42	9[1]	900	110			7	4,957	1,524	0	$379,989	$77	187
C East (SE5010)	10730 S. 1300 E.	22	N/A	400	100	16,592	144	0	0	3,016	5,014	$6,685	$0	0
C South (N/A)	15305 S. 3200 W.	8	4	400	280			0	0	0	0	$0	$0	0
C South (SW5150)	3200 W. 11800 S.	59	18	4,300	495			13	9,507	8,342	8,063	$1,040,311	$109	366
C South (SW5150)	5700 W. 10200 S.	23	N/A	750	240			3	2,148	1,806	1,888	$101,719	$47	160
C South (SW5150)	13400 S. 3300 W.	40	10[1]	2,400	495			7	4,936	5,157	3,968	$304,113	$62	356
D South (SW5380)	6924 Old Bing. Hwy	26	12	800	280	2,399	26	3	2,399	1,699	1,824	$130,340	$54	224
Total/Average		**432**	**106**	**17,275**	**269**	-	-	**6**	**61,153**	**45,021**	**43,162**	**$3,083,649**	**$36**	-

1. Requires portable generator

See Figure A21 in Appendix A for a summary of JVWCD's system storage.

Maintenance

Preventive vs. Reactive Maintenance

By focusing on planned, preventive maintenance (PM), Jordan Valley Water is reducing unscheduled downtime and avoidable failures to significantly reduce costs and increase reliability of equipment and services. Part of this effort is to ensure staff follow all manufacturer recommended PM programs and complete this critical work within 30 days of the assigned due date. The District schedules and tracks all its PM and has a goal of completing at least 95% of this work on time. Figures B1 and B2 in Appendix B detail JVWCD's fleet and historic maintenance totals.

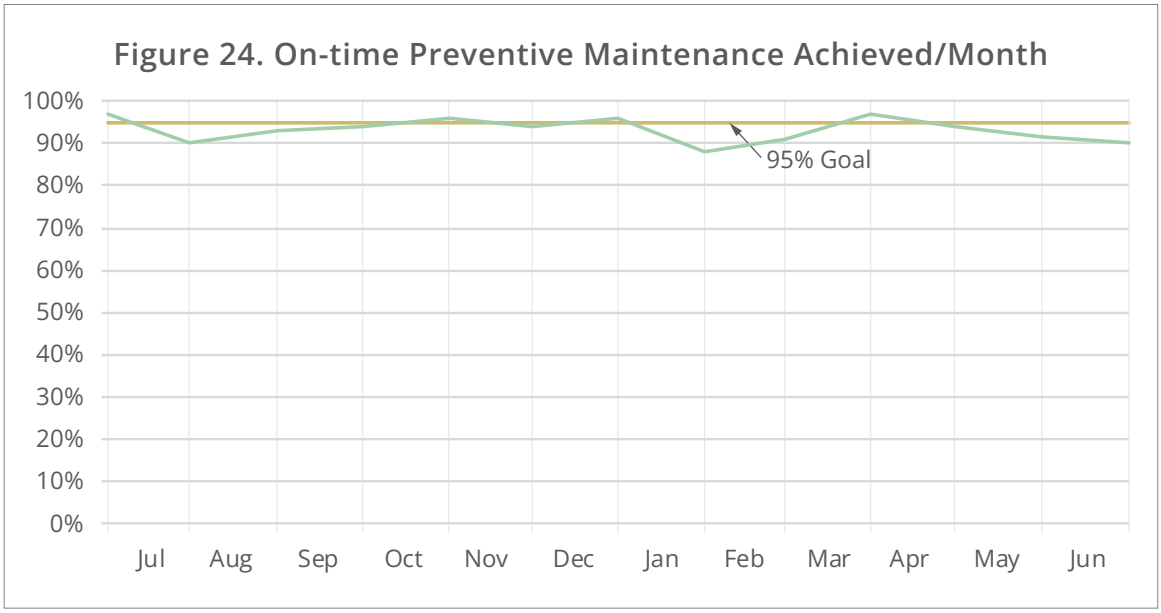
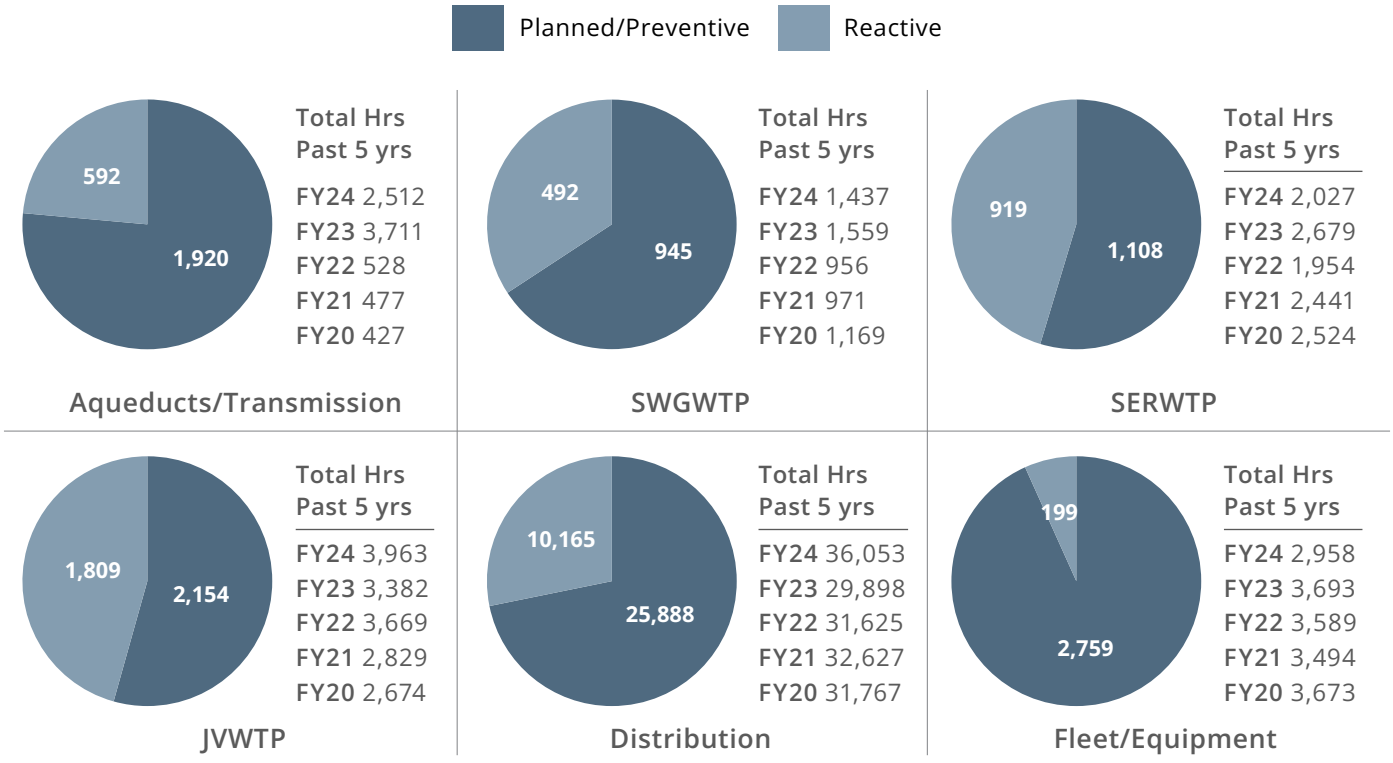


Figure 25. Planned/Preventive vs Reactive Maint. Work Orders



Mainline Breaks

Jordan Valley Water works hard to maintain, rehabilitate, or replace distribution and transmission pipelines as necessary to maintain a high level of water service and system reliability while still achieving a full, useful life of every water main. A goal, as seen in Figure 28, has been set to reduce and keep the number of breaks incurred each year to a more manageable/acceptable level. See Figure B2 in Appendix B for an accounting of JVWCD's pipelines and valves.

Figure 26. Mainline Breaks/Month (3 Years)

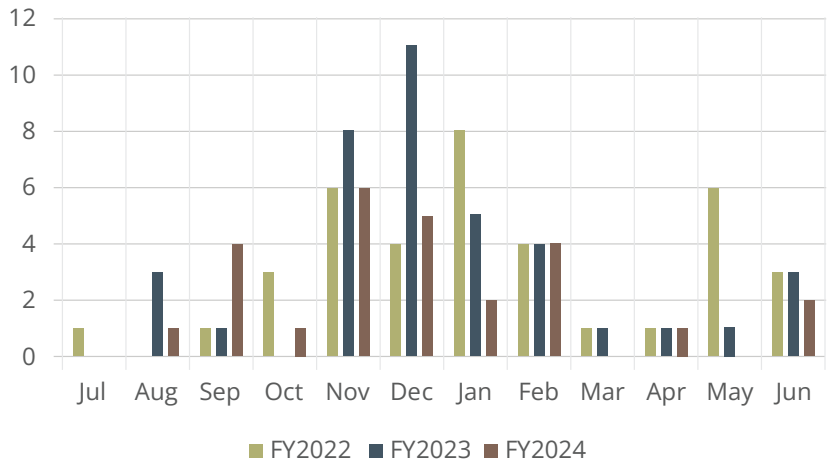


Figure 27. Mainline Breaks/Year (5 Years)

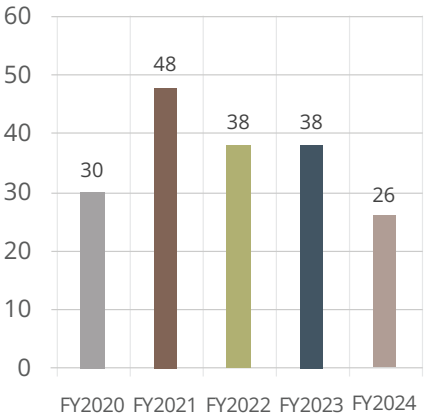


Figure 28. Mainline Break Trend (20 Years)

