



Centralized Reclaimed Water Program

FIRST QUARTER FY21

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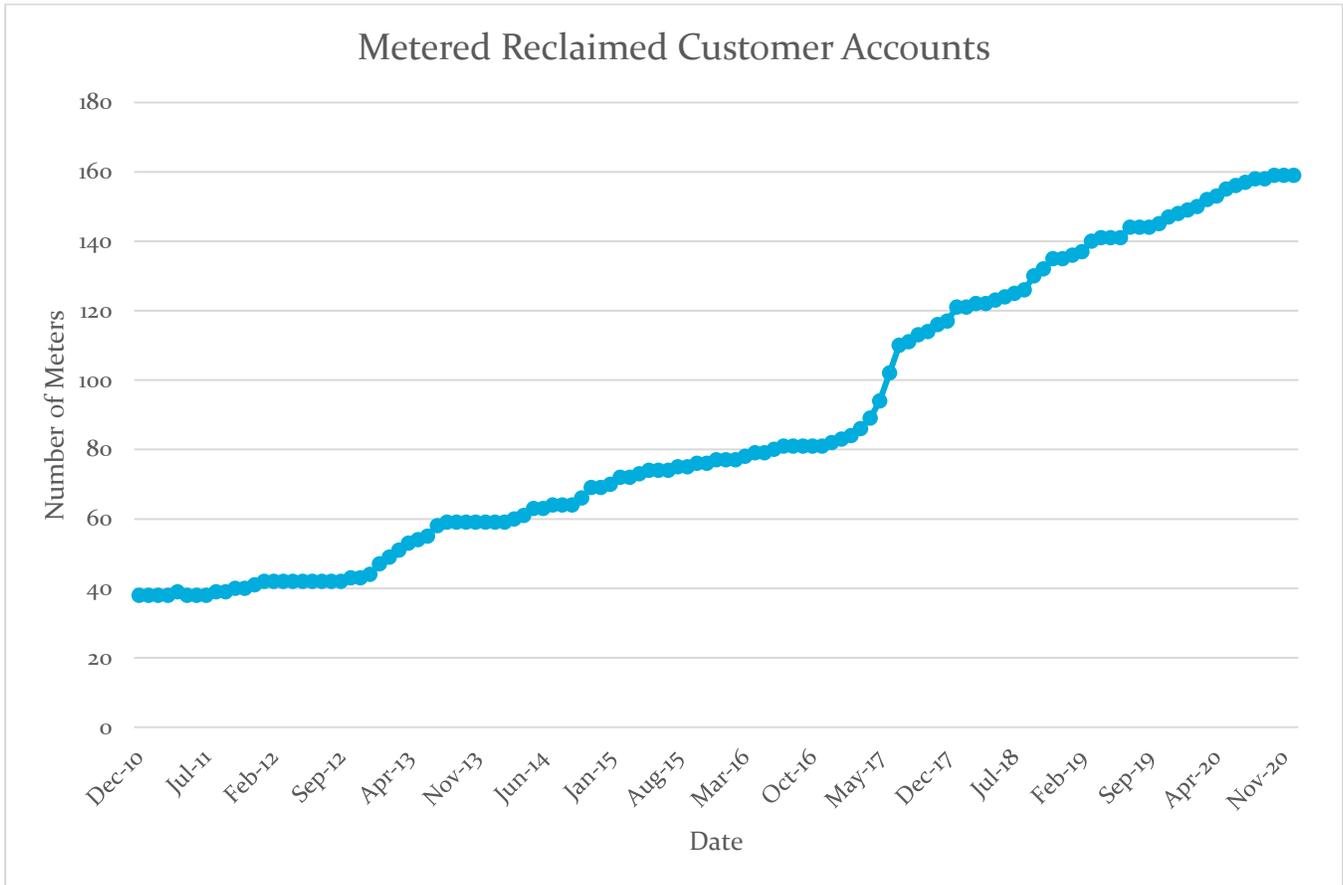
January 31, 2021





EXISTING CUSTOMERS

Metered Customer Accounts – River Stone HOA (RW000119), Perry Estates (RW000137), Mueller 20 (RW000157), PARD Govalle (RW000159), and Onion Creek Metro Park 2 (RW000162) were recognized as metered customers during the quarter. There were 159 active metered customers as of the end of the quarter. The graph below shows metered customer growth over the past ten years.



Bulk Fill Station Accounts – Reclaimed water staff implemented a \$5.00 per year inactivity fee, which went into effect the first quarter of fiscal year 2021. The fee is intended to recover software costs associated with inactive accounts and to ultimately close them. Five inactive accounts were closed and four bulk fill station customers (Yeniela Camejo, JPI Utility Services, Inc., Macias Specialty Contracting, and Ohana Bin Wash) were opened during the quarter, bringing the total number of customers to 134.

