



One Water 2100
Master Plan

Tucson Water One Water 2100 Master Plan

Technical Memorandum WATER USE PROJECTIONS

FINAL | September 2021

Jacobs



A proud part of the City of Tucson



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Abbreviations

ADWR	Arizona Department of Water Resources
AF	acre-feet
AF/yr	acre-feet per year
AOP	Advanced Oxidation Process
AWS	Assured Water Supply
CAGR D	Central Arizona Groundwater Replenishment District
CAP	Central Arizona Project
CAVSARP	Central Avra Valley Storage and Recovery Project
CAWCD	Central Arizona Water Conservation District
DCP	Drought Contingency Plan
GIS	Geographic information system
GPCD	gallons per capita day
gpd	gallons per day
LTSC	Long-term storage credit
M&I	Municipal and Industrial
mgd	million gallons per day
PFAS	per- and polyfluoroalkyl substances
SAVSARP	Southern Avra Valley Storage and Recovery Project
SF	square feet
TARP	Tucson Airport Remediation Project
TAZ	Traffic Analysis Zone
TCE	trichloroethylene
WSA	Water Service Area

Technical Memorandum

WATER USE PROJECTIONS

1.0 Introduction

This technical memorandum documents Tucson Water’s water resources portfolio along with accompanying analyses of the utility’s existing water demands and water production summaries. It also highlights customer consumption trends including calculation of unit demands, summarizes demand projections, and shows the water system supply versus demand balance through the One Water 2100 master planning horizon.

2.0 Water Resources Portfolio

Tucson Water has a diverse water resources portfolio consisting of surface water (Colorado River water delivered via the Central Arizona Project [CAP] canal), groundwater, treated groundwater, reclaimed water, harvested rain, and stormwater sources.¹ Each of these supply sources has its own set of delivery and use restrictions based on regulatory and contractual obligations that impact how they can be used to meet the water service area needs. Tucson Water combines these varied water resources to strategically meet the needs of its unique service area.

The City of Tucson established the utility’s Water Service Area boundary in 2010 with the adoption of a formal Water Service Area Policy. The map shown as Figure 1 illustrates the extent of the current obligated Water Service Area, as well as potential areas of water service expansion and non-expansion areas. The obligated service area includes areas within the City limits or contracted service areas that Tucson Water will serve in the future. The map is not intended to provide parcel-level guidance on water service availability, but rather meant to provide a general overview of Tucson Water’s service in the region. All parcels within the City limits are eligible for water service. New requests for water service outside of the existing obligated Water Service Area require a water availability request and staff review of the specific parcel(s) in question. The obligated Water Service Area may also be modified through approved City of Tucson annexations or by direction of the Mayor and Council.

The current Water Service Area spans several jurisdictions with about 42 percent of the geographic area lying within the City of Tucson and nearly 53 percent in unincorporated Pima County. Marana (4 percent), Oro Valley (1 percent), South Tucson and Pascua Yaqui lands (less than 1 percent each) round out the Water Service Area. The Town of Oro Valley also has an agreement with Tucson Water to deliver a specified amount of the Town’s CAP water via Tucson Water’s infrastructure; other potable wheeling agreements are in place with Metro Water District, Vail Water, Marana, and the Pascua Yaqui Tribe. The utility wheels reclaimed water to the Town of Oro Valley, Metro Water District, Pima County, and other smaller water providers.

¹ Note: Harvested rain and stormwater sources are not metered.

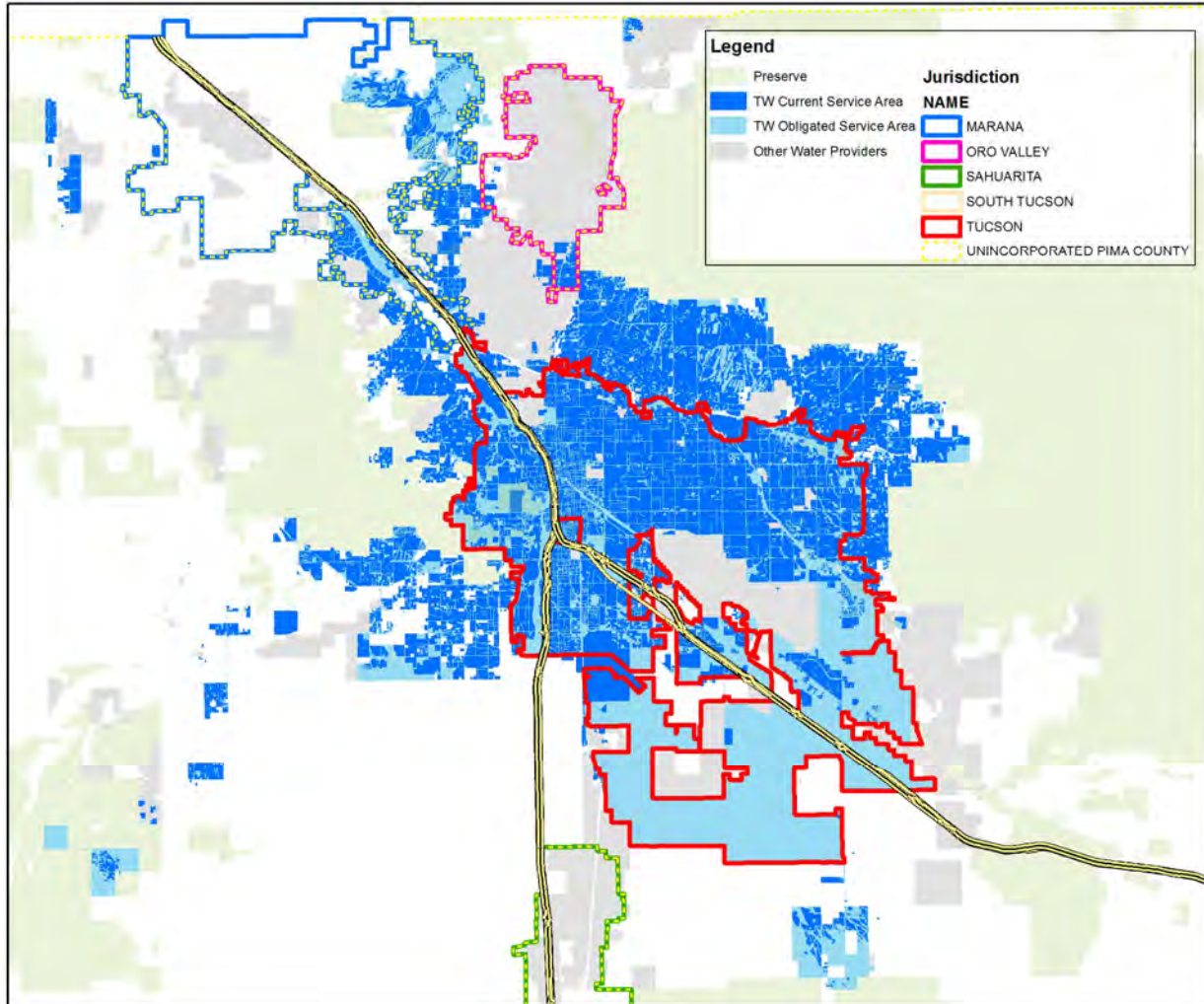


Figure 1 Tucson Water Service Area

On October 16, 2014, the Arizona Department of Water Resources (ADWR) approved the most recent City of Tucson Designation of Assured Water Supply (AWS). The resulting Decision and Order identified the portfolio of physically and legally available water supplies including the future responsibilities of Tucson to maintain its Designation. Table 1 summarizes the components of the 2014 Designation.²

Table 1 2014 Assured Water Supply Designation

Supply Source	Average Annual (acre-foot [AF])
Groundwater	31,761.16
Replenished by Central Arizona Groundwater Replenishment District (CAGRD)	12,500
Incidental Recharge	6,213.82
Allowance	12,537.60

² Arizona Department of Water Resources, City of Tucson Designation of Assured Water Supply (AWS No. 2014-002, DWR No. 86-400957.0001), Decision and Order, October 2014.

Table 1 2014 Assured Water Supply Designation

Supply Source	Average Annual (acre-feet [AF])
Remediated water	509.74
Recovered Water	145,012.98
Long Term Storage Credits (LTSCs)	2,068.98
CAP water recovered within the area of hydrologic impact of storage	90,000
CAP water recovered outside the area of hydrologic impact of storage	45,966
Effluent stored and recovered inside the area of hydrologic impact of storage	6,978
Effluent	6,078
Total 2024 Supplies	182,852.14

2.1 Groundwater

Tucson is a “member service area” of the Central Arizona Groundwater Replenishment District (CAGRDR). CAGRDR functions as a department within the Central Arizona Water Conservation District (CAWCD), the entity responsible for the management, operation, and maintenance of the CAP. CAGRDR was created by the state legislature in 1993 to perform a groundwater replenishment function in the State of Arizona within the three-county CAP service area. Membership in the CAGRDR provides a mechanism for its members to meet increasing service area demands without pumping groundwater in excess of allowable limits, thereby maintaining consistency with the State’s AWS Rules. For Tucson, CAGRDR membership represents a “safety net” in water supply management. Tucson Water’s current supply portfolio is sufficient for meeting system demands without utilizing the CAGRDR replenishment capabilities. However, should Tucson Water encounter an unexpected circumstance requiring an increase in local supply, it could respond with a commitment to that need and exercise its access to CAGRDR replenishment capabilities, if necessary, until a long-term renewable resource strategy is put in place for that need.

Incidental Recharge is defined in the AWS Rules as an amount of water that is recharged to the groundwater aquifer as a result of Tucson Water’s routine production and distribution of supply to its end users. ADWR determines the allowance according to a factor (4 percent), which is multiplied by Tucson Water’s previous year’s total water demand.

When the AWS Rules were established, water providers were granted a fixed volume of groundwater (Allowance). In Tucson’s case, this volume is the total volume of water provided to its customers from any source during calendar year 1994 multiplied by a factor of 15. Once this water is pumped, the Allowance is no longer available.

Tucson also has access to a special class of groundwater (remediated water as noted on Table 1) through its Tucson Airport Remediation Project (TARP) Water Treatment Facility in conjunction with the Advanced Oxidation Process (AOP) Water Treatment Facility. This groundwater receives additional treatment for the removal of trichloroethylene (TCE), 1,4-dioxane, and per- and polyfluoroalkyl substances (PFAS). Due to elevated PFAS levels, Tucson Water shut down the facility on June 21, 2021. Tucson Water is planning to add additional treatment capacity and work with appropriate regulatory agencies to eventually redirect this supply from the potable system to the reclaimed system in two phases:³

- Construct a gravity-fed outfall to deliver treated water to the Santa Cruz River in October 2021

³ Jeff Biggs, meeting with Jaimie Galayda and Fair Yeager, August 3, 2021.

- Construct a 1.5-mile pipeline to connect directly to the reclaimed system east of 12th Avenue by early 2022

Although not included in its current Designation of AWS, Tucson holds Type 1 non-irrigation grandfathered groundwater rights on land owned in Avra Valley. These rights total about 1.2-million AF and serve as a backup supply. In the future, Tucson may make a request to ADWR to include these rights in its designation; ADWR will consider the amount of groundwater to include consistent with groundwater management goals.

2.2 Colorado River Water

The CAP water supply is managed and delivered by the CAWCD. The CAP is designed to deliver approximately 1.5-million AF of Colorado River water each year to Maricopa, Pinal, and Pima Counties. Tucson has access to 144,191 AF/yr of CAP supply, which is the largest municipal allocation in the state. As noted in its current AWS, 144,172 AF are from its subcontract with CAWCD, and an allocation transfer with Flowing Wells Irrigation District completed in 2015⁴ added 19 AF.

There is a specific priority system related to the use of Arizona Colorado River water numbered 1 through 6 with the first priority rights being the most senior (most protected). For example, first priority rights are established in the Supreme Court Decree of Arizona v. California. Fourth priority rights are held by water users with contracts, Secretarial Reservations, or other rights established by the United States after September 30, 1968. The CAP holds primarily Fourth Priority rights. Priority of entitlement has a direct relationship to availability of this resource during periods of shortages within the Colorado River Basin.

Delivery priorities are also assigned within the CAP allocations. The highest priority water is associated with Municipal and Industrial (M&I) and Indian water allocations (“Firm” water). Agricultural allotments and CAP Excess Water/Recharge supplies have lower priority assignments (“Non-Firm” water). Non-Firm supplies are more susceptible to being affected by shortage conditions or drought conditions on the Colorado River system. Tucson’s CAP supply is a combination of an original M&I allocation, reallocation of previously uncontracted M&I priority water, and transfer of M&I priority water from Flowing Wells Irrigation District.⁵

Tucson Water’s CAP allocation is managed through its recharge and recovery operations, which have sufficient capacity to recharge and recover the City’s full allocation on an annual basis. The program is summarized below:

- Central Avra Valley Storage and Recovery Project (CAVSARP)
 - Recharge capacity = 100,000 AF/yr
 - Recovery capacity = 70,000 AF/yr
- Southern Avra Valley Storage and Recovery Project (SAVSARP)
 - Recharge capacity = 60,000 AF/yr
 - Recovery capacity = 60,000 AF/yr
- Pima Mine Road Recharge Project/Santa Cruz Well Field
 - Recharge capacity = 30,000 AF/yr
 - Recovery capacity = 11,100 AF/yr in fiscal year 2020-2021 and 19,000 AF/yr in fiscal year 2021-2022

2.3 Long-Term Storage Credits

LTSCs are the legal mechanism by which Tucson can recover recharged CAP water by using its wells. When the Colorado River experiences decreased flow conditions within its watershed, a “shortage” may occur. A

⁴ City of Tucson, 2015. “Resolution No. 22344.” Accessed April 17, 2020.

⁵ Ibid.

complex set of agreements and laws determine how the shortages are distributed among the seven Basin States of Arizona, California, Nevada, New Mexico, Utah, Colorado, and Wyoming. Shortages within the State of Arizona are assigned in accordance with a set of agreements with the Arizona users.

The replacement of the shortages is built around a regulatory framework that provides the legal authority to replace the reduction in water delivery with access to alternative water rights. For the past several decades, Tucson has been recharging CAP water and has accumulated 472,740 AF of LTSCs through 2020.⁶ ADWR will issue a LTSC that quantifies Tucson's right to pump the LTSC out of the ground. Having the right to pump (or recover) LTSCs must be accompanied with a physical mechanism (wells) to pump the LTSC from the groundwater aquifer.

In addition to recharging CAP water, Tucson has accumulated 35,560 AF of effluent recharge credits.⁷ These credits may also be used for potable deliveries to customers. Based on current customer water use (approximately 95,000 AF), Tucson Water has enough LTSCs accrued via CAP recharge and effluent recharge to provide water to its customers for over five years.

2.4 Reclaimed Water

Tucson Water has implemented strategic efforts to locally reuse and recharge reclaimed water through an intergovernmental agreement with Pima County. In addition, recharge efforts result in the accumulation of LTSCs that contribute to Tucson's long-term AWS. These credits can be recovered through any well that is permitted and designated through the ADWR as a recovery well as noted above. Reclaimed water, therefore, presents a very reliable and flexible component of the Tucson Water's available resources.

3.0 Existing Water Use Patterns

This section summarizes three years of recent customer consumption via billing data and also documents trends of potable customer consumption based on customer class (residential versus non-residential) for use in subsequent water demand projections.

3.1 Billing Data Analysis

Tucson Water has nearly 240,000 potable and reclaimed water accounts, where each meter is read on a monthly basis. A summary of customer account statistics for 2018 is shown in Table 2.

⁶ Dee Korich, email message to Jaimie Galayda, and Fair Yeager, August 3, 2021.

⁷ Ibid.

Table 2 2018 Customer Account Summary

Customer Type	Potable Customers	Reclaimed Customers
Residential	221,854	608
Non-Residential	14,538	384
Wheeling	6	40
Total	236,398	1,032

Notes: Excludes construction water meters and meters that did not record any usage for any given year.

Tucson Water also maintains daily water production records in a database that is capable of generating monthly summaries in tabular form with associated graphics. However, meter read dates vary among accounts within each month and do not necessarily align with the date ranges in the monthly production data summaries. To more accurately compare monthly consumption with monthly production data, the consumption data needs to be adjusted to match production data timeframes. To achieve this consistency, the average daily use was calculated in the monthly read period and the averages by calendar month were aggregated.

The results of the 2016, 2017, and 2018 potable water billing analyses are shown in Figures 2 through 4 and are presented in million gallons per day (mgd). The actual use equates to consumption during the read month as documented in Tucson Water’s billing system, and the adjusted use is the estimate of consumption associated within each calendar month between read dates. Tucson Water’s average monthly production is also shown along with an estimate of average demand; Tucson Water calculates demand as water produced plus the change in storage volume. During most months, the adjusted billed rates correlate with average monthly production values.

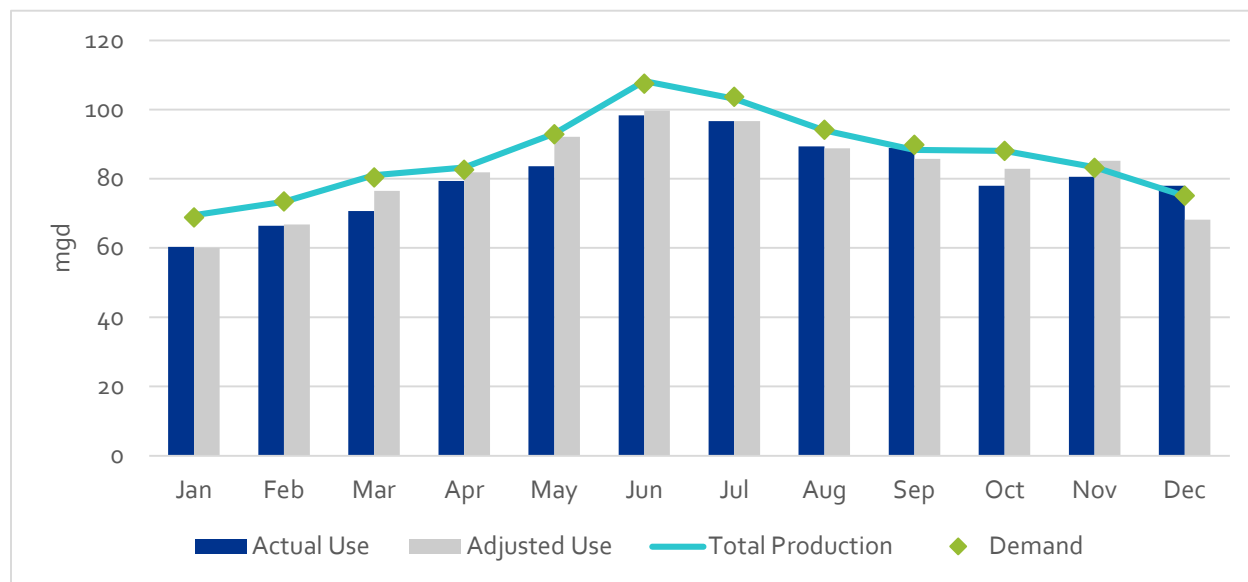


Figure 2 2016 Potable Water Production and Consumption Comparison

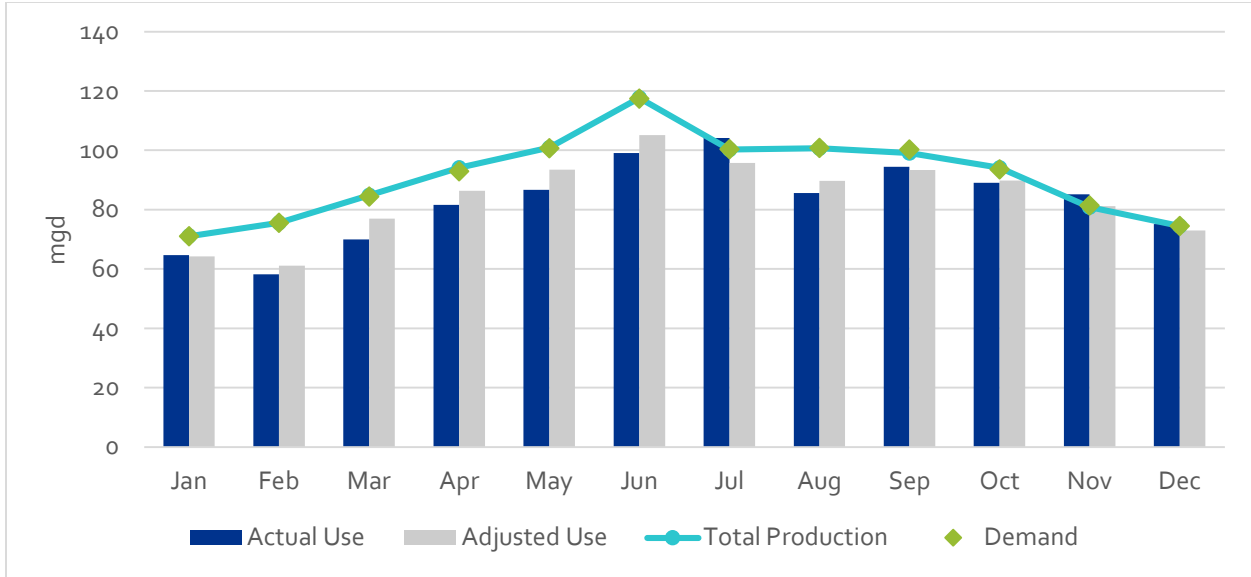


Figure 3 2017 Potable Water Production and Consumption Comparison

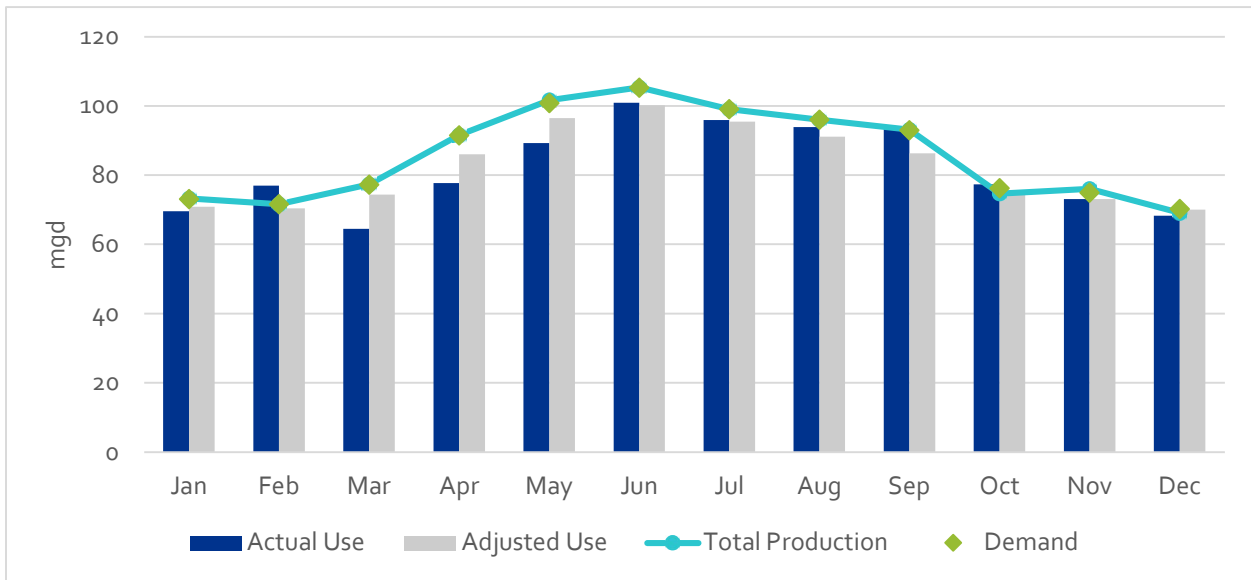


Figure 4 201 Potable Water Production and Consumption Comparison

A summary of the analysis of reclaimed water customer use and annual production is provided in Appendix A.

3.2 Non-Revenue Water

Non-Revenue or lost-and-unaccounted for water is the difference between metered demand and production less any known unmetered uses. Recent non-revenue water percentages that Tucson Water reported to ADWR are presented in Table 3. An average of 8.7 percent of non-revenue water will be applied to future potable demand projections.

Table 3 Non-Revenue Water

Year	Non-Revenue Water (%)
2016	8.00
2017	9.87
2018	8.20
Average	8.69

Source: Tucson Water

A summary of annual potable water production and customer consumption from the billing database is presented in Figure 5; the difference between the two provides an estimate of non-revenue water.

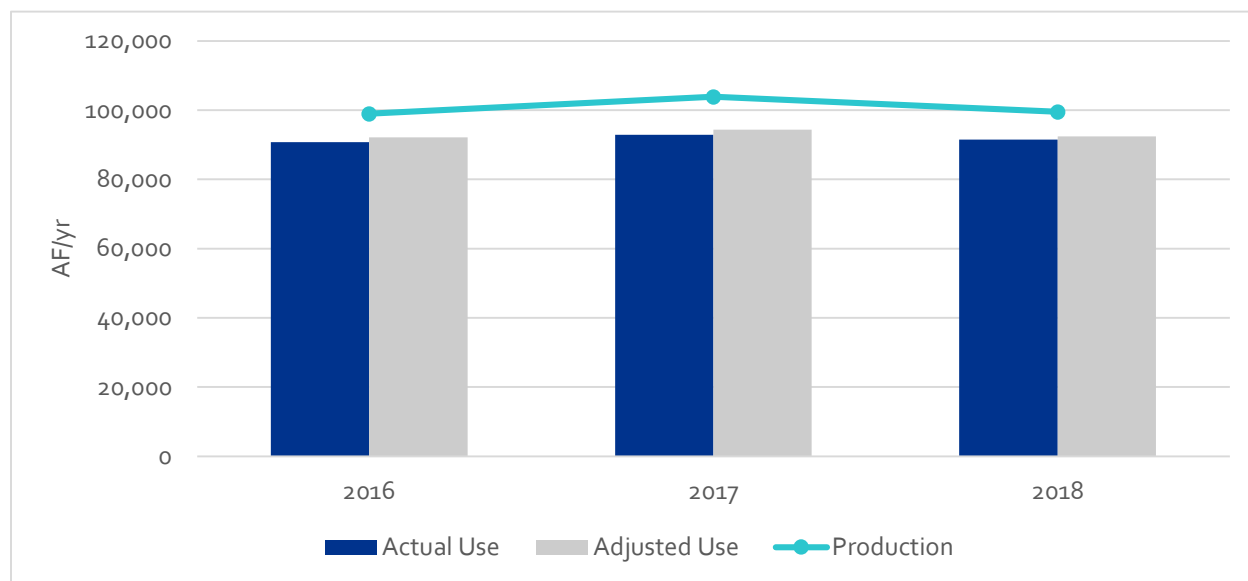


Figure 5 Annual Potable Water Production and Consumption Comparison

3.3 Peaking Factors

A peaking factor is the multiplier that translates average day demand to maximum day demand or to peak hour demand. These factors are often used in a hydraulic model to represent a condition when the system is most stressed or to substantiate diurnal patterns for extended period simulations. Because the consumption data are only available in monthly increments, the average day to maximum day peaking factors are calculated from Tucson Water’s production data in mgd. Recent calculated maximum day peaking factors are shown in Table 4.

Table 4 Maximum Day Peaking Factors

Year	Annual Average Production (mgd)	Maximum Day Production (mgd)	Maximum Day Peaking Factor	Maximum Day Production Date
2016	86.7	126.4	1.5	19 June 2016
2017	91.2	136.4	1.5	28 June 2017
2018	85.8	115.4	1.3	4 June 2018

3.4 Customer Consumption Trends

Over 90 percent of Tucson Water’s potable accounts are residential; but from a volumetric perspective, this customer class represents just over 70 percent of consumption. From 2016 to 2018, annual customer consumption by class has been consistent as summarized below:

- Residential volume: 72 percent
- Non-residential volume: 25 percent
- Wheeling volume: 3 percent

Graphical representations of consumption by month are summarized on Figures 6 through 8.