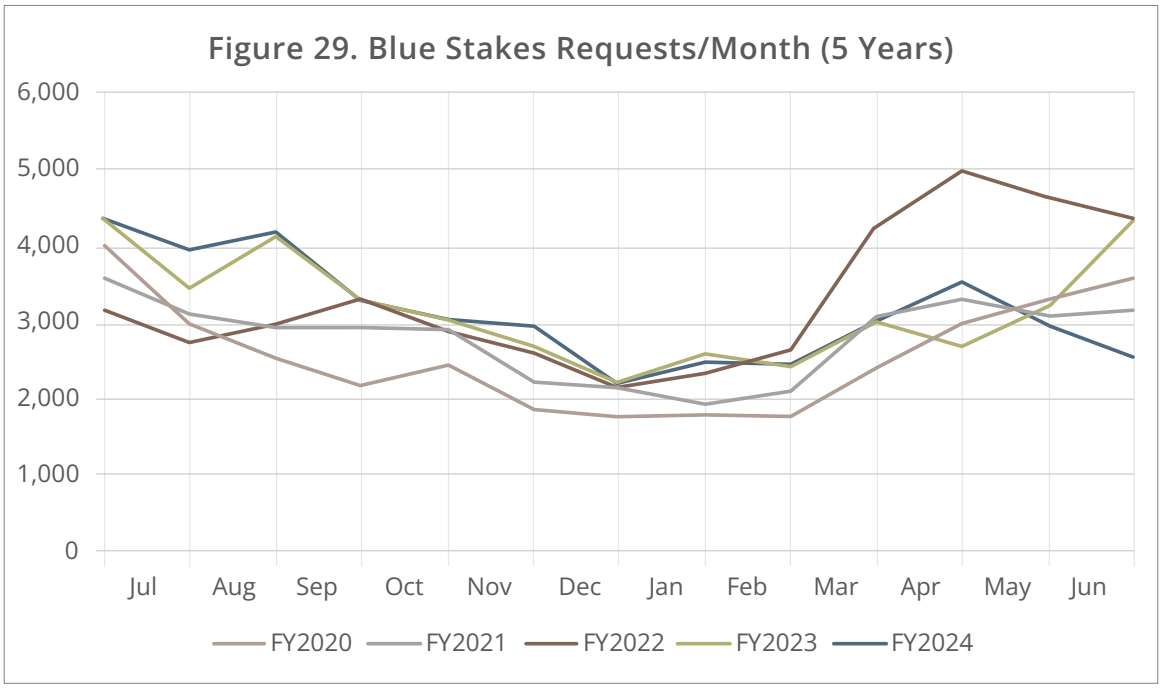
Notes:

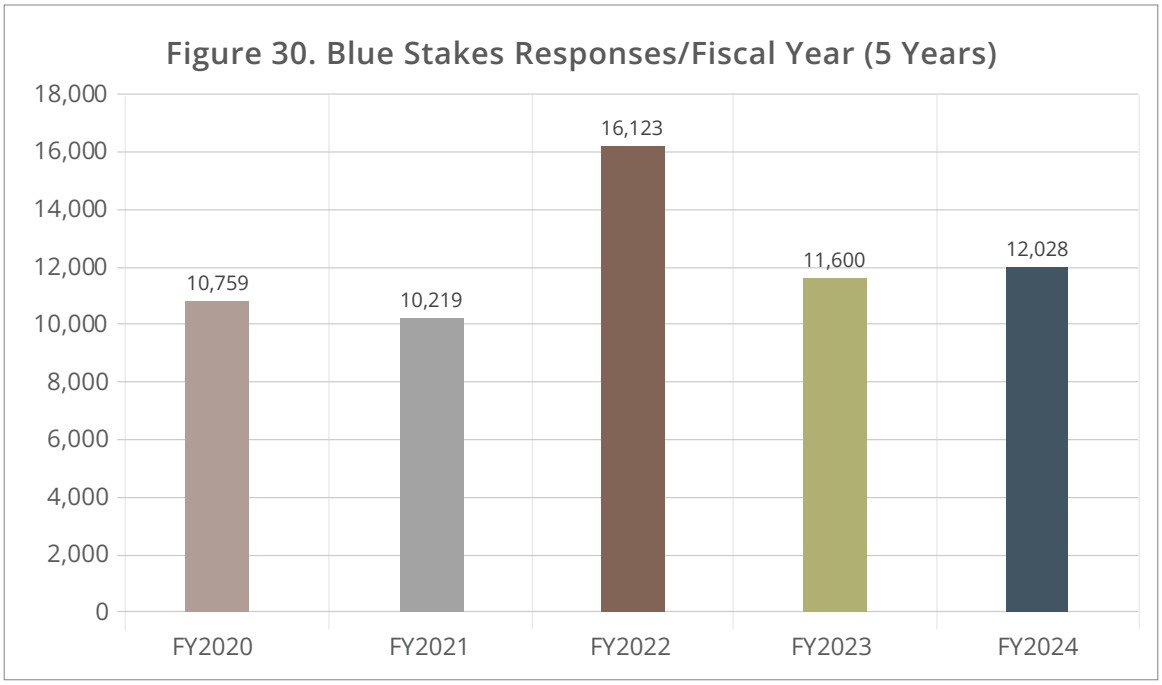
a) US and Canada average break rate applied to District's system = 47 breaks per year [Comprehensive Main Break Rate Study, Folkman, 2018].

b) AWWA 2019 Benchmarking Report National median break rate applied to District's system = 30 breaks per year.

Blue Stakes Inspections

The District's Pipeline Maintenance Division is responsible for responding to Blue Stakes Requests throughout our service area. Blue Stakes of Utah 811 is the non-profit membership association formed by Utah's facility owners, including JVWCD, to protect underground facilities and minimize service interruptions. Figure 29 shows a five-year comparison of the number of Blue Stakes Requests per month. When a blue stakes ticket request is received, the digging/excavation isn't always near our utilities. Those are cleared as 'no conflict', meaning we didn't have to go out and mark anything. If it is near our utilities then a response is required. Figure 30 compares the total number of responses to Blue Stakes requests over the past five fiscal years.





Changes in the number of retail connections over time can be found in Appendix B, Figure B3.

Conservation

Conservation Garden Park

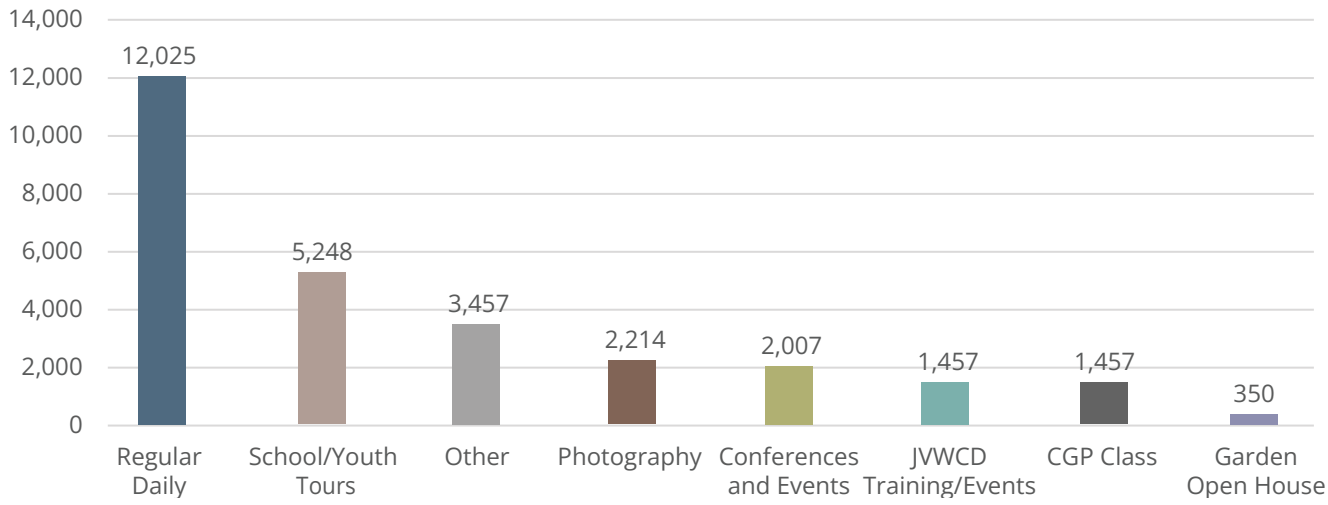
Conservation Garden Park is JVWCD's premier demonstration garden. In addition to assisting visitors at the park, conservation staff teach landscape classes in person and on demand. Figure 53 shows the total garden attendance and lists the number of classes and attendees over the past 5 years. Figure 54 shows a breakdown of garden visitors for fiscal year 2024 by category type.

Figure 31. Garden Attendance (5 Years)

Year	Total Attendance	# of Classes	Class Attendance
FY2024	28,206	50	1,798
FY2023	38,299	44	2,369
FY2022	27,297[1]	31	2,136
FY2021	22,137[2]	22[3]	2,235
FY2020	38,665	47	2,311

1. Restrictions relating to the COVID-19 pandemic began to ease in 2021, but still impacted overall Garden attendance.
2. Heavily impacted by the COVID-19 pandemic.
3. Switched to online classes in March 2020 because of COVID-19 restrictions. Many other demonstration classes and tours were canceled.

Figure 32. Garden Visitor Categories



Conservation Incentive Programs

Jordan Valley Water Conservancy District runs conservation programs throughout its retail area, and also helps facilitate statewide programs such as toilet and smart controller rebates. Figures 55-58 detail these programs. The Member Agency Grant Program (Figure C1 in Appendix C) is available to our member agencies to help offset costs associated with conservation efforts.

Figure 33. Conservation Incentive Programs (2 Years)

Toilet Rebates within JVWCD	FY2024	FY2023
# of Toilet Rebates Issued	125	157
Average Toilet Rebate Amount	$176	$128
Total rebates distributed	**$15,721**	**$20,164**
Smart Controller Rebates within JVWCD		
# of Smart Controller Rebates Issued	888	800
Average Smart Controller Rebate Amount	$74	$74
Total rebates distributed	**$66,089**	**$59,191**
Flip Your Strip and Localscapes Rewards[1]		
# of Rebates Issued	76	343
Average Rebate Amount	$1,373	$1,476
Total Rebates Distributed	**$104,331**	**$412,364**
Landscape Incentive Program[2]		
# of Rebates Issued	228	-
Turf Replacement Sq Ft	509,662	-
Switch to Drip Sq Ft	2090	-
Treebate # of Trees Planted	22	-
Average Rebate Amount	$4,895	-
Total Rebates Distributed	**$1,116,065**	

1. Programs phased out in FY2024
2. Program phased in in FY2024

Figure 34. Localscapes Partners (2 Years)

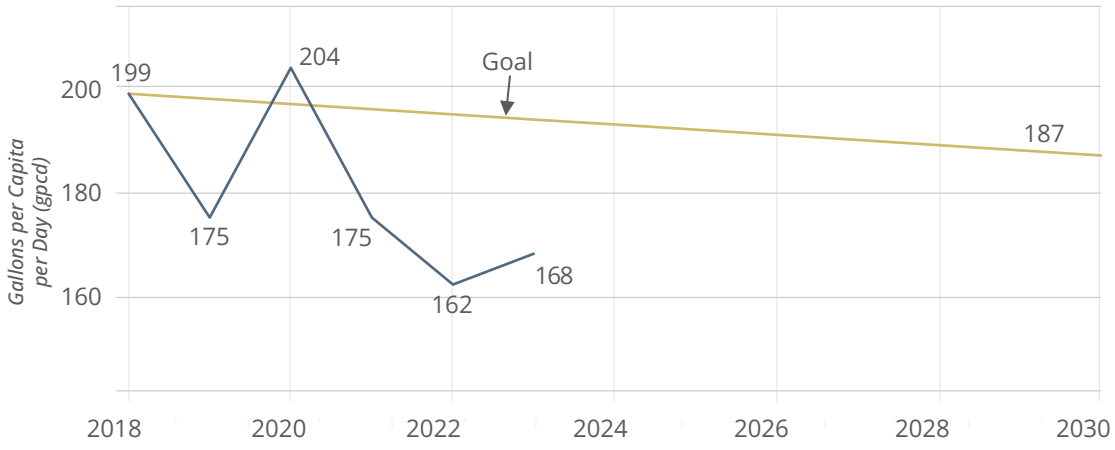
Partnership Category	FY2024	FY2023
Founding Partners[1]	4	4
Agency and Educational Partners[2]	13	13
Professional Partners[3]	0	107
Retail Partners[4]	27	27
Totals[5]	**44**	**151**

1. CUWCD, JVWCD, WBWCD, and WCWCD
2. Water providers and educational institutions committed to teaching and promoting Localscapes principles.
3. Discontinued this aspect of the partnerships.
4. Businesses that sell products enabling Localscapes, and, when discussing Localscapes, provide landscape solutions that align with the approach.
5. These numbers represent a running total and carry over from year to year.