PROSPECTIVE CUSTOMERS

Marketing – Since the last quarterly report, reclaimed staff provided marketing and technical information to COA Urban Forestry, Kimley-Horn, Dove Springs Public Health Facility, Bay & Assoc., Benchmark TX, Colorado River Constructors, PARD Fiesta Gardens, Consort Inc., SE Construction, COA Economic Development, COA Community Gardens, City of Laredo, Garza EMC, Public Works Project Management, an Alicante Townhomes HOA.





Potential Customers – The following table lists potential customers that staff is aware of or has been in contact with regarding connection to mains completed, in design, or under construction.

Prospective Customer	Location	Uses	Estimated Volume (gal/yr)	Status
208 Lamar PUD	208 S Lamar	Irr./toilets	500,000	PUD agrmt. being negotiated
211 Lamar PUD	211 S Lamar	Irr./toilets	500,000	PUD agrmt. being negotiated
425 PUD	425 Riverside	Irr./toilets	500,000	Under construction
6 th & Guadalupe	600 Guadalupe	Irr./toilets/cooling	2,000,000	Under construction
ABIA Maintenance Facility	10100 Golf Course	Irrigation	750,000	Meter applied for
Alta Trailhead	1105 Airport Blvd	Irrigation	400,000	Under construction
Auditorium Shores	Riverside	Irrigation	10,000,000	Awaiting PARD consideration
Burleson Retail Center	4829 S HWY 183	Irrigation	300,000	Under construction
Cambrian East Riverside MF	1806 Clubview	Irrigation	400,000	Under construction
Central Health	Red River & 15th	Irr./toilets/cooling	5,000,000	ILA and PUD negotiations
Chow Plaza	5601 E Ben White	Irrigation	500,000	Under construction
Colorado Creek Apts Lot 2	2900 Olivares	Irrigation	600,000	Under construction
Convenience Store	6320 E Stassney	Irrigation	200,000	Under design
Convenience Store Expansion	8318 Burleson Road	Irrigation	300,000	Site plan approved
Del Valle Gas Station	3132 E Hwy 71	Irrigation	500,000	Under construction
Dove Springs Health Center	5801 Ainez	Irrigation	500,000	Awaiting AW CIP
Dove Springs Rec Center	5801 Ainez	Irrigation	2,000,000	Awaiting AW CIP
Duncan Park	900 W 9 th	Irrigation	750,000	Preliminary planning
Factory 512	6412 Old Burleson	Irrigation	500,000	Under construction
Flats on Shady	1125 Shady Lane	Irrigation	400,000	Preliminary planning
Goodnight Ranch Exp	8601 Nuckols Xing	Irrigation	70,000,000	SER under review
Grove Retail Center	5900 E Riverside	Irrigation	200,000	Under design
Holiday Inn Express	3102 E Hwy 71	Irrigation	500,000	Under design
Karisha Community Center	4500 E 51 st	Irrigation/toilets	200,000	Under design
La Quinta	3080 E Hwy 71	Irrigation	500,000	Site plan approved
Montopolis Apartments	2601 Montopolis	Irrigation	600,000	Under design
The Republic	401 W 4th	Irrigation/toilets	2,000,000	Under design
Onion Creek Soccer Fields	5600 E William Cannon	Irrigation	19,000,000	Awaiting AW CIP
Spanson	3200 Alvin Devane	Irrigation/Manufac.	5,000,000	Awaiting AW CIP
Stainless Steals	3637 Silver Dollar	Irrigation	200,000	Under design
Stillwater Apartments	2511 Montopolis	Irrigation	600,000	Under design
Tesla	12601 Harold Green	Cooling	400,000,000	SER under negotiation
TXDOT Property	6230 E Stassney	Irrigation	1,600,000	Meters applied for
Travis Co. Jail Exp	3614 Bill Price	Irrigation/cooling	500,000	Under construction
Travis Co. Softball Fields	3514 S FM 973	Irrigation	2,000,000	Awaiting AW CIP
UT LBJ Grounds	707 Clyde Littlefield	Irrigation	5,000,000	Awaiting UT consideration
Waterloo Park	500 E 12th	Irrigation/toilets	250,000	Meter applied for

RECLAIMED PROGRAM ACTIVITY

Bulk Fill Stations – Hornsby maintained higher use this quarter compared to Hergotz and Walnut due to the ongoing construction projects for Hwy 130. The use at Hergotz, although much lower in part to low seasonal demands and shelter in place recommendations for Covid-19 is making a slow come back from the station fill arm repairs that were completed in the later end of the last fiscal year 2020. Similarly, the Walnut station usage is lower year over year but has maintained a steady climb since undergoing previous fill arm repairs as well.