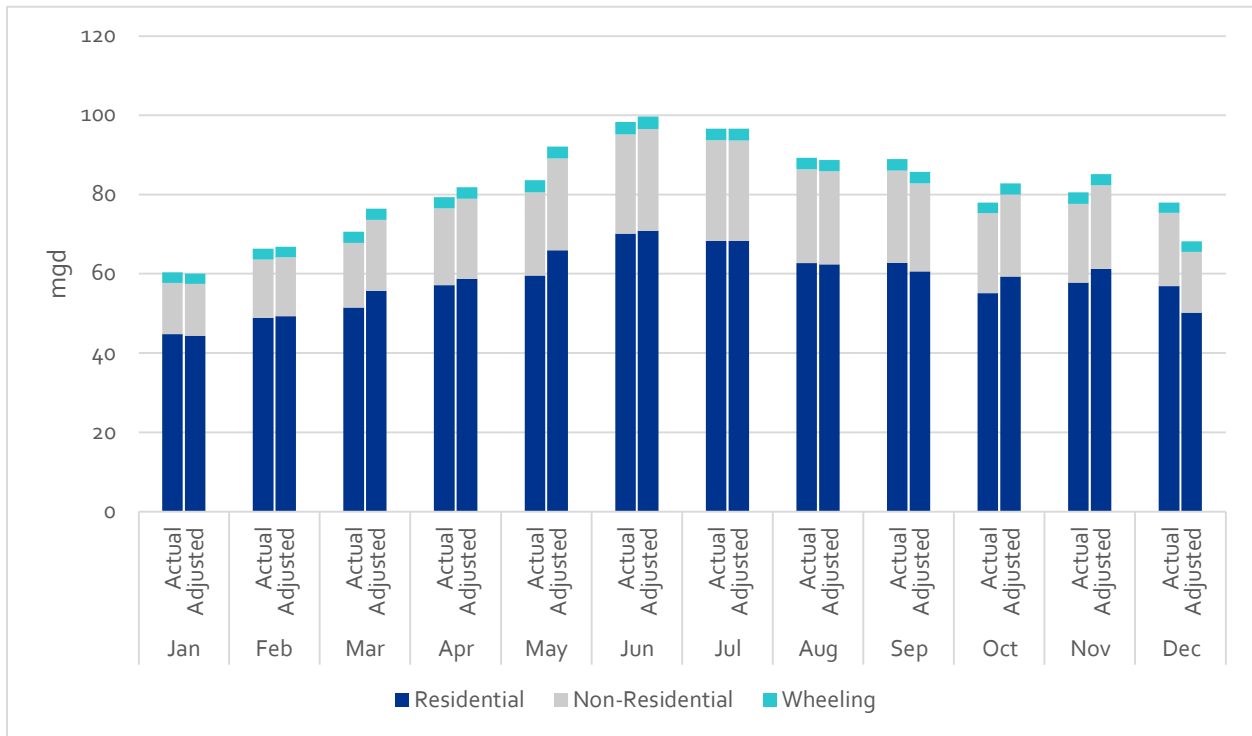


Figure 6 2016 Potable Water Consumption by Customer Type

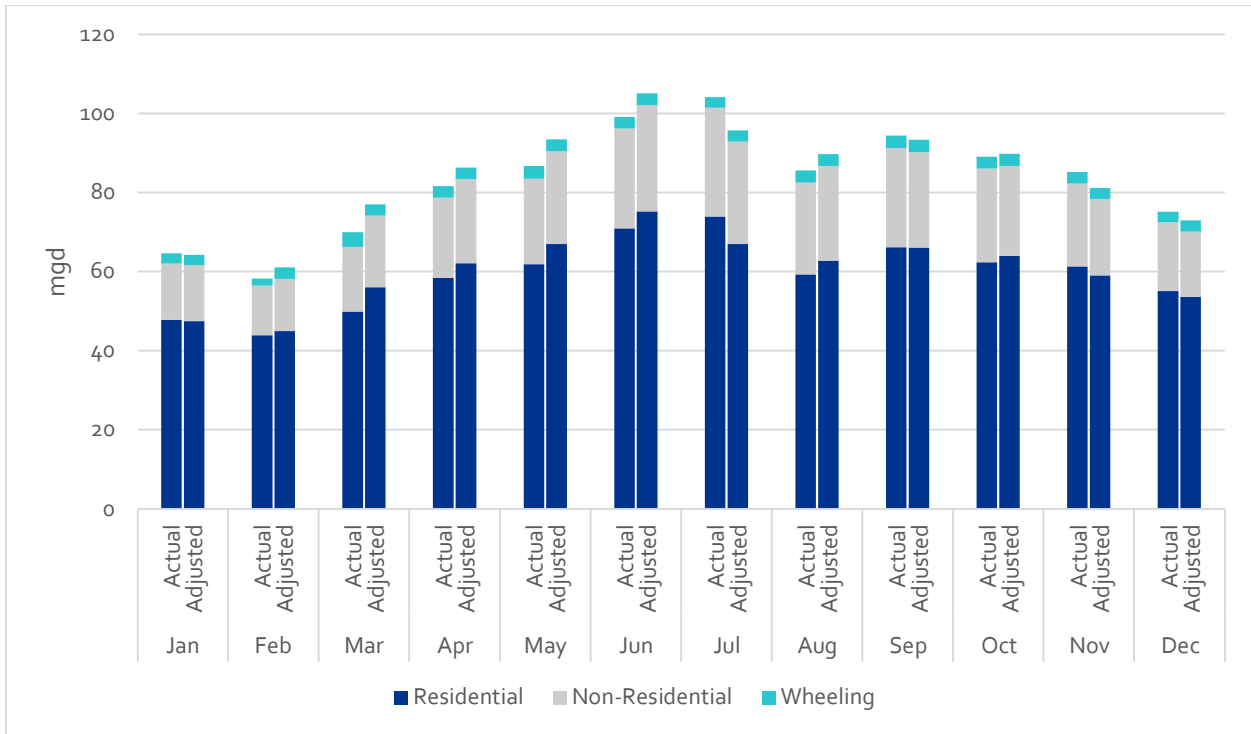


Figure 7 2017 Potable Water Consumption by Customer Type

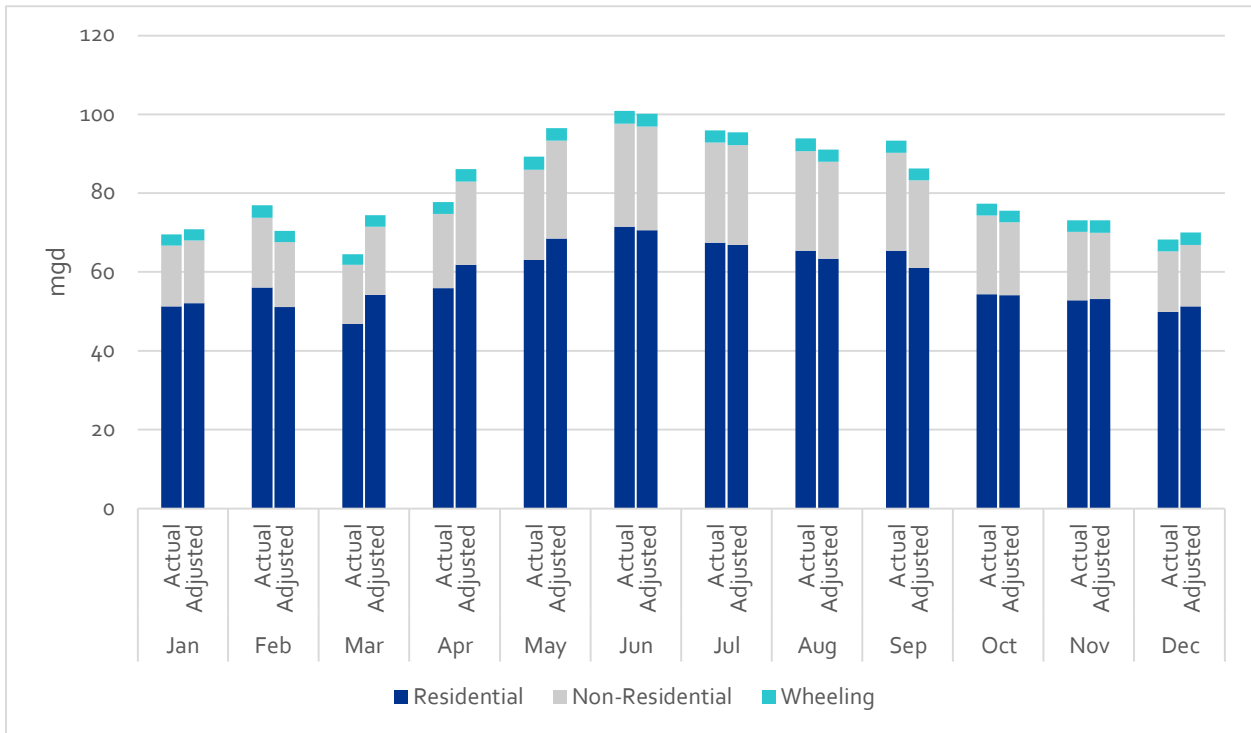
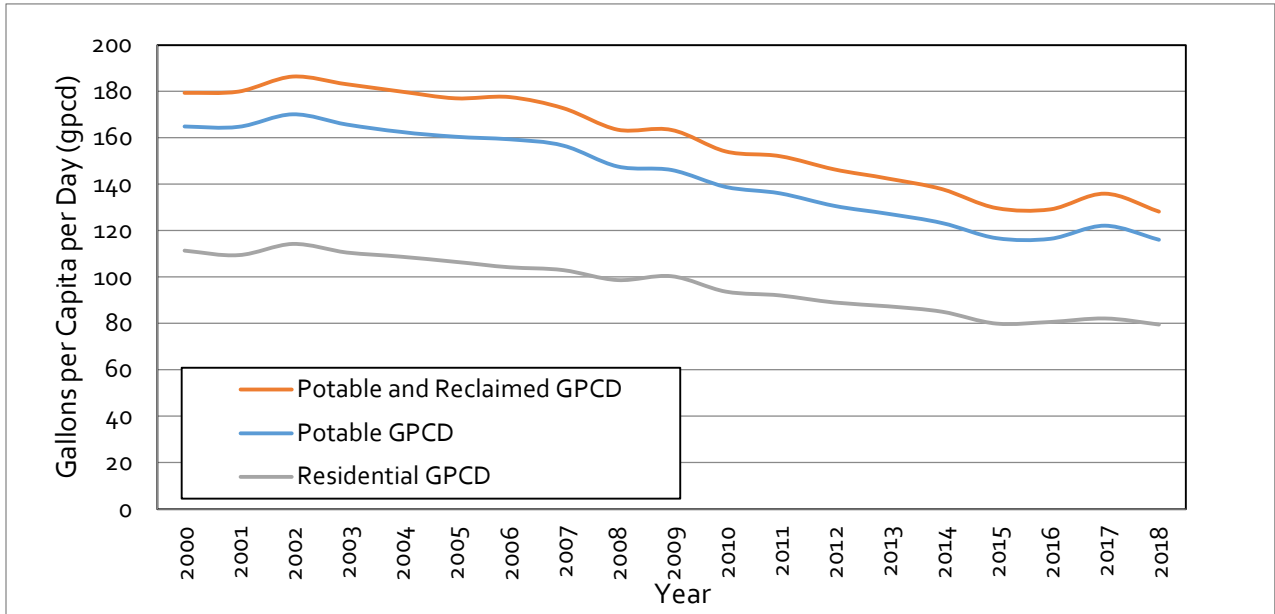


Figure 8 2018 Potable Water Consumption by Customer Type

Tucson Water has been tracking per capita consumption for decades. As shown on Figure 9, the utility has been experiencing a downward trend that has been flattening in recent years.



Source: Tucson Water

Figure 9 Water Service Area Gallons per Capita per Day Trends

In addition to summarizing customer use within the service area, the accounts were geocoded to provide a spatial location of customer demand to calculate unit demands by customer class and support hydraulic modeling.

The meters were geocoded to parcel centroids based on service address where 99 percent of the meters (over 245,000) were matched to a spatial location. A snapshot of 2018 average annual potable customer consumption within each pressure zone or water service area (WSA) is summarized on Figure 10; it is normalized by the WSA geographic area, where red and orange areas use more water per acre than yellow or green areas.

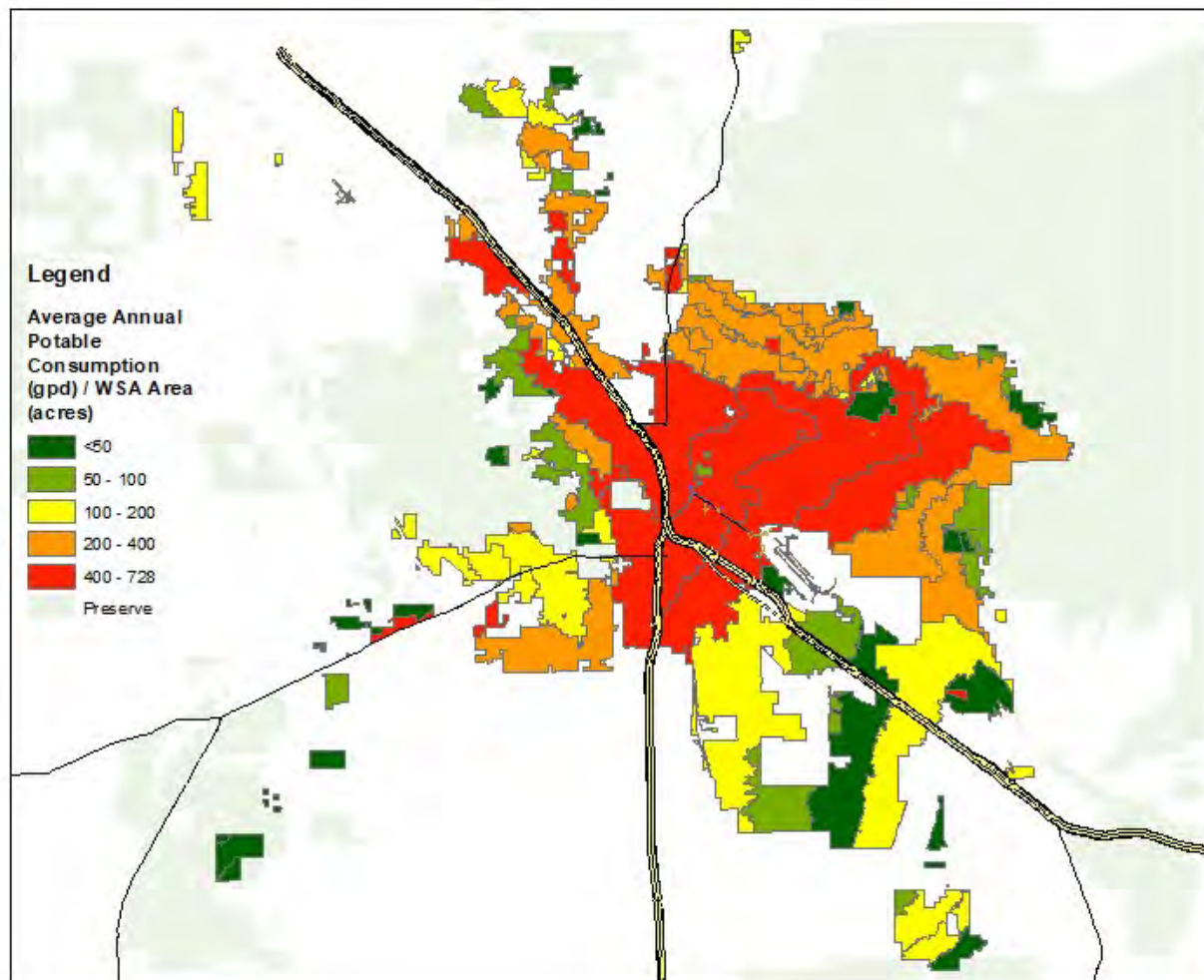


Figure 10 2018 Annual Average Potable Consumption Normalized by WSA Geographic Area

To develop potable water unit demands by customer type that align with the housing unit and employment projections in the accompanying One Water 2100 Master Plan Technical Memorandum entitled, "Population Projections," residential parcels were analyzed to determine groupings by parcel area. The following parcel areas were identified to further review single-family residential customer consumption:

- Up to 7,000 square feet (SF) (about 67,000 parcels)
- >7,000 SF – 10,000 SF (about 77,000 parcels)
- >10,000 SF (about 62,000 parcels)

Potable meters that were located within each respective parcel group were tallied to summarize average annual water use for 2016 through 2018 in gallons per day (gpd); meters that did not record any usage for any given year were excluded. The results are also summarized by use recorded within the billing system (read month) versus adjusted use to better capture use within each calendar year as shown below in Table 5.

Table 5 Unit Demands: Single-Family Residential

Parcel Area (square feet)	Actual Use (gpd/meter)			Adjusted Use (gpd/meter)			Meter Count
	2016	2017	2018	2016	2017	2018	
< 7,000	150	154	151	153	158	154	65,104
7,000 – 10,000	189	194	189	193	199	192	75,883
> 10,000	274	284	276	278	290	280	64,696
Total	204	210	205	207	215	208	205,683

Notes: Includes Class Codes: R (residential); R2 (duplex/triplex); L1, L2, L3, L4 (low income)
 Includes water and irrigation service codes (WA and IR).
 Does not account for non-revenue water.

Overall, the consumption per housing unit increases as parcel size increases. On average, single-family residential customers use just over 200 gpd/meter (or housing unit), which is very low compared to other water utilities. In comparison, it is common for customers to use over 300 gpd/housing unit in the Phoenix area. For purposes of future residential demand projections, a rate of 208 gpd/housing unit will be applied.

Multi-family residential customers are often master-metered and lack summaries of housing units per meter, making it difficult to develop unit demands for this customer class. A special analysis of this customer class was conducted and documented in an accompanying One Water 2100 Master Plan Technical Memorandum entitled, “Water Conservation Program Analysis & 10-Year Savings Projection.” Per this memorandum, “the average water use in the multifamily sector is 128.8 gallons per unit per day.”⁸

For non-residential unit demands, all non-residential meters that recorded usage during the analysis period were spatially selected; about 14,000 meters were included. Next, the traffic analysis zones (TAZs) that these meters fell within were selected to estimate the total headcount of existing employees. A summary of consumption per employee is summarized in Table 6; a rate of 59 gpd/employee will be applied for future non-residential demand projections.

Table 6 Unit Demands: Non-Residential

Year (Adjusted Use)	Consumption (gpd)	Consumption (gpd/employee)	Meter Count
2016	20,262,958	59	14,919
2017	20,847,508	60	14,977
2018	20,431,220	59	14,921

Notes: Includes water (WA) and irrigation (IR) service codes.
 Does not account for non-revenue water.

4.0 Water Conservation and Climate Change

Tucson is required by ADWR to implement water conservation programs to reduce water use. Tucson Water has been very proactive on this front and currently implements several conservation strategies to comply with ADWR’s requirements. These are further detailed in the aforementioned Technical Memorandum entitled, “Water Conservation Program 10-Year Savings Projection.” The memorandum estimates that

⁸ WaterDM, *Water Conservation Program 10-Year Savings Projection*, Final, August 2021.

Tucson Water may reduce water demand by a range of 7,055 AF to 16,931 AF⁹ over the next ten years as summarized in Table 7; this estimate will be carried forward in the subsequent water demand projections.

Table 7 Conservation Program Savings Projection

Scenario	10-Year Water Savings Estimate (AF)	Average Savings per Year (AF)
High	16,931	1,693
Medium	11,661	1,166
Low	7,055	705

Tucson Water has also been developing long-range water resource plans that incorporate drought preparedness for more than two decades. An excerpt from Tucson Water’s most recent plan, updated in October 2020,¹⁰ notes that “climate change impacts in the southwest have increasingly shown that drought may be “the new normal”, and not a temporary condition that we experience periodically. The goal of Tucson Water’s long range water resource planning efforts is to mitigate the impacts of future supply uncertainty.” An accompanying One Water 2100 Technical Memorandum prepared by HDR summarizes climate change impacts on not only the Colorado River basin, but also Tucson Water. These impacts will also be incorporated into the water demand projections presented in Section 5.

5.0 Water Demand Projections

5.1 System-wide Projections

Water demand projections for the planning horizon of this master plan update were calculated using the unit demands presented in Section 3.4 along with the growth projections (numbers of housing units and employees) summarized in the “Population Projections” Technical Memorandum. A summary of growth from the “Population Projections” Technical Memorandum is presented in Table 8.

Table 8 Cumulative Housing Unit and Employment Projections

Year	Housing Units			Employees		
	Low	Medium	High	Low	Medium	High
2018	311,434	311,434	311,434	294,481	294,481	294,481
2025	321,737	327,480	332,039	318,406	320,761	323,737
2035	331,838	346,536	359,862	343,269	354,324	365,952
2045	338,736	362,366	386,339	357,611	382,577	407,907
2100	360,432	405,393	466,122	363,036	388,380	414,095

The housing unit projections do not differentiate between single-family or multi-family, so the single-family unit demand was assumed for the projections. The equation to estimate water demand includes both

⁹ Ibid.

¹⁰ Tucson Water, *Drought Preparedness and Response Plan*, October 2020 Update. Accessed 20 Jan 2021, https://www.tucsonaz.gov/files/water/docs/Drought_Preparedness_and_Response_Plan_October_2020_update_FINAL.pdf

residential and non-residential unit demands and non-revenue water as described in Section 3.2 as shown below:

$$\text{Water Demand} = \left(\left(\text{Housing Units} \times 208 \frac{\text{gpd}}{\text{housing unit}} \right) + \left(\text{Employees} \times 59 \frac{\text{gpd}}{\text{employee}} \right) \right) \times 1.087$$

A summary of projected water demand is shown on Figure 11.

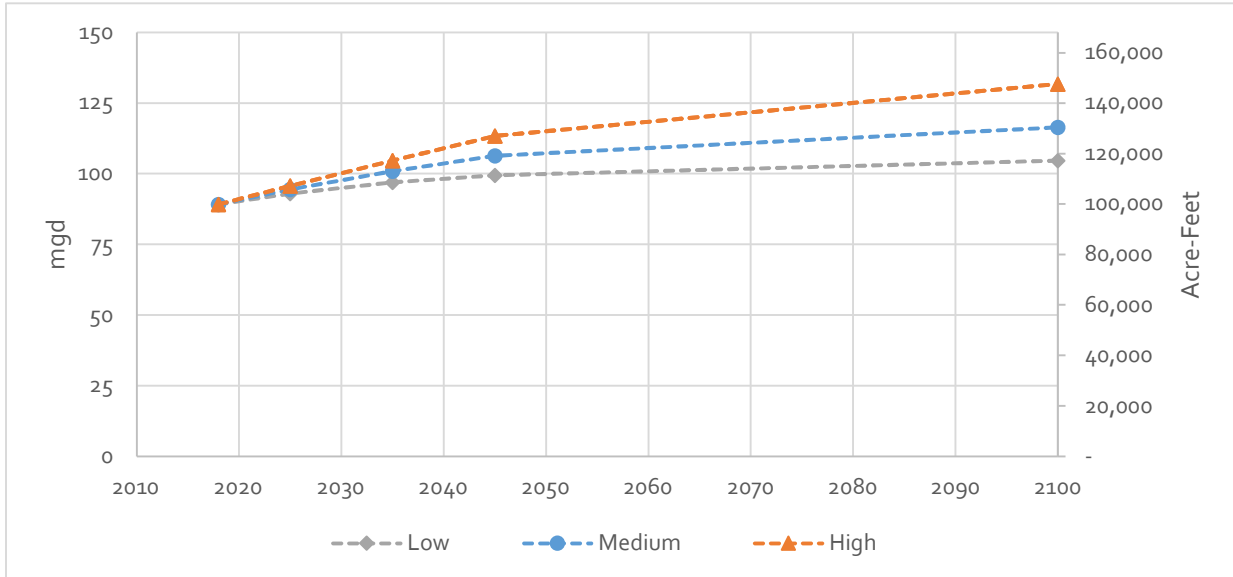


Figure 11 Projected Water Demand

Another projection was completed to account for the effects of conservation. As previously noted, the utility can expect savings ranging from 705 AF to 1,693 AF/yr (600,000 to 1,500,000 gpd) depending on the scenario. Although additional conservation measures may further reduce future customer consumption, the range of 600,000 to 1,500,000 gpd was applied over the planning horizon as an estimate beyond the 10-year timeframe was not available. The equation to estimate water demand with conservation measures includes both residential and non-residential unit demands, conservation savings, and non-revenue water as shown below:

$$\text{Water Demand including Conservation} = \left(\left(\text{Housing Units} \times 208 \frac{\text{gpd}}{\text{housing unit}} \right) + \left(\text{Employees} \times 59 \frac{\text{gpd}}{\text{employee}} \right) - \text{Conservation Savings gpd} \right) \times 1.087$$

Projected water demands accounting for conservation are shown on Figure 12.

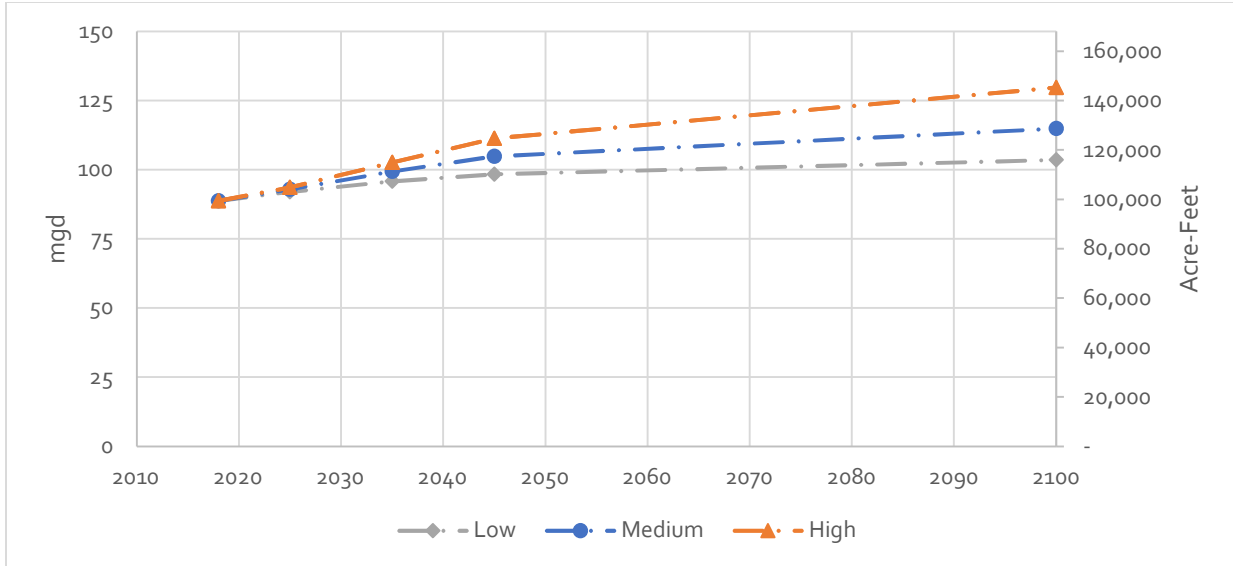


Figure 12 Projected Water Demand with Conservation Measures

Jacobs also incorporated estimated impacts due to climate change that were summarized in HDR’s technical memorandum, “Climate Change: Impacts to Tucson Water and the Tucson Water Integrated Water Master Plan.” Impacts were included in both the medium and high projections where a 1.5-percent water use increase was applied to the medium 2045 and 2100 projected consumption and a 3.0-percent increase was applied to the high 2045 and 2100 projected consumption. The low projection remained unchanged. The equation incorporating climate change impacts in the medium projection is shown below; the medium multiplier of 1.015 is replaced with 1.030 for the high projection:

$$\begin{aligned}
 & \text{Water Demand including Conservation and Climate Change}_{medium} \\
 &= \left(\left(\text{Housing Units} \times 208 \frac{\text{gpd}}{\text{housing unit}} \right) + \left(\text{Employees} \times 59 \frac{\text{gpd}}{\text{employee}} \right) \right. \\
 & \quad \left. - \text{Conservation Savings}_{medium} \text{ gpd} \right) \times 1.015_{medium} \times 1.087
 \end{aligned}$$

Projected water demands incorporating conservation and climate change impacts are shown on Figure 13.

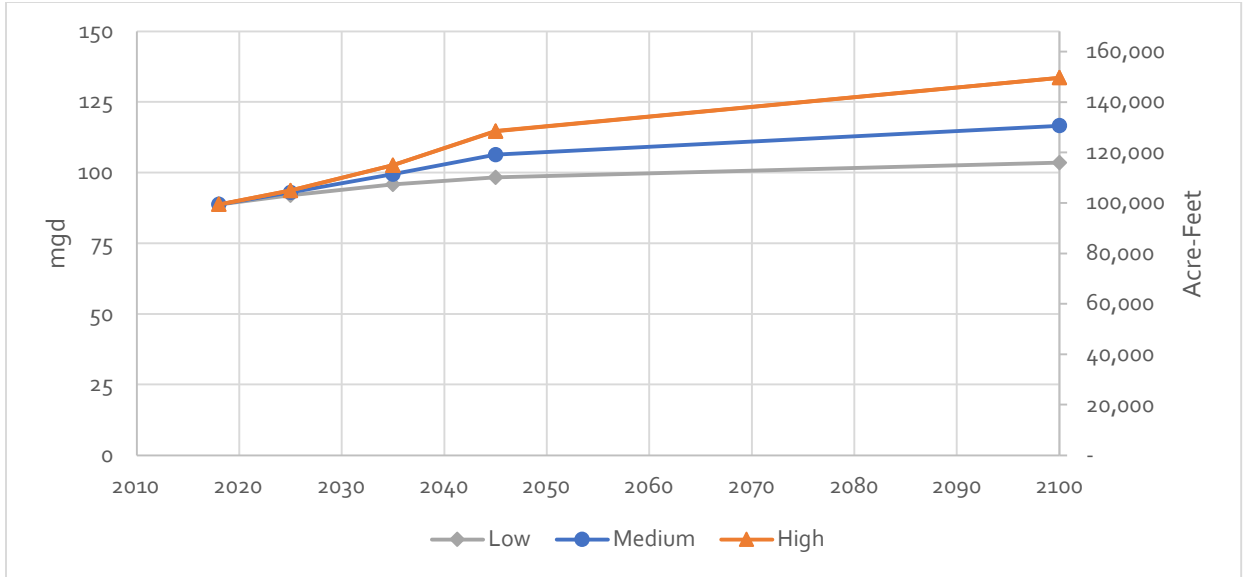


Figure 13 Projected Water Demand with Conservation Measures and Climate Change Impacts

In total, Tucson Water should plan for a range between about 116,000 AF and 150,000 AF of annual average demand by 2100. To estimate maximum day demands, a peaking factor of 1.5 as shown in Section 3.3 may be applied to the average demands noted above. Using this factor, the utility may experience peak day demands ranging from 155 to 200 mgd in 2100.

Although wheeled water does not impact water supply needs, it should be accounted for in customer demands to confirm that the distribution system is capable of conveying these needs. On average, Tucson Water has wheeled about 3 mgd (over 3,000 AF/yr) to customers; however, the distribution system should be capable of conveying the agreement amounts summarized in Table 9.

Table 9 Wheeling Agreement Summary

Entity	Agreement Volume (AF/yr)
Metro Water District	300
Oro Valley	2,600
Pascua Yaqui Tribe	500
Vail Water	1,857
Total	5,257

5.2 Projections by Water Service Area

In addition to developing system-wide water use projections, Jacobs estimated projected use by WSA to support facility capacity analyses. The methodology relied upon geographic information system (GIS) software to allocate projected growth from the TAZ polygons to each WSA. The steps included the following:

1. Intersecting TAZ polygons and WSA polygons to calculate the number of housing units and employees in each WSA. If a TAZ polygon was not completely within a WSA polygon, the

proportional number of housing units and employees were assigned based on TAZ area within the WSA. Any TAZs that were spatially outside of a WSA were assigned to the nearest WSA.