Water Conservation Goal

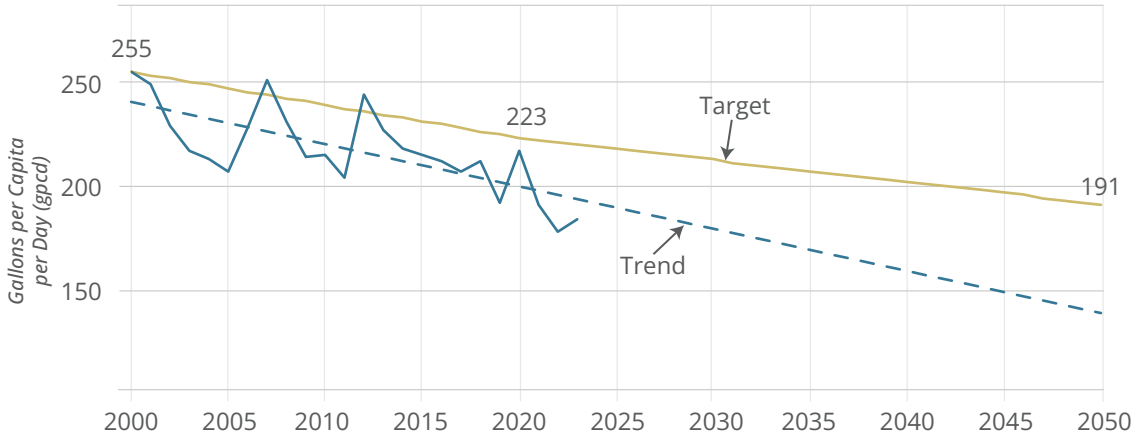
JVWCD's current goal is to decrease gallons per capita per day (gpcd) water usage to 187 gpcd by 2030 based on Utah's 2019 "Regional M&I Water Conservation Goals" report. JVWCD tracks end usage per capita (water delivered divided by total population) to help track water conservation efforts. While weather conditions may cause fluctuations in water use from year to year, a decreasing trend generally indicates conservation progress. Gross water usage per capita (all water supplies going into our system, divided by total population) is tracked to ensure we are compliant with our Utah Lake System agreement. Figures 35 and 36 show water use in comparison to our goal.

Figure 35. Annual End Usage per Capita (6 years)



2030 End use goal is 187 gpcd by 2030

Figure 36. Annual Gross Usage per Capita (23 years)



ULS Project Target Line is 12.5% by 2020 and 25% by 2050
Trend line is tied to ULS Compliance

Great Salt Lake Water Releases

Due to very low water levels in the Great Salt Lake, Utah's Legislature has taken steps to help stabilize and restore the lake. They created the Great Salt Lake Trust to work with water rights owners to increase water flow to the lake. In 2022, JVWCD identified some lower Jordan River water rights it could temporarily allocate to the lake and began working with the trust. In June 2023, the State Engineer approved a plan to release about 12,000 acre-feet (AF) of water to the lake each year for five years, starting in 2023. The 2023 release was successfully completed.

JVWCD is also helping to facilitate another release of 10,000 AF from Utah Lake to Great Salt Lake, involving water rights from JVWCD, the Church of Jesus Christ of Latter-day Saints, and the Welby Jacob Water User's Company. This plan was approved in December 2023, and the water release is expected to begin in September 2024.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Engineering

Capital Projects

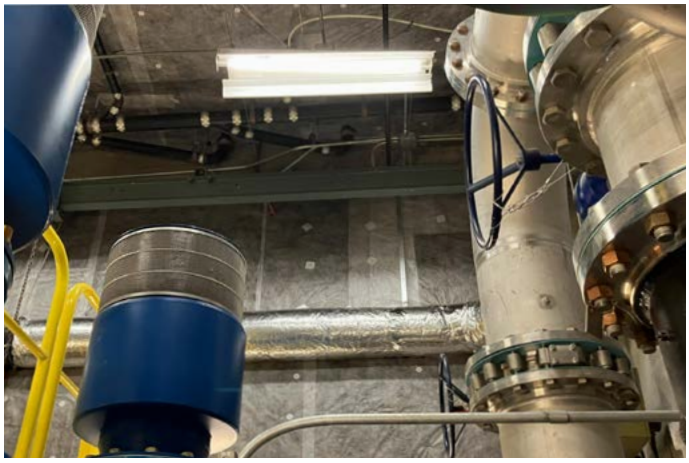
The Engineering Department completed 14 capital projects in the past fiscal year, with more than a dozen more ongoing.

Figure 37. Projects Completed

Project	Engineering Cost	Construction Cost
JVWCD Headquarters Upper Campus Site & Improvements	$436,517	$1,241,664
Old Bingham Highway Equipment Storage Building	$53,707	$703,097
JA-3 Cathodic Protection System	$79,650	$156,592
11800 South Pump Station Upgrades	$48,012	$865,252
JVWTP Blower Room Acoustical Improvements	$33,488	$103,402
Install Pump #1 at Old Bingham Pump Station	Staff Design	$365,370
2022 Distribution Pipeline Replacements - Redmaple Area	Staff Design	$1,841,395
JVWTP Sedimentatin Basins 3-6 Equipment Replacement	$550,239	$20,709,122
Zone "D" Reservoir Erosion Control Plan	$19,100	$114,255
JA-1 and Southeast Collection Line Condition Assessment	$1,397,412	$419,800
Southwest Groundwater Well Improvements	$9,500	$408,548
1590 East Well Development	$13,600	$420,463
JVWTP Boilers Replacement Project	$32,750	$628,301
SERWTP Boilers and Controls Upgrades	$33,650	$220,612

Figure 38. Capital Projects Budget Status Report

	Total
Capital Projects Budget (Gross)	$73,105,650
Budgeted Reimbursement	($11,889,642)
Capital Projects Budget (Net)	$61,216,008
Capital Projects Gross Expenditures (Unaudited)	$40,549,944



Administration

Safety

JVWCD tracks the safety of each department using the Occupational Safety and Health Administration's (OSHA) definition of recordable injuries as well as vehicle crashes. Figures 39-44 summarize the District's injury and vehicle crash rates by department, type, and cost.

Figure 39. OSHA Recordable Injuries[1]

Date	Type of Injury	Light duty restriction (days)	Days away from work	Workers Comp Paid to Date[2]	Department
8/13/2023	Sprains and Strains	6	0	$504	Operations
Total		**6**	**0**	**$504**	

1. Any work-related death, or any injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid.
2. Costs are subject to change over time as files close that are open at year end.

Figure 40. OSHA Recordable Injury Incident Rates (5 Years)

Fiscal Year	Average Employee Hours Worked[1]	# of Injuries	Incident Rate[2]	Workers Comp Paid to Date
FY2024	333,784	1	0.6	$504.00
FY2023	317,536	3	1.9	$18,413
FY2022	319,408	4	2.5	$2,973
FY2021	317,568	2	1.3	$5,997
FY2020	311,300	3	1.9	$999

Performance Indicators

Less than 5.7 | 5.7 - 8.0 | Greater than 8.0

1. Number of employees x 2,000 (2000 hours is the average number of hours an employee works per year and is the number that OSHA recommends for calculating incident rates)
2. Total injuries x 200,000, divided by number of employee hours worked.

Figure 41. OSHA Recordable Injury Incident Rates by Dept. (5 Years)

Dept.	FY2024	FY2023	FY2022	FY2021	FY2020	5-yr Avg
Admin, etc	0.0	3.0	0.0	1.5	1.6	1.22
Maintenance	0.0	2.1	6.1	0.0	3.9	2.42
Operations	2.1	0.0	2.4	2.2	0.0	1.34

Performance Indicators

Less than 5.7 | 5.7 - 8.0 | Greater than 8.0

Safety *(cont.)*

In fiscal year 2024, the District received a Perfect Record Award from the Utah Safety Council recognizing 12 consecutive months without an OSHA recordable injury, illness, days away from work or death and an Award of Merit in recognition and appreciation of outstanding safety performance. The District also received a System Safety Award from the AWWA Intermountain Section for outstanding safety performance.

Safety *(cont.)*

Figure 42. Vehicle Crashes[1]

Date	Type	District Cost	Department
7/11/2023	Other	$0	Maintenance
9/13/2023	Backing	$1,101	Operations
9/19/2023	Collision	$1,928	Maintenance
9/28/2023	Backing	$0	Maintenance
11/20/2023	Rear-End	$5,617	Operations
2/29/2024	Collision	$0	Administration
2/29/2024	Rear-End	$0	Administration
3/12/2024	Other	$146	Maintenance
5/7/2024	Collision	$3,779	Maintenance
5/16/2024	Collision	$0	Maintenance
Total		**$12,571**	

1. Vehicle Crash: an incident where an employee is driving any type of vehicle which collides with anything that causes damage to the vehicle or the object hit; or that results in medical expenses or bodily injury for anyone involved.

Figure 43. Vehicle Crash Incident Rates (5 Years)

Fiscal Year	Miles Driven	# of Crashes	Incident Rate[1]	District Cost[2]
FY2024	587077	10	1.7	$12,570
FY2023	600,311	4	0.7	$5,341
FY2022	584,091	13	2.2	$15,463
FY2021	628,231	15	2.4	$38,760
FY2020	542,740	9	1.7	$7,905

Performance Indicators

Less than 1.8 | 1.8-2.3 | Greater than 2.3

1. Total crashes x 100,000, divided by number of miles driven.
2. Total cost for all repairs for all parties involved. Subject to change if any cases are open.

