

Annual Report



View of Mt. Timpanogos from Silver Lake.

ON THE COVER: Welding the Central Pipeline casing at future Porter Rockwell crossing. T. Christensen

ntents

Acronyms used in this publication:

AF: Acre-feet

AMI: Advanced Metering Infrastructure JVWCD: Jordan Valley Water Conservancy District JVWTP: Jordan Valley Water Treatment Plant MGD: million gallons per day SCADA: Supervisory Control and Data Acquisition SERWTP: Southeast Regional Water Treatment Plant

General Managers'

Message

New Logo

Wholesale Member Agencies

1112161821TrusteesCapital ProjectsWater Efficincy
StandardsConservation
ProgramsSources &
Deliveries



Nana Π

A New Generation

A s I reflect on the challenges our communities experienced in 2020, I considered how Jordan Valley Water managed to provide its essential services even in the midst of significant change. Despite uncertainties that arose, our water professionals worked around the clock to ensure that safe, reliable water service continued uninterrupted.

Over the last 70 years, Jordan Valley Water has dependably secured, developed, treated, and delivered water despite astonishing population growth in its service area and times of drought. As we look to the future, it is critical that we continue to adapt to ensure that these services remain uninterrupted. A recent series of studies commissioned by Jordan Valley Water confirmed that taking certain proactive steps now can better sustain water deliveries for the next 70 years. These studies illustrate the importance of adopting water efficiency standards for new construction, preparing for drought conditions, repairing and replacing aging infrastructure, and delaying costly water supply projects for as long as possible.

As we enter a new year, I thought it would be appropriate to announce Jordan Valley Water's new logo and brand identity (see below), which will be implemented July 2021. The process of designing this new brand has provided an opportunity to reflect on everything Jordan Valley Water has stood for in the past and aspires to be as we move forward into the future. Despite challenges that our community and organization are sure to face in the future, Jordan Valley Water's commitment to delivering quality water and services will remain.

Bart Forsyth, General Manager





Bart Forsyth General Manager, CEO

Matt Olsen Assistant General Manager

Communications, Water Conservation & Information Systems

Alan Packard

Assistant General Manager

Engineering, Strategic & long-term Planning, and New Initiatives

Shazelle Terry Assistant General Manager Operations & Maintenance



ordan Valley Water used an industry-common logo in its beginning. Its own logo was developed circa 1980, which was used for more than 20 years with slight modifications from the 90s till now. Moving into a new era of water considerations, we will start using a new logo in July that better represents our community support and water deliveries, water conservation, and environmental stewardship.

Our responsibilities require us to be able to adapt to many changing conditions, such as population growth, climate variability, water demand, environmental issues, and land use development. As a water provider to one of the largest population bases in Utah, it is imperitive that we are resilient during changing conditions.

We look forward to embracing a new logo that better represents our mission, vision, and values well into the future.

looking ahead

new direction, new look

The leaf element represents the role of water in creating and sustaining life.

The mountain backdrop symbolizes the source of JVWCD's main water supply.

Updated colors and fonts provide a clean, modern look.



The green symbolizes JVWCD's emphasis on using water sustainably and efficiently.

> The shape of a valley nods to JVWCD's service area and the communities we serve.

Flowing water in the shape of a hand signifies the delivery of water as an essential service, a service we are honored to provide.

JORDAN VALLEY WATER

Mholes

City of Bluffdale

Mark Reid, City Manager Trustee Representative: Sherrie L. Ohrn

Draper City

David Dobbins, City Manager Trustee Representative: A. Reed Gibby

Granger-Hunter Improvement Di<u>strict</u>

Jason Helm, General Manager Trustee Representatives: Corey L. Rushton & Karen D. Lang

Herriman City

Wendy Thomas, Interim City Manager Trustee Representative: Sherrie L. Ohrn

Hexcel Corporation

Jared Carling, Environmental Engineer Trustee Representative: Gregory R. Christensen

Kearns Improvement District

Pam Gill, General Manager Trustee Representative: Gregory R. Christensen

Magna Water District

Clint Dilley, General Manager Trustee Representative: Gregory R. Christensen

Midvale City

Kane Loader, City Manager Trustee Representative: A. Reed Gibby

Riverton City

David Brickey, City Manager Trustee Representative: Sherrie L. Ohrn

City of South Jordan

Gary Whatcott, City Manager Trustee Representative: Dawn Ramsey

City of South Salt Lake

Dennis Pay, Public Works Director Trustee Representative: Barbara L. Townsend

Taylorsville-Bennion Improvement District

Mark Chalk, General Manager Trustee Representative: John H. Taylor

Utah Department of Corrections

Shawn Anderson, Director of Facilities Trustee Representative: A. Reed Gibby

WaterPro, Inc.