2. Joining each geocoded customer meter (including each customer’s average annual potable water use from 2018) to its respective WSA based on spatial location. Any meter points that were spatially outside of a WSA were assigned to the nearest.
3. Exporting the tabular WSA information to a Microsoft Excel spreadsheet that included existing metered demands and the TAZ projections. Existing demands (2018) were summarized from customer meter records. Demands for 2045 and 2100 were calculated using the formulas in Section 5.1 that include conservation, climate change impacts, and non-revenue water. The spreadsheet calculations also included planned annexations and infill/redevelopment estimates that were added to fully developed WSAs. Annexations and infill/redevelopment were summarized in the Technical Memorandum entitled, “Population Projections.”
4. Rejoining the tabular calculations from the Microsoft Excel spreadsheet to a new GIS geodatabase that provides projections by WSA tabularly and spatially.

The spatial summary of demand added to each WSA is presented on Figure 14 (demand added between 2018 and 2045) and Figure 15 (demand added between 2018 and 2100). A detailed tabular summary by WSA of existing metered demands and projections for 2045 and 2100 is available in Appendix B.

Regions (groups of pressure zones) within the service area that are estimated to have the largest increase in demand over the planning horizon are summarized in Table 10.

Table 10 Demand increases in Water Service Area Regions

WSA Region	Demand increase from 2018 to 2045 (mgd)	Demand increase from 2018 to 2100 (mgd)
A1	4.7	5.7
C1	4.5	8.6
B1	3.4	4.7
F1	3.3	4.5
C5	0.6	0.6
D1	0.5	1.4
K2	0.2	1.4

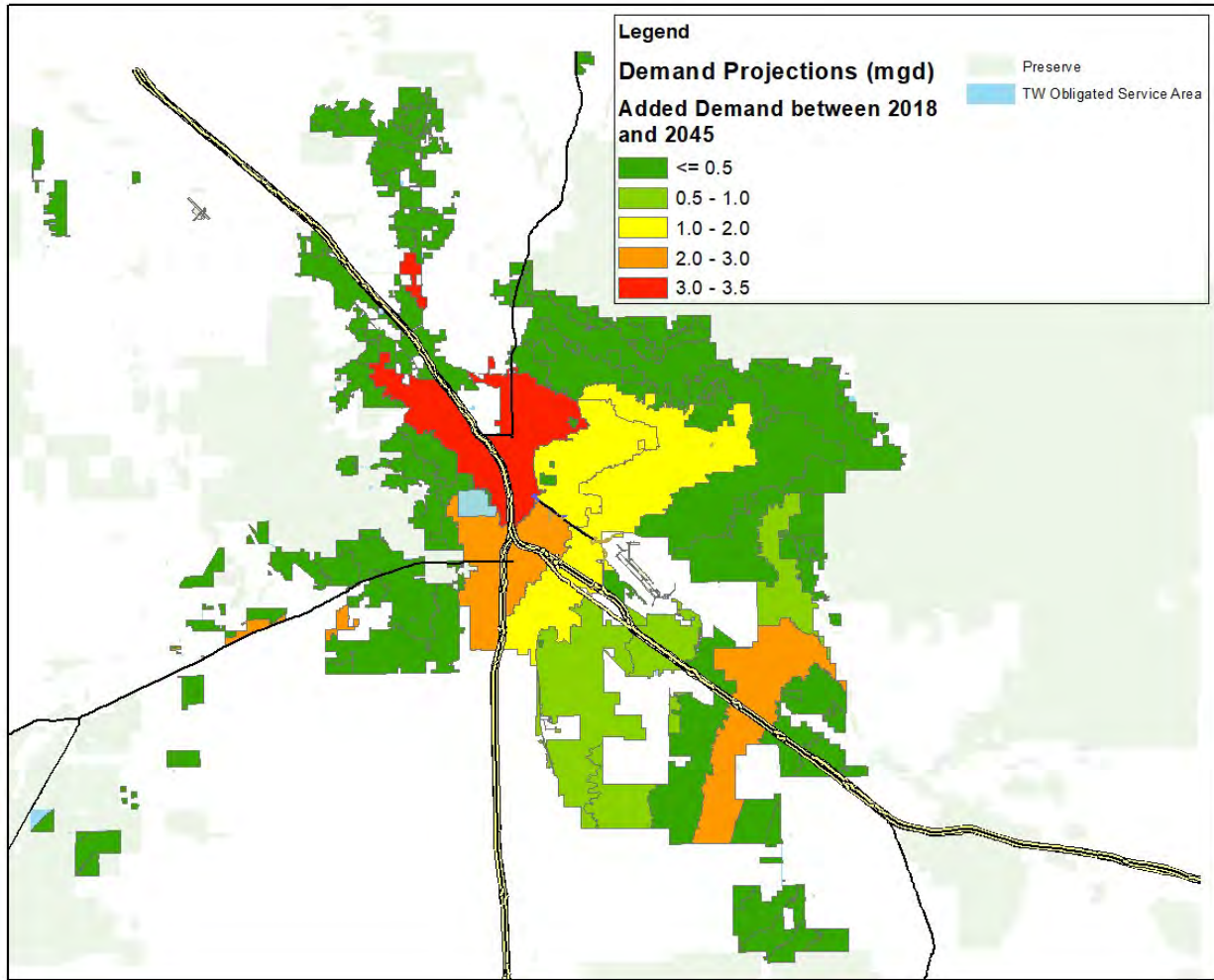


Figure 14 Demand added to Water Service Areas between 2018 and 2045

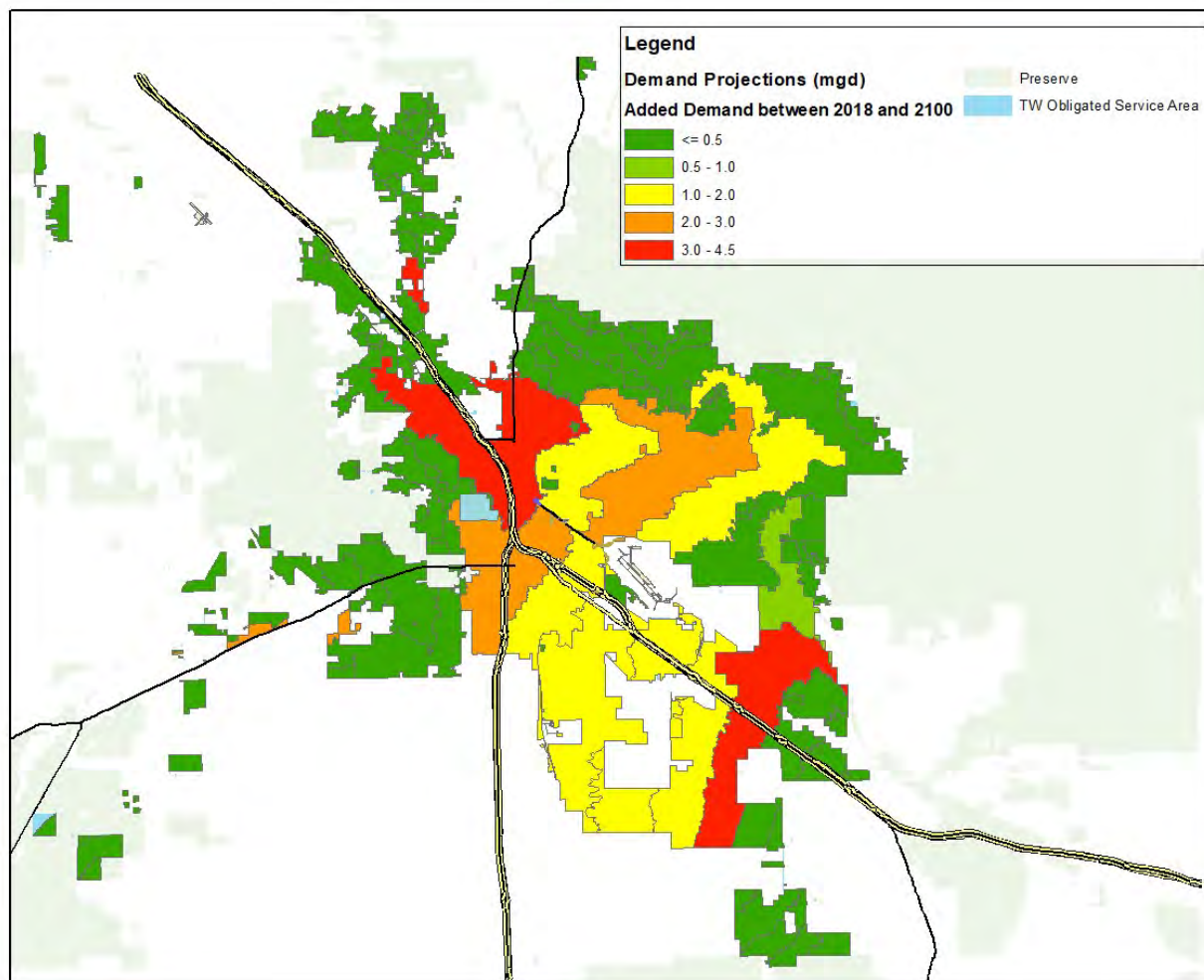


Figure 15 Demand added to Water Service Areas between 2018 and 2100

5.3 Projections by Traffic Analysis Zone

Jacobs also estimated projected use by TAZ to support subsequent planning efforts including hydraulic modeling, where Jacobs also used GIS software to support the analyses. The steps included:

1. Joining each geocoded customer meter (including each customer's average annual potable water use from 2018) to its respective TAZ based on spatial location.
2. Exporting the tabular TAZ information to a Microsoft Excel spreadsheet that included existing metered demands and TAZ projections. Existing demands (2018) were summarized from customer meter records. Demands for 2045 and 2100 were calculated using the formulas in Section 5.1 that include conservation, climate change impacts, and non-revenue water. Microsoft Excel calculations also included planned annexations and infill/redevelopment estimates that were added to fully developed TAZs. Annexations and infill/redevelopment were summarized in the Technical Memorandum entitled, "Population Projections."
3. Rejoining the tabular calculations from the Microsoft Excel spreadsheet to a new GIS geodatabase that provides projections by TAZ tabularly and spatially.

The spatial summary of demand added to each TAZ is presented on Figure 16 (demand added between 2018 and 2045) and Figure 17 (demand added between 2018 and 2100). A detailed tabular summary by TAZ of existing metered demands and projections for 2045 and 2100 is available in Appendix C. TAZs that did not add any demand for the period shown are omitted from each figure.

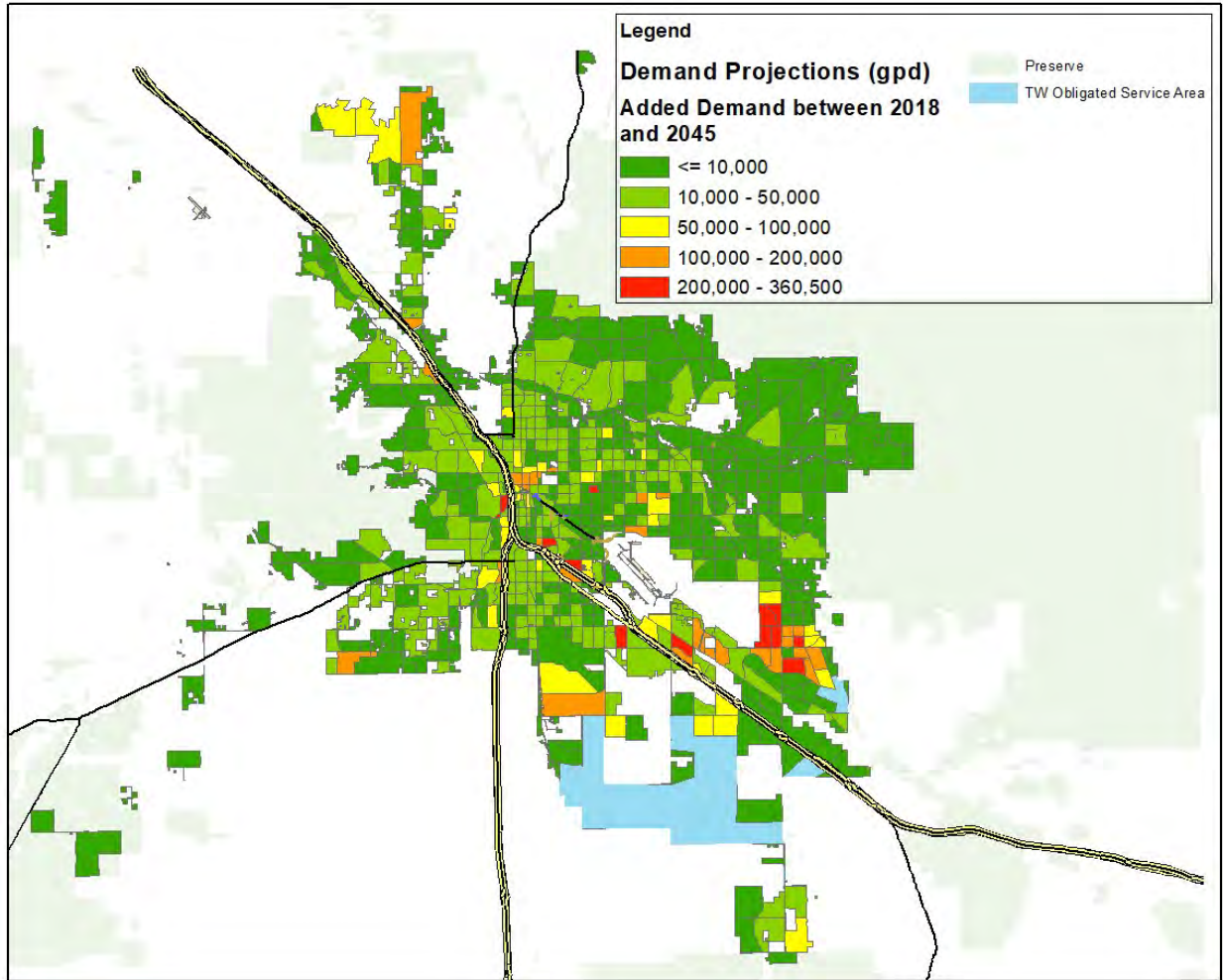


Figure 16 Demand added to Traffic Analysis Zones between 2018 and 2045

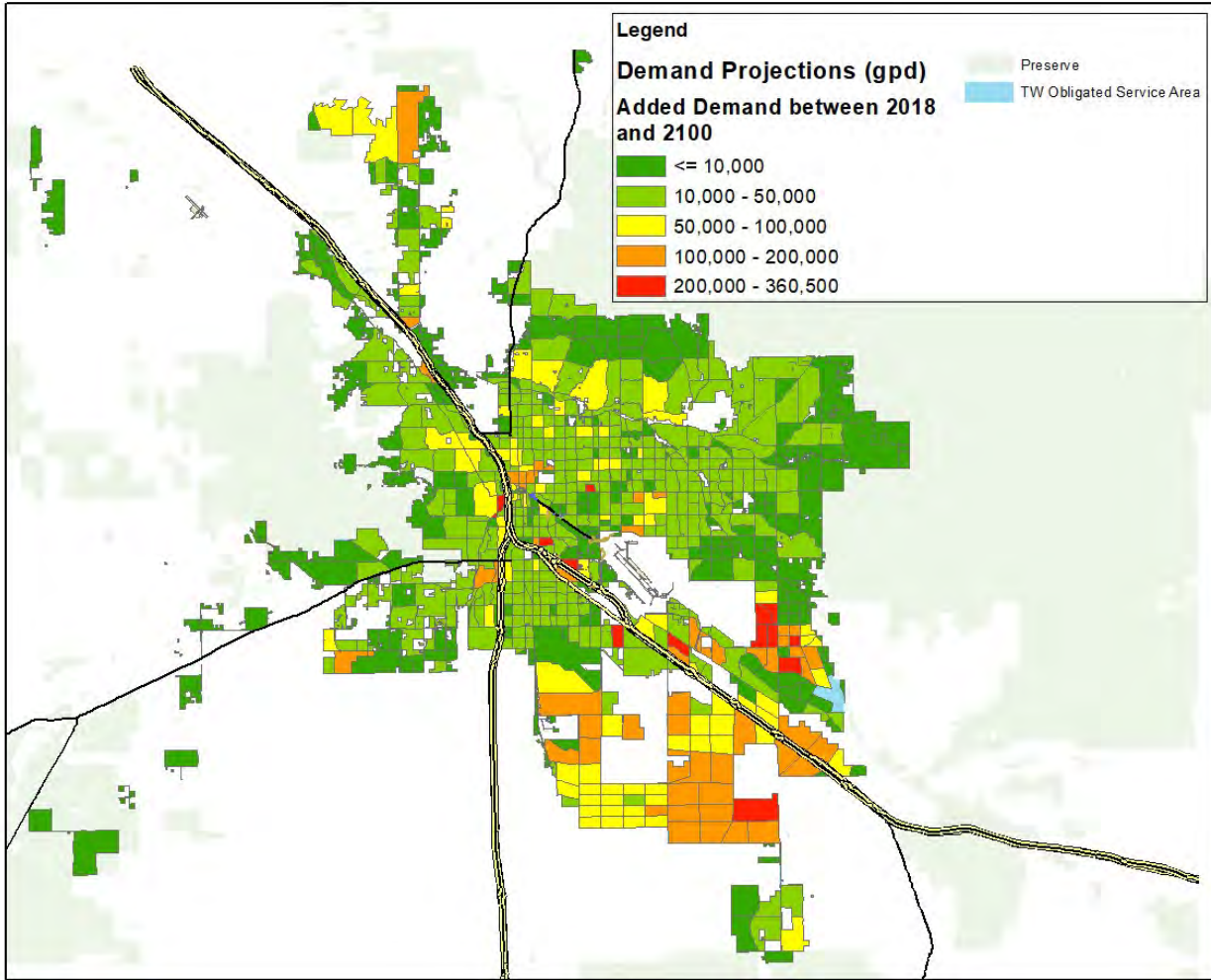


Figure 17 Demand added to Traffic Analysis Zones between 2018 and 2100

6.0 Supply / Demand Balance

The supplies considered for Tucson Water’s long-term supply versus demand balance only include “wet water” supplies from the City’s AWS for a conservative projection. These include supplies from the City’s AWS and CAP subcontract as shown in Table 11.

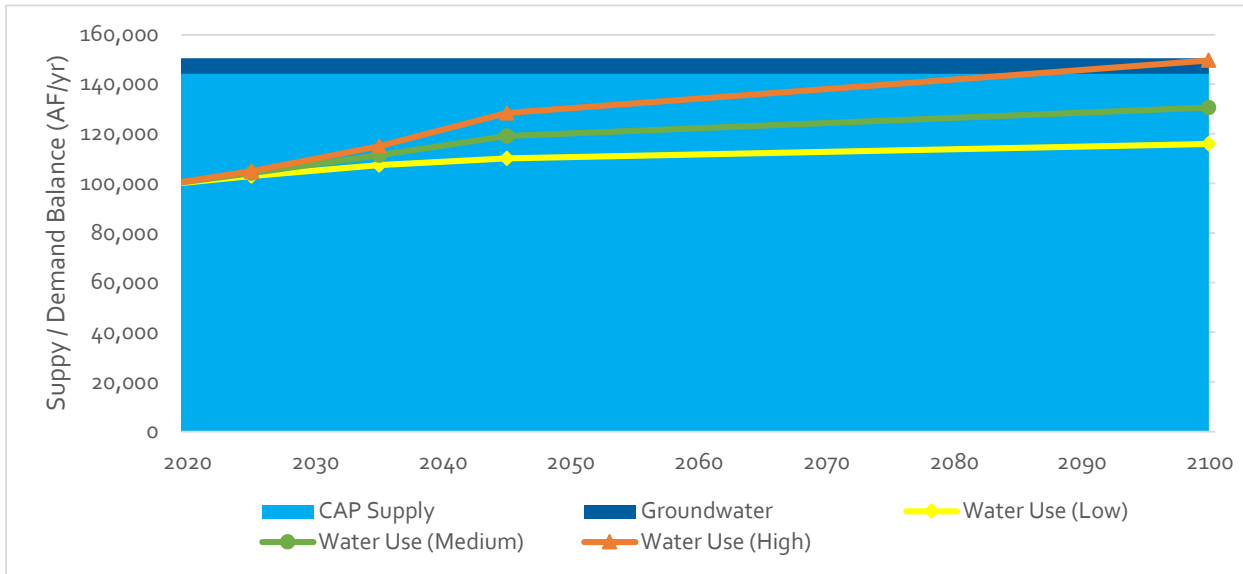
Table 11 Supply Summary for Supply / Demand Balance

Supply Source	Type	Annual Volume (AF/yr)
Groundwater	Incidental Recharge	6,213.82
Groundwater	Allowance	156.72 ^a
CAP Supply	CAWCD Subcontract	144,191
Total		150,561.54^b

a - The groundwater allowance of 12,537.60 AF is not an annual allocation; the volume is spread equally over the 80-year planning horizon.

b - Only includes “wet water” supplies.

The overlay of Tucson Water’s current supplies and projected service area water needs (including estimated effects of conservation and climate change and non-revenue water) are shown on Figure 18. The utility has more than adequate supplies for many years, which are further bolstered by its “paper water” supplies not shown on the figure, such as membership in the CAGR and LTSCs, and other sources including reclaimed water, stormwater, and harvested rain.

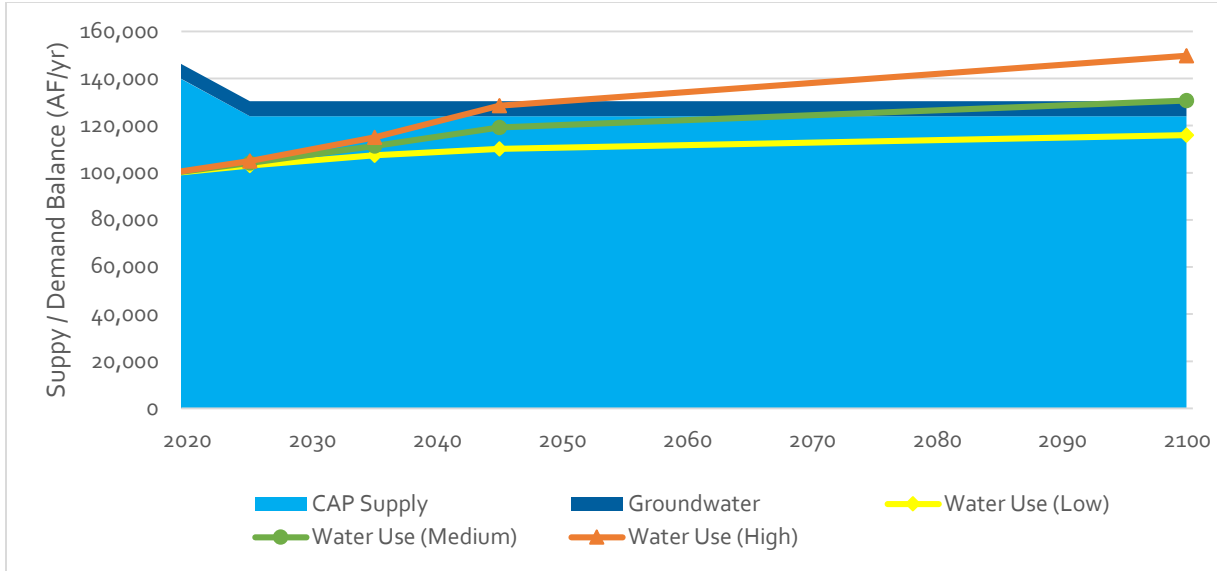


Note: Water use projections do not include wheeled water.

Figure 18 Supply / Demand Balance

To address the long-term drought conditions in the southwestern United States, Tucson Water has documented the impact of the 2019 Lower Colorado River Basin Drought Contingency Plan (DCP) in its recently published *Drought Preparedness and Response Plan*. The DCP outlines CAP delivery reductions in four tiers (zero through three) based on projected Lake Mead elevations; however, Tucson Water will not be impacted until Tier 3.

The resulting impact of Tier 3 reductions, which is the most severe, in Tucson Water’s CAP supply and projected demands is shown on Figure 19.



Note: Bureau of Reclamation currently estimates a 20% probability of a Tier 3 shortage in 2025.

Figure 19 Supply / Demand Balance (Drought Contingency Plan Tier 3)

Despite the potential reduction, Tucson Water is well positioned with adequate supplies, both renewable and non-renewable, for decades. One of these supplies includes 1.2-million AF of groundwater rights in Avra Valley that Tucson Water may access as a backup (Section 2.1). As described in Section 2.3, Tucson Water has been accumulating LTSCs for many years. The utility will continue to store CAP water as long as the allocation or supply is greater than demand. These credits provide a mechanism for Tucson Water to deliver water to customers in times of water shortages. Figure 20 depicts the supply / demand balance under the medium water demand scenario with a Tier 3 CAP reduction in 2025. Figure 20 only includes groundwater resulting from natural recharge as summarized in the City’s Designation of AWS and does not include the backup groundwater rights in Avra Valley. Under these conditions, the utility stops accumulating LTSCs in 2045, but there are ample credits available to support the demand beyond the master planning time frame.

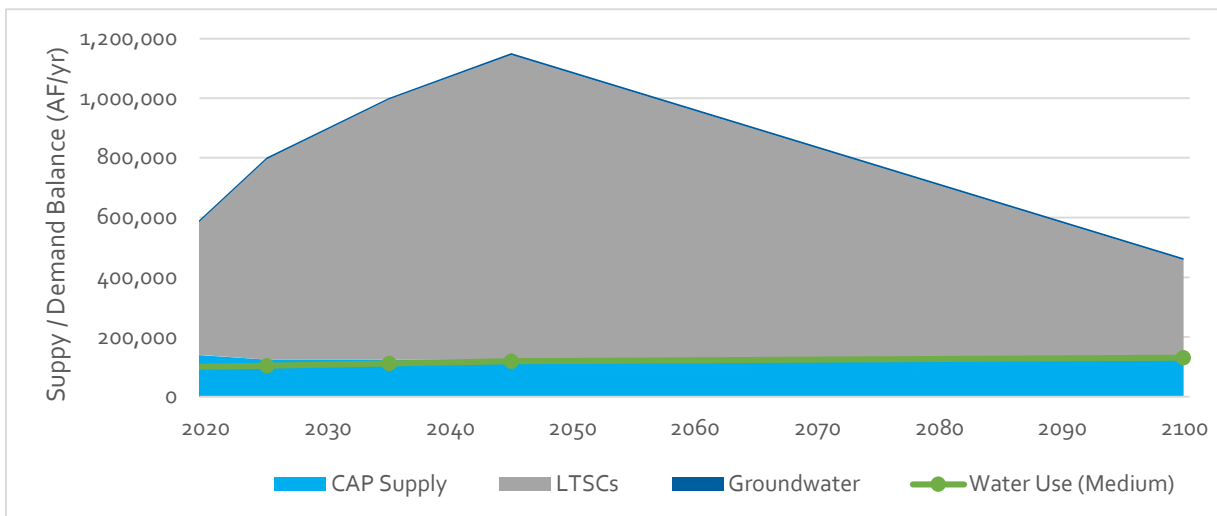


Figure 20 Supply / Demand Balance with LTSCs (Drought Contingency Plan Tier 3)

Graphics summarizing the high and low water demand scenarios are available in Appendix D.

7.0 Conclusion

Although water demands are projected to increase based on growth in the residential and non-residential customer sectors, Tucson Water has a robust and reliable water resources portfolio that will meet its customer needs for decades to come. Next steps include summarizing the spatial distributions of customer demands, including wheeled water, in tabular form to evaluate facility capacities (storage tanks, booster stations) by WSA and also applying the spatial distributions of customer demands by TAZ, including wheeled water, to apply to Tucson Water's hydraulic models. The tabular and hydraulic analyses will evaluate whether the existing infrastructure is capable of meeting these future demands and result in identification of future infrastructure required to resolve deficiencies or serve newly developed areas.