Figure 44. Department Crash Rates (5 Years)

Dept.	FY2024	FY2023	FY2022	FY2021	FY2020	5-yr Avg
Admin, etc	1.7	0.8	1.1	1.3	1.5	1.28
Maintenance	1.9	0.6	3.0	3.7	2.0	2.24
Operations	1.3	1.2	1.5	1.7	1.1	1.36

Performance Indicators

Less than 1.8 | 1.8-2.3 | Greater than 2.3

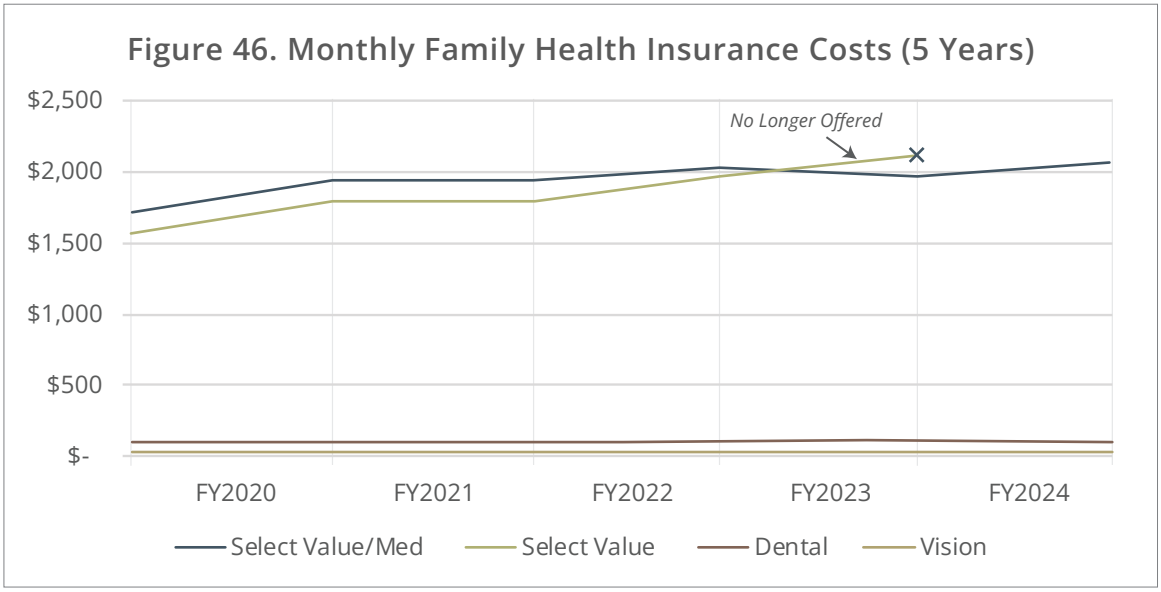
Human Resources

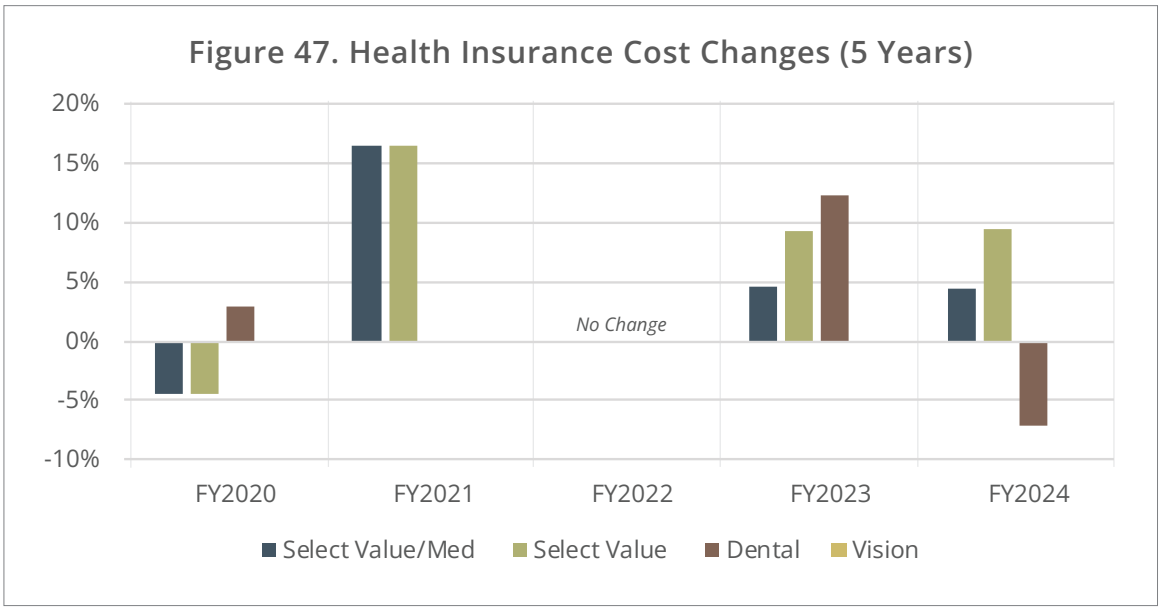
The Human Resources Department is dedicated to supporting our employees and fostering a positive work environment. By tracking key metrics such as recruitment, retention, and the costs of benefits, Human Resources ensures that we maintain a motivated and effective workforce while managing resources efficiently—essential for achieving operational success. Figures 45-47 show these metrics over time, as does Figure D1 in Appendix D.

Figure 45. Personnel History (5 Years)

Calendar Year	FY2024	FY2023	FY2022	FY2021	FY2020
Full-time Authorized Positions	163	160	156	152	150
Part-time Positions	0	0	0	0	0
New Positions Authorized	3	4	2	0	0
Position Title	Maintenance Worker	Right-of-Way Engineer	-	-	-
	Maintenance Worker	Meter Section Supervisor	Pipeline Maintenance	-	-
	Pipeline Maintenance Lead	Conservation Supervisor	System Administrator	-	-
Turnover - # of Terminations	26	34	19	12	16
Retirements	5	9	4	3	6
Turnover Rate	16.80%	21.90%	12.50%	8.00%	10.81%
Employees per 1,000 AF of Water Delivered	1.20	1.22	1.23	1.02	1.04
AF delivered per employee	833	818	814	981	964

Human Resources *(cont.)*





Financials

Figure 48 compares the budgets from fiscal year 2024 to fiscal year 2025 budget. Figure 49 compares the actual sources and uses of funds for the five previous fiscal years.

Figure 48. Budget Overview (2 Years)

	FY2024 Budget	FY2025 Budget	Budget to Budget	
			Variance $	Variance %
Sources of Funds				
Water Sales - Wholesale	$54,767,689	$58,959,984	$4,192,295	7.65%
Water Sales - Retail	7,212,387	7,743,193	530,806	7.36%
Property Tax Revenue	28,731,637	29,461,200	729,563	2.54%
Investment Income	3,943,800	5,575,700	1,631,900	41.38%
Connection Fees	435,000	416,000	(19,000)	-4.37%
Other	3,575,000	1,530,000	(2,045,000)	-57.20%
Subtotal	*98,665,513*	*103,686,077*	*5,020,564*	*5.09%*
Revenue Stabilization Fund	5,663,452	5,187,684	(475,768)	-8.40%
Capital Projects Fund (net)	61,216,008	67,237,699	6,021,691	9.84%
Capital Projects Fund (Reimbursement)	11,889,642	6,547,432	(5,342,210)	-44.93%
JVCGF Contributions	-	-	-	N/A
Total Sources	**$177,434,615**	**$182,658,892**	**$5,224,277**	**2.94%**
Uses of Funds				
Water Purchases	$19,449,887	$20,487,421	$1,037,534	5.33%
Operation and Maintenance Expenses	12,255,706	13,043,490	787,784	6.43%
General and Administrative Expenses	7,552,953	5,414,636	(2,138,317)	-28.31%
Personnel Expenses	20,467,172	21,442,591	975,419	4.77%
Subtotal	**59,725,718**	**60,388,138**	**662,420**	*1.11%*
Capital Projects (Gross)	73,105,650	73,785,131	679,481	0.93%
JVCGF Contribution Projects	-	-	-	N/A
Total Operating and Capital Uses	**$132,831,368**	**$134,173,269**	**$1,341,901**	**1.01%**
Net Operating Revenues	$44,603,247	$48,485,623	$3,882,376	8.70%
Debt Service Payments	(25,405,675)	(28,494,500)	(3,088,825)	12.16%
Debt Service Coverage Ratio	1.76	1.70		
Amount Available to Transfer to Reserves from Operations	**$19,197,572**	**$19,991,123**	**$793,551**	**4.13%**

Financials *(cont.)*

Figure 49. Completed Fiscal Years Financial Results (5 Years)

	FY2023 Actual[1]	FY2022 Actual	FY2021 Actual	FY2020 Actual	FY2019 Actual
Sources of Funds					
Water Sales - Wholesale	$50,208,938	$48,200,098	$53,008,777	$51,305,372	$44,116,589
Water Sales - Retail	6,458,499	6,052,698	7,548,576	7,115,527	7,148,704
Property Tax Revenue	26,373,984	24,204,336	21,133,800	20,281,934	20,063,290
Investment Income	3,468,438	584,237	638,942	1,900,885	2,260,091
Connection Fees	205,960	336,820	567,778	474,389	494,319
Other	3,571,066	1,587,432	2,530,587	1,871,210	1,568,813
Subtotal	*90,286,885*	*80,965,621*	*85,428,460*	*82,949,317*	*75,651,806*
Revenue Stabilization Fund	8,402,108	5,590,263	4,699,127	1,345,760	-
Capital Projects Fund (net)	40,713,922	13,970,831	12,895,911	31,028,162	42,393,937
Capital Projects Fund (Reimbursement)	3,772,873	971,104	577,537	1,235,989	289,903
JVCGF Contributions	-	-	46,976	140,100	350,000
Total Sources	**$143,175,788**	**$101,497,819**	**$103,648,011**	**$116,699,328**	**$118,685,646**
Uses of Funds					
Operation and Maintenance	$52,028,894	$47,992,982	$46,870,156	$44,001,460	$41,143,238
Bond Principal and Interest	23,301,654	21,891,591	22,040,296	22,003,217	20,365,220
Transfers to Reserve Funds:					
Replacement Reserve Fund	14,155,949	10,898,744	10,810,901	6,060,262	5,458,272
Capital Projects Fund	1,554,301	-	649,160	-	-
Development Fee Fund	205,960	336,820	567,778	474,389	494,319
General Equipment Fund	900,000	700,000	700,000	679,400	800,000
Emergency Reserve Fund	100,000	200,000	200,000	300,000	300,000
Interest Allocated to Funds	2,355,299	387,169	434,238	1,249,681	1,310,849
Short-Term Operating Reserve	3,386,936	-	-	-	-
Revenue Stabilization Fund	-	3,648,578	7,655,058	9,126,668	5,079,908
Revenue Fund	500,000	300,000	-	100,000	200,000
Operation and Maint. Fund	200,000	200,000	200,000	300,000	500,000
Total Transfers	23,358,445	16,671,311	21,217,135	18,290,400	14,143,348
Subtotal	*98,688,993*	*86,555,884*	*90,127,587*	*84,295,077*	*75,651,806*
Capital Projects (Gross)	44,486,795	14,941,935	13,473,448	32,264,151	42,683,840
JVCGF Contribution Projects	-	-	46,976	140,100	350,000
Total Uses	**$143,175,788**	**$101,497,819**	**$103,648,011**	**$116,699,328**	**$118,685,646**

1. Note: final results for fiscal year FY2024 are not yet available. FY2023 is the most recent year.

Appendix

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Appendix A
Operations

Water Supply History

The majority of JVWCD's water is stored in three reservoirs, Utah Lake, Jordanelle, and Deer Creek. Figures A1-A3 show the fluctuation of water levels caused by both weather and use from year to year and month to month over the past five years. The levels are shown by elevation.