Darrin Jensen-Peterson, General Manager Trustee Representative: A. Reed Gibby

City of West Jordan

Korban Lee, Chief Administrative Officer Trustee Representative: Lyle C. Summers

White City Water

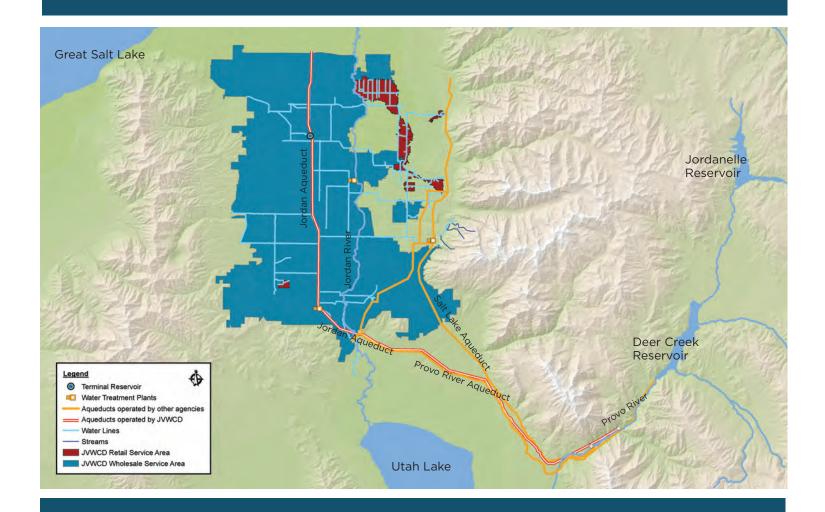
Improvement District

Paul Ashton, General Manager Trustee Representative: Barbara L. Townsend

Willow Creek Country Club

Alex Nicolaidis, General Manager Trustee Representative: Barbara L. Townsend





Jordan Valley Water's Service Area

ordan Valley Water's service area encompasses much of the Salt Lake Valley, including the most rapidlygrowing areas in the state. Sources of water include the Provo, Weber and Duchesne rivers, groundwater, and local mountain streams.

Trustees







KAREN LANG Vice Chair









Corey L. Rushton Chair

Karen D. Lang Vice Chair

Gregory R. Christensen

A. Reed Gibby

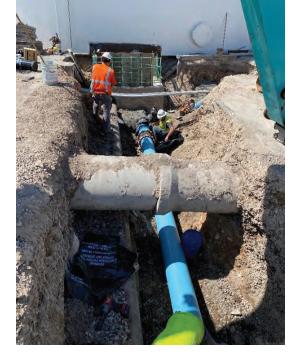
Sherrie L. Ohrn

Dawn R. Ramsey

Lyle C. Summers Conservation Committee Chair

John H. Taylor Finance Committee Chair

Barbara L. Townsend





6000 West 4700 South Reservoir Vault Modifications

< Design and replacement of the vault piping and valves for a 1 million gallon reservoir at this location consisted of replacement of corroded piping and valves, replacement of the concrete vault lid, repairs to the vault walls, installation of a passive vault venting system, installation of a vault hatch and access ladder, and application of new paint.

SERWTP Filter Building Improvements

< Age-related upgrades and repairs to Southeast Regional Water Treatment Plant included repairs to drywall, windows, perimeter fencing, roof support beams, floors, and paint.

JVWTP Air Scour System Upgrades

V Jordan Valley Water Treatment Plant's air scour piping was installed in 1971 and expanded in 1986. The steel piping had developed severe corrosion and the blowers had reached the end of their useful life. This project replaced the two air scour blowers and the original air scour piping with new, stainless-steel piping.