Appendix A

RECLAIMED WATER BILLING ANALYSIS

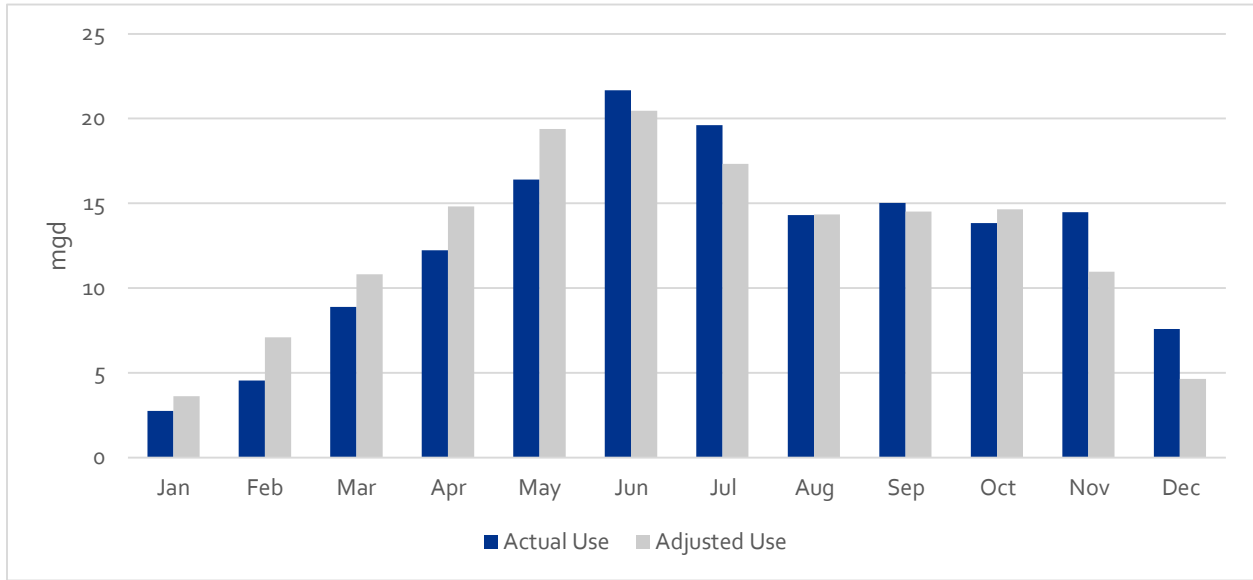


Figure A-1 2016 Reclaimed Water Consumption

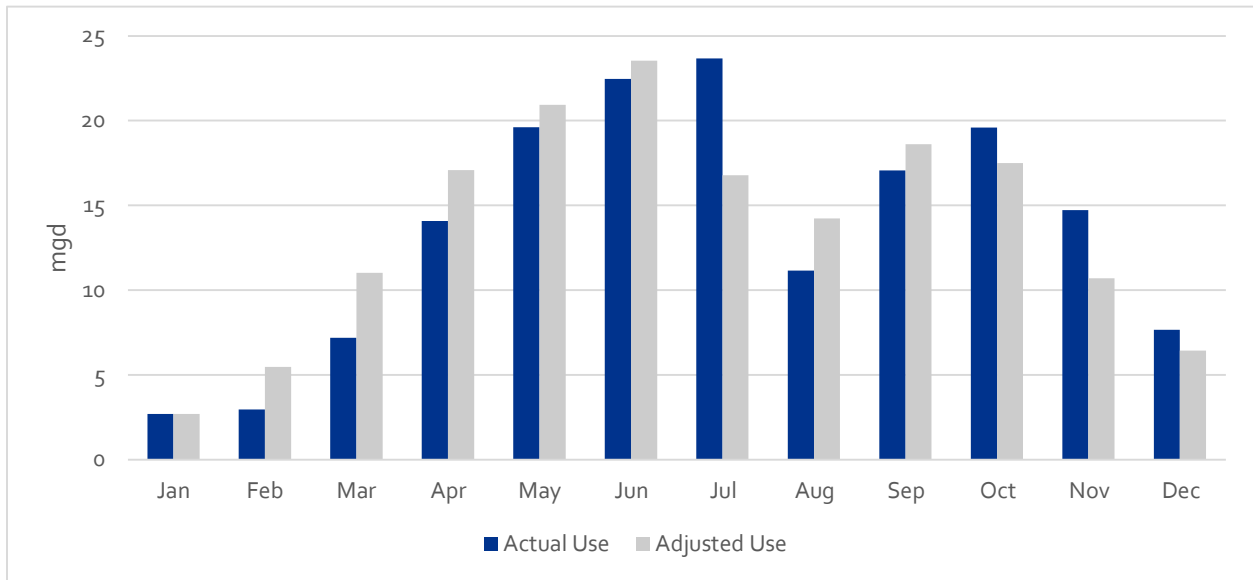


Figure A-2 2017 Reclaimed Water Consumption

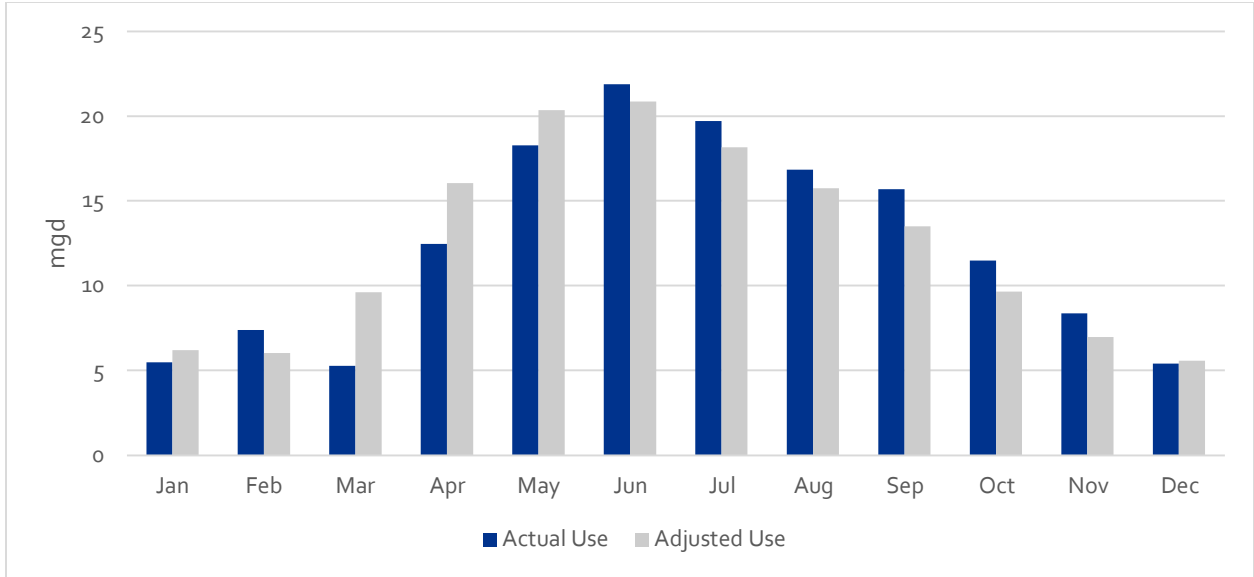


Figure A-3 2018 Reclaimed Water Consumption

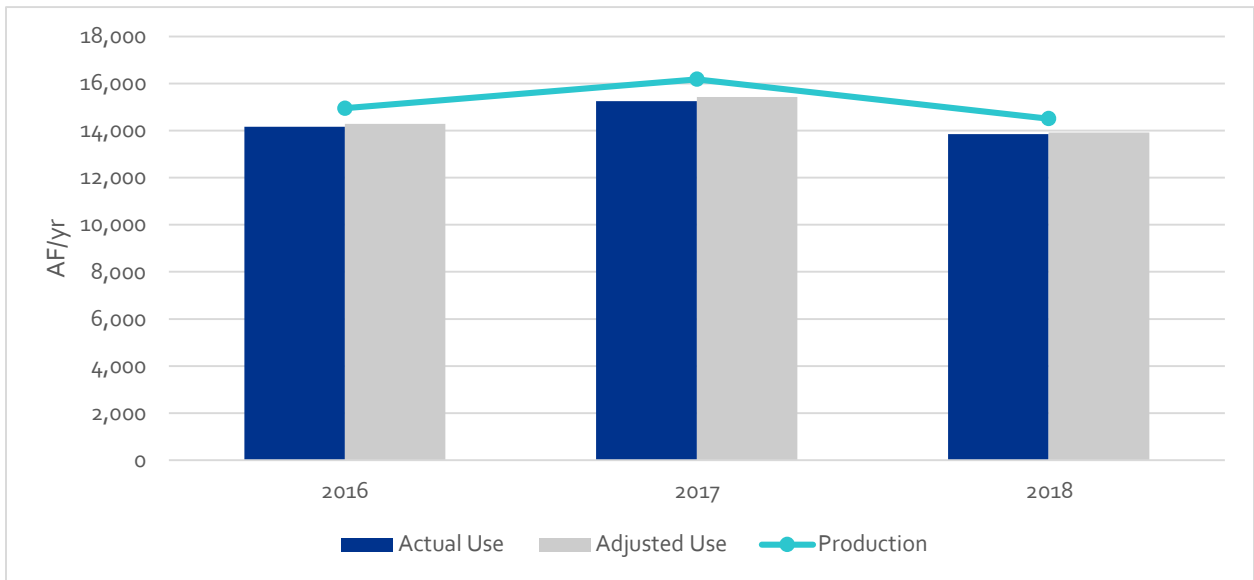


Figure A-4 Annual Reclaimed Water Production and Consumption Comparison

Appendix B

DEMAND PROJECTIONS BY WATER SERVICE AREA

Pressure Zone	2018 Consumption (GPD)							2045 Consumption (GPD)							2100 Consumption (GPD)							Percent Change 2018 to 2045	Notes				
	Residential Annexations	Points that fell outside	Residential	Non-Residential Annexations	Points that fell outside	Non-Residential	Non-Revenue	Total Potable Use	Residential Annexations	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Residential Annexations	Infill/ Redevelopment	Residential	Non-Residential Annexations	Non-Residential			Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
14		0	24,553		0	3,985	2,483	31,020		25,385		5,755	30,808	31,270	2,721	33,991			25,385		5,755	30,835	31,298	2,723	34,021	9.6%	Not in obligated WSA
A1		12,271	7,628,015		343	3,575,581	974,713	12,178,309		9,824,287		4,562,297	14,233,387	14,446,888	1,256,879	15,703,767		897,574	10,721,861		4,562,297	15,134,832	15,361,854	1,336,481	16,698,336	28.9%	Infill/ Redevelopment
A3		0	37,371		0	1,118	3,348	41,837		38,827		1,354	39,752	40,349	3,510	43,859			38,827		1,354	39,788	40,384	3,513	43,898	4.8%	
A4		0	6,370		0	0	554	6,924		6,578			6,508	6,606	575	7,181			6,578			6,514	6,612	575	7,187	3.7%	
A5		0	39,687		10	174	3,468	43,329		39,687		174	39,437	40,028	3,482	43,511			39,687		174	39,472	40,064	3,486	43,550	0.4%	
AC		0	39,011		0	168	3,409	42,587		44,003		522	44,051	44,711	3,890	48,601			44,003		522	44,090	44,751	3,893	48,645	14.1%	
AL		0	2,576		0	0	224	2,801		3,616			3,578	3,632	316	3,948			3,616			3,581	3,635	316	3,951	41.0%	
B1		67	4,567,211		2,720	2,083,913	578,648	7,229,772		5,706,219		2,904,249	8,518,778	8,646,560	752,251	9,398,811		537,415	6,243,218		2,904,249	9,058,096	9,193,968	799,875	9,993,843	30.0%	Infill/ Redevelopment
B1		67	5,335,257		2,720	1,953,649	634,135	7,923,040		6,024,153		2,359,569	8,294,446	8,418,863	732,441	9,151,304		627,789	6,651,942		2,359,569	8,923,468	9,057,320	787,987	9,845,307	15.5%	Infill/ Redevelopment
B3		0	25,213		0	8,551	2,937	36,701		28,541		9,731	37,864	38,432	3,344	41,776			28,541		9,731	37,898	38,467	3,347	41,813	13.8%	
B4		0	317,491		0	56,721	32,556	406,768		343,907		65,807	405,351	411,431	35,795	447,226			343,907		65,807	405,711	411,797	35,826	447,623	9.9%	
B6		0	48,042		0	1,828	4,339	54,208		54,074		2,359	55,832	56,669	4,930	61,599			54,074		2,359	55,881	56,719	4,935	61,654	13.6%	
BC		0	432,461		9,534	13,000	38,755	484,216		465,117		18,133	478,104	485,276	42,219	527,495			465,117		18,133	478,529	485,707	42,256	527,963	8.9%	
BG		0	11,665		0	0	1,015	12,680		12,497		59	12,423	12,609	1,097	13,706			12,497		59	12,434	12,620	1,098	13,718	8.1%	
BM		0	2,581		0	476	266	3,323		2,581		476	3,025	3,070	267	3,337			2,581		476	3,027	3,073	267	3,340	0.4%	
BZ		440	309,724		0	8,816	27,713	346,253		312,012		8,934	317,528	322,291	28,039	350,330			312,012		8,934	317,810	322,577	28,064	350,642	1.2%	
C1		0	3,233,626		8	1,316,345	395,847	4,945,818		3,613,850		1,952,896	5,507,467	5,590,079	486,337	6,076,416		380,494	3,994,344		1,952,896	5,889,136	5,977,473	520,040	6,497,513	22.9%	Infill/ Redevelopment
C1		0	7,454,654		8	3,212,227	928,019	11,594,900		8,123,166		3,847,303	11,843,000	12,020,645	1,045,796	13,066,441		877,175	9,000,341		3,847,303	12,722,123	12,912,954	1,123,427	14,036,381	12.7%	Infill/ Redevelopment

Pressure Zone	2018 Consumption (GPD)								2045 Consumption (GPD)								2100 Consumption (GPD)								Percent Change 2018 to 2045	Notes	
	Residential Annexations	Points that fell outside	Residential	Non-Residential Annexations	Points that fell outside	Non-Residential	Non-Revenue	Total Potable Use	Residential Annexations	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Residential Annexations	Infill/ Redevelopment	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue			Total Potable Use
FC		0	26,924		0	0	2,342	29,267		26,924			26,638	27,037	2,352	29,390	18,304		45,228	1,711		44,787	45,458	3,955	49,413	0.4%	
FM		0	3		717	79,574	6,923	86,501		2,291		79,692	81,111	82,327	7,162	89,490			2,291		79,692	81,183	82,400	7,169	89,569	3.5%	
FR		0	32,791		0	1,680	2,999	37,470		37,783		2,152	39,509	40,102	3,489	43,591			37,783		2,152	39,545	40,138	3,492	43,630	16.3%	
G#		0	0		0	0	0	0																		N/A	Not in obligated WSA
G1		0	134,021		0	10,779	12,598	157,398		137,349		12,431	148,185	150,408	13,085	163,494			137,349		12,431	148,317	150,542	13,097	163,639	3.9%	
G2		0	1,204,035		0	509,000	149,034	1,862,070		3,157,779		726,946	3,843,359	3,901,009	339,388	4,240,397			4,139,955		794,855	4,886,597	4,959,896	431,511	5,391,407	127.7%	
G4		0	360,105		0	30,099	33,948	424,152		364,681		30,217	390,693	396,554	34,500	431,054			364,681		30,217	391,040	396,906	34,531	431,437	1.6%	
G5		476,800	476,800		1,215,592	1,215,592	147,238	1,839,630		476,800		1,215,592	1,674,371	1,699,486	147,855	1,847,341			476,800		1,215,592	1,675,858	1,700,995	147,987	1,848,982	0.4%	
G6		0	145,531		0	29,379	15,217	190,127		175,275		30,264	203,350	206,400	17,957	224,357			175,275		30,264	203,531	206,584	17,973	224,557	18.0%	
G7		0	6,594		0	0	574	7,168		7,218		118	7,258	7,367	641	8,008			7,218		118	7,264	7,373	641	8,015	11.7%	
G8		0	48,174		0	0	4,191	52,365		48,174			47,661	48,376	4,209	52,585	18,304		66,478	1,711		65,829	66,816	5,813	72,629	0.4%	
GA		193	41,925		0	951	3,730	46,607		42,965		1,777	44,266	44,930	3,909	48,839			42,965		1,777	44,305	44,970	3,912	48,882	4.8%	
GB		0	3,745		0	114	336	4,195		3,953		114	4,024	4,085	355	4,440			3,953		114	4,028	4,088	356	4,444	5.8%	
GC		0	47,832		0	238	4,182	52,252		49,704		238	49,410	50,151	4,363	54,515	18,304		68,008	1,711	238	67,579	68,593	5,968	74,561	4.3%	
GE		0	24,183		0	0	2,104	26,287		24,183			23,926	24,285	2,113	26,398	18,304		42,487	1,711		42,072	42,703	3,715	46,419	0.4%	
GF		0	16,131		0	0	1,403	17,535		16,131			15,960	16,199	1,409	17,608			16,131			15,974	16,213	1,411	17,624	0.4%	
GL		0	4,912		0	92	435	5,440		6,784		92	6,803	6,905	601	7,506			6,784		92	6,809	6,911	601	7,512	38.0%	
GQ		0	22,502		0	2,134	2,143	26,779		25,206		2,606	27,516	27,928	2,430	30,358			25,206		2,606	27,540	27,953	2,432	30,385	13.4%	
GR		0	14,384		0	0	1,251	15,635		16,672		236	16,728	16,979	1,477	18,456			16,672		236	16,743	16,994	1,478	18,472	18.0%	
GS		0	9,317		0	127	822	10,266		10,565		186	10,637	10,797	939	11,736			10,565		186	10,646	10,806	940	11,746	14.3%	
GT		0	0		0	2,691	234	2,926		208		2,691	2,869	2,912	253	3,165			208		2,691	2,871	2,914	254	3,168	8.2%	
GV		0	2,609		0	0	227	2,836		2,609			2,581	2,620	228	2,848			2,609			2,583	2,622	228	2,850	0.4%	
GW		350	34,063		624	706	3,025	37,793		34,063		706	34,398	34,914	3,038	37,952			34,063		706	34,429	34,945	3,040	37,985	0.4%	
H#		0	0		0	0	0	0				1,534	1,518	1,540	134	1,674			341,952		24,662	363,032	368,478	32,058	400,535	No existing development; growth planned	
H#		0	0		0	12,405	1,079	13,485				12,405	12,273	12,457	1,084	13,541			284,752		32,642	314,293	319,008	27,754	346,762	0.4%	

Pressure Zone	2018 Consumption (GPD)								2045 Consumption (GPD)								2100 Consumption (GPD)								Percent Change 2018 to 2045	Notes	
	Residential Annexations	Points that fell outside	Residential	Non-Residential Annexations	Points that fell outside	Non-Residential	Non-Revenue	Total Potable Use	Residential Annexations	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Residential Annexations	Infill/ Redevelopment	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue			Total Potable Use
H2		0	73,503		0	10,666	7,323	91,492		266,111		21,758	284,804	289,076	25,150	314,226			266,527		21,817	285,527	289,810	25,213	315,024	243.4%	
H3		0	6,315		0	147	562	7,024		6,315		147	6,393	6,488	564	7,053			6,315		147	6,398	6,494	565	7,059	0.4%	
H4		0	28,360		0	0	2,467	30,828		28,568			28,264	28,688	2,496	31,184			28,568			28,289	28,714	2,498	31,212	1.2%	
H5		0	4,339		0	0	377	4,716		4,339			4,292	4,357	379	4,736			4,339			4,296	4,361	379	4,740	0.4%	
HA		0	12,631		43	1,535	1,232	15,398		13,463		1,771	15,072	15,298	1,331	16,629			13,463		1,771	15,085	15,311	1,332	16,644	8.0%	
HF		0	0		0	76,400	6,647	83,047		416		79,999	79,558	80,752	7,025	87,777			416		79,999	79,629	80,824	7,032	87,855	5.7%	
HP		0	247,639		0	2,003	21,719	271,361		261,783		2,180	261,152	265,069	23,061	288,130			261,783		2,180	261,384	265,305	23,081	288,386	6.2%	
HQ		0	81,539		0	1,239	7,202	89,979		82,995		1,298	83,395	84,645	7,364	92,010			82,995		1,298	83,469	84,721	7,371	92,091	2.3%	
HR		0	30,521		0	3,598	2,968	37,087		34,057		3,893	37,546	38,109	3,315	41,425			34,057		3,893	37,579	38,143	3,318	41,461	11.7%	
HV		0	3,921		0	26	343	4,290		3,921		26	3,905	3,964	345	4,308			3,921		26	3,909	3,967	345	4,312	0.4%	
I2		0	0		0	0	0	0		4,160		118	4,232	4,296	374	4,670			274,144		19,529	290,804	295,166	25,679	320,845	No existing development; growth planned	
I2		0	14,606		0	0	1,271	15,876		14,606			14,450	14,667	1,276	15,943			14,606			14,463	14,680	1,277	15,957	0.4%	
I2		0	0		0	0	0	0		28,912		295	28,896	29,329	2,552	31,881			28,912		295	28,922	29,355	2,554	31,909	No existing development; growth planned	
I2		0	1,986		0	0	173	2,159		1,986			1,965	1,994	174	2,168			87,058		6,018	92,167	93,549	8,139	101,688	0.4%	
I4		0	178,483		0	20,571	17,318	216,372		180,563		20,689	199,109	202,096	17,582	219,678			180,563		20,689	199,286	202,275	17,598	219,873	1.5%	
I5		0	36,116		0	2,030	3,319	41,465		36,116		2,030	37,740	38,306	3,333	41,639			36,116		2,030	37,774	38,340	3,336	41,676	0.4%	
I6		363	59,288		0	11,406	6,150	76,844		59,288		11,524	70,058	71,109	6,186	77,295			59,288		11,524	70,120	71,172	6,192	77,364	0.6%	
IA		0	270,808		0	132,325	35,073	438,206		275,176		132,620	403,454	409,506	35,627	445,133			275,176		132,620	403,812	409,869	35,659	445,528	1.6%	
IB		0	1,693		0	0	147	1,840		2,317			2,292	2,326	202	2,529			2,317			2,294	2,328	203	2,531	37.4%	
IF		0	25,909		0	229	2,274	28,412		25,909		229	25,860	26,248	2,284	28,531			25,909		229	25,883	26,271	2,286	28,557	0.4%	

Pressure Zone	2018 Consumption (GPD)								2045 Consumption (GPD)								2100 Consumption (GPD)								Percent Change 2018 to 2045	Notes		
	Residential Annexations	Points that fell outside	Residential	Non-Residential Annexations	Points that fell outside	Non-Residential	Non-Revenue	Total Potable Use	Residential Annexations	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Residential Annexations	Infill/ Redevelopment	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue			Total Potable Use	
IL		0	0		0	0	0	0		832			823	835	73	908			832				824	836	73	909	No existing development; growth planned	
IM		0	21,934		0	0	1,908	23,842		31,710		177	31,547	32,020	2,786	34,806			31,710		177	31,575	32,049	2,788	34,837	46.0%		
IP		0	52,448		0	3,034	4,827	60,309		57,232		3,093	59,682	60,578	5,270	65,848			57,232		3,093	59,735	60,631	5,275	65,906	9.2%		
IP		0	5,405		0	0	470	5,875		5,613			5,553	5,636	490	6,127			5,613			5,558	5,641	491	6,132	4.3%		
IR		0	6,261		0	0	545	6,806		6,261			6,194	6,287	547	6,834	18,304		24,565	1,711		24,325	24,690	2,148	26,838	0.4%		
J3		0	17,222		0	0	1,498	18,720		17,638			17,450	17,712	1,541	19,253			17,638			17,466	17,728	1,542	19,270	2.8%		
J4		0	39,321		0	93	3,429	42,843		39,737		93	39,405	39,997	3,480	43,476			39,737		93	39,440	40,032	3,483	43,515	1.5%		
J7		0	3,747		0	0	326	4,073		3,747			3,707	3,762	327	4,090			3,747			3,710	3,766	328	4,093	0.4%		
JL		0	2,365		0	288	231	2,884		12,141		288	12,297	12,481	1,086	13,567			12,141		288	12,308	12,492	1,087	13,579	370.4%		
JM		0	2,150		0	0	187	2,337		4,230			4,185	4,247	370	4,617			4,230			4,188	4,251	370	4,621	97.6%		
K2		163	379,367		0	32,054	35,794	447,215		416,807		32,526	444,549	451,217	39,256	490,473			439,063		34,178	468,618	475,647	41,381	517,028	9.7%		
K5		0	5,102		0	0	444	5,546		5,102			5,048	5,124	446	5,569			5,102			5,052	5,128	446	5,574	0.4%		
KA		0	4,680		0	0	407	5,087		5,512			5,453	5,535	482	6,017			5,512			5,458	5,540	482	6,022	18.3%		
KL		0	0		0	0	0	0		624			617	627	55	681			624			618	627	55	682	No existing development; growth planned		
KM		0	13,673		0	0	1,190	14,862		35,513			35,135	35,662	3,103	38,764			35,513			35,166	35,693	3,105	38,799	160.8%		
LL		0	0		0	0	0	0		416			412	418	36	454			416			412	418	36	454	No existing development; growth planned		
M2		0	216,678		0	5,630	19,341	241,649		268,886		5,630	271,593	275,667	23,983	299,650			268,886		5,630	271,834	275,912	24,004	299,916	24.0%		
NL		0	0		0	0	0	0		18,096			17,903	18,172	1,581	19,753			18,096			17,919	18,188	1,582	19,770	No existing development; growth planned		

Pressure Zone	2018 Consumption (GPD)								2045 Consumption (GPD)								2100 Consumption (GPD)								Percent Change 2018 to 2045	Notes		
	Residential Annexations	Points that fell outside	Residential	Non-Residential Annexations	Points that fell outside	Non-Residential	Non-Revenue	Total Potable Use	Residential Annexations	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Residential Annexations	Infill/ Redevelopment	Residential	Non-Residential Annexations	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue			Total Potable Use	
NM		0	0		0	0	0	0		4,368			4,321	4,386	382	4,768			4,368				4,325	4,390	382	4,772	No existing development; growth planned	
O2		0	914		0	0	80	994		43,762			43,296	43,945	3,823	47,769			43,762				43,334	43,984	3,827	47,811	4708.1%	
PP		0	0		0	956	83	1,039		26,416		5,263	31,342	31,812	2,768	34,579			26,416		5,263		31,369	31,840	2,770	34,610	3228.0%	Not in obligated WSA
PZ		0	279		0	65	30	374		487		773	1,247	1,266	110	1,376			487		773		1,248	1,267	110	1,377	267.6%	
Q2		0	0		0	0	0	0		4,992			4,939	5,013	436	5,449			4,992				4,943	5,017	437	5,454	No existing development; growth planned	Not in obligated WSA
QH		0	0		0	0	0	0		208			206	209	18	227			208				206	209	18	227	No existing development; growth planned	
UA		0	0		0	347,085	30,196	377,281		7,072		442,075	444,364	451,029	39,240	490,269			7,072		442,075		444,759	451,430	39,274	490,704	29.9%	Not in obligated WSA
W1		0	212,405		0	13,557	19,659	245,621		212,405		13,557	223,556	226,909	19,741	246,650			212,405		13,557		223,754	227,111	19,759	246,869	0.4%	
WC		0	16,429		0	0	1,429	17,859		16,429			16,255	16,498	1,435	17,934			16,429				16,269	16,513	1,437	17,950	0.4%	
X1		114	148,251		0	5,167	13,347	166,766		159,691		5,993	163,921	166,379	14,475	180,854			159,691		5,993		164,066	166,527	14,488	181,015	8.4%	
Y1		419	887,230		81	338,142	106,607	1,331,979		976,462		357,789	1,320,043	1,339,843	116,566	1,456,410			976,462		357,789		1,321,215	1,341,033	116,670	1,457,703	9.3%	
Z#		0	470		0	0	41	511		886			876	889	77	967			886				877	890	77	968	89.3%	
Z5		0	0		0	0	0	0																			N/A	SAVSARP
ZA		7,088	1,245,972		7,581	414,356	144,449	1,804,776		1,403,220		539,377	1,921,911	1,950,740	169,714	2,120,454			1,403,220		539,377		1,923,618	1,952,472	169,865	2,122,337	17.5%	
ZK		0	16,590		0	2	1,444	18,036		18,878		179	18,854	19,137	1,665	20,802			18,878		179		18,871	19,154	1,666	20,821	15.3%	
ZM		0	59,554		0	0	5,181	64,735		66,210		4,779	70,233	71,287	6,202	77,489			66,210		4,779		70,296	71,350	6,207	77,558	19.7%	
ZW		0	0		3,210	3,210	279	3,489				3,210	3,176	3,223	280	3,504					3,210		3,178	3,226	281	3,507	0.4%	SAVSARP
Sum	832	515,109	60,896,887	34,810	1,489,620	20,784,810	7,106,308	88,788,005	624	71,562,295	56,876	26,191,039	96,712,395	98,163,081	8,540,188	106,703,269	110,656	4,121,728	80,106,519	67,201	26,437,954	105,503,534	107,086,087	9,316,490	116,402,576			

Appendix C

DEMAND PROJECTIONS BY TRAFFIC ANALYSIS ZONE

TAZ	2018 Consumption (GPD)				2045 Consumption (GPD)						2100 Consumption (GPD)							
	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
1	0	21,939	1,909	23,848	1,664	22,529	23,934	24,293	2,114	26,407	0	0	1,664	22,529	23,955	24,315	2,115	26,430
2	0	41,768	3,634	45,402	4,784	59,173	63,273	64,222	5,587	69,809	0	0	4,784	59,173	63,329	64,279	5,592	69,872
3	21,639	5,294	2,343	29,277	79,463	31,726	110,000	111,650	9,714	121,363	21,639	11	81,650	31,726	112,263	113,947	9,913	123,860
4	0	13,883	1,208	15,091	0	13,883	13,734	13,940	1,213	15,153	0	0	0	13,883	13,747	13,953	1,214	15,167
5	2,581	41,995	3,878	48,454	5,077	52,320	56,783	57,635	5,014	62,649	2,581	1	5,338	52,320	57,092	57,948	5,041	62,990
6	0	23,516	2,046	25,561	2,496	31,068	33,204	33,702	2,932	36,634	0	0	2,496	31,068	33,234	33,732	2,935	36,667
7	805	11,216	1,046	13,067	6,005	49,330	54,743	55,564	4,834	60,398	805	0	6,086	49,330	54,872	55,695	4,845	60,541
8	0	16,278	1,416	17,694	20,800	19,346	39,716	40,312	3,507	43,819	0	0	20,800	19,346	39,752	40,348	3,510	43,858
9	0	22,621	1,968	24,589	13,520	29,052	42,116	42,748	3,719	46,467	0	0	13,520	29,052	42,154	42,786	3,722	46,509
10	0	25,586	2,226	27,812	416	26,884	27,008	27,413	2,385	29,798	0	0	416	26,884	27,032	27,437	2,387	29,824
11	0	12,131	1,055	13,187	0	12,249	12,118	12,300	1,070	13,370	0	0	0	12,249	12,129	12,311	1,071	13,382
12	0	17,957	1,562	19,519	38,896	26,453	64,649	65,619	5,709	71,328	0	0	38,896	26,453	64,707	65,678	5,714	71,392
13	0	897	78	975	78,832	33,701	111,328	112,998	9,831	122,829	0	0	78,832	33,701	111,428	113,099	9,840	122,939
14	778	18,154	1,647	20,579	117,466	30,603	146,484	148,681	12,935	161,617	778	0	117,544	30,603	146,693	148,893	12,954	161,847
15	20,830	31,809	4,580	57,218	64,302	52,990	116,036	117,777	10,247	128,023	20,830	10	66,407	52,990	118,224	119,997	10,440	130,437
16	0	47,358	4,120	51,478	0	53,376	52,805	53,597	4,663	58,260	0	0	0	53,376	52,852	53,645	4,667	58,312
17	49,064	66,314	10,038	125,416	69,240	74,515	142,217	144,350	12,558	156,908	49,064	24	74,198	74,515	147,253	149,462	13,003	162,465
18	0	28,692	2,496	31,188	4,160	47,513	51,120	51,887	4,514	56,401	0	0	4,160	47,513	51,166	51,933	4,518	56,451
19	0	74,281	6,462	80,743	50,752	96,465	145,641	147,826	12,861	160,687	0	0	50,752	96,465	145,771	147,958	12,872	160,830
20	395	7,655	700	8,750	22,651	32,494	54,554	55,373	4,817	60,190	395	0	22,691	32,494	54,643	55,462	4,825	60,287
21	14,355	39,876	4,718	58,950	29,747	53,741	82,595	83,834	7,294	91,128	14,355	7	31,198	53,741	84,105	85,367	7,427	92,794
22	60,954	22,184	7,233	90,370	115,034	44,840	158,162	160,535	13,967	174,501	60,954	30	121,194	44,840	164,403	166,869	14,518	181,386
23	58,043	7,007	5,659	70,709	66,363	22,406	87,819	89,136	7,755	96,891	58,043	28	72,228	22,406	93,705	95,111	8,275	103,385
24	0	26,416	2,298	28,714	0	32,375	32,029	32,509	2,828	35,337	0	0	0	32,375	32,057	32,538	2,831	35,369