Station	1QFY21 Use (gal)	1QFY20 Use (gal)
Hergotz	2,391	1,690,782
Hornsby	1,209,763	322,525
Walnut	173,628	909,593
Total	1,385,782	2,922,900

Completing the Core

- *Oltorf Phase 1:* The design engineer, CAS Consulting & Services, Inc. (CAS), is working toward a 60% design. There is some drinking water main work associated with this project. Potential reclaimed customers along the alignment will be contacted shortly regarding their options for connecting. With no easements to acquire, the engineer anticipates the project will be advertised for bid earlier than expected. A public meeting is scheduled for 1/21/21.
- *Oltorf Phase 2:* Designed by K Friese + Associates (KFA), Phase 2 is working toward a 90% design. The design of Phase 2 is expected to take longer than Phase 1 as it involves a complex crossing I-35 as well as acquiring easements across private properties and staging areas. There is some drinking water main work associated with this project. After discussions with KFA and their geotechnical subconsultant, micro-tunneling is standing out as the most likely alternative for crossing I-35. Potential customers along the alignment will be contacted shortly regarding their options for connecting. A public meeting is scheduled for 1/21/21.
- *Travis Heights:* The design engineer, CAS, completed the pipeline alignment study. CAS evaluated four alignments with respect to utility conflicts, traffic impacts, and tree preservation and recommended a final alignment with input from AW staff. CAS is proceeding to design services and preparing a scope and fee for approval.
- *Barton SoCo:* The Barton SoCo main will connect to the Travis Heights main along South Congress. With the alignment of the *Travis Heights* main selected, KFA has proceeded with finalizing their design contract for the *Barton SoCo* main.

Erosion at Krieg Fields – Watershed Protection is the sponsoring department for the project addressing erosion at Krieg Fields, which has exposed a reclaimed water main and a 54-inch sanitary sewer. Watershed’s design consultant recommended that the replacement reclaimed main not be attached to a pedestrian bridge but be installed via open cut 5 feet below the restored stream bed elevation. This elevation is not below the erosion hazard zone and is at the same elevation as the 54-inch sanitary sewer. (A \$1.0 million emergency project placed concrete encasement and 3-foot diameter rip rap to protect the sewer). As the reclaimed main has been damaged once by flooding and the proposed new elevation will not guarantee the reclaimed main will not be damaged again, reclaimed staff decided to remove the reclaimed main from the larger Watershed project and place the reclaimed main beneath the erosion hazard zone through a horizontal directional drill.

Mandatory Connections – To meet long-term Water Forward goals, the reclaimed mandatory connection distance will increase from 250 feet to 500 feet for the very largest of developments (>250,000 sf). The change was incorporated into the Land Development Code rewrite. Litigation and a judicial order slowed the adoption of the rewritten Land Development Code. City staff are reviewing options on the best way to move forward.



Montopolis Tank / Burleson Road / South System Changes – The Montopolis Tank contractor continued to address outstanding punch list items in order to close out the project and is ready for startup. Startup of the pump station is anticipated to occur in early 2021 once the Burleson Phase 2 pipeline is complete. The Burleson Phase 2 contractor is currently working on completing the bore across Highway 71. The completion of these projects will improve the reliability of the reclaimed distribution system on the south side of the Colorado River by providing additional pumping and storage capacity. These system improvements will extend the existing Central Service Area to the south side of the river and free up capacity for development around ABIA.

Northern Distribution System Issues – Austin Water has provided reclaimed water for toilet flushing since 2009 without complaints from customers or issues raised. In October 2017 the Central Library and the Google Building connected to the reclaimed system for toilet flushing. These are high-rise buildings with annual demand up to 1.6 million gallons per year. Within a year, owners of the Google Building raised concerns over a number of issues with the use of reclaimed water for toilet flushing. Austin Water developed and is circulating a brochure with design recommendations for toilet flushing customers so that they can avoid these issues.

South Austin Regional WWTP – Work to remove two pipe constrictions on the distribution system located near the front gate of SAR was completed. Subsequent testing revealed an improvement in the ability to move reclaimed water out of the plant.

Long-Range Plan Status – The reclaimed water long-range plan is undergoing its first major update since 2011. It has been reviewed by Systems Planning staff and their comments were incorporated into the plan. A separate but related effort led by Systems Planning staff will develop a strategy for the growth of a decentralized reclaimed systems served from smaller WWTP plants.