Projects

6900 South 1300 East Valve Vault Upgrades

> Refurbishment of an existing valve vault including the replacement of corroded piping and valves, installation of venting and an access ladder, application of paint coatings, and surface restoration. The project included the installation of a pressure sustaining valve to maintain a constant upstream pressure in the 1300 East pipeline system while supplying a continuous flow to Jordan Valley Water's northeast system. A Wattsmart funding incentive offer for this project was received, and Rocky Mountain Power is now verifying the energy savings before providing the incentive funding.

Midvale Retail System Transfer

Midvale City administered a construction project to connect Jordan Valley Water's 1000 East retail system to Midvale's water system to accommodate transfer of more than 500 retail accounts to Midvale City. As part of the retail transfer project, Midvale's construction contractor made additional improvements to Jordan Valley Water's transmission system. Midvale City managed and paid for this project, with Jordan Valley Water reimbursing applicable expenses to them.





JVWTP Flocculation Basins Repairs

A This project included demolition and replacement of approximately 1,000 linear feet of existing trench drains within four flocculation basins at Jordan Valley Water Treatment Plant. The existing trench drains had severe freeze-thaw damage. A six-foot wide section of concrete was removed and replaced. Weathered concrete and joint repairs were completed in the walkways above the basins.



Water Efficiency Standards



Results of Localscapes Reward Program participation in Kearns. C. Bee

Water Efficiency Standards

In November 2019, Jordan Valley Water adopted new water efficiency standards and updated its policies to encourage adoption of these standards throughout its service area. During the past year, several Member Agencies have taken steps to improve the resiliency of their communities through adoption of these water efficiency standards. Jordan Valley Water anticipates that widespread adoption of these standards will provide greater flexibility and sustainability in providing for future growth within its service area.

A Key Solution

As a water supply solution, adoption of the Water Efficiency Standards offers several key advantages over alternative approaches.

Standards are less expensive than developing new supplies

With increasing development costs, aging infrastructure, and the price of operating, maintaining, and delivering larger quantities of water, every gallon of water developed in the future will cost more than an existing gallon. This makes conservation efforts such as water efficiency standards an attractive solution.

Installing landscapes efficiently is 5 times less expensive than replacing them later

Without water efficiency standards for new construction, water demand for landscapes will continue to outpace solutions like rebates for turf removal.

Sustainable water use is good for the environment

More efficient yards and home appliances allow water to stay in rivers, streams, lakes, and wetlands—helping to avoid the severe

Localscapes Reward Program participants in Sandy. C. Bee



environmental impacts created by drying lake beds. In California, the LA Department of Water and Power reports that dust mitigation from the dry Owens Lake bed accounts for 15% of their rate payers' annual water bills. According to a 2019 BYU study, 90% of northern Utah's dust is the result of drying lakes (https://news.byu.edu/ intellect/how-are-local-dry-lakes-impacting-airguality-and-human-health).

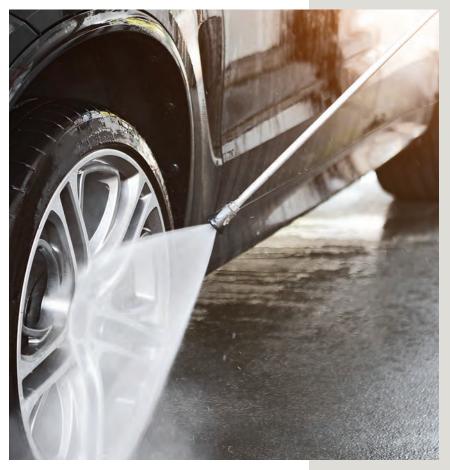
Implementing standards now will help avoid extreme actions in the future

While other communities across the western United States have grappled with implementing efficiency standards as a response to emergency water needs, early implementation of water efficiency standards makes room for a more moderate regional solution that avoids extreme requirements or actions, such as large-scale turf removal programs.

Good landscaping standards can contribute to great looking communities

It is possible to have landscapes that look nice, are easy to maintain, and provide space for relaxation and recreation while still being more Utah friendly and water efficient.

strategic WATER MANAGEMENT



What Is Strategic Water Management?