TAZ	2018 Consumption (GPD)				2045 Consumption (GPD)						2100 Consumption (GPD)							
	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
25	32,071	13,252	3,943	49,266	42,679	15,022	57,083	57,939	5,041	62,980	32,071	16	45,920	15,022	60,343	61,248	5,329	66,577
26	19,994	8,091	2,443	30,528	26,026	9,566	35,211	35,739	3,109	38,848	19,994	10	28,046	9,566	37,243	37,802	3,289	41,090
27	36,058	3,251	3,420	42,729	40,634	8,148	48,260	48,984	4,262	53,246	36,058	18	44,278	8,148	51,912	52,690	4,584	57,274
28	30,168	11,055	3,586	44,810	62,616	18,135	79,887	81,085	7,054	88,140	30,168	15	65,665	18,135	82,977	84,222	7,327	91,549
29	28,001	3,675	2,756	34,432	46,721	9,398	55,519	56,352	4,903	61,254	28,001	14	49,551	9,398	58,370	59,246	5,154	64,400
30	21,023	1,628	1,971	24,621	24,975	2,631	27,310	27,720	2,412	30,131	21,023	10	27,099	2,631	29,438	29,880	2,600	32,479
31	1,738	14,457	1,409	17,605	2,570	16,935	19,297	19,586	1,704	21,290	1,738	1	2,746	16,935	19,488	19,780	1,721	21,501
32	18,380	32,953	4,466	55,799	49,788	45,992	94,755	96,176	8,367	104,544	18,380	9	51,645	45,992	96,679	98,129	8,537	106,666
33	0	3,192	278	3,469	1,040	27,500	28,234	28,658	2,493	31,151	0	0	1,040	27,500	28,260	28,683	2,495	31,179
34	12,807	42,749	4,833	60,390	13,847	47,115	60,310	61,214	5,326	66,540	12,807	6	15,141	47,115	61,645	62,570	5,444	68,013
35	23,418	90,707	9,929	124,054	41,098	106,519	146,037	148,228	12,896	161,123	23,418	11	43,465	106,519	148,511	150,738	13,114	163,853
36	36,000	34,635	6,145	76,781	55,344	41,833	96,137	97,579	8,489	106,069	36,000	17	58,983	41,833	99,825	101,323	8,815	110,138
37	130,028	60,583	16,583	207,194	227,580	74,389	298,737	303,218	26,380	329,598	130,028	63	240,720	74,389	312,015	316,695	27,552	344,248
38	116,046	54,279	14,818	185,143	223,166	74,280	294,262	298,676	25,985	324,661	116,046	56	234,893	74,280	306,137	310,729	27,033	337,763
39	66,821	66,285	11,580	144,686	136,917	90,475	224,958	228,333	19,865	248,198	66,821	32	143,670	90,475	231,846	235,323	20,473	255,796
40	20,818	9,662	2,652	33,132	37,042	12,022	48,539	49,267	4,286	53,553	20,818	10	39,146	12,022	50,665	51,425	4,474	55,899
41	200	38,394	3,358	41,951	200	47,303	46,994	47,699	4,150	51,848	200	0	220	47,303	47,056	47,762	4,155	51,917
42	0	470	41	511	0	765	757	768	67	835	0	0	0	765	757	769	67	836
43	0	34,554	3,006	37,561	0	34,908	34,535	35,053	3,050	38,102	0	0	0	34,908	34,566	35,084	3,052	38,136
44	1,602	30,570	2,799	34,971	3,145	31,455	34,230	34,743	3,023	37,766	1,602	1	3,307	31,455	34,420	34,937	3,039	37,976
45	8,754	47,642	4,906	61,302	8,961	50,651	58,973	59,858	5,208	65,066	8,754	4	9,847	50,651	59,903	60,802	5,290	66,092
46	18,291	135,917	13,416	167,624	114,179	146,655	258,042	261,912	22,786	284,699	18,291	9	116,027	146,655	260,102	264,004	22,968	286,972
47	118,908	10,185	11,231	140,323	186,092	22,929	206,783	209,885	18,260	228,145	118,908	58	198,108	22,929	218,867	222,150	19,327	241,477
48	20,697	594,762	53,545	669,004	31,158	737,719	760,649	772,058	67,169	839,227	20,697	10	33,250	737,719	763,398	774,849	67,412	842,261
49	113,567	10,830	10,823	135,220	114,190	10,830	123,682	125,537	10,922	136,459	113,567	55	125,668	10,830	135,158	137,185	11,935	149,120
50	106,355	11,859	10,285	128,499	108,435	11,918	119,065	120,851	10,514	131,365	106,355	52	119,183	11,918	129,814	131,761	11,463	143,224
51	58,217	28,512	7,545	94,274	102,313	41,787	142,558	144,696	12,589	157,285	58,217	28	108,196	41,787	148,511	150,738	13,114	163,852
52	6,188	23,483	2,581	32,252	13,676	30,032	43,240	43,888	3,818	47,707	6,188	3	14,301	30,032	43,898	44,556	3,876	48,432

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
53	61,928	51,847	9,898	123,674	111,224	66,538	175,860	178,497	15,529	194,027	61,928	30	117,482	66,538	182,213	184,947	16,090	201,037
54	15,161	23,512	3,365	42,037	52,601	31,713	83,411	84,663	7,366	92,028	15,161	7	54,133	31,713	85,003	86,278	7,506	93,784
55	175,681	64,654	20,909	261,244	178,177	64,890	240,466	244,073	21,234	265,307	175,681	85	195,931	64,890	258,260	262,134	22,806	284,940
56	54,991	16,341	6,206	77,537	58,943	17,993	76,112	77,254	6,721	83,975	54,991	27	64,500	17,993	81,683	82,908	7,213	90,121
57	17,858	58,598	6,652	83,107	26,386	61,902	87,342	88,653	7,713	96,365	17,858	9	28,190	61,902	89,207	90,545	7,877	98,423
58	68,924	7,069	6,611	82,604	72,668	8,367	80,167	81,370	7,079	88,449	68,924	33	79,633	8,367	87,136	88,443	7,695	96,137
59	116,418	25,629	12,358	154,405	157,602	28,756	184,364	187,129	16,280	203,409	116,418	57	169,367	28,756	196,178	199,120	17,323	216,444
60	0	0	0	0	0	0	0	0	0	0	0	0	59,072	4,248	62,698	63,639	5,537	69,175
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	1,200	0	104	1,304	1,404	0	1,389	1,410	123	1,532	0	0	101,664	7,139	107,734	109,350	9,513	118,864
63	0	0	0	0	0	0	0	0	0	0	0	0	83,200	5,900	88,225	89,548	7,791	97,339
64	13,789	377	1,232	15,399	15,022	377	15,233	15,462	1,345	16,807	0	0	27,517	1,321	28,555	28,983	2,522	31,505
65	0	0	0	0	0	0	0	0	0	0	0	0	27,248	1,947	28,908	29,342	2,553	31,895
66	0	0	0	0	0	57,053	56,442	57,289	4,984	62,273	0	0	0	57,053	56,493	57,340	4,989	62,329
67	0	0	0	0	2,211	21,712	23,667	24,022	2,090	26,112	0	0	2,288	21,712	23,764	24,121	2,099	26,219
68	131,207	17,733	12,958	161,898	131,207	17,733	147,346	149,556	13,011	162,567	131,207	64	144,467	17,733	160,607	163,016	14,182	177,198
69	130,901	92,739	19,457	243,097	131,109	92,739	221,453	224,774	19,555	244,330	130,901	64	144,338	92,739	234,749	238,270	20,730	259,000
70	235,115	49,932	24,799	309,846	235,323	49,932	282,202	286,435	24,920	311,355	235,115	114	259,084	49,932	305,981	310,571	27,020	337,590
71	0	0	0	0	4,655	472	5,072	5,148	448	5,596	0	0	4,655	472	5,076	5,152	448	5,601
72	0	0	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1
73	0	0	0	0	60	0	59	60	5	65	0	0	60	0	59	60	5	65
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	20,020	59	19,864	20,162	1,754	21,916	0	0	20,020	59	19,881	20,180	1,756	21,935
78	0	0	0	0	58	0	57	58	5	63	0	0	58	0	58	58	5	63
79	0	0	0	0	4,807	59	4,814	4,886	425	5,311	0	0	84,656	6,018	89,784	91,130	7,928	99,059
80	0	0	0	0	5,308	118	5,368	5,448	474	5,922	0	0	5,408	118	5,472	5,554	483	6,037

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
81	0	0	0	0	0	59	58	59	5	64	0	0	0	59	58	59	5	64
82	0	0	0	0	114	0	113	114	10	124	0	0	208	0	206	209	18	227
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	54	0	53	54	5	58	0	0	54	0	53	54	5	59
85	0	0	0	0	83,200	0	82,310	83,544	7,268	90,813	0	0	83,200	0	82,383	83,619	7,275	90,894
86	10,247	0	891	11,139	10,247	59	10,196	10,349	900	11,249	0	0	10,247	59	10,205	10,358	901	11,259
87	0	0	0	0	736	0	728	739	64	803	0	0	113,984	8,083	120,868	122,681	10,673	133,355
88	0	0	0	0	49,921	177	49,562	50,305	4,377	54,682	0	0	49,921	177	49,606	50,350	4,380	54,731
89	0	0	0	0	156,000	2,124	156,432	158,778	13,814	172,592	0	0	156,000	2,124	156,571	158,920	13,826	172,746
90	0	0	0	0	72,800	944	72,955	74,049	6,442	80,491	0	0	72,800	944	73,020	74,115	6,448	80,563
91	0	0	0	0	67,314	177	66,768	67,770	5,896	73,666	0	0	67,392	177	66,905	67,909	5,908	73,817
92	0	0	0	0	166,400	7,788	172,324	174,909	15,217	190,126	0	0	166,400	7,788	172,477	175,065	15,231	190,295
93	0	0	0	0	0	236	233	237	21	258	0	0	0	236	234	237	21	258
94	84,615	11,018	8,320	103,953	87,069	11,077	97,095	98,552	8,574	107,126	0	0	87,111	11,077	97,224	98,682	8,585	107,267
95	59,419	1,143	5,269	65,832	60,447	1,261	61,048	61,964	5,391	67,355	59,419	29	66,452	1,261	67,048	68,054	5,921	73,975
96	18,217	0	1,585	19,802	18,217	472	18,489	18,767	1,633	20,399	0	0	18,217	472	18,506	18,783	1,634	20,417
97	23,658	98	2,067	25,822	45,128	629	45,267	45,946	3,997	49,943	0	0	45,128	629	45,308	45,987	4,001	49,988
98	73,766	0	6,418	80,183	73,766	0	72,976	74,071	6,444	80,515	0	0	73,766	0	73,041	74,137	6,450	80,587
99	0	2,774	241	3,015	0	3,010	2,978	3,022	263	3,285	0	0	0	3,010	2,980	3,025	263	3,288
100	0	0	0	0	104,000	6,844	109,658	111,303	9,683	120,986	0	0	104,000	6,844	109,756	111,402	9,692	121,094
101	0	0	0	0	104,000	8,673	111,467	113,139	9,843	122,982	0	0	104,000	8,673	111,567	113,240	9,852	123,092
102	0	0	0	0	197,600	3,835	199,279	202,268	17,597	219,866	0	0	197,600	3,835	199,457	202,449	17,613	220,062
103	56,194	0	4,889	61,082	56,194	708	56,293	57,137	4,971	62,108	0	0	56,194	708	56,343	57,188	4,975	62,163
104	15,288	0	1,330	16,618	15,636	59	15,527	15,759	1,371	17,131	0	0	15,704	59	15,608	15,842	1,378	17,220
105	43,925	0	3,821	47,746	45,589	177	45,276	45,955	3,998	49,953	43,925	21	50,028	177	49,712	50,458	4,390	54,847
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	75,682	4,110	6,942	86,734	75,890	4,110	79,143	80,331	6,989	87,319	0	0	75,890	4,110	79,214	80,402	6,995	87,397
108	19,511	29,686	4,280	53,477	22,442	29,981	51,862	52,640	4,580	57,220	19,511	9	24,414	29,981	53,861	54,669	4,756	59,425

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
109	134,054	1,081	11,757	146,892	134,054	1,081	133,689	135,695	11,805	147,500	0	0	134,054	1,081	133,809	135,816	11,816	147,632
110	0	0	0	0	124,800	1,593	125,040	126,916	11,042	137,958	0	0	124,800	1,593	125,152	127,029	11,052	138,081
111	72,560	5,092	6,756	84,407	72,768	5,505	77,435	78,596	6,838	85,434	0	0	72,768	5,505	77,504	78,667	6,844	85,511
112	0	76,400	6,647	83,047	624	83,303	83,028	84,274	7,332	91,606	0	0	624	83,303	83,103	84,349	7,338	91,688
113	20,912	10,569	2,739	34,219	25,703	13,460	38,744	39,325	3,421	42,746	0	0	25,703	13,460	38,778	39,360	3,424	42,784
114	0	0	0	0	135,200	8,437	142,100	144,231	12,548	156,779	0	0	135,200	8,437	142,226	144,360	12,559	156,919
115	18,986	0	1,652	20,638	278,986	2,832	278,802	282,984	24,620	307,604	0	0	278,986	2,832	279,051	283,237	24,642	307,878
116	101,500	6,114	9,362	116,976	101,708	8,887	109,411	111,052	9,662	120,713	0	0	101,708	8,887	109,508	111,151	9,670	120,821
117	80,909	574	7,089	88,572	81,949	2,167	83,215	84,464	7,348	91,812	0	0	81,949	2,167	83,290	84,539	7,355	91,894
118	199,809	19,721	19,099	238,629	200,017	41,374	238,807	242,389	21,088	263,477	0	0	200,017	41,374	239,020	242,606	21,107	263,712
119	82,713	15,193	8,518	106,424	94,942	16,314	110,065	111,716	9,719	121,436	0	0	94,985	16,314	110,206	111,859	9,732	121,591
120	155,463	2,322	13,727	171,512	155,671	5,390	159,337	161,727	14,070	175,797	155,463	76	171,381	5,390	175,036	177,661	15,457	193,118
121	77,226	19,567	8,421	105,213	77,434	21,160	97,538	99,001	8,613	107,614	0	0	77,434	21,160	97,625	99,089	8,621	107,710
122	120,406	2,664	10,707	133,777	122,072	4,375	125,094	126,970	11,046	138,017	0	0	122,072	4,375	125,206	127,084	11,056	138,140
123	14,735	0	1,282	16,017	14,735	413	14,986	15,211	1,323	16,534	0	0	14,735	413	14,999	15,224	1,324	16,549
124	0	0	0	0	0	1,003	992	1,007	88	1,095	0	0	154,960	11,033	164,363	166,828	14,514	181,342
125	0	0	0	0	0	0	0	0	0	0	0	0	108,368	7,670	114,899	116,622	10,146	126,768
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	118	117	118	10	129	0	0	106,288	7,552	112,722	114,413	9,954	124,367
130	136,568	3,781	12,210	152,560	136,568	3,958	139,022	141,108	12,276	153,384	136,568	66	150,370	3,958	152,812	155,105	13,494	168,599
131	83,074	7,320	7,864	98,259	83,074	7,733	89,836	91,183	7,933	99,116	0	0	83,074	7,733	89,916	91,265	7,940	99,205
132	83,190	3,501	7,542	94,233	83,606	4,209	86,875	88,179	7,672	95,850	0	0	83,606	4,209	86,953	88,257	7,678	95,936
133	102,793	10,882	9,890	123,565	102,793	12,357	113,918	115,627	10,060	125,686	0	0	102,793	12,357	114,019	115,730	10,068	125,798
134	0	0	0	0	187,200	16,284	201,306	204,326	17,776	222,102	0	0	187,200	16,284	201,486	204,508	17,792	222,300
135	64,592	54,898	10,396	129,886	210,192	69,884	277,079	281,235	24,467	305,702	0	0	210,192	69,884	277,326	281,486	24,489	305,975
136	753	4,348	444	5,545	961	5,941	6,828	6,931	603	7,534	753	0	1,037	5,941	6,910	7,013	610	7,624

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
137	58,423	2,013	5,258	65,695	58,839	4,373	62,536	63,474	5,522	68,997	0	0	58,839	4,373	62,592	63,531	5,527	69,058
138	36	2	3	41	187,236	3,247	188,444	191,271	16,641	207,912	0	0	187,236	3,247	188,613	191,442	16,655	208,097
139	82,152	7,844	7,830	97,826	82,568	10,145	91,721	93,097	8,099	101,196	0	0	82,568	10,145	91,803	93,180	8,107	101,286
140	158,963	25,998	16,092	201,053	159,350	28,476	185,816	188,603	16,408	205,011	0	0	159,379	28,476	186,011	188,801	16,426	205,227
141	110,922	3,830	9,983	124,735	110,922	4,597	114,282	115,996	10,092	126,088	0	0	110,922	4,597	114,384	116,100	10,101	126,201
142	215,665	30,688	21,433	267,785	216,289	38,771	252,330	256,115	22,282	278,397	0	0	216,289	38,771	252,555	256,343	22,302	278,645
143	96,240	847	8,447	105,534	97,280	3,325	99,529	101,022	8,789	109,811	96,240	47	107,006	3,325	109,248	110,887	9,647	120,534
144	179,616	14,856	16,919	211,390	179,616	14,856	192,390	195,276	16,989	212,265	179,616	87	197,767	14,856	210,535	213,693	18,591	232,284
145	95,485	15,319	9,640	120,444	95,693	16,853	111,342	113,012	9,832	122,844	0	0	95,693	16,853	111,441	113,113	9,841	122,953
146	119,179	0	10,369	129,548	119,179	0	117,904	119,672	10,412	130,084	119,179	58	131,224	0	129,935	131,884	11,474	143,358
147	80,212	10,494	7,891	98,597	81,252	10,966	91,231	92,599	8,056	100,655	0	0	81,252	10,966	91,312	92,682	8,063	100,745
148	0	0	0	0	31,188	649	31,497	31,969	2,781	34,750	0	0	31,200	649	31,536	32,009	2,785	34,794
149	65	636	61	762	72,863	2,642	74,697	75,817	6,596	82,413	0	0	72,865	2,642	74,765	75,887	6,602	82,489
150	0	0	0	0	197,600	1,357	196,828	199,780	17,381	217,161	0	0	197,600	1,357	197,003	199,958	17,396	217,355
151	0	0	0	0	0	236	233	237	21	258	0	0	64,480	4,602	68,404	69,430	6,040	75,470
152	0	0	0	0	0	295	292	296	26	322	0	0	68,848	4,897	73,021	74,116	6,448	80,564
153	0	0	0	0	0	118	117	118	10	129	0	0	67,392	4,779	71,462	72,534	6,310	78,845
154	288,906	52,725	29,722	371,353	290,570	53,079	339,971	345,071	30,021	375,092	0	0	290,570	53,079	340,274	345,379	30,048	375,426
155	0	1,218	106	1,324	249,196	2,634	249,135	252,872	22,000	274,872	0	0	249,196	2,634	249,358	253,098	22,020	275,117
156	16,592	0	1,443	18,035	16,592	0	16,414	16,660	1,449	18,110	0	0	16,592	0	16,429	16,675	1,451	18,126
157	101,843	9,641	9,699	121,184	195,443	13,181	206,392	209,488	18,225	227,713	0	0	195,443	13,181	206,576	209,675	18,242	227,916
158	0	0	0	0	0	0	0	0	0	0	0	0	128,544	9,145	136,337	138,382	12,039	150,421
159	157,861	11,249	14,713	183,823	158,693	11,367	168,240	170,764	14,856	185,620	157,861	77	174,647	11,367	184,187	186,950	16,265	203,215
160	63,454	45,431	9,473	118,358	63,981	46,493	109,291	110,931	9,651	120,582	63,454	31	70,490	46,493	115,835	117,572	10,229	127,801
161	212,020	23,152	20,460	255,632	219,831	23,978	241,199	244,817	21,299	266,116	212,020	103	241,350	23,978	262,723	266,664	23,200	289,863
162	135,529	23,598	13,844	172,972	137,153	23,775	159,206	161,594	14,059	175,652	135,529	66	150,890	23,775	172,950	175,544	15,272	190,816
163	310,990	8,565	27,801	347,357	311,614	8,683	316,870	321,623	27,981	349,604	0	0	311,614	8,683	317,152	321,910	28,006	349,916
164	94	70,412	6,134	76,641	1,549	108,172	108,546	110,175	9,585	119,760	0	0	1,550	108,172	108,645	110,275	9,594	119,869

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
165	0	176,839	15,385	192,225	1,248	179,258	178,575	181,253	15,769	197,022	0	0	1,248	179,258	178,734	181,415	15,783	197,198
166	0	4,051	352	4,403	208	5,231	5,381	5,462	475	5,937	0	0	48,048	7,473	54,976	55,800	4,855	60,655
167	106,582	8,035	9,972	124,588	106,998	8,035	113,802	115,509	10,049	125,558	106,582	52	117,769	8,035	124,568	126,437	11,000	137,437
168	84,222	11,693	8,345	104,260	84,430	12,519	95,912	97,351	8,470	105,820	84,222	41	92,942	12,519	104,426	105,992	9,221	115,213
169	54,364	16,366	6,153	76,883	54,492	16,484	70,216	71,269	6,200	77,470	54,364	26	60,065	16,484	75,798	76,935	6,693	83,628
170	158,825	3,387	14,112	176,324	159,449	7,399	165,062	167,538	14,576	182,114	158,825	77	175,499	7,399	181,102	183,819	15,992	199,811
171	223,965	12,275	20,553	256,793	225,421	14,930	237,779	241,345	20,997	262,343	223,965	109	248,055	14,930	260,402	264,308	22,995	287,303
172	154,440	0	13,436	167,877	189,592	4,071	191,591	194,464	16,918	211,383	0	0	189,592	4,071	191,762	194,638	16,934	211,572
173	165,420	10,650	15,318	191,388	165,420	10,650	174,186	176,798	15,381	192,180	0	0	165,420	10,650	174,341	176,956	15,395	192,351
174	0	0	0	0	0	118	117	118	10	129	0	0	157,872	11,210	167,422	169,933	14,784	184,717
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	0	12,405	1,079	13,485	0	12,405	12,273	12,457	1,084	13,540	0	0	199,056	26,506	223,347	226,698	19,723	246,420
177	199,016	10,819	18,256	228,091	199,640	12,648	210,016	213,166	18,545	231,712	199,016	97	219,752	12,648	230,118	233,570	20,321	253,890
178	168,578	33,588	17,588	219,754	170,658	39,606	208,013	211,134	18,369	229,502	0	0	170,658	39,606	208,199	211,322	18,385	229,707
179	79,651	116	6,940	86,706	80,769	3,833	83,697	84,952	7,391	92,343	0	0	80,769	3,833	83,771	85,028	7,397	92,425
180	18,794	24,196	3,740	46,729	19,210	28,621	47,318	48,028	4,178	52,207	18,794	9	21,109	28,621	49,241	49,980	4,348	54,328
181	70,083	309	6,124	76,517	70,083	309	69,639	70,684	6,149	76,833	0	0	70,083	309	69,701	70,747	6,155	76,902
182	104,297	5,910	9,588	119,796	118,233	9,804	126,667	128,567	11,185	139,753	104,297	51	128,774	9,804	137,217	139,275	12,117	151,392
183	156,477	11,238	14,591	182,306	167,917	11,946	177,938	180,607	15,713	196,320	156,477	76	183,730	11,946	193,755	196,661	17,110	213,770
184	96,803	0	8,422	105,225	97,219	472	96,646	98,096	8,534	106,630	0	0	97,219	472	96,732	98,183	8,542	106,725
185	112,745	0	9,809	122,554	113,284	2,065	114,115	115,826	10,077	125,903	112,745	55	124,763	2,065	125,583	127,466	11,090	138,556
186	129,092	48,328	15,436	192,856	129,300	48,328	175,727	178,363	15,518	193,881	129,092	63	142,346	48,328	188,802	191,634	16,672	208,306
187	96,951	40,156	11,928	149,035	97,367	40,687	136,576	138,625	12,060	150,685	96,951	47	107,164	40,687	146,399	148,595	12,928	161,523
188	172,831	108,061	24,438	305,330	174,070	122,575	293,470	297,872	25,915	323,787	0	0	174,079	122,575	293,741	298,147	25,939	324,086
189	0	0	0	0	0	0	0	0	0	0	0	0	90,688	6,431	96,165	97,608	8,492	106,100
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
191	177,327	22,560	17,390	217,278	177,535	24,684	200,055	203,056	17,666	220,722	177,327	86	195,456	24,684	217,978	221,248	19,249	240,497
192	39,821	5,929	3,980	49,730	40,237	6,932	46,664	47,364	4,121	51,485	39,821	19	44,262	6,932	50,691	51,451	4,476	55,927

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
193	69,333	15,819	7,408	92,560	71,413	17,412	87,874	89,192	7,760	96,952	69,333	34	78,420	17,412	94,890	96,314	8,379	104,693
194	241,561	17,343	22,525	281,429	241,561	17,343	256,133	259,975	22,618	282,593	241,561	117	265,973	17,343	280,534	284,742	24,773	309,515
195	186,740	1,026	16,336	204,102	189,028	1,321	188,312	191,137	16,629	207,766	186,740	91	207,900	1,321	207,167	210,274	18,294	228,568
196	116,886	40,166	13,664	170,716	119,798	42,939	160,996	163,411	14,217	177,627	0	0	119,798	42,939	161,139	163,556	14,229	177,786
197	100,210	25,189	10,910	136,309	102,914	26,369	127,899	129,818	11,294	141,112	100,210	49	113,041	26,369	138,041	140,112	12,190	152,302
198	218,349	42,106	22,660	283,115	218,765	46,531	262,457	266,394	23,176	289,570	218,349	106	240,831	46,531	284,540	288,808	25,126	313,935
199	143,930	21,385	14,382	179,697	145,802	22,329	166,331	168,826	14,688	183,514	0	0	145,802	22,329	166,480	168,977	14,701	183,678
200	67,358	25,716	8,097	101,171	67,358	28,135	94,471	95,888	8,342	104,230	0	0	67,358	28,135	94,555	95,974	8,350	104,323
201	83,305	124,264	18,059	225,628	83,927	126,034	207,714	210,830	18,342	229,172	83,305	40	92,348	126,034	216,238	219,481	19,095	238,576
202	45,350	7,037	4,558	56,945	48,933	7,863	56,188	57,031	4,962	61,992	45,350	22	53,516	7,863	60,776	61,688	5,367	67,055
203	175,537	17,788	16,819	210,144	185,729	25,930	209,394	212,535	18,491	231,025	175,537	85	203,469	25,930	227,146	230,553	20,058	250,611
204	0	0	0	0	0	0	0	0	0	0	0	0	125,840	8,909	133,426	135,427	11,782	147,209
205	0	0	0	0	0	0	0	0	0	0	0	0	80,704	5,723	85,578	86,862	7,557	94,419
206	102,860	3,066	9,216	115,141	106,210	8,730	113,710	115,416	10,041	125,457	102,860	50	116,605	8,730	124,104	125,966	10,959	136,925
207	0	0	0	0	0	59,000	58,369	59,244	5,154	64,398	0	0	0	59,000	58,421	59,297	5,159	64,456
208	0	33,062	2,876	35,938	0	33,475	33,116	33,613	2,924	36,537	0	0	0	33,475	33,146	33,643	2,927	36,570
209	35,944	6,284	3,674	45,902	35,944	6,284	41,776	42,403	3,689	46,092	35,944	17	39,577	6,284	45,410	46,092	4,010	50,101
210	0	39,109	3,403	42,512	0	39,935	39,508	40,101	3,489	43,589	0	0	0	39,935	39,543	40,136	3,492	43,628
211	32,029	6,542	3,356	41,926	32,445	6,778	38,803	39,385	3,426	42,811	32,029	16	35,681	6,778	42,042	42,673	3,713	46,386
212	131,532	13,597	12,626	157,756	134,236	14,954	147,594	149,808	13,033	162,841	131,532	64	147,529	14,954	160,887	163,301	14,207	177,508
213	72,996	44,250	10,200	127,447	73,819	51,389	123,868	125,726	10,938	136,664	72,996	35	81,205	51,389	131,292	133,262	11,594	144,855
214	225,848	15,672	21,012	262,532	228,677	17,501	243,544	247,197	21,506	268,703	225,848	110	251,584	17,501	266,443	270,439	23,528	293,967
215	149,242	807	13,054	163,104	149,866	866	149,119	151,356	13,168	164,524	0	0	149,866	866	149,252	151,491	13,180	164,671
216	148,443	60,207	18,153	226,803	157,387	62,508	217,542	220,805	19,210	240,015	148,443	72	172,388	62,508	232,590	236,079	20,539	256,618
217	87,773	619	7,690	96,082	87,773	619	87,445	88,757	7,722	96,479	0	0	87,773	619	87,524	88,836	7,729	96,565
218	61,277	17,606	6,863	85,745	65,437	17,783	82,329	83,564	7,270	90,834	61,277	30	71,629	17,783	88,534	89,862	7,818	97,680
219	105,757	6,595	9,775	122,127	105,965	6,595	111,355	113,026	9,833	122,859	105,757	51	116,653	6,595	122,038	123,868	10,777	134,645
220	0	0	0	0	14,836	0	14,677	14,898	1,296	16,194	0	0	14,836	0	14,690	14,911	1,297	16,208