Figure A1.
Jordanelle Reservoir
Water Levels
(5 Years)

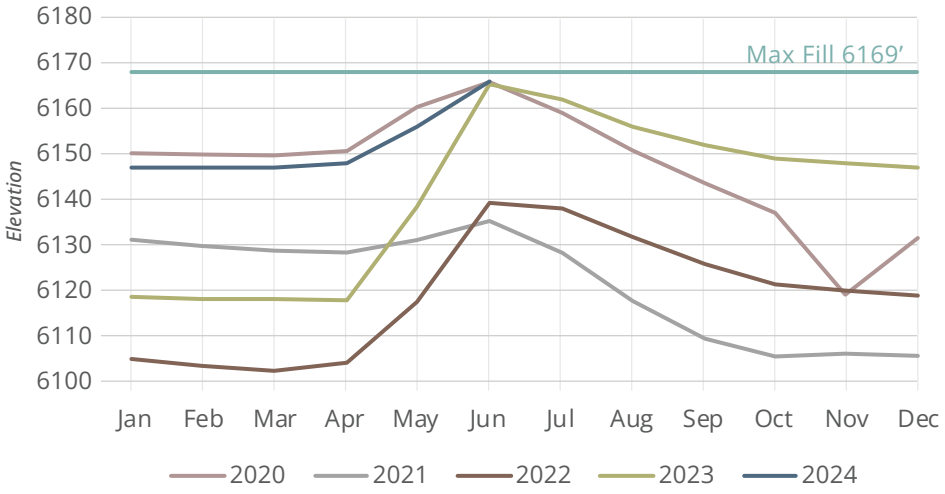


Figure A2.
Deer Creek Reservoir
Water Levels
(5 Years)

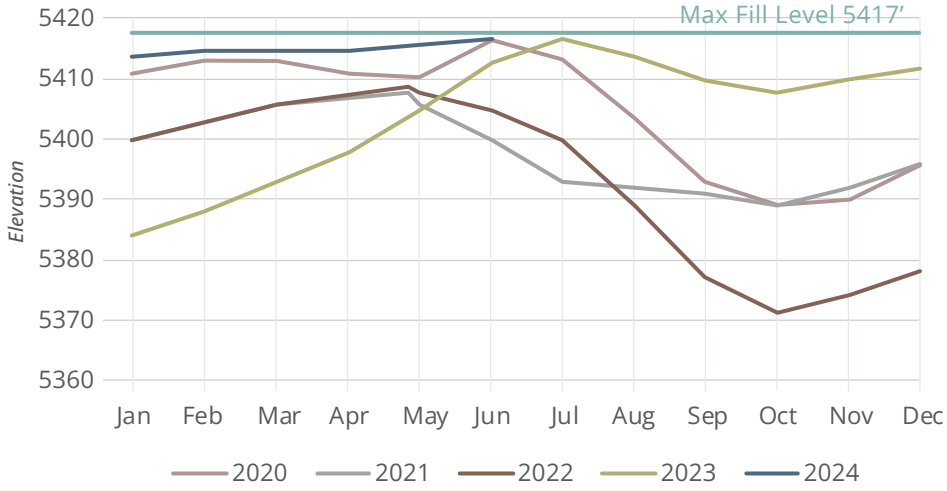
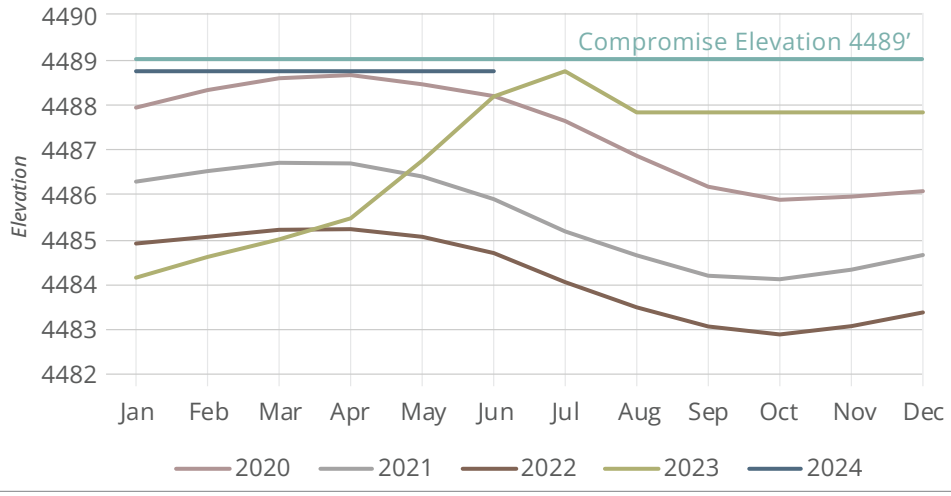


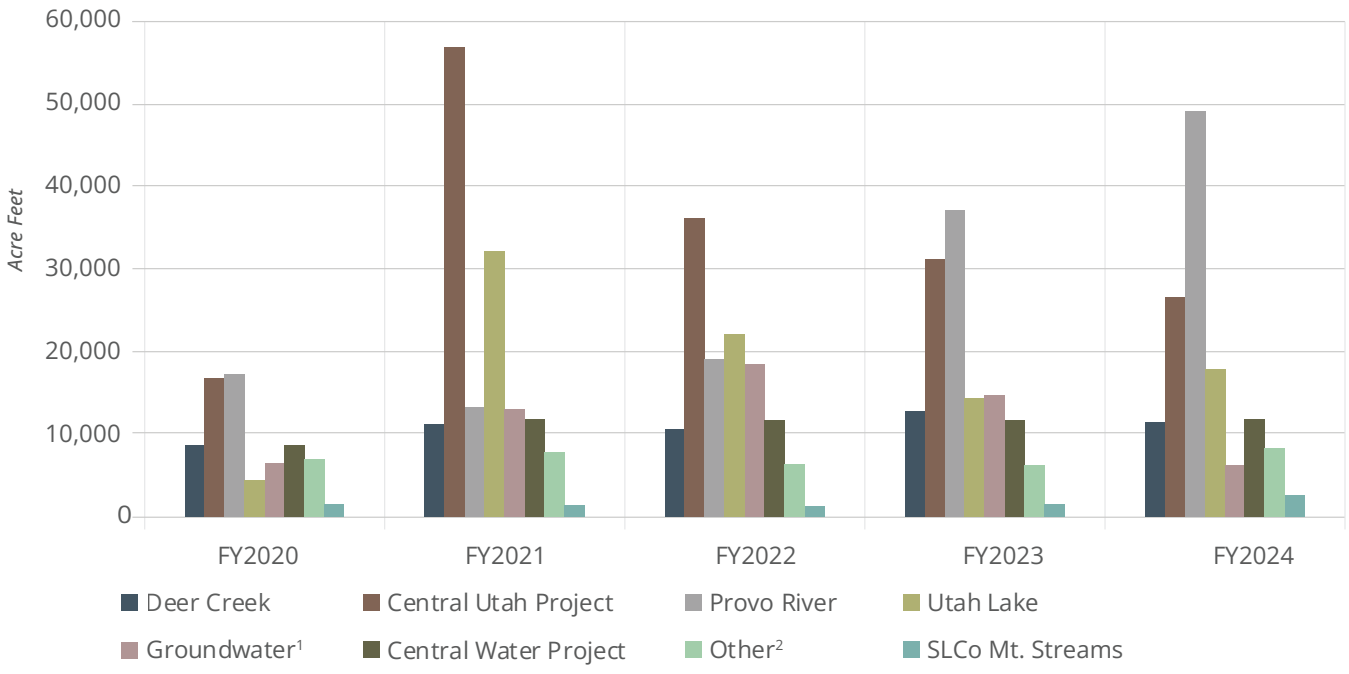
Figure A3.
Utah Lake
Water Levels
(5 Years)



Water Supply History *(cont.)*

Figure A4 shows how much water, in acre feet, was used from each source for the past five fiscal years.

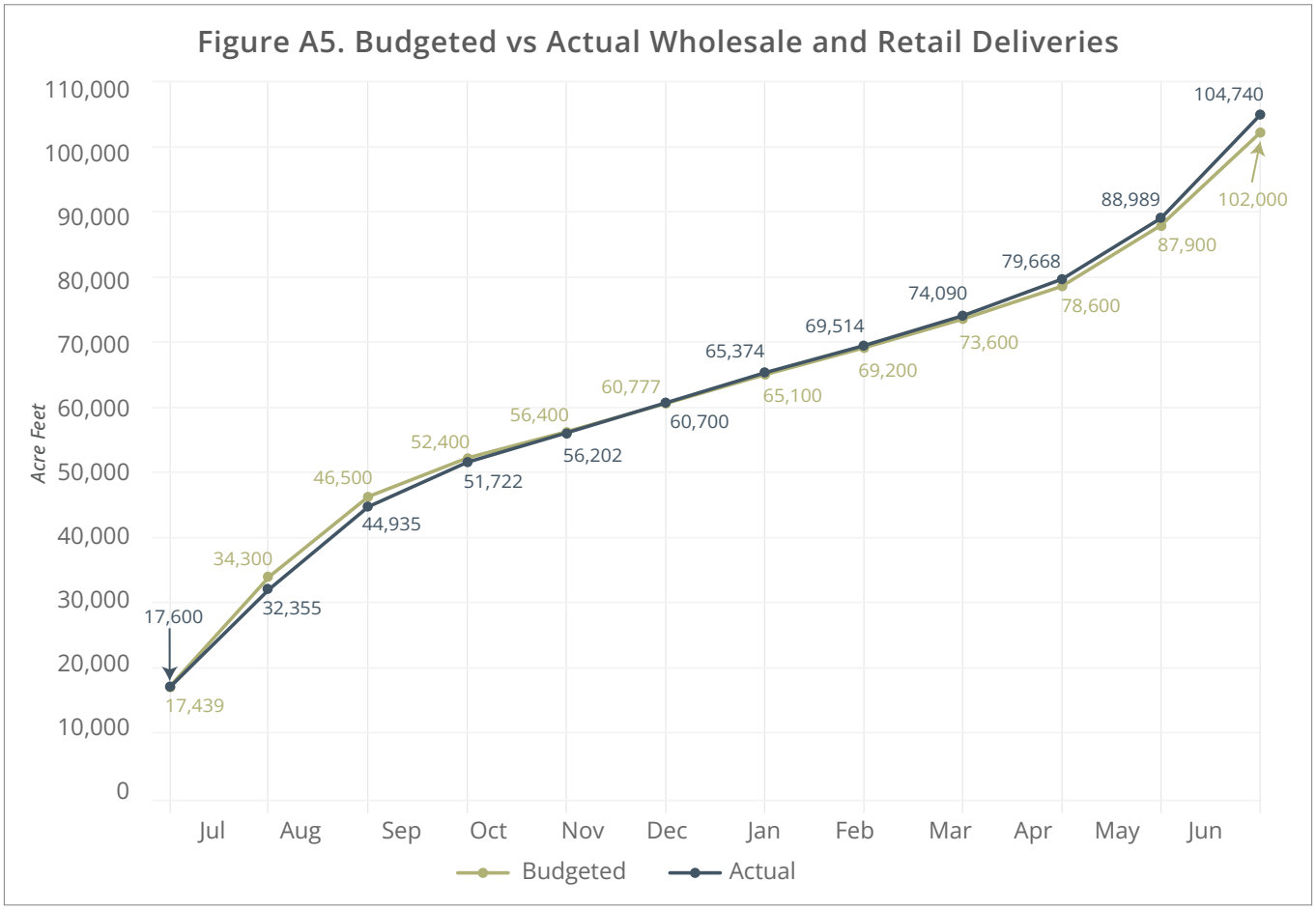
Figure A4. Raw and Finished Source Supplies (5 Years)