Tesla – Tesla is in the process of building a manufacturing facility on approximately 2,200 acres of land on the north side of the Colorado River near the SAR WWTP. An SER for reclaimed water use is being negotiated.

Variance Requests – A planned dental office at 4100 E 51st Street requested, and was denied, a variance from the mandatory connection ordinance.

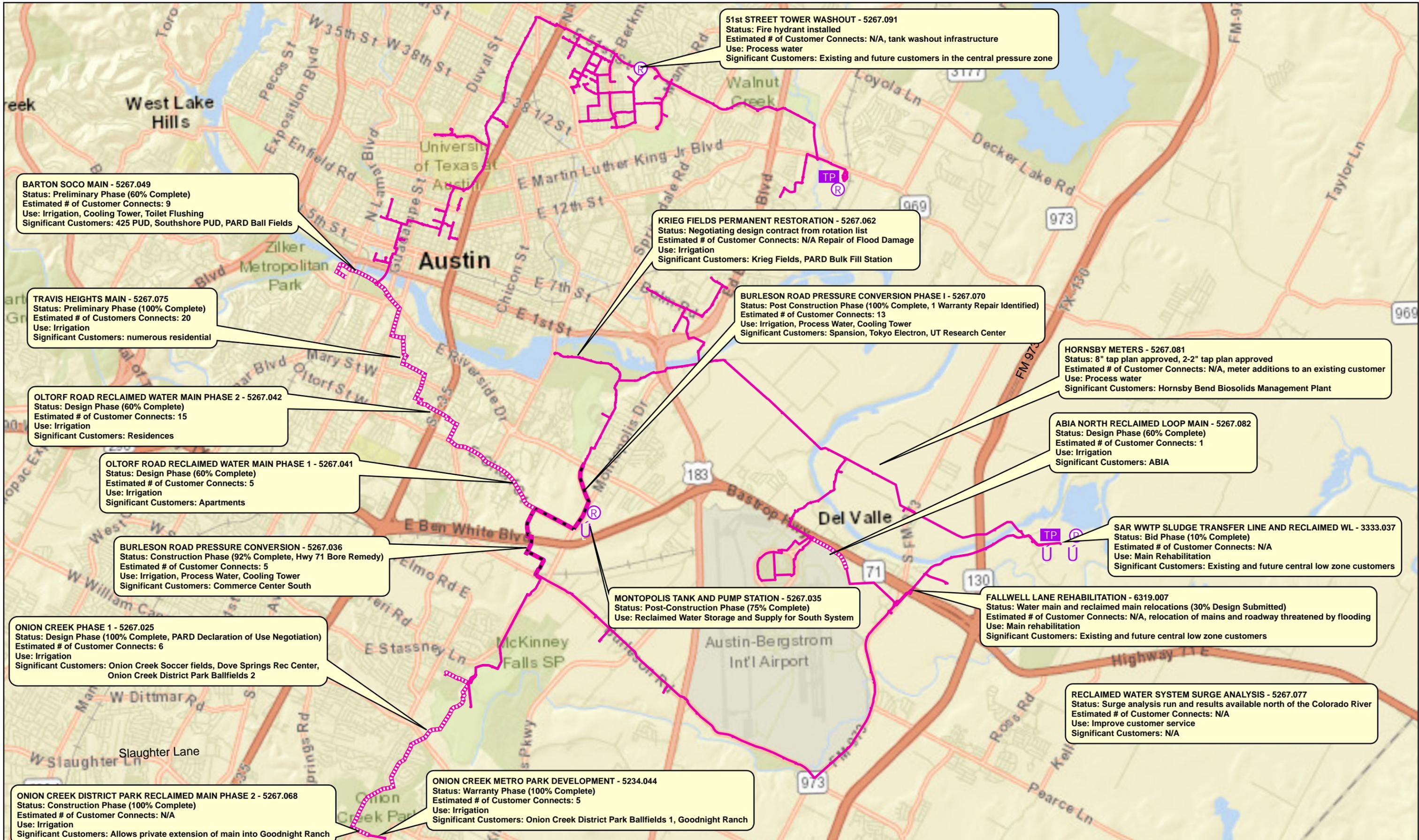
OTHER

Use – First Quarter Fiscal Year 2020 and 2021 centralized reclaimed water use is listed in the table below. While use is down year over year, that is due to FY2020 having an extremely dry autumn.

Time Period	Centralized Reclaimed
1 st Quarter FY21	341.04 MG
1 st Quarter FY20	367.44 MG

CONSTRUCTION

See the following graphic for information on reclaimed water projects in the planning, design, construction, and warranty phases.