Strategic Water Management is a joint effort between Jordan Valley Water and eligible commercial, industrial, institutional, and multifamily water users to both save water and meet the unique needs of program participants. The program seeks to identify mutually beneficial opportunities that can improve the water efficiency of operations, equipment, and fixtures used by the participant. Solutions can range from no-cost and low-cost water saving processes to the installation of new water-saving equipment.

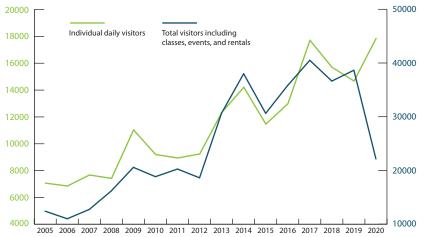
Examples of qualifying projects include, but are not limited to:

- Irrigation system upgrades (ex. smart central irrigation controllers, drip conversions, zone adjustments)
- Indoor fixture replacement (ex. toilets, urinals, faucets, showerheads)
- Replacement of water-cooled equipment with new air-cooled equipment (ex. ice machines)
- Enhanced or added water reclamation systems
- Elimination of water intensive industrial processes
- Boiler and steam system upgrades
- Air conditioning condensate capture and reuse
- Cooling tower modifications
- Industrial laundry equipment upgrades
- More efficient reverse osmosis units
- Car wash system and equipment upgrades
- Laboratory and medical equipment upgrades



The number of people visiting Conservation Garden Park has steadily increased since we began tracking in 2005 (see chart). Although our total number of visitors were down because we weren't able to have in-person classes, events, or rentals in 2020, we had our greatest number of individual daily visitors ever. In fact, more may have visited in an effort to kill the Coronavirus blues!

In 2020 we moved most of our classes online. Even as in-person classes resume, we will increase the number of online options so more people than ever can learn how to effectively landscape for Utah's dry climate.



Murdock Diversion, Provo River C. Smith



Delivering Quality Every Day®

Deliveries

Municipal & Industrial Water Sources	2020 (AF)	2019 (AF)
Jordanelle Reservoir (Central Utah Project) ^a	58,632	30,087
Deer Creek Reservoir (Provo River Project) ^b	9,368	13,425
Upper Provo River reservoirs ^c	2,114	1,969
Echo Reservoir	2,260	2,992
Provo River (unstored flows)	15,076	21,580
Weber River (unstored flows)	212	0
Central Water Project	14,902	8,562
Salt Lake County mountain streams	1,537	3,009
Culinary water purchased from MWDSLS	1,119	852
Salt Lake County groundwater (wells)	7,133	8,057
Southwest Groundwater Treatment Plant	4,282	5,274
Bingham Canyon Water Treatment Plant ^d	3,617	3,774
Subtotal for Municipal & Industrial sources	120,252	99,580
Irrigation Water Sources		
Jordanelle Reservoir (Central Utah Project) ^a	0	0
Deer Creek Reservoir (Provo River Project) ^b	0	624
Upper Provo River reservoirs ^C	0	0
Echo Reservoir	0	0
Provo River (unstored flows)	8,600	11,270
Weber River (unstored flows)	0	0
Utah Lake	22,823	13,677
Subtotal for irrigation sources	31,423	25,571
TOTAL ALL SOURCES	151,675	125,151
Total water treated or transported for other agencies	12,932	10,608
Total all water sources & transport	164,607	135,759

Sources

Municipal & Industrial (M&I) Water Deliveries	2020 (AF)	2019 (AF)	
City of Bluffdale	3,733	2,917	
Copperton Improvement District	1	21	
Draper City	5,063	4,016	
Granger-Hunter Improvement District	20,297	18,929	
Herriman City	6,142	4,527	
Hexcel Corporation	714	874	
Kearns Improvement District	8,980	7,473	
Magna Water District	802	800	
Midvale City	3,542	2,626	
Riverton City	4,773	4,329	
City of South Jordan	19,077	15,175	
City of South Salt Lake	1,038	1,058	
Taylorsville-Bennion Improvement District	4,594	4,044	
Utah Department of Corrections	504	534	
WaterPro, Inc. (treated) WaterPro, Inc. (raw)	1,351 0	950 0	
City of West Jordan	22,837	18,513	
White City Water Improvement District	0	0	
Willow Creek Country Club	386	285	
Subtotal for wholesale deliveries	103,834	87,071	
JVWCD retail service areas (Holladay, Murray, Sandy, South Salt Lake and unincorporated county)	8,794	7,897	
JVWCD system non-revenue water (use & loss)	7,625	4,612	
Subtotal for deliveries, use and loss	120,253	99,580	
Irrigation and raw water	2020	2019	
Welby Jacob Water Users Co. ^a	31,422	25,571	
Subtotal for irrigation & raw water	31,422	25,571	
Total delivered water	151,675	125,151	
M&I Water treated or transported for other agencies	2020	2019	
Metropolitan Water District of SL & Sandy	12,932	10,608	
Total water delivered, treated or transported	164,607	135,759	