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
221	221,112	12,927	20,361	254,400	222,984	13,694	234,145	237,657	20,676	258,333	221,112	107	245,329	13,694	256,479	260,327	22,648	282,975
222	0	0	0	0	0	0	0	0	0	0	0	0	109,616	7,788	116,251	117,995	10,266	128,260
223	0	0	0	0	0	0	0	0	0	0	0	0	107,328	7,611	113,810	115,517	10,050	125,567
224	0	0	0	0	0	0	0	0	0	0	0	0	139,776	9,912	148,218	150,441	13,088	163,530
225	78,797	27,198	9,222	115,216	78,937	28,319	106,108	107,700	9,370	117,070	78,797	38	86,968	28,319	114,155	115,867	10,080	125,948
226	214,190	4,589	19,034	237,813	214,814	5,533	217,989	221,258	19,249	240,508	0	0	214,814	5,533	218,183	221,456	19,267	240,723
227	0	696	61	756	322	11,611	11,805	11,982	1,042	13,024	0	0	322	11,611	11,815	11,992	1,043	13,036
228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230	79,852	184	6,963	86,998	85,260	5,435	89,724	91,070	7,923	98,993	0	0	85,260	5,435	89,804	91,151	7,930	99,081
231	89,359	2,190	7,965	99,514	89,775	2,308	91,097	92,464	8,044	100,508	0	0	89,775	2,308	91,179	92,546	8,052	100,598
232	87,305	38,915	10,981	137,201	88,345	44,343	131,268	133,237	11,592	144,828	87,305	42	97,168	44,343	140,121	142,223	12,373	154,596
233	140,702	285	12,266	153,252	140,702	285	139,478	141,570	12,317	153,886	140,702	68	154,921	285	153,682	155,987	13,571	169,558
234	277,828	35,745	27,281	340,854	284,484	36,925	317,970	322,739	28,078	350,817	277,828	135	312,561	36,925	346,055	351,245	30,558	381,804
235	88,785	19,332	9,406	117,523	88,993	19,568	107,399	109,010	9,484	118,494	88,785	43	97,965	19,568	116,379	118,125	10,277	128,402
236	47,474	14,817	5,419	67,709	56,210	36,293	91,512	92,885	8,081	100,966	47,474	23	61,007	36,293	96,344	97,789	8,508	106,297
237	5,007	59,046	5,573	69,626	8,127	70,138	77,427	78,589	6,837	85,426	5,007	2	8,633	70,138	77,998	79,168	6,888	86,055
238	0	0	0	0	0	59,000	58,369	59,244	5,154	64,398	0	0	0	59,000	58,421	59,297	5,159	64,456
239	0	1,560	136	1,696	1,559	105,046	105,464	107,046	9,313	116,359	0	0	1,559	105,046	105,558	107,142	9,321	116,463
240	0	5,843	508	6,352	49,201	6,374	54,981	55,806	4,855	60,661	0	0	49,296	6,374	55,124	55,950	4,868	60,818
241	79,941	34,421	9,950	124,312	81,605	41,855	122,139	123,971	10,786	134,757	79,941	39	89,684	41,855	130,248	132,201	11,502	143,703
242	0	2,539	221	2,760	10,096	2,834	12,792	12,984	1,130	14,113	0	0	10,192	2,834	12,898	13,092	1,139	14,231
243	8,474	0	737	9,211	8,743	0	8,649	8,779	764	9,543	8,474	4	9,599	0	9,505	9,647	839	10,487
244	0	1,206	105	1,310	0	1,206	1,193	1,211	105	1,316	0	0	0	1,206	1,194	1,212	105	1,317
245	200,706	71,557	23,687	295,951	201,096	71,675	269,852	273,900	23,829	297,729	200,706	98	221,405	71,675	290,203	294,556	25,626	320,182
246	0	0	0	0	0	0	0	0	0	0	0	0	62,816	4,484	66,639	67,639	5,885	73,523
247	164,802	29,664	16,919	211,384	165,426	29,723	193,060	195,956	17,048	213,004	164,802	80	182,081	29,723	209,724	212,869	18,520	231,389
248	190,778	25,143	18,785	234,706	192,442	30,335	220,392	223,698	19,462	243,160	190,778	93	211,722	30,335	239,679	243,275	21,165	264,439

TAZ	2018 Consumption (GPD)				2045 Consumption (GPD)						2100 Consumption (GPD)							
	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
249	36,743	59,575	8,380	104,698	41,527	65,003	105,390	106,971	9,306	116,277	36,743	18	45,240	65,003	109,161	110,798	9,639	120,438
250	105,825	13,802	10,407	130,034	106,033	28,080	132,677	134,667	11,716	146,383	105,825	51	116,727	28,080	143,385	145,536	12,662	158,197
251	87,290	19,049	9,252	115,591	91,658	29,079	119,445	121,237	10,548	131,784	87,290	42	100,480	29,079	128,286	130,211	11,328	141,539
252	219,808	7,607	19,785	247,200	229,792	10,380	237,601	241,165	20,981	262,147	219,808	107	252,005	10,380	259,809	263,706	22,942	286,648
253	160,345	22,746	15,929	199,020	167,209	23,454	188,622	191,452	16,656	208,108	160,345	78	183,413	23,454	204,836	207,908	18,088	225,996
254	88,132	112,953	17,494	218,580	91,876	118,322	207,949	211,068	18,363	229,431	88,132	43	100,783	118,322	216,953	220,208	19,158	239,366
255	0	79,036	6,876	85,912	5,200	100,866	104,931	106,505	9,266	115,771	0	0	5,200	100,866	105,024	106,600	9,274	115,874
256	158,159	232,500	33,987	424,646	162,527	244,536	402,706	408,747	35,561	444,307	158,159	77	178,510	244,536	418,892	425,175	36,990	462,165
257	0	6,574	572	7,146	55,003	62,329	116,075	117,817	10,250	128,067	0	0	55,003	62,329	116,179	117,922	10,259	128,181
258	0	20,668	1,798	22,466	0	58,664	58,036	58,907	5,125	64,032	0	0	0	58,664	58,088	58,959	5,129	64,089
259	852	55,645	4,915	61,412	1,054	68,920	69,225	70,263	6,113	76,376	0	0	1,054	68,920	69,287	70,326	6,118	76,444
260	37,300	17,407	4,759	59,466	274,004	58,412	328,858	333,790	29,040	362,830	0	0	274,004	58,412	329,151	334,088	29,066	363,154
261	130,441	722	11,411	142,574	148,651	958	148,008	150,228	13,070	163,298	0	0	148,745	958	148,233	150,456	13,090	163,546
262	0	0	0	0	208	118	322	327	28	356	0	0	91,104	6,490	96,636	98,085	8,533	106,619
263	156,475	87,923	21,263	265,660	156,683	87,923	241,988	245,618	21,369	266,986	156,475	76	172,496	87,923	257,862	261,730	22,770	284,500
264	0	23,163	2,015	25,179	624	26,231	26,568	26,966	2,346	29,313	0	0	624	26,231	26,592	26,991	2,348	29,339
265	0	0	0	0	0	0	0	0	0	0	0	0	88,816	6,313	94,195	95,608	8,318	103,926
266	0	0	0	0	0	0	0	0	0	0	0	0	100,256	7,139	106,340	107,935	9,390	117,326
267	0	0	0	0	0	0	0	0	0	0	0	0	65,312	4,602	69,227	70,266	6,113	76,379
268	0	0	0	0	0	0	0	0	0	0	0	0	132,704	9,440	140,748	142,859	12,429	155,288
269	0	0	0	0	0	0	0	0	0	0	0	0	137,072	9,735	145,365	147,546	12,836	160,382
270	0	0	0	0	603	0	597	606	53	658	0	0	92,144	6,549	97,724	99,190	8,630	107,819
271	0	0	0	0	0	0	0	0	0	0	0	0	129,584	9,204	137,425	139,486	12,135	151,622
272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
273	0	27,728	2,412	30,140	2,268	31,209	33,119	33,616	2,925	36,540	0	0	2,288	31,209	33,168	33,665	2,929	36,594
274	97,984	7,773	9,201	114,958	109,424	17,095	125,165	127,043	11,053	138,095	97,984	48	119,326	17,095	135,082	137,108	11,928	149,036
275	110,621	13,291	10,780	134,692	111,453	13,350	123,467	125,319	10,903	136,222	110,621	54	122,633	13,350	134,647	136,666	11,890	148,556
276	105,052	14,778	10,425	130,255	106,978	15,014	120,686	122,496	10,657	133,154	105,052	51	117,594	15,014	131,306	133,276	11,595	144,870

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
277	258,821	62,448	27,950	349,219	260,069	63,923	320,524	325,332	28,304	353,636	258,821	126	286,225	63,923	346,710	351,910	30,616	382,527
278	80,365	49,262	11,278	140,905	87,021	63,009	148,424	150,651	13,107	163,757	80,365	39	95,143	63,009	156,599	158,948	13,828	172,776
279	102,548	38,327	12,256	153,131	107,956	45,053	151,371	153,642	13,367	167,009	102,548	50	118,320	45,053	161,768	164,195	14,285	178,479
280	142,516	9,488	13,224	165,228	142,932	21,878	163,046	165,492	14,398	179,889	0	0	142,932	21,878	163,191	165,639	14,411	180,050
281	0	127,236	11,070	138,305	33,488	190,012	221,108	224,424	19,525	243,949	0	0	33,488	190,012	221,305	224,625	19,542	244,167
282	198,248	79,122	24,131	301,501	203,448	81,482	281,881	286,109	24,891	311,000	198,248	96	223,483	81,482	301,970	306,500	26,665	333,165
283	0	243,135	21,153	264,287	0	243,135	240,532	244,140	21,240	265,381	0	0	0	243,135	240,747	244,358	21,259	265,618
284	240,778	38,332	24,283	303,392	241,836	38,391	277,228	281,387	24,481	305,868	240,778	117	266,169	38,391	301,570	306,093	26,630	332,723
285	139,127	19,682	13,816	172,625	184,887	41,984	224,442	227,809	19,819	247,628	139,127	68	198,947	41,984	238,564	242,143	21,066	263,209
286	90,108	11,430	8,834	110,372	94,268	13,672	106,785	108,387	9,430	117,816	90,108	44	103,374	13,672	115,897	117,635	10,234	127,870
287	276,086	97,247	32,480	405,813	314,150	120,021	429,525	435,967	37,929	473,897	276,086	134	342,051	120,021	457,535	464,398	40,403	504,800
288	43,493	37,343	7,033	87,869	44,109	37,343	80,580	81,789	7,116	88,905	43,493	21	48,513	37,343	85,013	86,288	7,507	93,795
289	67,766	5,310	6,358	79,434	67,974	7,139	74,310	75,424	6,562	81,986	67,766	33	74,823	7,139	81,157	82,375	7,167	89,541
290	83,560	46,568	11,321	141,449	83,560	46,568	128,735	130,666	11,368	142,034	83,560	41	92,005	46,568	137,212	139,270	12,116	151,386
291	102,845	26,537	11,256	140,638	112,413	29,841	140,731	142,842	12,427	155,269	102,845	50	122,806	29,841	151,148	153,415	13,347	166,762
292	99,507	39,661	12,108	151,276	99,507	40,015	138,029	140,099	12,189	152,288	99,507	48	109,563	40,015	148,109	150,331	13,079	163,410
293	107,892	28,692	11,883	148,467	110,804	44,799	153,938	156,247	13,593	169,840	107,892	52	121,708	44,799	164,871	167,344	14,559	181,903
294	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295	0	0	0	0	3	0	3	3	0	4	0	0	3	0	3	3	0	4
296	0	0	0	0	4	0	4	4	0	4	0	0	4	0	4	4	0	4
297	0	0	0	0	0	0	0	0	0	0	0	0	49,296	3,481	52,259	53,043	4,615	57,657
298	0	0	0	0	0	0	0	0	0	0	0	0	45,968	3,245	48,730	49,461	4,303	53,764
299	0	0	0	0	0	0	0	0	0	0	0	0	103,168	7,316	109,399	111,040	9,660	120,701
300	0	0	0	0	0	0	0	0	0	0	0	0	52,832	3,776	56,052	56,893	4,950	61,843
301	0	7,266	632	7,898	0	82,786	81,900	83,128	7,232	90,361	0	0	0	82,786	81,973	83,203	7,239	90,441
302	40,999	16,424	4,996	62,420	53,687	55,128	107,651	109,266	9,506	118,772	40,999	20	57,831	55,128	111,850	113,528	9,877	123,405
303	67,613	208,691	24,038	300,342	67,613	312,118	375,667	381,302	33,173	414,475	67,613	33	74,446	312,118	382,768	388,509	33,800	422,309
304	181,324	22,032	17,692	221,048	205,660	30,469	233,602	237,106	20,628	257,734	181,324	88	223,984	30,469	251,955	255,734	22,249	277,983

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
305	75,141	62,109	11,941	149,190	88,661	70,369	157,328	159,687	13,893	173,580	75,141	37	96,254	70,369	164,987	167,462	14,569	182,031
306	86,643	37,464	10,797	134,904	101,426	38,526	138,454	140,531	12,226	152,757	86,643	42	110,182	38,526	147,247	149,456	13,003	162,459
307	111,422	22,048	11,612	145,082	120,990	23,051	142,499	144,637	12,583	157,220	111,422	54	132,250	23,051	153,776	156,083	13,579	169,662
308	14,236	20,477	3,020	37,733	14,652	20,595	34,870	35,393	3,079	38,472	14,236	7	16,090	20,595	36,325	36,870	3,208	40,078
309	59,879	5,529	5,690	71,098	60,919	5,588	65,795	66,782	5,810	72,592	59,879	29	66,970	5,588	71,846	72,923	6,344	79,268
310	0	155,249	13,507	168,756	14,144	174,365	186,491	189,289	16,468	205,757	0	0	14,144	174,365	186,658	189,458	16,483	205,941
311	148,578	98,368	21,484	268,430	175,894	122,735	295,433	299,864	26,088	325,952	0	0	175,894	122,735	295,696	300,132	26,111	326,243
312	154,433	29,383	15,992	199,809	159,425	31,153	188,539	191,367	16,649	208,016	154,433	75	175,032	31,153	204,161	207,223	18,028	225,251
313	43,266	7,654	4,430	55,350	45,762	8,480	53,661	54,466	4,739	59,204	43,266	21	50,134	8,480	58,038	58,909	5,125	64,034
314	80,479	26,602	9,316	116,396	90,347	27,605	116,689	118,439	10,304	128,743	80,479	39	98,480	27,605	124,846	126,719	11,025	137,743
315	198,432	8,734	18,023	225,189	199,472	19,885	217,009	220,264	19,163	239,427	0	0	199,472	19,885	217,203	220,461	19,180	239,641
316	64,596	1,637	5,762	71,996	89,325	3,407	91,739	93,116	8,101	101,217	0	0	89,348	3,407	91,845	93,222	8,110	101,333
317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
318	84,023	32,779	10,162	126,963	93,591	38,974	131,146	133,113	11,581	144,694	84,023	41	102,082	38,974	139,671	141,766	12,334	154,099
319	164,605	33,219	17,211	215,035	170,845	34,399	203,048	206,093	17,930	224,024	164,605	80	187,480	34,399	219,700	222,996	19,401	242,397
320	72,805	18,832	7,972	99,609	73,637	18,891	91,537	92,910	8,083	100,993	72,805	35	80,994	18,891	98,904	100,388	8,734	109,121
321	11,580	92,152	9,025	112,757	11,580	92,152	102,622	104,161	9,062	113,223	11,580	6	12,750	92,152	103,872	105,430	9,172	114,603
322	45,516	27,067	6,315	78,898	49,844	27,834	76,846	77,999	6,786	84,785	45,516	22	54,484	27,834	81,510	82,733	7,198	89,930
323	38,489	13,627	4,534	56,651	39,321	16,754	55,475	56,307	4,899	61,206	38,489	19	43,211	16,754	59,376	60,267	5,243	65,510
324	96,150	18,210	9,949	124,309	96,358	146,122	239,884	243,483	21,183	264,666	96,150	47	106,074	146,122	249,720	253,465	22,051	275,517
325	42,163	41,019	7,237	90,418	55,475	43,910	98,321	99,796	8,682	108,478	42,163	20	59,736	43,910	102,628	104,167	9,063	113,230
326	67,774	1,147	5,996	74,916	71,236	1,265	71,725	72,801	6,334	79,134	67,774	33	78,159	1,265	78,643	79,823	6,945	86,768
327	84,738	34,579	10,381	129,698	111,362	37,175	146,947	149,152	12,976	162,128	84,738	41	119,926	37,175	155,558	157,891	13,737	171,628
328	69,679	40,461	9,582	119,722	74,879	41,759	115,389	117,120	10,189	127,309	69,679	34	81,920	41,759	122,464	124,301	10,814	135,116
329	61,127	46,404	9,355	116,885	61,293	46,876	107,010	108,616	9,450	118,065	61,127	30	67,512	46,876	113,264	114,963	10,002	124,965
330	0	143	12	156	0	143	142	144	13	157	0	0	87,984	6,397	93,455	94,856	8,253	103,109
331	0	0	0	0	0	0	0	0	0	0	0	0	46,176	3,304	48,994	49,729	4,326	54,055
332	0	0	0	0	0	0	0	0	0	0	0	0	42,640	3,009	45,201	45,879	3,991	49,870

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
333	0	0	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1
334	0	0	0	0	0	0	0	0	0	0	0	0	43,680	3,127	46,347	47,043	4,093	51,135
335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
336	0	0	0	0	0	0	0	0	0	0	0	0	47,840	3,422	50,759	51,520	4,482	56,002
337	81,796	42,730	10,834	135,360	81,796	42,730	123,194	125,042	10,879	135,920	81,796	40	90,062	42,730	131,489	133,461	11,611	145,072
338	89,461	40,877	11,339	141,678	89,877	41,290	129,763	131,710	11,459	143,169	89,461	43	98,918	41,290	138,831	140,914	12,259	153,173
339	101,910	63,357	14,378	179,644	119,798	64,478	182,303	185,037	16,098	201,136	101,910	50	130,096	64,478	192,663	195,553	17,013	212,566
340	77,140	1,933	6,879	85,952	77,140	1,933	78,227	79,400	6,908	86,308	77,140	37	84,936	1,933	86,016	87,306	7,596	94,902
341	84,208	19,253	9,001	112,462	84,831	19,253	102,970	104,514	9,093	113,607	84,208	41	93,342	19,253	111,489	113,162	9,845	123,007
342	96,509	20,388	10,170	127,067	101,085	22,689	122,449	124,286	10,813	135,099	96,509	47	110,838	22,689	132,216	134,199	11,675	145,875
343	81,250	11,907	8,105	101,262	81,458	11,907	92,366	93,752	8,156	101,908	81,250	39	89,669	11,907	100,579	102,088	8,882	110,969
344	117,295	23,436	12,244	152,975	124,120	23,967	146,503	148,700	12,937	161,637	117,295	57	136,012	23,967	158,409	160,785	13,988	174,773
345	119,605	22,982	12,405	154,991	157,253	26,699	181,983	184,712	16,070	200,782	119,605	58	169,340	26,699	194,113	197,025	17,141	214,166
346	151,932	33,683	16,149	201,764	157,964	36,220	192,106	194,988	16,964	211,952	151,932	74	173,319	36,220	207,481	210,593	18,322	228,915
347	63,641	7,128	6,157	76,927	68,841	8,780	76,791	77,943	6,781	84,724	63,641	31	75,273	8,780	83,228	84,476	7,349	91,825
348	578	25,140	2,238	27,956	578	42,604	42,721	43,361	3,772	47,134	578	0	637	42,604	42,817	43,459	3,781	47,240
350	0	0	0	0	7	0	7	7	1	8	0	0	7	0	7	7	1	8
351	8,289	1,006	809	10,103	8,289	1,773	9,954	10,103	879	10,982	0	0	8,289	1,773	9,962	10,112	880	10,992
352	98,023	39,248	11,943	149,213	99,447	41,372	139,312	141,401	12,302	153,703	98,023	48	109,385	41,372	149,276	151,515	13,182	164,697
353	0	49,254	4,285	53,539	7,075	53,915	60,337	61,242	5,328	66,570	0	0	7,075	53,915	60,391	61,297	5,333	66,630
354	71,378	5,314	6,672	83,364	71,378	5,314	75,871	77,009	6,700	83,709	71,378	35	78,592	5,314	83,081	84,328	7,337	91,664
355	58,977	42,357	8,816	110,150	123,873	59,703	181,611	184,335	16,037	200,373	58,977	29	129,833	59,703	187,675	190,490	16,573	207,063
356	87,941	48,778	11,895	148,613	88,149	48,778	135,461	137,493	11,962	149,455	87,941	43	97,036	48,778	144,382	146,548	12,750	159,297
357	191,364	66,262	22,414	280,040	195,316	68,917	261,405	265,326	23,083	288,410	191,364	93	214,655	68,917	280,788	285,000	24,795	309,795
358	94,465	25,706	10,455	130,626	95,505	28,007	122,190	124,023	10,790	134,813	94,465	46	105,051	28,007	131,752	133,728	11,634	145,362
359	85,066	26,879	9,739	121,685	85,066	38,207	121,954	123,783	10,769	134,552	85,066	41	93,663	38,207	130,575	132,534	11,530	144,064
360	453	276	63	793	453	25,174	25,353	25,733	2,239	27,972	0	0	453	25,174	25,375	25,756	2,241	27,997
361	114,092	11,062	10,888	136,042	155,900	13,894	167,977	170,496	14,833	185,330	114,092	55	167,430	13,894	179,543	182,237	15,855	198,091

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
362	167,184	27,577	16,944	211,705	170,096	29,583	197,542	200,505	17,444	217,949	167,184	81	186,991	29,583	214,448	217,665	18,937	236,601
363	170,642	4,617	15,248	190,507	199,970	27,863	225,395	228,776	19,904	248,679	170,642	83	217,215	27,863	242,672	246,312	21,429	267,741
364	0	0	0	0	0	0	0	0	0	0	0	0	47,840	3,422	50,759	51,520	4,482	56,002
365	0	0	0	0	0	0	0	0	0	0	0	0	44,304	3,127	46,965	47,670	4,147	51,817
366	0	0	0	0	0	0	0	0	0	0	0	0	45,968	3,245	48,730	49,461	4,303	53,764
367	0	0	0	0	0	0	0	0	0	0	0	0	48,672	3,481	51,641	52,415	4,560	56,976
368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
369	127,505	19,691	12,806	160,001	127,708	19,868	145,996	148,186	12,892	161,078	127,505	62	140,598	19,868	158,890	161,273	14,031	175,304
370	4	42,073	3,661	45,738	4	43,607	43,145	43,792	3,810	47,602	4	0	5	43,607	43,183	43,831	3,813	47,645
371	97,256	17,482	9,982	124,721	151,960	21,140	171,248	173,817	15,122	188,939	97,256	47	161,789	21,140	181,133	183,850	15,995	199,845
372	43,528	6,639	4,365	54,532	44,360	6,934	50,745	51,506	4,481	55,987	43,528	21	48,759	6,934	55,146	55,973	4,870	60,843
373	136,907	15,521	13,261	165,689	138,571	16,052	152,968	155,262	13,508	168,770	136,907	67	152,407	16,052	166,804	169,306	14,730	184,036
374	85,231	9,069	8,204	102,503	97,711	14,202	110,715	112,375	9,777	122,152	85,231	41	106,324	14,202	119,342	121,132	10,539	131,671
375	14,908	39,336	4,719	58,964	16,060	46,121	61,515	62,438	5,432	67,870	14,908	7	17,663	46,121	63,158	64,105	5,577	69,682
376	15,333	6,528	1,902	23,763	16,581	7,413	23,737	24,094	2,096	26,190	15,333	7	18,131	7,413	25,293	25,672	2,233	27,906
377	171,087	29,151	17,421	217,659	186,687	31,747	216,096	219,338	19,082	238,420	171,087	83	203,977	31,747	233,409	236,910	20,611	257,522
378	0	20,077	1,747	21,824	0	41,022	40,583	41,192	3,584	44,776	0	0	0	41,022	40,619	41,229	3,587	44,816
379	80,781	22,168	8,957	111,906	80,781	29,720	109,319	110,959	9,653	120,612	0	0	80,781	29,720	109,416	111,058	9,662	120,720
380	0	161,010	14,008	175,018	0	170,922	169,093	171,629	14,932	186,561	0	0	0	170,922	169,244	171,783	14,945	186,728
381	9,178	11,184	1,772	22,134	10,584	13,249	23,578	23,932	2,082	26,014	9,178	4	11,562	13,249	24,568	24,936	2,169	27,106
382	0	47,168	4,104	51,272	0	50,590	50,049	50,800	4,420	55,219	0	0	0	50,590	50,094	50,845	4,424	55,268
383	119,378	23,797	12,456	155,631	122,858	24,859	146,136	148,329	12,905	161,233	0	0	122,914	24,859	146,322	148,517	12,921	161,438
384	100,005	7,107	9,319	116,430	101,669	7,579	108,078	109,700	9,544	119,243	100,005	49	111,775	7,579	118,182	119,955	10,436	130,391
385	0	4,911	427	5,338	0	4,911	4,858	4,931	429	5,360	0	0	0	4,911	4,862	4,935	429	5,365
386	641	31,548	2,800	34,990	641	35,501	35,756	36,292	3,157	39,449	641	0	706	35,501	35,852	36,390	3,166	39,555
387	0	82,897	7,212	90,109	158,912	204,496	359,518	364,911	31,747	396,658	0	0	158,912	204,496	359,839	365,237	31,776	397,012
388	22,736	10,892	2,926	36,554	32,814	14,786	47,090	47,797	4,158	51,955	22,736	11	35,111	14,786	49,408	50,149	4,363	54,512
389	0	62,122	5,405	67,526	0	88,259	87,314	88,624	7,710	96,334	0	0	0	88,259	87,392	88,703	7,717	96,420

TAZ	2018 Consumption (GPD)				2045 Consumption (GPD)						2100 Consumption (GPD)							
	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
390	0	59,485	5,175	64,660	0	62,494	61,825	62,752	5,459	68,212	0	0	0	62,494	61,880	62,808	5,464	68,273
391	146,880	9,645	13,618	170,143	146,880	10,471	155,667	158,002	13,746	171,748	146,880	71	161,723	10,471	170,503	173,061	15,056	188,117
392	87,806	17,626	9,173	114,605	87,806	18,039	104,712	106,283	9,247	115,529	87,806	43	96,680	18,039	113,592	115,296	10,031	125,327
393	1,309	72,831	6,450	80,590	1,309	144,516	144,264	146,428	12,739	159,167	1,309	1	1,441	144,516	144,524	146,691	12,762	159,454
394	0	56,349	4,902	61,252	0	61,423	60,766	61,677	5,366	67,043	0	0	0	61,423	60,820	61,733	5,371	67,103
395	51,623	4,993	4,926	61,542	52,663	5,111	57,156	58,013	5,047	63,060	51,623	25	57,880	5,111	62,373	63,308	5,508	68,816
396	0	110,679	9,629	120,308	0	110,679	109,494	111,137	9,669	120,805	0	0	0	110,679	109,592	111,236	9,678	120,913
397	150,356	11,678	14,097	176,131	150,772	11,678	160,711	163,122	14,192	177,314	150,356	73	165,967	11,678	175,900	178,539	15,533	194,072
398	153,300	28,752	15,839	197,891	154,340	28,870	181,249	183,968	16,005	199,973	153,300	74	169,833	28,870	196,751	199,702	17,374	217,076
399	124,935	5,561	11,353	141,850	128,678	10,340	137,530	139,593	12,145	151,738	124,935	61	141,305	10,340	150,156	152,408	13,260	165,668
400	173,193	31,834	17,837	222,865	221,865	44,873	263,884	267,842	23,302	291,144	173,193	84	239,368	44,873	281,450	285,672	24,853	310,525
401	161,176	29,975	16,630	207,781	186,136	31,981	215,782	219,019	19,055	238,074	161,176	78	202,424	31,981	232,103	235,585	20,496	256,080
402	0	0	0	0	0	0	0	0	0	0	0	0	99,424	7,080	105,458	107,040	9,312	116,352
403	200,784	19,172	19,136	239,092	217,008	28,081	242,466	246,103	21,411	267,514	200,784	98	237,299	28,081	262,774	266,716	23,204	289,920
404	148,960	59,511	18,137	226,607	159,776	62,874	220,267	223,571	19,451	243,021	148,960	72	174,829	62,874	235,369	238,899	20,784	259,684
405	209,798	28,948	20,771	259,517	221,739	32,311	251,331	255,101	22,194	277,294	209,798	102	242,940	32,311	272,549	276,637	24,067	300,704
406	0	0	0	0	0	0	0	0	0	0	0	0	105,664	7,493	112,046	113,726	9,894	123,621
407	0	0	0	0	0	0	0	0	0	0	0	0	82,368	5,841	87,343	88,653	7,713	96,366
408	75,429	12,202	7,624	95,255	75,845	12,497	87,396	88,707	7,718	96,425	75,429	37	83,468	12,497	95,022	96,447	8,391	104,838
409	0	0	0	0	0	0	0	0	0	0	0	0	47,632	3,363	50,494	51,252	4,459	55,711
410	0	0	0	0	0	0	0	0	0	0	0	0	44,512	3,186	47,230	47,938	4,171	52,109
411	0	0	0	0	0	0	0	0	0	0	0	0	46,384	3,245	49,142	49,879	4,339	54,218
412	0	0	0	0	0	0	0	0	0	0	0	0	48,464	3,481	51,435	52,206	4,542	56,748
413	385	2,273	231	2,890	385	2,273	2,630	2,669	232	2,901	0	0	385	2,273	2,632	2,672	232	2,904
414	34,182	4,981	3,407	42,570	39,798	9,465	48,735	49,466	4,304	53,770	34,182	17	43,252	9,465	52,199	52,982	4,609	57,592
415	0	230,953	20,093	251,046	0	240,275	237,704	241,269	20,990	262,260	0	0	0	240,275	237,916	241,485	21,009	262,494
416	4,003	31,613	3,099	38,715	4,835	39,873	44,230	44,893	3,906	48,799	4,003	2	5,240	39,873	44,670	45,340	3,945	49,285
417	0	39,683	3,452	43,136	21,424	53,607	74,228	75,342	6,555	81,896	0	0	21,424	53,607	74,294	75,409	6,561	81,969