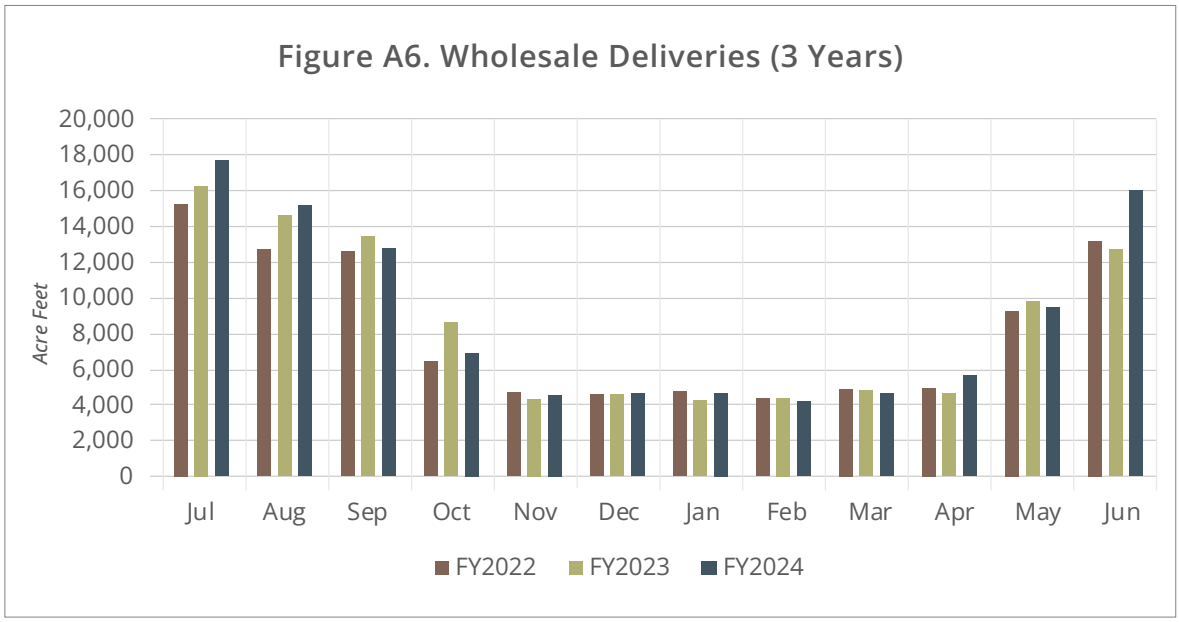


1. Includes treated water from SWGWTP
2. Upper Provo River reservoirs, Weber River, Echo Reservoir, Bingham Canyon WTP

Wholesale Deliveries *(cont.)*

Figures A5 and A6 show our actual deliveries compared to our budgeted amount for fiscal year 2024, and the monthly deliveries for the past three years.





Coliform and Free Chlorine Residual Compliance

Figure A7 summarizes our compliance with the Revised Total Coliform Rule, the Groundwater Rule, and the Surface Water Treatment Rule requirements to maintain a disinfectant residual in the distribution system.

Figure A7. Coliform Samples and Free CL Residual

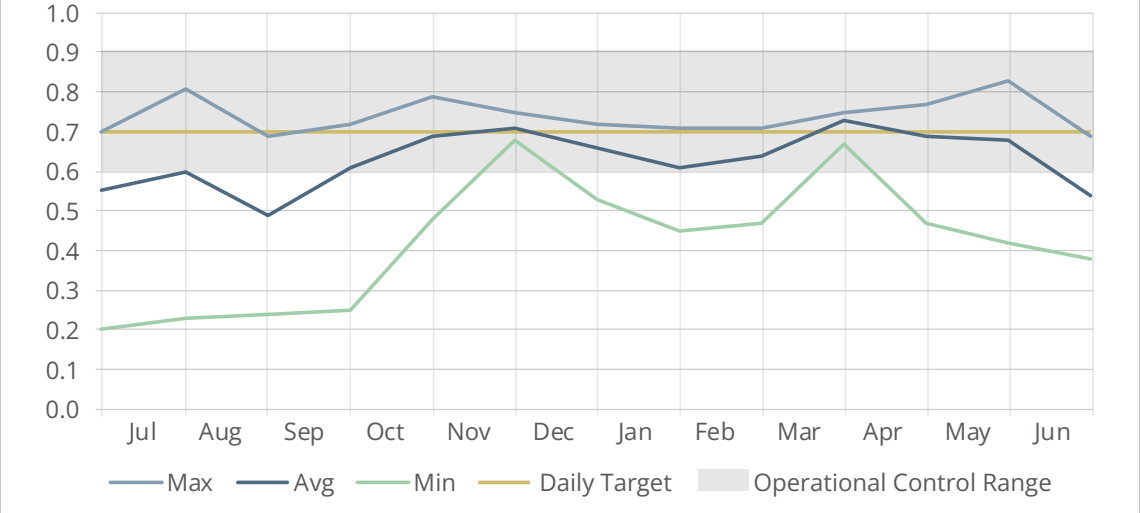
Month	# of Samples Analyzed[1]	# Total Coliform Positive	# Fecal Coliform Positive	# HPC Samples Taken	# GWR Samples Taken	Free Chlorine Residual (mg/L)		
						Avg.	Max.	Min.
July	109	0	0	0	9	1.28	0.77	0.12
August	133	0	0	2	0	1.13	0.68	0.01
September	121	0	0	1	0	1.19	0.63	0.01
October	133	0	0	3	0	1.08	0.67	0.06
November	118	0	0	3	0	1.08	0.66	0.01
December	120	0	0	0	0	1.39	0.78	0.13
January	123	0	0	0	0	1.46	0.85	0.1
February	118	0	0	0	0	1.38	0.78	0.07
March	104	0	0	0	0	1.08	0.69	0.15
April	103	0	0	0	0	1.1	0.71	0.15
May	106	0	0	0	0	1.4	0.78	0.09
June	105	0	0	0	2	1.31	0.75	0.05
Totals	**1393**	**0**	**0**	**9**	**11**			

1. Number of samples collected and tested depends on the population served.

Fluoride

Fluoride is regulated county-wide by Salt Lake Valley Health Department. Compliance is based on a system-wide annual average with a daily average target of 0.7 mg/L staying within the Operational Control Range of 0.6-0.9 mg/L.

Figure A8. System-Wide Fluoride Concentration (mg/L)



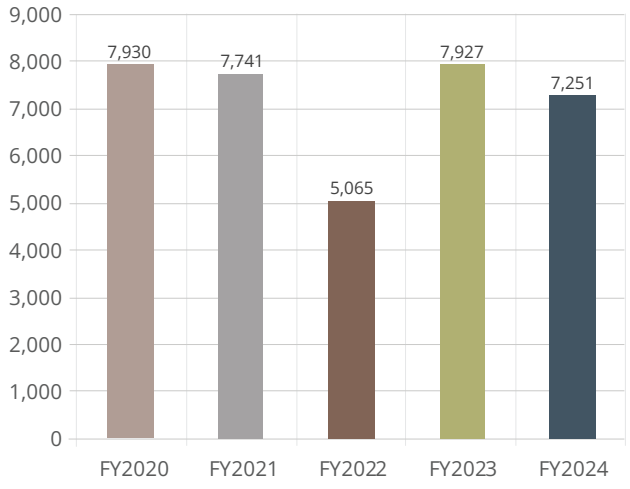
Total Samples Collected

Sampling sites include JVWTP, SERWTP, SWGWTP, distribution system, mountain streams, Jordan and Provo Rivers, and various sites in response to customer calls. Data includes samples collected by Operations and Water Quality Section personnel. Figure A9 shows a breakdown of samples collected in fiscal year 2024. Figure A10 shows annual totals for the past five fiscal years.

Figure A9. Samples Collected

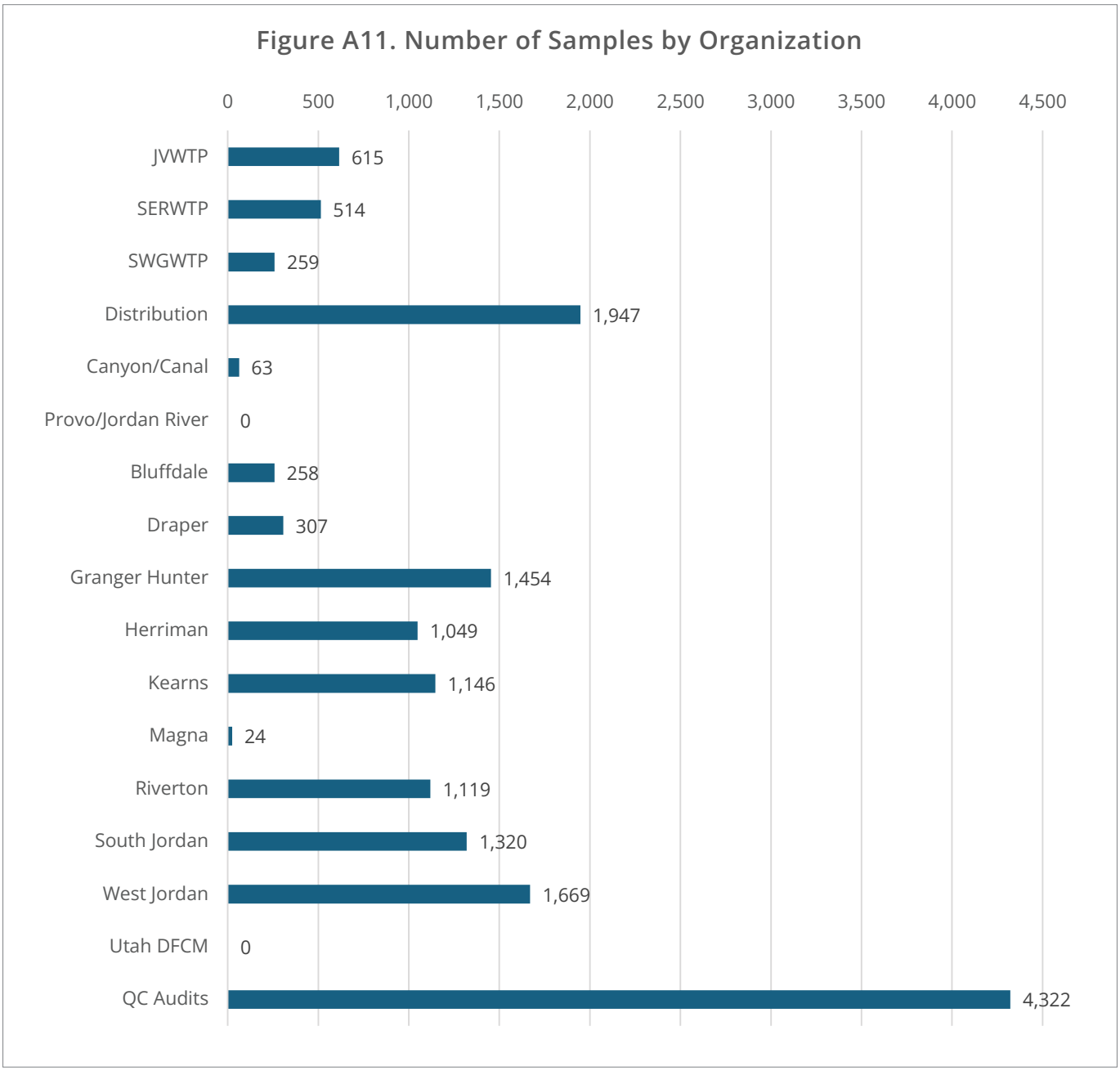
Parameter	No. of Samples
Field Tests (Cl2, Cond, ORP, pH, TDS, Temp, Turb)	**3006**
Microbiological	**1738**
Coliform	1679
Quantitray	44
Heterotropic Plate Count	15
Fluoride	**542**
Organic Material	**535**
Total Organic Carbon	243
UV 254	292
Disinfection By-Products	**310**
TTHMs	137
HAA5	137
Chlorite	36
Alkalinity	**225**
TDS (Total Dissolved Solids)	**210**
Discharge Permit Compliance	**157**
TSS & Selenium	113
Low Level Mercury	44
Calcium	**143**
Inorganics (37 parameters)	**142**
Inorganics & metals	10
Complete Inorg. Source	132
Taste and Odor/Aesthetics	**116**
Geosmim & MIB	87
Color	29
Other*	**65**
Hardness, Total	**23**
Pharmaceuticals / PCPs (37 parameters)	**22**
Nitrate	**7**
Volatile Organic Compounds (58 parameters)	**4**
Solids (Sludge, 15 parameters)	**4**
Pesticides	**2**
Total	**7,251**