New 78-inch aqueduct at 6200 South Bangerter Highway. S. Beck

ONCHTHWEST PIPE

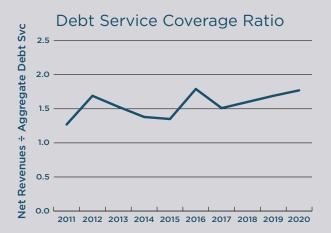
Financial Stewardship

CONSTITUEST PIPE

Balance Sheet Summary as of June 30th:					
	2020	2019	2018	2017	2016
<u>Assets</u> : Current Restricted Capital Other	\$62,022,286 26,756,562 547,183,564 18,891,468	\$54,590,332 69,266,250 526,273,827 19,566,111	\$54,213,600 57,497,690 497,515,098 19,136,178	\$54,849,313 49,792,125 471,727,593 15,429,418	\$44,819,066 15,032,770 448,122,214 16,903,556
Total Assets	\$654,853,880	\$669,696,520	\$628,362,566	\$591,498,449	\$524,877,606
Liabilities: Current Long-term	\$19,913,783 319,841,344	\$18,216,397 \$356,952,015	\$16,676,945 333,001,188	\$17,229,860 306,036,114	\$14,175,112 249,625,637
Total Liabilities	339,755,127	375,168,412	349,678,133	323,265,974	263,800,749
Total Fund Net Assets	315,098,753	294,528,108	278,684,433	268,232,475	261,076,857
Total Liabilities & Fund Net Assets	\$654,853,880	\$669,696,520	\$628,362,566	\$591,498,449	\$524,877,606

Income Statement Summary for fiscal years ended June 30th

income statement summary for fiscal years ended suite soft.					
	2020	2019	2018	2017	2016
Revenues : Operating (water sales) Property taxes Interest Intergovernmental Non-operating	\$60,659,921 20,281,934 1,900,885 75,331 325,763	\$53,222,432 20,063,290 2,260,091 145,669 4,610,393	\$53,670,981 18,203,887 1,651,609 2,737 0	\$52,108,797 14,954,597 1,109,313 29,835 45,805	\$47,830,269 14,915,457 370,002 584,285 72,265
Total Revenues	83,243,834	80,301,875	73,529,214	68,248,347	63,772,278
Expenses : Operating Interest Non-Operating	53,035,299 13,090,260 0	50,315,995 12,984,228 281,244	48,251,373 11,399,419 1,182,207	47,608,657 10,578,867 588,989	45,332,249 7,787,165 0
Total Expenses	66,125,559	63,581,467	60,832,999	58,776,513	53,119,414
Approximate Contribution to Capital Expenses ^a	\$17,118,275	\$16,720,408	\$12,696,215	\$9,471,834	\$10,652,864
Other Cash Flow Information for fiscal years ended June 30th:					
	2020	2019	2018	2017	2016
Capital Improvements	\$31,928,931	\$41,562,334	\$36,367,448	\$31,731,635	\$31,801,417
Debt Service Payments	\$22,003,217	\$20,365,220	\$20,437,815	\$19,188,677	\$15,291,092



Long-term Debt to Equity 2.5 2.0 1.5 1.0 0.5 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

a) Includes capital projects fund, development fee fund, general equipment needs,

emergency reserves, self-insurance fund, operating reserves, and Revenue Stabilization Fund.

Executive Staff



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Delivering Quality Every Day®