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
418	193,037	754	16,860	210,651	195,117	6,654	199,612	202,606	17,627	220,233	193,037	94	214,625	6,654	219,107	222,393	19,348	241,741
419	101,843	10,169	9,745	121,757	102,051	10,169	111,019	112,684	9,804	122,487	101,843	49	112,343	10,169	121,309	123,128	10,712	133,841
420	88,241	29,195	10,217	127,653	111,329	36,393	146,141	148,333	12,905	161,238	88,241	43	120,247	36,393	155,101	157,428	13,696	171,124
421	73,489	5,583	6,879	85,951	73,689	6,291	79,124	80,311	6,987	87,298	73,489	36	81,123	6,291	86,556	87,854	7,643	95,498
422	104,256	11,777	10,095	126,127	104,672	14,491	117,887	119,655	10,410	130,066	104,256	51	115,208	14,491	128,425	130,351	11,341	141,692
423	90,786	14,987	9,202	114,975	105,138	19,884	123,684	125,539	10,922	136,461	90,786	44	114,313	19,884	132,879	134,872	11,734	146,606
424	158,620	6,096	14,330	179,046	159,451	6,214	163,892	166,351	14,473	180,823	158,620	77	175,481	6,214	179,911	182,610	15,887	198,497
425	121,466	17,300	12,073	150,839	134,778	21,607	154,711	157,032	13,662	170,694	121,466	59	147,053	21,607	167,004	169,509	14,747	184,256
426	92,955	14,580	9,356	116,890	93,579	14,580	107,001	108,606	9,449	118,055	92,955	45	102,973	14,580	116,398	118,144	10,279	128,423
427	112,584	13,046	10,930	136,560	113,416	13,223	125,284	127,163	11,063	138,227	112,584	55	124,794	13,223	136,662	138,712	12,068	150,780
428	117,064	32,878	13,045	162,987	118,936	33,232	150,539	152,797	13,293	166,091	117,064	57	130,766	33,232	162,388	164,824	14,340	179,163
429	42,362	6,555	4,256	53,173	47,354	13,163	59,869	60,768	5,287	66,054	42,362	21	51,635	13,163	64,162	65,124	5,666	70,790
430	0	30,763	2,676	33,439	0	31,058	30,725	31,186	2,713	33,899	0	0	0	31,058	30,753	31,214	2,716	33,930
431	55,344	1,255	4,924	61,522	55,552	1,255	56,198	57,041	4,963	62,004	55,344	27	61,145	1,255	61,787	62,713	5,456	68,169
432	132,934	2,386	11,773	147,094	134,390	3,271	136,188	138,231	12,026	150,257	132,934	65	147,824	3,271	149,612	151,856	13,211	165,068
433	90,515	17,167	9,368	117,051	93,219	20,471	112,473	114,160	9,932	124,092	90,515	44	102,366	20,471	121,631	123,456	10,741	134,196
434	107,971	56,235	14,286	178,491	107,971	56,235	162,448	164,885	14,345	179,230	107,971	52	118,882	56,235	173,397	175,998	15,312	191,310
435	116	27,727	2,422	30,265	42,964	32,742	74,896	76,019	6,614	82,633	116	0	42,975	32,742	74,974	76,099	6,621	82,719
436	578	49,196	4,330	54,104	10,770	52,087	62,184	63,116	5,491	68,607	578	0	10,828	52,087	62,297	63,231	5,501	68,732
437	116,871	0	10,168	127,039	116,871	0	115,620	117,354	10,210	127,564	116,871	57	128,682	0	127,418	129,329	11,252	140,581
438	111,564	4,681	10,113	126,358	113,228	4,740	116,705	118,456	10,306	128,761	111,564	54	124,503	4,740	127,973	129,893	11,301	141,193
439	0	2,487	216	2,704	0	2,487	2,461	2,498	217	2,715	0	0	0	2,487	2,463	2,500	217	2,717
440	62,912	21,717	7,363	91,992	66,240	23,900	89,175	90,513	7,875	98,388	62,912	31	72,598	23,900	95,550	96,983	8,438	105,421
441	66,995	31,112	8,535	106,642	89,291	49,697	137,500	139,563	12,142	151,705	66,995	33	96,061	49,697	144,327	146,492	12,745	159,237
442	100,933	54,739	13,543	169,216	112,165	58,810	169,145	171,682	14,936	186,619	100,933	49	122,365	58,810	179,396	182,087	15,842	197,929
443	162,248	38,618	17,475	218,341	162,828	40,447	201,099	204,116	17,758	221,874	162,248	79	179,268	40,447	217,557	220,820	19,211	240,032
444	231,334	9,062	20,914	261,311	250,768	10,124	258,100	261,972	22,792	284,763	231,334	112	274,146	10,124	281,479	285,701	24,856	310,557
445	105,717	19,348	10,881	135,946	116,741	24,068	139,302	141,392	12,301	153,693	105,717	51	127,425	24,068	150,005	152,255	13,246	165,501

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
446	110,959	17,365	11,164	139,488	123,647	22,734	144,814	146,986	12,788	159,774	110,959	54	134,860	22,734	156,046	158,387	13,780	172,166
447	120,460	26,980	12,827	160,267	124,620	39,901	162,760	165,202	14,373	179,574	120,460	59	136,794	39,901	174,959	177,584	15,450	193,034
448	145,600	25,645	14,898	186,144	152,880	26,058	177,023	179,679	15,632	195,311	145,600	71	167,595	26,058	191,751	194,627	16,933	211,560
449	88,079	63,781	13,212	165,071	96,815	66,849	161,912	164,341	14,298	178,638	88,079	43	105,716	66,849	170,870	173,433	15,089	188,522
450	115,162	17,461	11,538	144,161	122,026	21,768	142,255	144,389	12,562	156,951	115,162	56	133,664	21,768	153,906	156,215	13,591	169,805
451	18,045	10,890	2,517	31,453	84,119	85,289	167,595	170,109	14,799	184,908	18,045	9	86,013	85,289	169,620	172,164	14,978	187,142
452	0	49,742	4,328	54,070	4,160	50,273	53,851	54,658	4,755	59,414	0	0	4,160	50,273	53,899	54,707	4,760	59,467
453	554	175,260	15,296	191,110	1,594	471,558	468,088	475,109	41,335	516,444	554	0	1,650	471,558	468,561	475,590	41,376	516,966
454	108,069	15,929	10,788	134,786	115,349	21,357	135,243	137,272	11,943	149,215	108,069	53	126,270	21,357	146,178	148,371	12,908	161,279
455	0	27,576	2,399	29,976	0	27,576	27,281	27,690	2,409	30,100	0	0	0	27,576	27,306	27,715	2,411	30,126
456	82,836	1,742	7,358	91,937	84,500	12,126	95,592	97,026	8,441	105,468	82,836	40	92,872	12,126	103,967	105,526	9,181	114,707
457	45,159	1,526	4,062	50,747	54,935	1,998	56,324	57,169	4,974	62,143	45,159	22	59,499	1,998	60,893	61,807	5,377	67,184
458	7,857	5,168	1,133	14,159	39,265	16,142	54,814	55,637	4,840	60,477	7,857	4	40,059	16,142	55,649	56,484	4,914	61,398
459	49,672	17,532	5,847	73,051	52,584	20,836	72,635	73,724	6,414	80,138	49,672	24	57,604	20,836	77,670	78,835	6,859	85,694
460	194,704	30,959	19,633	245,296	196,142	31,077	224,787	228,159	19,850	248,009	194,704	95	215,837	31,077	244,489	248,157	21,590	269,746
461	15,685	3,978	1,711	21,373	117,605	10,704	126,935	128,839	11,209	140,048	15,685	8	119,190	10,704	128,618	130,547	11,358	141,905
462	156,410	50,359	17,989	224,758	184,906	59,740	242,028	245,658	21,372	267,031	156,410	76	200,713	59,740	257,895	261,764	22,773	284,537
463	30,639	7,781	3,342	41,762	31,048	7,781	38,414	38,990	3,392	42,382	30,639	15	34,151	7,781	41,520	42,143	3,666	45,809
464	69,925	40,264	9,586	119,775	79,701	43,273	121,658	123,483	10,743	134,226	69,925	34	86,767	43,273	128,764	130,695	11,370	142,065
465	129,393	19,362	12,942	161,697	132,929	19,598	150,895	153,158	13,325	166,483	129,393	63	146,005	19,598	163,977	166,437	14,480	180,917
466	94,677	6,133	8,770	109,580	103,413	16,753	118,879	120,662	10,498	131,160	94,677	46	112,981	16,753	128,459	130,386	11,344	141,730
467	114,409	11,854	10,985	137,248	114,617	11,854	125,118	126,994	11,049	138,043	114,409	56	126,180	11,854	136,678	138,728	12,069	150,797
468	146,228	512	12,766	159,506	156,628	7,828	162,696	165,136	14,367	179,503	146,228	71	171,405	7,828	177,473	180,135	15,672	195,807
469	47,002	10,966	5,043	63,011	52,618	11,261	63,195	64,143	5,580	69,723	47,002	23	57,368	11,261	67,954	68,974	6,001	74,975
470	75,533	8,531	7,314	91,378	102,781	11,658	113,215	114,913	9,997	124,910	75,533	37	110,415	11,658	120,874	122,687	10,674	133,361
471	222,211	20,033	21,075	263,320	234,691	22,688	254,625	258,444	22,485	280,929	222,211	108	257,147	22,688	277,088	281,244	24,468	305,712
472	121,378	9,398	11,378	142,154	121,586	11,994	132,151	134,133	11,670	145,803	121,378	59	133,852	11,994	144,415	146,581	12,753	159,333
473	0	84,211	7,326	91,538	16,432	98,076	113,283	114,982	10,003	124,986	0	0	16,432	98,076	113,384	115,085	10,012	125,097

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
474	0	29,997	2,610	32,606	24,336	32,711	56,436	57,283	4,984	62,266	0	0	24,336	32,711	56,487	57,334	4,988	62,322
475	0	86,948	7,565	94,513	15,184	96,388	110,378	112,034	9,747	121,781	0	0	15,184	96,388	110,477	112,134	9,756	121,890
476	0	10,776	937	11,713	113,568	227,070	336,992	342,047	29,758	371,805	0	0	113,568	227,070	337,293	342,352	29,785	372,137
477	13,395	24,883	3,330	41,607	15,249	24,942	39,760	40,357	3,511	43,868	0	0	15,267	24,942	39,813	40,411	3,516	43,926
478	369	3,811	364	4,543	369	152,609	151,340	153,610	13,364	166,974	0	0	369	152,609	151,475	153,747	13,376	167,124
479	0	262,680	22,853	285,533	0	324,335	320,864	325,676	28,334	354,010	0	0	0	324,335	321,150	325,967	28,359	354,326
480	5,234	23,096	2,465	30,795	7,106	35,781	42,428	43,065	3,747	46,811	5,234	3	7,635	35,781	42,990	43,635	3,796	47,431
481	100,439	21,302	10,591	132,333	112,711	23,013	134,272	136,286	11,857	148,142	100,439	49	122,861	23,013	144,442	146,608	12,755	159,363
482	102,999	20,812	10,772	134,583	113,607	26,653	138,759	140,841	12,253	153,094	102,999	50	124,016	26,653	149,190	151,428	13,174	164,602
483	108,339	33,165	12,311	153,815	140,163	43,136	181,337	184,057	16,013	200,070	108,339	53	151,112	43,136	192,340	195,225	16,985	212,210
484	171,844	13,678	16,140	201,662	172,260	23,236	193,403	196,304	17,078	213,383	171,844	83	189,626	23,236	210,772	213,933	18,612	232,545
485	114,563	41,860	13,609	170,032	118,723	42,863	159,856	162,254	14,116	176,370	114,563	56	130,300	42,863	171,463	174,035	15,141	189,176
486	165,880	45,663	18,404	229,947	171,556	49,439	218,630	221,909	19,306	241,215	165,880	81	188,320	49,439	235,424	238,955	20,789	259,744
487	270,396	59,031	28,660	358,087	286,505	60,270	343,063	348,209	30,294	378,504	270,396	131	313,830	60,270	370,427	375,984	32,711	408,694
488	75,401	1,285	6,672	83,357	87,257	12,082	98,275	99,749	8,678	108,428	75,401	37	94,877	12,082	105,908	107,497	9,352	116,849
489	70,311	4,225	6,485	81,021	76,551	5,051	80,729	81,940	7,129	89,068	70,311	34	83,656	5,051	87,836	89,154	7,756	96,910
490	0	41,573	3,617	45,190	0	53,491	52,919	53,713	4,673	58,386	0	0	0	53,491	52,966	53,761	4,677	58,438
491	48,846	2,546	4,471	55,864	61,534	4,021	64,854	65,827	5,727	71,554	48,846	24	66,471	4,021	69,800	70,847	6,164	77,010
492	72,245	1,811	6,443	80,498	79,941	3,522	82,569	83,808	7,291	91,099	72,245	35	87,242	3,522	89,872	91,220	7,936	99,157
493	0	37,833	3,291	41,124	56,576	48,394	103,846	105,404	9,170	114,574	0	0	56,576	48,394	103,939	105,498	9,178	114,677
494	28,797	1,025	2,594	32,416	31,293	11,999	42,828	43,470	3,782	47,252	28,797	14	34,203	11,999	45,748	46,434	4,040	50,474
495	0	250,841	21,823	272,665	0	254,204	251,484	255,256	22,207	277,463	0	0	0	254,204	251,708	255,484	22,227	277,711
496	0	41,830	3,639	45,469	3,952	44,662	48,094	48,815	4,247	53,062	0	0	3,952	44,662	48,137	48,859	4,251	53,109
497	20,308	6,574	2,339	29,221	80,212	50,824	129,634	131,578	11,447	143,025	20,308	10	82,264	50,824	131,781	133,758	11,637	145,395
498	0	74,946	6,520	81,466	0	74,946	74,144	75,256	6,547	81,803	0	0	0	74,946	74,210	75,323	6,553	81,876
499	42,514	19,854	5,426	67,794	44,802	21,093	65,190	66,168	5,757	71,924	42,514	21	49,098	21,093	69,502	70,545	6,137	76,682
500	124,690	24,818	13,007	162,516	132,594	25,349	156,253	158,597	13,798	172,395	124,690	61	145,195	25,349	168,870	171,403	14,912	186,315
501	85,446	11,220	8,410	105,075	88,982	24,377	112,145	113,827	9,903	123,730	85,446	42	97,617	24,377	120,795	122,607	10,667	133,274

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
502	201,138	13,330	18,659	233,127	215,490	17,932	230,924	234,388	20,392	254,780	201,138	98	235,817	17,932	251,257	255,026	22,187	277,213
503	59,673	17,916	6,750	84,339	70,281	29,539	98,752	100,233	8,720	108,953	59,673	29	76,311	29,539	104,811	106,383	9,255	115,639
504	47,480	5,994	4,652	58,126	55,176	13,015	67,461	68,473	5,957	74,430	47,480	23	59,974	13,015	72,273	73,357	6,382	79,739
505	63,071	12,775	6,599	82,444	69,265	21,330	89,625	90,969	7,914	98,884	63,071	31	75,685	21,330	96,061	97,502	8,483	105,985
506	70,689	1,350	6,267	78,306	90,657	4,241	93,882	95,291	8,290	103,581	70,689	34	97,800	4,241	101,040	102,555	8,922	111,478
507	14,862	7,073	1,908	23,843	40,238	13,917	53,575	54,378	4,731	59,109	14,862	7	41,739	13,917	55,110	55,936	4,866	60,803
508	28,655	5,719	2,990	37,364	57,359	16,634	73,200	74,298	6,464	80,762	28,655	14	60,254	16,634	76,133	77,275	6,723	83,998
509	31,229	10,382	3,620	45,232	40,797	26,902	66,975	67,980	5,914	73,894	31,229	15	43,953	26,902	70,160	71,212	6,195	77,408
510	91,919	11,050	8,958	111,927	103,359	11,935	114,060	115,771	10,072	125,843	91,919	45	112,648	11,935	123,360	125,210	10,893	136,103
511	70	113,684	9,897	123,651	4,496	113,920	117,148	118,905	10,345	129,250	70	0	4,503	113,920	117,260	119,018	10,355	129,373
512	4,572	16,187	1,806	22,565	4,780	21,910	26,404	26,800	2,332	29,132	4,572	2	5,242	21,910	26,885	27,289	2,374	29,663
513	99,965	16,151	10,102	126,218	99,965	17,036	115,749	117,485	10,221	127,706	99,965	49	110,067	17,036	125,855	127,743	11,114	138,857
514	21,910	16,605	3,351	41,866	32,942	20,971	53,336	54,136	4,710	58,846	21,910	11	35,156	20,971	55,576	56,409	4,908	61,317
515	0	72,906	6,343	79,249	6,240	76,918	82,268	83,502	7,265	90,766	0	0	6,240	76,918	82,341	83,576	7,271	90,847
516	101,988	10,653	9,800	122,440	106,356	12,482	117,566	119,329	10,382	129,711	101,988	50	116,663	12,482	127,876	129,794	11,292	141,086
517	75,157	3,682	6,859	85,699	85,973	6,101	91,089	92,456	8,044	100,499	75,157	37	93,569	6,101	98,691	100,172	8,715	108,887
518	63,700	5,504	6,021	75,224	70,564	7,687	77,413	78,574	6,836	85,410	63,700	31	77,001	7,687	83,856	85,114	7,405	92,519
519	79,329	14,957	8,203	102,489	98,049	18,969	115,765	117,502	10,223	127,724	79,329	39	106,066	18,969	123,807	125,664	10,933	136,597
520	156,591	27,906	16,051	200,548	166,367	32,272	196,513	199,460	17,353	216,813	156,591	76	182,192	32,272	212,358	215,543	18,752	234,295
521	181,316	41,795	19,411	242,522	193,796	43,093	234,354	237,869	20,695	258,563	181,316	88	212,120	43,093	252,706	256,497	22,315	278,812
522	28,523	41,349	6,079	75,951	28,523	44,948	72,685	73,775	6,418	80,194	28,523	14	31,405	44,948	75,604	76,738	6,676	83,414
523	46,472	13,464	5,214	65,150	70,392	18,184	87,628	88,942	7,738	96,680	46,472	23	75,088	18,184	92,356	93,742	8,156	101,897
524	77,783	46,822	10,841	135,446	100,247	57,560	156,118	158,460	13,786	172,246	77,783	38	108,107	57,560	164,041	166,501	14,486	180,987
525	125,204	17,138	12,384	154,726	152,452	19,262	169,877	172,425	15,001	187,426	125,204	61	165,105	19,262	182,557	185,295	16,121	201,416
526	142,431	19,463	14,085	175,979	162,191	21,174	181,402	184,123	16,019	200,142	142,431	69	176,585	21,174	195,817	198,754	17,292	216,046
527	125,728	7,376	11,580	144,684	150,480	9,559	158,326	160,701	13,981	174,682	125,728	61	163,186	9,559	171,049	173,614	15,104	188,719
528	131,318	157,764	25,150	314,232	152,326	159,475	308,464	313,091	27,239	340,330	131,318	64	165,597	159,475	321,880	326,708	28,424	355,132
529	160,058	21,642	15,808	197,507	164,010	24,120	186,116	188,908	16,435	205,343	160,058	78	180,185	24,120	202,298	205,333	17,864	223,197

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
530	121,097	2,146	10,722	133,965	126,089	2,618	127,330	129,240	11,244	140,484	121,097	59	138,327	2,618	139,561	141,655	12,324	153,979
531	135,228	37,162	14,998	187,388	142,716	39,876	180,638	183,348	15,951	199,299	135,228	66	156,382	39,876	194,331	197,246	17,160	214,406
532	161,119	17,802	15,566	194,487	164,447	24,056	186,485	189,282	16,468	205,750	161,119	78	180,729	24,056	202,774	205,816	17,906	223,722
533	122,288	32,178	13,439	167,905	146,000	39,612	183,626	186,380	16,215	202,595	122,288	59	158,358	39,612	196,027	198,967	17,310	216,277
534	112,430	28,737	12,282	153,449	137,598	38,767	174,478	177,095	15,407	192,503	112,430	55	148,960	38,767	185,884	188,673	16,415	205,087
535	25,958	29,035	4,784	59,777	34,902	33,460	67,630	68,644	5,972	74,616	25,958	13	37,525	33,460	70,288	71,342	6,207	77,549
536	109,125	15,032	10,802	134,959	126,597	21,168	146,183	148,376	12,909	161,285	109,125	53	137,625	21,168	157,234	159,592	13,885	173,477
537	97,224	57,162	13,432	167,817	117,192	60,702	175,989	178,629	15,541	194,170	97,224	47	127,017	60,702	185,875	188,663	16,414	205,077
538	0	127,297	11,075	138,372	5,616	132,253	136,393	138,439	12,044	150,484	0	0	5,616	132,253	136,515	138,563	12,055	150,618
539	46,429	23,301	6,066	75,796	46,429	23,301	68,983	70,018	6,092	76,110	46,429	23	51,121	23,301	73,691	74,796	6,507	81,303
540	213,441	65,772	24,292	303,504	236,850	75,625	309,131	313,768	27,298	341,066	213,441	104	258,515	75,625	330,858	335,821	29,216	365,038
541	101,248	9,957	9,675	120,880	101,456	12,376	112,613	114,303	9,944	124,247	101,248	49	111,688	12,376	122,845	124,688	10,848	135,536
542	20,943	14,250	3,062	38,255	28,431	17,141	45,084	45,760	3,981	49,741	20,943	10	30,547	17,141	47,220	47,928	4,170	52,098
543	57,366	4,340	5,368	67,074	57,366	4,340	61,046	61,961	5,391	67,352	57,366	28	63,164	4,340	66,840	67,843	5,902	73,745
544	88,014	85,214	15,071	188,299	95,918	85,981	179,952	182,652	15,891	198,542	88,014	43	104,813	85,981	188,920	191,754	16,683	208,437
545	159,376	34,568	16,873	210,817	184,544	39,111	221,261	224,580	19,538	244,118	159,376	77	200,650	39,111	237,406	240,968	20,964	261,932
546	0	16,481	1,434	17,914	0	16,481	16,304	16,549	1,440	17,988	0	0	0	16,481	16,319	16,563	1,441	18,004
547	79,608	22,843	8,913	111,364	112,888	25,439	136,846	138,899	12,084	150,983	79,608	39	120,933	25,439	144,935	147,109	12,798	159,907
548	130,651	12,259	12,433	155,343	134,395	13,380	146,193	148,386	12,910	161,296	130,651	63	147,598	13,380	159,397	161,788	14,076	175,864
549	63,108	12,326	6,563	81,997	63,108	12,326	74,627	75,746	6,590	82,336	63,108	31	69,486	12,326	81,009	82,224	7,153	89,377
550	133,900	9,880	12,509	156,288	161,980	12,063	172,180	174,763	15,204	189,967	133,900	65	175,511	12,063	185,732	188,518	16,401	204,919
551	144,913	27,403	14,992	187,308	160,097	30,176	188,237	191,061	16,622	207,683	144,913	70	174,742	30,176	202,906	205,949	17,918	223,867
552	66,699	26,374	8,097	101,171	73,147	27,318	99,390	100,881	8,777	109,658	66,699	32	79,888	27,318	106,153	107,746	9,374	117,119
553	0	5,772	502	6,274	0	5,772	5,710	5,795	504	6,300	0	0	0	5,772	5,715	5,801	505	6,305
554	0	75,472	6,566	82,038	4,784	80,723	84,592	85,861	7,470	93,330	0	0	4,784	80,723	84,667	85,937	7,477	93,414
555	19,375	11,302	2,669	33,345	19,999	13,839	33,475	33,978	2,956	36,934	19,375	9	21,957	13,839	35,444	35,976	3,130	39,106
556	20,961	85,561	9,267	115,789	39,473	98,187	136,187	138,229	12,026	150,255	20,961	10	41,591	98,187	138,406	140,482	12,222	152,704
557	96,897	20,626	10,225	127,748	137,420	31,836	167,445	169,956	14,786	184,743	96,897	47	147,249	31,836	177,327	179,987	15,659	195,646

TAZ	2018 Consumption (GPD)				2045 Consumption (GPD)						2100 Consumption (GPD)							
	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
558	83,870	44,875	11,201	139,946	99,054	50,067	147,525	149,738	13,027	162,765	83,870	41	107,530	50,067	156,049	158,390	13,780	172,170
559	54,227	869	4,793	59,890	55,059	928	55,388	56,219	4,891	61,110	54,227	26	60,539	928	60,864	61,777	5,375	67,151
560	0	41,577	3,617	45,194	21,761	51,784	72,758	73,849	6,425	80,274	0	0	21,840	51,784	72,901	73,994	6,438	80,432
561	23,405	113,381	11,900	148,687	46,701	116,803	161,754	164,180	14,284	178,464	23,405	11	49,066	116,803	164,241	166,704	14,503	181,207
562	28,760	11,768	3,526	44,053	75,976	15,839	90,832	92,194	8,021	100,215	28,760	14	78,882	15,839	93,791	95,198	8,282	103,480
563	83,413	10,419	8,163	101,995	91,109	12,248	102,251	103,784	9,029	112,814	83,413	41	99,539	12,248	110,689	112,349	9,774	122,123
564	49,517	34,592	7,317	91,426	57,629	37,129	93,744	95,150	8,278	103,428	49,517	24	62,633	37,129	98,782	100,264	8,723	108,987
565	4,183	8,322	1,088	13,593	57,015	22,482	78,646	79,826	6,945	86,771	4,183	2	57,438	22,482	79,135	80,322	6,988	87,310
566	0	24,786	2,156	26,942	0	28,857	28,548	28,976	2,521	31,497	0	0	0	28,857	28,573	29,002	2,523	31,525
567	156,492	15,863	14,995	187,349	157,254	15,863	171,264	173,833	15,123	188,956	156,492	76	173,139	15,863	187,145	189,953	16,526	206,478
568	62,033	41,271	8,987	112,291	82,625	65,992	147,026	149,232	12,983	162,215	62,033	30	88,894	65,992	153,365	155,665	13,543	169,208
569	26,468	17,813	3,852	48,134	30,628	167,909	196,412	199,359	17,344	216,703	26,468	13	33,303	167,909	199,236	202,225	17,594	219,818
570	34,716	17,590	4,551	56,857	251,036	125,737	372,741	378,332	32,915	411,247	34,716	17	254,545	125,737	376,547	382,195	33,251	415,446
571	32,416	6,904	3,421	42,740	32,505	6,963	39,045	39,631	3,448	43,079	32,416	16	35,780	6,963	42,324	42,958	3,737	46,696
572	0	80,457	7,000	87,457	4,160	114,264	117,157	118,914	10,346	129,260	0	0	4,160	114,264	117,261	119,020	10,355	129,375
573	0	0	0	0	165	0	163	166	14	180	0	0	208	0	206	209	18	227
574	0	8,214	715	8,928	3,589	8,627	12,085	12,267	1,067	13,334	0	0	3,589	8,627	12,096	12,278	1,068	13,346
575	0	0	0	0	18	0	18	18	2	19	0	0	18	0	18	18	2	19
576	0	0	0	0	13	0	12	13	1	14	0	0	13	0	12	13	1	14
577	64,948	21,827	7,549	94,324	67,329	23,420	89,777	91,124	7,928	99,052	64,948	32	73,893	23,420	96,357	97,802	8,509	106,311
578	81,337	24,489	9,207	115,033	86,362	25,846	111,007	112,672	9,803	122,475	0	0	86,362	25,846	111,106	112,773	9,811	122,584
579	0	179,907	15,652	195,559	1,248	179,966	179,274	181,963	15,831	197,794	0	0	1,248	179,966	179,434	182,126	15,845	197,971
580	99,669	37,749	11,955	149,374	107,781	38,162	144,382	146,548	12,750	159,297	99,669	48	117,854	38,162	154,484	156,801	13,642	170,443
581	0	50,170	4,365	54,535	1,456	51,999	52,883	53,677	4,670	58,346	0	0	1,456	51,999	52,931	53,724	4,674	58,399
582	67,714	42,865	9,620	120,199	76,658	97,912	172,701	175,291	15,250	190,542	67,714	33	83,501	97,912	179,631	182,325	15,862	198,188
583	148,554	74,571	19,412	242,537	185,786	85,781	268,661	272,691	23,724	296,415	148,554	72	200,799	85,781	283,766	288,022	25,058	313,080
584	130,611	13,212	12,513	156,336	141,011	20,292	159,577	161,971	14,091	176,062	130,611	63	154,211	20,292	172,789	175,381	15,258	190,639
585	132,596	2,987	11,796	147,379	146,324	3,754	148,472	150,699	13,111	163,810	132,596	64	159,724	3,754	161,873	164,301	14,294	178,595