Figure A10. Samples Collected (5 Year)



Jordan Valley Laboratory

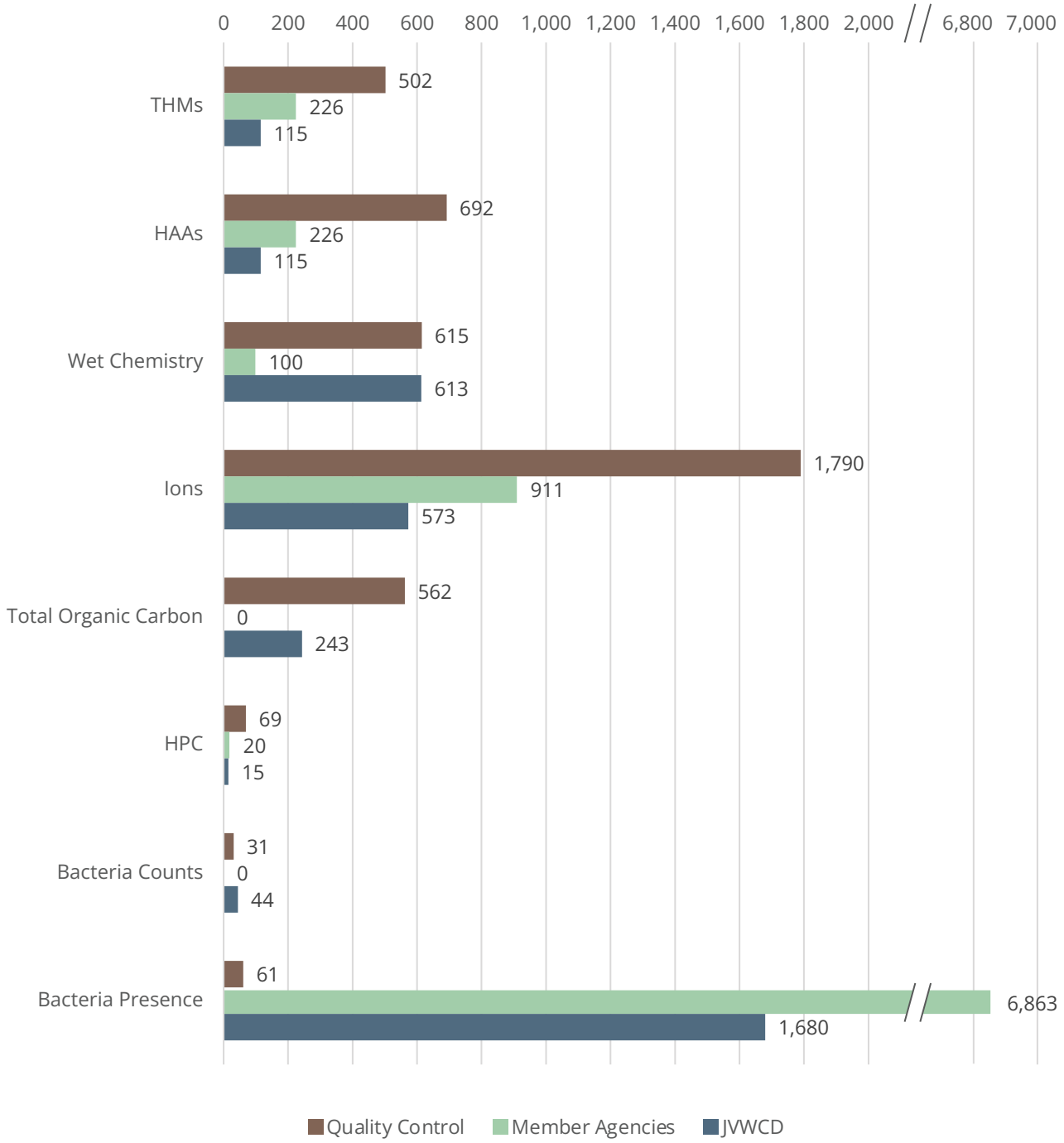
The Jordan Valley Laboratory provides analytical services and general support for the District. This allows the District to lower the budget required for outside analysis and provide customized service. The lab also provides analytical services for many of the District's member agencies at discounted prices. Figures 11A shows the number of samples analyzed by organization.



Jordan Valley Laboratory *(cont.)*

Samples collected and anylized by the Jordan Valley Laboratory can be grouped into eight types and divided into three categories. Figure A12 shows the number of samples analyzed by type and category.

Figure A12. Number of Samples by Type



ASR Operations

Jordan Vally Water operates a flow control/pump station at 10800 S. 1300 E. The station is located on the 30-inch pipeline on 1300 E. between 11400 S. and 9400 S. This pipeline and station allow Jordan Valley Water to convey water from its treatment plants to areas that previously received well water or water purchased from Metropolitan Water District of Salt Lake and Sandy.

Any water from the treatment plants serving areas north through this station is considered "saved water" in Jordan Valley Water's conjunctive management agreement with Central Utah Water Conservancy District. Figure A13 shows the water produced and saved for FY2024.

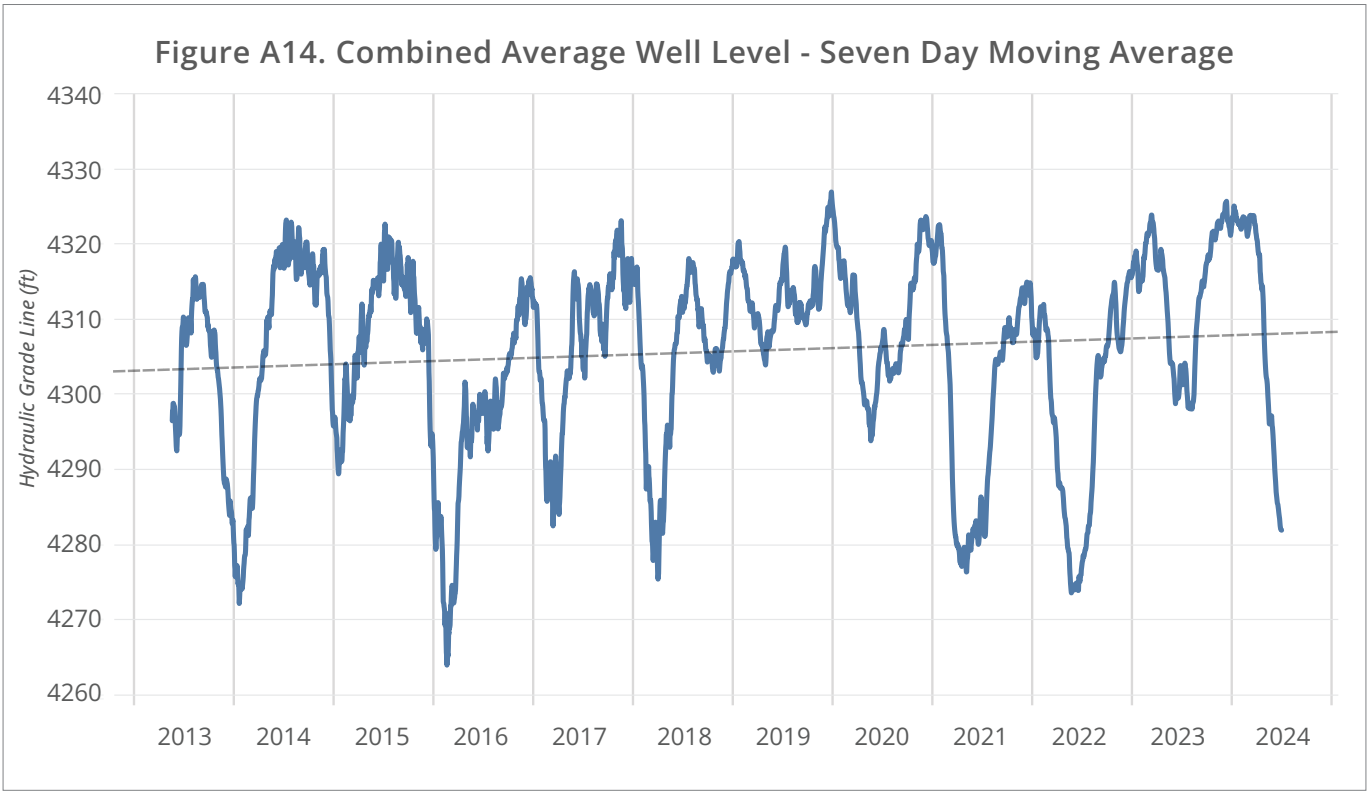
Figure A13. 10800 S. 1300 E. Pump Station

	Injected for Underground Storage (AF)	10800 S. (North Flow) (AF)	Total (AF)	Net Saved (AF)	Total Well Production (AF)
July	0	720	720	720	833
August	0	535	535	535	964
September	0	349	349	349	1,136
October	0	462	462	462	189
November	0	568	568	568	0
December	0	675	675	675	66
January	0	679	679	679	83
February	0	565	565	565	3
March	0	451	451	451	0
April	73	483	556	483	0
May	205	667	872	667	181
June	20	541	561	541	805
Totals	**298**	**6,696**	**6,994**	**6,696**	**4,261**

ASR Operations *(Cont.)*

Monitoring and reporting for the Aquifer Storage and Recovery (ASR) project is regulated by the Division of Water Quality's Underground Injection Control permitting process. The water injected at each of the injection wells comes from either the JVWTP or SERWTP and meets all drinking water regulations since the water is injected directly from the distribution system.