51st STREET TOWER WASHOUT - 5267.091
 Status: Fire hydrant installed
 Estimated # of Customer Connects: N/A, tank washout infrastructure
 Use: Process water
 Significant Customers: Existing and future customers in the central pressure zone

BARTON SOCO MAIN - 5267.049
 Status: Preliminary Phase (60% Complete)
 Estimated # of Customer Connects: 9
 Use: Irrigation, Cooling Tower, Toilet Flushing
 Significant Customers: 425 PUD, Southshore PUD, PARD Ball Fields

KRIEG FIELDS PERMANENT RESTORATION - 5267.062
 Status: Negotiating design contract from rotation list
 Estimated # of Customer Connects: N/A Repair of Flood Damage
 Use: Irrigation
 Significant Customers: Krieg Fields, PARD Bulk Fill Station

TRAVIS HEIGHTS MAIN - 5267.075
 Status: Preliminary Phase (100% Complete)
 Estimated # of Customer Connects: 20
 Use: Irrigation
 Significant Customers: numerous residential

BURLESON ROAD PRESSURE CONVERSION PHASE I - 5267.070
 Status: Post Construction Phase (100% Complete, 1 Warranty Repair Identified)
 Estimated # of Customer Connects: 13
 Use: Irrigation, Process Water, Cooling Tower
 Significant Customers: Spansion, Tokyo Electron, UT Research Center

HORNSBY METERS - 5267.081
 Status: 8" tap plan approved, 2-2" tap plan approved
 Estimated # of Customer Connects: N/A, meter additions to an existing customer
 Use: Process water
 Significant Customers: Hornsby Bend Biosolids Management Plant

OLTRF ROAD RECLAIMED WATER MAIN PHASE 2 - 5267.042
 Status: Design Phase (60% Complete)
 Estimated # of Customer Connects: 15
 Use: Irrigation
 Significant Customers: Residences

ABIA NORTH RECLAIMED LOOP MAIN - 5267.082
 Status: Design Phase (60% Complete)
 Estimated # of Customer Connects: 1
 Use: Irrigation
 Significant Customers: ABIA

OLTRF ROAD RECLAIMED WATER MAIN PHASE 1 - 5267.041
 Status: Design Phase (60% Complete)
 Estimated # of Customer Connects: 5
 Use: Irrigation
 Significant Customers: Apartments

SAR WWTP SLUDGE TRANSFER LINE AND RECLAIMED WL - 3333.037
 Status: Bid Phase (10% Complete)
 Estimated # of Customer Connects: N/A
 Use: Main Rehabilitation
 Significant Customers: Existing and future central low zone customers

BURLESON ROAD PRESSURE CONVERSION - 5267.036
 Status: Construction Phase (92% Complete, Hwy 71 Bore Remedy)
 Estimated # of Customer Connects: 5
 Use: Irrigation, Process Water, Cooling Tower
 Significant Customers: Commerce Center South

MONTOPOLIS TANK AND PUMP STATION - 5267.035
 Status: Post-Construction Phase (75% Complete)
 Use: Reclaimed Water Storage and Supply for South System

FALLWELL LANE REHABILITATION - 6319.007
 Status: Water main and reclaimed main relocations (30% Design Submitted)
 Estimated # of Customer Connects: N/A, relocation of mains and roadway threatened by flooding
 Use: Main rehabilitation
 Significant Customers: Existing and future central low zone customers

ONION CREEK PHASE 1 - 5267.025
 Status: Design Phase (100% Complete, PARD Declaration of Use Negotiation)
 Estimated # of Customer Connects: 6
 Use: Irrigation
 Significant Customers: Onion Creek Soccer fields, Dove Springs Rec Center, Onion Creek District Park Ballfields 2

RECLAIMED WATER SYSTEM SURGE ANALYSIS - 5267.077
 Status: Surge analysis run and results available north of the Colorado River
 Estimated # of Customer Connects: N/A
 Use: Improve customer service
 Significant Customers: N/A

ONION CREEK DISTRICT PARK RECLAIMED MAIN PHASE 2 - 5267.068
 Status: Construction Phase (100% Complete)
 Estimated # of Customer Connects: N/A
 Use: Irrigation
 Significant Customers: Allows private extension of main into Goodnight Ranch

ONION CREEK METRO PARK DEVELOPMENT - 5234.044
 Status: Warranty Phase (100% Complete)
 Estimated # of Customer Connects: 5
 Use: Irrigation
 Significant Customers: Onion Creek District Park Ballfields 1, Goodnight Ranch