Figure A14 shows an average of groundwater levels monitored at wells throughout the District to track aquifer recovery over time.



System Storage

Finished water reservoirs are designed to equalize water demands and reduce pressure fluctuations in the distribution system. They also provide reserves for firefighting, power outages, and other emergencies. Operation of these reservoirs is critical for optimizing water deliveries and managing water quality. Annual inspections and cleaning are important to protect against corrosion and make needed repairs to prolong the life of these facilities. Figure A15 shows a summary of the District's storage facilities by type and year built as of fiscal year 2024.

Figure A15. System Storage Summary

Address (Informal)	Size	Type	Yr. Built	Last Inspected	Elevation (ft)	
					Floor	Overflow
14445 S. Minuteman Dr. (Prison)	0.4 MG (W)	Concrete	1950	2018	4640	4652
	0.2 MG (E)	Concrete	1930	2021		
11574 S. Wyndcastle (SERWTP)	1 MG	Concrete	1983	2021	4992	5012
	3 MG	Concrete	2003	2021	4994	5016
15305 S. 3200 W. (JVWTP)	1 MG	Concrete	1974	2022	4967	4983
	8 MG	Concrete	1974	2019	4703	4725
	1 MG	Steel	1974	2019	4773	4805
	12.5 MG	Concrete	2016	2021	4703	4724
14408 S. 5600 W. (Rosecrest)	3 MG	Concrete	2000	2021	5120	5148
3815 W. 5820 S. (Terminal)	16.5 MG	Concrete	1984	2021	4580	4610
	16.5 MG	Concrete	1984	2022		
	33 MG	Concrete	1997	2021		
	33 MG	Concrete	1997	2023		
7986 W. New Bingham Hwy. (Zone D Basins 1 and 2)	3 MG (N)	Concrete	2008	2022	5355	5375
	3 MG (S)	Concrete	2008	2022		
2718 E. Durban Rd. (2300 E. 9400 S.)	1 MG	Steel	1956	2021	4936	4968
	2 MG	Steel	1964	2021		
9785 S. Eastdell Dr. (2300 E. 9800 S.)	6 MG	Concrete	1970	2022	4942	4968
4772 S. Naniloa Dr. (Casto Reservoir)	2 MG	Concrete	1962	2021	4588	4608
6171 S. 3200 W. (32 and 62)	8 MG	Steel	1968	2023	4565	4605
	2 MG (E)	Steel	1961	2021		
	2 MG (W)	Steel	1964	2021		
5211 W. 6200 S. (52 and 62)	2 MG	Concrete	1962	2021	4720	4740
6011 W. 4700 S. (60 West)	1 MG	Steel	1956	2020	4708	4740
	2MG	Concrete	1962	2021	4720	4740
	6 MG	Concrete	1966	2019	4714	4740
4408 S. 4800 W. (48 and 45)	1 MG	Steel	1956	2021	4458	4498
	2 MG	Steel	1956	2021		
	5 MG (E)[1]	Steel	1965	2023		
	5 MG (W)	Steel	1969	2014		
3582 W. 10200 S. (36 and 102)	3 MG	Concrete	1981	2022	4635	4663
5705 W. Old Bingham Hwy. (57 and 102)	3 MG	Concrete	1981	2022	4931	4959
6898 W. Old Bingham Hwy. (Old Bingham)	3 MG	Concrete	1976	2019	5128	5148

1. Tank has been sold to GHID and physical disconnection from JVWCD system is pending completion of a GHID construction project.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Appendix B
Maintenance

Vehicle Summary

The District maintains a fleet of 72 vehicles. Figures B1 and B2 summarize each division's vehicle use over the past year and totals over the past five years for comparison.

Figure B1. Vehicle Maintenance Summary

Division/ Department	No. of Vehicles Assigned	Fuel Used (Gal.)	Miles Driven	Average MPG	Fuel/Fee Costs	Maint Costs FYT
Maintenance	39	31,947	306,643	9.6	$94,165	$32,126
Information Systems/ Electronics & Instrumentation	7	5,427	73,320	13.5	$15,697	$1,231
Operations	20	10,221	163,812	16.0	$30,045	$10,029
Administration/Engineering/ Conservation	6	1,829	42,487	23.2	$5,295	$685
Total	**72**	**49,424**	**586,262**	**11.9**	**$145,202**	**$44,071**

Figure B2. Vehicle Maintenance Totals (5 Years)

Fiscal Year	Fleet Size	Fuel Used (Gal.)	Miles Driven	Average MPG	Fuel/Fee Costs	Maint Costs FYT
FY2024	72	49,424	586,262	11.9	$145,202	$44,071
FY2023	68	51,167	582,784	11.4	$184,558	$23,902
FY2022	66	50,464	565,450	11.2	$154,583	$30,754
FY2021	72	58,456	639,491	10.9	$117,272	$26,882
FY2020	65	49,625	542,740	10.9	$126,036	$37,785
Five-year Average	**69**	**51,827**	**583,345**	**11.3**	**$145,530**	**$32,679**

Pipeline/Valve Summary

Jordan Valley Water maintains about 1.9 million linear feet of pipe (nearly 350 miles), varying in diameter from less than two-inch, up to 90-inch.

Figure B3. Pipeline and Valve Summary

Pipe Diameter (in.)	Pipe Length (LF)	Miles of Pipe	Number of Valves	Percent of System
< 2	18,055	3	32	0.97%
2	4,553	1	103	0.24%
3-4	17,591	3	581	0.94%
6	256,016	48	2345	13.71%
8	303,208	57	1199	16.24%
10	74,020	14	218	3.96%
12	98,339	19	382	5.27%
14	23,266	4	51	1.25%
15-16	140,774	27	141	7.54%
18	113,939	22	60	6.10%
20-21	73,669	14	50	3.95%
24	142,786	27	126	7.65%
27	20,021	4	1	1.07%
28	254	0	0	0.01%
30	92,434	18	81	4.95%
32	0	0	1	0.00%
33	79,759	15	5	4.27%
36	50,830	10	27	2.72%
40	505	0	0	0.03%
42	22,203	4	20	1.19%
45	0	0	3	0.00%
48	88,727	17	36	4.75%
54	294	0	0	0.02%
60	14,874	3	5	0.80%
66	63,607	12	13	3.41%
69	829	0	0	0.04%
72	83,268	16	6	4.46%
78	80,042	15	10	4.29%
84	404	0	1	0.02%
90	2,704	1	3	0.14%
Total:	**1,866,973**	**354**	**5500**	**100.00%**
Total Fire Hydrants	**1463**			

Retail System Connections

JVWCD delivers water to approximately 9,000 connections throughout its retail area. Figure B4 compares total retail connections across the past five fiscal years.

Figure B4. Retail Connections (5 Years)

	FY2024	FY2023	FY2022	FY2021	FY2020
Residential (single-family, duplexes, and HOAs)	7,170	7,164	7,155	7,110	7,058
Residential (apartments)	248	248	244	241	238
Commercial, industrial, institutional	1,160	1,154	1,145	1,139	1,141
Fire lines	574	533	511	498	491
Total Connections	**9,152**	**9,099**	**9,055**	**8,988**	**8,928**
Year over year difference	**53**	**44**	**67**	**60**	**-**

Appendix C
Conservation

Conservation Incentive Programs

Figure C1. Member Agency Grant Program (18 Years)

Member Agency	Passed Efficiency Standards?	Public Education	Product Rebates	Landscape Improvs.	Conserv. Website	Studies/ Reports	Secondary Metering	Scholarship	System Audit	Advanced Metering	Water Efficiency Grant	Total/ Agency
Bluffdale	Yes			$86,000		$21,616	$121,740					**$229,356**
Draper City	Yes			$146,000								**$146,000**
Granger-Hunter	Yes	$173,489	$188,912	$108,182		$28,676			$206,678	$47,320		**$753,257**
Heriman	Yes			$102,191			$52,667				$111,859	**$266,717**
Kearns	Yes	$46,520	$273,104	$219,555		$9,900						**$549,079**
Magna	Yes				$50,000		$35,000					**$85,000**
Riverton	Yes			$73,280							$54,000	**$127,280**
South Jordan	Yes	$8,343	$340,038	$75,737	$2,370	$31,538		$2,000			$53,819	**$513,845**
South Salt Lake	Yes			$77,500		$11,048					$17,500	**$106,048**
Taylor-Bennion	Yes			$62,926								**$62,926**
Water Pro	Yes		$13,360				$254,750					**$268,110**
West Jordan	Yes	$37,500	$17,500	$42,060		$125,780						**$222,840**
White City	Yes											**$0**
Total/Category	**100%**	**$265,852**	**$832,914**	**$993,431**	**$52,370**	**$228,558**	**$464,157**	**$2,000**	**$206,678**	**$47,320**	**$237,178**	**$3,330,458**

Appendix D
Administration

Human Resources

Figure D1. Personnel Costs (5 Years)

Calendar Year	FY2024	FY2023	FY2022	FY2021	FY2020
History of Salary Increases (July 1)					
Merit Increase	6.50%	8.50%	3.50%	4.00%	3.20%
Merit/Step Average	7.10%	3.4% and 5.2%	4.75%	4.76%	4.33%
Merit Range	0 to 12.6%	2% to 24.53%	1.75% to 13.33%	0% to 12.65%	0% to 7.1%
Health Insurance Plan and Costs					
Select Value/Med Tier[1]	Value/Med Tier	SelectMed+	SelectMed+	SelectMed+	SelectMed+
Single	$668.70	$689.80	$659.30	$659.30	$565.40
2-Party	$1,437.80	$1,483.30	$1,417.70	$1,417.70	$1,215.90
Family	$1,972.80	$2,034.90	$1,944.90	$1,944.90	$1,668.00
% Change from Previous	0%	4.70%	0.00%	16.60%	-4.40%
Dental Plan (Cigna)					
Single	$35.61	$33.28	$29.62	$29.62	$29.62
2-Party	$67.54	$63.12	$56.18	$56.18	$56.18
Family	$128.43	$120.03	$106.84	$106.84	$106.84
% Change from Previous	7%	11%	0.00%	0.00%	-7.50%
Vision Plan (Self Insured)					
Single	$8.50	$8.50	$8.50	$8.50	$8.50
2-Party	$18.00	$18.00	$18.00	$18.00	$18.00
Family	$25.00	$25.00	$25.00	$25.00	$25.00
% Change from Previous	0%	0%	0%	0%	0%
Personnel Budget	FY2024	FY2023	FY2022	FY2021	FY2020
Salary and Benefits	$20,412,002	$19,446,391	$17,894,417	$17,192,556	$16,536,173
% Change from Previous	4.50%	8.70%	4.10%	4.00%	-0.30%

1. Our previous two medical networks (Value & Med+) were combined into one called Value/Med Tier Network in 2023.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

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