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
586	2,866	43,184	4,006	50,057	11,444	56,990	67,702	68,717	5,978	74,696	2,866	1	11,733	56,990	68,049	69,070	6,009	75,079
587	137,834	51,133	16,440	205,408	156,970	56,266	210,954	214,119	18,628	232,747	137,834	67	170,899	56,266	224,935	228,309	19,863	248,172
588	143,661	54,531	17,243	215,435	165,709	56,242	219,575	222,869	19,390	242,259	143,661	70	180,227	56,242	234,147	237,659	20,676	258,335
589	44,239	15,313	5,181	64,733	56,719	15,785	71,728	72,804	6,334	79,138	44,239	21	61,190	15,785	76,219	77,362	6,731	84,093
592	139,184	25,492	14,327	179,002	156,656	31,569	186,210	189,003	16,443	205,446	139,184	68	170,721	31,569	200,304	203,308	17,688	220,996
593	64,606	121,636	16,203	202,445	95,806	133,023	226,380	229,776	19,991	249,766	64,606	31	102,335	133,023	233,047	236,543	20,579	257,122
594	121,152	14,594	11,810	147,556	124,896	14,889	138,289	140,363	12,212	152,575	121,152	59	137,139	14,889	150,535	152,793	13,293	166,086
595	179,896	43,682	19,451	243,029	183,640	45,570	226,756	230,158	20,024	250,182	179,896	87	201,820	45,570	244,960	248,635	21,631	270,266
596	245,529	36,536	24,540	306,604	286,713	78,249	361,055	366,471	31,883	398,354	245,529	119	311,526	78,249	385,947	391,736	34,081	425,817
597	86,537	388	7,562	94,487	89,449	1,391	89,868	91,216	7,936	99,151	86,537	42	98,194	1,391	98,607	100,086	8,708	108,794
598	0	2,995	261	3,255	800	4,706	5,446	5,528	481	6,009	0	0	832	4,706	5,483	5,565	484	6,050
599	0	0	0	0	2,282	1,947	4,184	4,247	369	4,616	0	0	2,288	1,947	4,193	4,256	370	4,627
600	187,399	7,254	16,935	211,587	198,007	9,850	205,632	208,716	18,158	226,874	187,399	91	216,945	9,850	224,567	227,936	19,830	247,766
601	145,149	9,784	13,479	168,413	165,741	10,905	174,756	177,377	15,432	192,809	145,149	71	180,410	10,905	189,437	192,278	16,728	209,006
602	82,000	12,085	8,185	102,271	86,784	12,793	98,511	99,989	8,699	108,688	82,000	40	95,071	12,793	106,805	108,407	9,431	117,838
603	231,203	128,184	31,267	390,654	247,427	129,659	373,050	378,646	32,942	411,588	231,203	112	270,792	129,659	396,519	402,467	35,015	437,481
604	55,658	4,467	5,231	65,356	60,234	4,703	64,242	65,205	5,673	70,878	55,658	27	65,859	4,703	69,868	70,917	6,170	77,086
606	122,463	24,047	12,746	159,256	126,623	25,699	150,691	152,952	13,307	166,258	122,463	59	138,999	25,699	163,080	165,526	14,401	179,927
607	100,721	55,017	13,549	169,287	134,417	87,880	219,918	223,216	19,420	242,636	100,721	49	144,596	87,880	230,193	233,645	20,327	253,973
608	1,082	972	179	2,233	2,285	1,444	3,689	3,745	326	4,070	1,082	1	2,439	1,444	3,846	3,903	340	4,243
609	0	0	0	0	5,650	590	6,174	6,266	545	6,811	0	0	5,650	590	6,179	6,272	546	6,817
610	68,453	67,477	11,826	147,756	75,909	80,457	154,693	157,013	13,660	170,673	68,453	33	82,859	80,457	161,712	164,138	14,280	178,418
611	114,375	82,640	17,140	214,155	141,831	93,909	233,217	236,715	20,594	257,309	114,375	56	153,389	93,909	244,870	248,543	21,623	270,166
612	0	0	0	0	1,664	177	1,821	1,849	161	2,009	0	0	1,664	177	1,823	1,850	161	2,011
613	258,952	16,359	23,952	299,263	265,400	40,726	302,850	307,393	26,743	334,136	258,952	126	291,570	40,726	329,032	333,968	29,055	363,023
614	0	57,006	4,960	61,966	1,248	62,375	62,942	63,886	5,558	69,444	0	0	1,248	62,375	62,998	63,943	5,563	69,506
615	0	532	46	578	43	591	627	636	55	692	0	0	43	591	627	637	55	692
616	0	21,785	1,895	23,680	32,656	34,470	66,407	67,403	5,864	73,267	0	0	32,656	34,470	66,466	67,463	5,869	73,333

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
617	250,109	34,869	24,793	309,771	250,109	34,869	281,928	286,157	24,896	311,053	250,109	122	275,385	34,869	307,207	311,815	27,128	338,943
618	1,316	22,805	2,099	26,220	13,588	26,286	39,448	40,039	3,483	43,523	1,316	1	13,721	26,286	39,614	40,209	3,498	43,707
619	182,820	1,945	16,075	200,839	194,468	2,594	194,952	197,877	17,215	215,092	182,820	89	212,943	2,594	213,420	216,622	18,846	235,468
620	0	0	0	0	117	118	233	236	21	257	0	0	208	118	323	328	29	356
621	28,465	336	2,506	31,307	28,885	395	28,967	29,402	2,558	31,960	0	0	28,885	395	28,993	29,428	2,560	31,988
622	0	0	0	0	7	177	182	185	16	201	0	0	7	177	182	185	16	201
623	80,857	11,610	8,045	100,511	85,579	12,141	96,674	98,124	8,537	106,661	80,857	39	93,812	12,141	104,912	106,486	9,264	115,750
624	33,512	1,073	3,009	37,594	44,298	11,988	55,683	56,519	4,917	61,436	33,512	16	47,715	11,988	59,116	60,003	5,220	65,223
625	44,587	10,094	4,757	59,439	49,557	11,392	60,296	61,201	5,324	66,525	0	0	49,579	11,392	60,373	61,278	5,331	66,609
626	36,892	41,116	6,787	84,794	42,047	42,001	83,148	84,395	7,342	91,738	0	0	42,092	42,001	83,267	84,516	7,353	91,869
627	73	22,341	1,950	24,364	1,937	139,397	139,821	141,919	12,347	154,266	73	0	1,952	139,397	139,961	142,060	12,359	154,420
628	66,086	47,712	9,900	123,699	66,478	49,364	114,603	116,322	10,120	126,442	0	0	66,502	49,364	114,728	116,449	10,131	126,580
629	71,974	0	6,262	78,236	79,254	767	79,165	80,352	6,991	87,343	0	0	79,254	767	79,235	80,424	6,997	87,421
630	33,117	40,596	6,413	80,126	43,578	42,779	85,433	86,715	7,544	94,259	33,117	16	46,925	42,779	88,823	90,156	7,844	97,999
631	79,093	1,742	7,033	87,868	90,625	3,630	93,247	94,645	8,234	102,880	79,093	38	98,618	3,630	101,244	102,763	8,940	111,704
632	157,457	6,664	14,278	178,399	157,457	7,077	162,773	165,214	14,374	179,588	0	0	157,457	7,077	162,918	165,362	14,386	179,748
633	100,098	4,904	9,135	114,137	109,177	7,382	115,311	117,041	10,183	127,224	100,098	49	119,366	7,382	125,503	127,386	11,083	138,468
634	236,434	12,200	21,631	270,266	259,881	17,569	274,480	278,598	24,238	302,836	236,434	115	283,832	17,569	298,442	302,918	26,354	329,272
635	148,094	17,325	14,391	179,811	155,790	24,346	178,208	180,882	15,737	196,618	148,094	72	170,756	24,346	193,187	196,085	17,059	213,144
636	0	33,224	2,890	36,115	208	33,283	33,133	33,630	2,926	36,555	0	0	208	33,283	33,162	33,660	2,928	36,588
637	272,103	1,087	23,768	296,958	284,791	2,916	284,628	288,897	25,134	314,031	272,103	132	312,290	2,916	312,110	316,792	27,561	344,353
638	0	6,690	582	7,272	3,536	10,289	13,677	13,883	1,208	15,090	0	0	3,536	10,289	13,690	13,895	1,209	15,104
639	0	3,697	322	4,018	58	3,697	3,714	3,770	328	4,098	0	0	58	3,697	3,717	3,773	328	4,101
640	7,437	2,367	853	10,657	39,469	3,842	42,847	43,490	3,784	47,274	7,437	4	40,221	3,842	43,630	44,284	3,853	48,137
650	40,470	3,455	3,821	47,746	40,470	3,455	43,455	44,107	3,837	47,944	0	0	40,470	3,455	43,494	44,146	3,841	47,987
680	0	2,519	219	2,738	11	2,637	2,619	2,658	231	2,889	0	0	11	2,637	2,621	2,660	231	2,892
687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
693	129,486	16,444	12,696	158,625	140,790	19,866	158,937	161,321	14,035	175,356	0	0	140,790	19,866	159,079	161,465	14,047	175,512

TAZ	2018 Consumption (GPD)				2045 Consumption (GPD)						2100 Consumption (GPD)							
	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
697	47,742	23,212	6,173	77,126	52,017	24,510	75,708	76,843	6,685	83,529	0	0	52,110	24,510	75,867	77,005	6,699	83,704
698	0	51,635	4,492	56,127	1,543	53,051	54,009	54,819	4,769	59,588	0	0	1,543	53,051	54,057	54,868	4,774	59,641
699	109,523	0	9,528	119,051	110,019	3,599	112,402	114,088	9,926	124,014	0	0	110,019	3,599	112,502	114,190	9,935	124,125
700	98,815	40,999	12,164	151,978	105,679	44,008	148,085	150,306	13,077	163,383	0	0	105,679	44,008	148,217	150,440	13,088	163,529
703	43,629	41	3,799	47,469	43,863	41	43,435	44,086	3,835	47,922	0	0	43,863	41	43,473	44,125	3,839	47,964
704	73,463	2,543	6,613	82,619	74,136	2,543	75,858	76,996	6,699	83,695	0	0	74,136	2,543	75,926	77,065	6,705	83,769
710	0	0	0	0	13	0	13	13	1	15	0	0	13	0	13	13	1	15
717	706	49,825	4,396	54,927	7,117	50,415	56,916	57,770	5,026	62,796	0	0	7,154	50,415	57,003	57,858	5,034	62,892
719	15,964	92,718	9,455	118,138	73,212	105,167	176,470	179,117	15,583	194,700	0	0	73,212	105,167	176,627	179,277	15,597	194,874
720	16,431	0	1,430	17,861	18,087	59	17,952	18,222	1,585	19,807	0	0	18,095	59	17,976	18,246	1,587	19,833
721	86,952	28,685	10,060	125,697	88,381	29,511	116,630	118,379	10,299	128,678	0	0	88,408	29,511	116,761	118,512	10,311	128,823
722	70,648	4,932	6,575	82,156	92,270	5,109	96,336	97,781	8,507	106,288	0	0	92,280	5,109	96,433	97,879	8,515	106,395
723	0	0	0	0	11	0	11	11	1	12	0	0	11	0	11	11	1	12
725	56,188	50,993	9,325	116,506	56,188	51,819	106,851	108,454	9,435	117,889	0	0	56,188	51,819	106,946	108,551	9,444	117,994
726	25,433	0	2,213	27,646	25,475	0	25,202	25,580	2,226	27,806	0	0	25,475	0	25,225	25,603	2,227	27,831
727	7,277	381	666	8,323	12,813	381	13,053	13,249	1,153	14,401	0	0	12,893	381	13,143	13,340	1,161	14,501
728	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
729	583	662	108	1,354	598	780	1,363	1,384	120	1,504	583	0	657	780	1,423	1,444	126	1,570
730	0	60,011	5,221	65,231	0	60,542	59,894	60,792	5,289	66,081	0	0	0	60,542	59,947	60,846	5,294	66,140
731	127,935	40,045	14,614	182,594	136,195	41,815	176,104	178,746	15,551	194,297	127,935	62	149,184	41,815	189,123	191,960	16,701	208,661
732	77,476	7,302	7,376	92,153	81,109	7,892	88,049	89,369	7,775	97,144	0	0	81,109	7,892	88,127	89,449	7,782	97,231
733	26,636	3,232	2,599	32,467	50,227	3,645	53,296	54,095	4,706	58,801	0	0	50,227	3,645	53,343	54,143	4,710	58,854
734	34,789	2,949	3,283	41,021	38,374	3,421	41,347	41,967	3,651	45,618	0	0	38,374	3,421	41,384	42,005	3,654	45,659
735	48,655	0	4,233	52,888	148,983	59	147,447	149,659	13,020	162,679	0	0	148,983	59	147,579	149,792	13,032	162,824
736	28,198	41,595	6,072	75,865	110,172	55,991	164,384	166,850	14,516	181,366	0	0	110,172	55,991	164,531	166,999	14,529	181,528
737	55,846	10,373	5,761	71,980	55,912	10,373	65,576	66,560	5,791	72,350	0	0	55,912	10,373	65,634	66,619	5,796	72,415
738	96,487	6,454	8,956	111,897	96,487	6,454	101,839	103,367	8,993	112,360	0	0	96,487	6,454	101,930	103,459	9,001	112,460
741	94,427	23,910	10,295	128,632	123,132	29,633	151,130	153,397	13,346	166,742	0	0	123,132	29,633	151,265	153,534	13,357	166,891

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
742	11,488	0	999	12,488	41,005	708	41,267	41,886	3,644	45,530	0	0	41,024	708	41,322	41,942	3,649	45,591
743	22,193	646	1,987	24,826	34,108	1,000	34,733	35,254	3,067	38,321	0	0	34,108	1,000	34,764	35,285	3,070	38,355
744	0	28,127	2,447	30,574	0	28,481	28,176	28,599	2,488	31,087	0	0	0	28,481	28,201	28,624	2,490	31,115
745	103,041	0	8,965	112,006	111,482	826	111,106	112,773	9,811	122,584	103,041	50	121,982	826	121,602	123,426	10,738	134,164
746	3,419	444	336	4,198	7,308	916	8,135	8,257	718	8,975	0	0	7,371	916	8,205	8,328	725	9,052
747	47,357	15,936	5,507	68,800	49,012	17,116	65,421	66,402	5,777	72,179	0	0	49,021	17,116	65,488	66,470	5,783	72,253
748	274	157,764	13,749	171,787	274	169,859	168,312	170,837	14,863	185,700	0	0	274	169,859	168,462	170,989	14,876	185,865
752	73,195	22,359	8,313	103,867	74,780	24,542	98,259	99,733	8,677	108,409	0	0	74,859	24,542	98,424	99,901	8,691	108,592
753	441,428	119,715	48,819	609,962	502,203	122,901	618,413	627,689	54,609	682,298	0	0	502,203	122,901	618,965	628,250	54,658	682,907
754	0	1,510	131	1,641	25,211	3,044	27,952	28,372	2,468	30,840	0	0	25,211	3,044	27,977	28,397	2,471	30,868
756	122,238	170	10,649	133,057	135,532	1,173	135,241	137,270	11,942	149,213	122,238	59	147,903	1,173	147,612	149,826	13,035	162,861
760	44,144	205	3,858	48,207	51,995	500	51,932	52,711	4,586	57,297	0	0	52,048	500	52,032	52,813	4,595	57,407
761	116,922	36,331	13,333	166,586	116,922	36,390	151,671	153,946	13,393	167,339	0	0	116,922	36,390	151,806	154,084	13,405	167,489
762	98,843	519	8,644	108,006	108,550	932	108,310	109,935	9,564	119,499	0	0	108,619	932	108,475	110,102	9,579	119,681
763	107,998	579	9,446	118,023	107,998	579	107,415	109,026	9,485	118,511	0	0	107,998	579	107,511	109,123	9,494	118,617
767	109,183	8,296	10,221	127,700	109,183	8,355	116,280	118,024	10,268	128,293	0	0	109,183	8,355	116,384	118,130	10,277	128,407
768	136,756	41,293	15,490	193,540	136,756	41,293	176,144	178,786	15,554	194,340	0	0	136,756	41,293	176,301	178,945	15,568	194,514
769	108,738	52,514	14,029	175,281	192,746	52,573	242,694	246,334	21,431	267,765	0	0	192,770	52,573	242,934	246,578	21,452	268,030
770	61,392	380	5,374	67,146	66,268	734	66,284	67,279	5,853	73,132	0	0	66,268	734	66,344	67,339	5,858	73,197
771	17,457	6,537	2,088	26,082	20,214	6,773	26,699	27,099	2,358	29,457	0	0	20,214	6,773	26,722	27,123	2,360	29,483
772	167,413	38,127	17,882	223,422	179,269	44,086	220,964	224,279	19,512	243,791	0	0	179,269	44,086	221,162	224,479	19,530	244,009
773	111,380	1,005	9,777	122,162	111,380	1,064	111,240	112,908	9,823	122,731	0	0	111,380	1,064	111,339	113,009	9,832	122,841
774	65,869	80,357	12,722	158,947	106,937	84,251	189,142	191,979	16,702	208,681	0	0	106,937	84,251	189,310	192,150	16,717	208,867
775	33,096	4,490	3,270	40,856	37,442	4,490	41,482	42,105	3,663	45,768	0	0	37,464	4,490	41,542	42,165	3,668	45,833
776	65,350	1,208	5,791	72,348	70,271	1,385	70,889	71,952	6,260	78,212	0	0	70,342	1,385	71,022	72,088	6,272	78,359
777	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
779	5,411	0	471	5,882	9,504	0	9,402	9,544	830	10,374	0	0	9,571	0	9,477	9,619	837	10,456
784	5,780	0	503	6,283	7,700	0	7,618	7,732	673	8,405	0	0	7,700	0	7,625	7,739	673	8,412

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
824	15,666	0	1,363	17,029	15,737	0	15,568	15,802	1,375	17,176	0	0	15,737	0	15,582	15,816	1,376	17,192
825	763	0	66	830	763	0	755	766	67	833	0	0	763	0	756	767	67	834
826	476,800	1,215,592	147,238	1,839,630	476,800	1,215,592	1,674,279	1,699,393	147,847	1,847,240	0	0	476,800	1,215,592	1,675,773	1,700,910	147,979	1,848,889
835	107,412	3,887	9,683	120,982	107,412	3,887	110,108	111,759	9,723	121,482	0	0	107,412	3,887	110,206	111,859	9,732	121,591
837	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
838	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
840	58,719	8,220	5,824	72,763	58,719	8,220	66,223	67,217	5,848	73,064	0	0	58,719	8,220	66,282	67,277	5,853	73,130
841	35,958	0	3,128	39,086	35,958	0	35,573	36,106	3,141	39,248	0	0	35,958	0	35,604	36,139	3,144	39,283
842	219,353	1,430	19,208	239,991	226,494	1,725	225,776	229,163	19,937	249,100	0	0	226,494	1,725	225,978	229,367	19,955	249,322
845	6,530	26	570	7,126	6,530	26	6,486	6,583	573	7,156	0	0	6,530	26	6,492	6,589	573	7,162
846	125,281	82	10,907	136,270	125,281	82	124,022	125,882	10,952	136,834	0	0	125,281	82	124,132	125,994	10,961	136,956
848	0	81	7	88	0	81	80	81	7	88	0	0	0	81	80	81	7	88
849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
851	350	624	85	1,059	350	624	963	978	85	1,063	0	0	350	624	964	979	85	1,064
854	45,557	2,030	4,140	51,727	45,557	2,030	47,078	47,784	4,157	51,941	0	0	45,557	2,030	47,120	47,827	4,161	51,987
859	16,033	710	1,457	18,200	16,033	710	16,564	16,812	1,463	18,275	16,033	8	17,654	710	18,183	18,456	1,606	20,061
860	5,702	3,210	775	9,687	5,702	3,210	8,817	8,949	779	9,727	0	0	5,702	3,210	8,824	8,957	779	9,736
861	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
863	56,226	0	4,892	61,118	56,292	0	55,689	56,525	4,918	61,442	0	0	56,292	0	55,739	56,575	4,922	61,497
864	0	3,822	333	4,155	0	3,822	3,781	3,838	334	4,172	0	0	0	3,822	3,785	3,842	334	4,176
868	0	0	0	0	4	0	4	4	0	5	0	0	4	0	4	4	0	5
869	68,019	2,004	6,092	76,115	90,239	2,358	91,606	92,980	8,089	101,069	68,019	33	97,149	2,358	98,530	100,008	8,701	108,709
875	59,202	1,068	5,244	65,514	59,310	1,068	59,732	60,628	5,275	65,902	59,202	29	65,393	1,068	65,808	66,796	5,811	72,607
878	30,962	0	2,694	33,656	56,388	0	55,785	56,621	4,926	61,548	0	0	56,388	0	55,835	56,672	4,930	61,602
881	104,131	25,721	11,297	141,149	105,290	25,780	129,667	131,612	11,450	143,062	0	0	105,379	25,780	129,871	131,819	11,468	143,287
887	151,003	13,557	14,317	178,877	151,003	13,557	162,799	165,241	14,376	179,617	0	0	151,003	13,557	162,944	165,388	14,389	179,777
889	61,402	0	5,342	66,744	61,402	0	60,745	61,656	5,364	67,020	0	0	61,402	0	60,799	61,711	5,369	67,080
893	63,035	8,887	6,257	78,179	63,035	8,887	71,152	72,220	6,283	78,503	0	0	63,035	8,887	71,216	72,284	6,289	78,573

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)								
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	
910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
911	99,985	368	8,731	109,083	99,985	368	99,278	100,768	8,767	109,534	0	0	99,985	368	99,367	100,857	8,775	109,632	
913	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922	0	1,417	123	1,540	0	1,417	1,402	1,423	124	1,547	0	0	0	1,417	1,403	1,424	124	1,548	
929	16,131	0	1,403	17,535	16,178	0	16,005	16,245	1,413	17,659	0	0	16,178	0	16,020	16,260	1,415	17,674	
930	914	0	80	994	914	0	904	918	80	998	0	0	914	0	905	919	80	999	
932	31,218	8,216	3,431	42,865	32,281	8,216	40,064	40,665	3,538	44,203	0	0	32,281	8,216	40,100	40,701	3,541	44,242	
948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
949	260,187	23,309	24,664	308,160	270,859	23,309	291,020	295,386	25,699	321,084	0	0	270,859	23,309	291,280	295,649	25,721	321,371	
950	5,851	4,940	939	11,730	53,256	4,940	57,573	58,437	5,084	63,521	0	0	53,275	4,940	57,643	58,508	5,090	63,598	
951	0	435	38	472	0	435	430	436	38	474	0	0	0	435	430	437	38	475	
953	152,900	645	13,358	166,904	165,942	645	164,804	167,276	14,553	181,829	0	0	166,004	645	165,013	167,488	14,571	182,060	
954	71,814	0	6,248	78,062	105,939	0	104,805	106,377	9,255	115,632	0	0	105,939	0	104,898	106,472	9,263	115,735	
955	258,509	58,550	27,584	344,643	269,534	58,786	324,807	329,679	28,682	358,361	0	0	269,534	58,786	325,096	329,973	28,708	358,681	
956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
957	102,634	1,479	9,058	113,171	117,026	1,951	117,704	119,470	10,394	129,864	0	0	117,026	1,951	117,809	119,576	10,403	129,979	
958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
960	0	0	0	0	0	52,982	52,415	53,201	4,629	57,830	0	0	0	52,982	52,462	53,249	4,633	57,881	
961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
962	241,414	1,541	21,137	264,091	246,549	1,718	245,610	249,294	21,689	270,983	0	0	246,614	1,718	245,893	249,581	21,714	271,295	
963	177,515	22,937	17,439	217,891	178,950	22,996	199,784	202,781	17,642	220,423	0	0	178,971	22,996	199,984	202,983	17,660	220,643	
964	130,973	3,322	11,684	145,979	133,053	3,381	134,974	136,998	11,919	148,917	0	0	133,053	3,381	135,094	137,121	11,930	149,050	
965	147,925	8,893	13,643	170,461	150,817	9,129	158,234	160,608	13,973	174,580	0	0	150,837	9,129	158,395	160,771	13,987	174,758	
966	180,189	11,945	16,716	208,849	181,021	12,004	190,958	193,823	16,863	210,685	0	0	181,021	12,004	191,129	193,996	16,878	210,873	
967	165,168	23,664	16,428	205,260	168,496	24,136	190,570	193,429	16,828	210,257	0	0	168,496	24,136	190,740	193,601	16,843	210,445	
968	396,007	5,798	34,957	436,762	420,790	6,093	422,314	428,649	37,292	465,941	0	0	420,790	6,093	422,691	429,031	37,326	466,357	
969	362,041	13,513	32,673	408,227	387,553	14,280	397,532	403,495	35,104	438,599	362,041	176	424,212	14,280	434,186	440,699	38,341	479,040	

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
970	197,544	27,516	19,580	244,640	208,124	27,811	233,409	236,911	20,611	257,522	197,544	96	228,116	27,811	253,413	257,215	22,378	279,592
971	183,228	6,996	16,549	206,774	187,370	8,412	193,686	196,592	17,103	213,695	183,228	89	205,905	8,412	212,212	215,395	18,739	234,135
972	141,522	17,911	13,871	173,303	154,834	18,383	171,363	173,933	15,132	189,065	0	0	154,834	18,383	171,516	174,088	15,146	189,234
973	418,005	38,777	39,740	496,523	421,957	38,954	455,979	462,818	40,265	503,084	418,005	203	464,200	38,954	498,214	505,687	43,995	549,682
974	217,116	21,449	20,755	259,320	217,324	21,449	236,217	239,761	20,859	260,620	0	0	217,324	21,449	236,428	239,975	20,878	260,853
975	123,738	13,012	11,897	148,647	163,136	17,083	178,290	180,964	15,744	196,708	123,738	60	175,641	17,083	190,831	193,694	16,851	210,545
976	447,832	18,088	40,535	506,455	451,368	18,206	464,548	471,517	41,022	512,538	0	0	451,368	18,206	464,963	471,937	41,059	512,996
977	202,237	20,199	19,352	241,788	203,069	20,199	220,878	224,192	19,505	243,696	0	0	203,069	20,199	221,076	224,392	19,522	243,914
978	316,427	157,083	41,195	514,705	319,947	157,142	471,983	479,062	41,678	520,741	0	0	319,963	157,142	472,419	479,506	41,717	521,223
979	272,350	11,890	24,729	308,969	281,270	12,126	290,256	294,610	25,631	320,241	272,350	132	308,818	12,126	317,792	322,559	28,063	350,622
980	183,965	114,471	25,964	324,400	199,000	117,126	312,743	317,434	27,617	345,051	183,965	89	217,592	117,126	331,431	336,402	29,267	365,669
981	0	0	0	0	215	7,080	7,217	7,325	637	7,963	0	0	215	7,080	7,223	7,332	638	7,970
982	229,639	15,071	21,290	266,000	234,459	15,189	246,976	250,681	21,809	272,490	229,639	112	257,666	15,189	270,176	274,228	23,858	298,086
983	138,562	22,592	14,020	175,174	140,434	22,946	161,631	164,056	14,273	178,329	138,562	67	154,437	22,946	175,641	178,275	15,510	193,785
984	50,283	0	4,375	54,658	53,264	118	52,810	53,603	4,663	58,266	0	0	53,264	118	52,858	53,650	4,668	58,318
985	2,373	55	211	2,640	3,154	173	3,291	3,341	291	3,631	2,373	1	3,394	173	3,532	3,585	312	3,897
986	44,454	0	3,868	48,322	44,454	0	43,979	44,638	3,884	48,522	44,454	22	48,947	0	48,466	49,193	4,280	53,473
987	113,378	20,389	11,638	145,406	132,306	20,448	151,120	153,386	13,345	166,731	113,378	55	143,764	20,448	162,600	165,039	14,358	179,397
988	136,224	4,477	12,241	152,942	136,420	4,536	139,448	141,540	12,314	153,854	0	0	136,432	4,536	139,584	141,678	12,326	154,004
989	120,781	4,298	10,882	135,961	120,781	4,298	123,740	125,596	10,927	136,523	0	0	120,781	4,298	123,851	125,708	10,937	136,645
990	40,144	461	3,533	44,137	40,961	461	40,978	41,593	3,619	45,212	0	0	40,976	461	41,030	41,645	3,623	45,268
991	85,380	7,381	8,070	100,831	85,380	7,381	91,768	93,145	8,104	101,248	0	0	85,380	7,381	91,850	93,228	8,111	101,339
992	76,321	203	6,658	83,181	76,321	203	75,705	76,840	6,685	83,525	0	0	76,321	203	75,772	76,909	6,691	83,600
993	117,865	0	10,254	128,119	223,764	118	221,486	224,808	19,558	244,367	0	0	223,764	118	221,684	225,009	19,576	244,585
994	224,982	74,065	26,017	325,064	228,044	74,065	298,876	303,359	26,392	329,751	0	0	228,102	74,065	299,200	303,688	26,421	330,109
995	61,031	211	5,328	66,570	64,496	270	64,072	65,033	5,658	70,691	0	0	64,567	270	64,200	65,163	5,669	70,832
996	40,718	0	3,542	44,260	53,357	118	52,903	53,696	4,672	58,368	0	0	53,406	118	52,998	53,793	4,680	58,473
997	41,927	147	3,660	45,734	49,119	442	49,030	49,766	4,330	54,095	0	0	49,207	442	49,161	49,899	4,341	54,240

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/Redevelopment TAZ Use	Infill/Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
998	7,345	8,188	1,351	16,885	13,680	9,014	22,451	22,788	1,983	24,770	0	0	13,680	9,014	22,471	22,808	1,984	24,792
999	95,131	1,145	8,376	104,651	111,393	6,219	116,353	118,098	10,275	128,372	0	0	111,393	6,219	116,456	118,203	10,284	128,487
1000	39,376	18,627	5,046	63,050	67,801	22,993	89,823	91,170	7,932	99,102	0	0	67,872	22,993	89,973	91,323	7,945	99,268
1001	192,730	1,460	16,895	211,086	199,042	1,519	198,415	201,391	17,521	218,913	0	0	199,042	1,519	198,592	201,571	17,537	219,108
1002	232,289	15,929	21,595	269,813	232,496	15,929	245,766	249,453	21,702	271,155	0	0	232,497	15,929	245,987	249,676	21,722	271,398
1003	174,533	30,642	17,850	223,025	180,367	32,235	210,326	213,481	18,573	232,054	0	0	180,367	32,235	210,514	213,672	18,589	232,261
1004	132,450	115,962	21,612	270,024	137,063	116,788	251,135	254,902	22,176	277,078	0	0	137,063	116,788	251,359	255,129	22,196	277,325
1006	78,469	36,449	9,998	124,916	96,943	38,455	133,949	135,958	11,828	147,786	0	0	96,981	38,455	134,106	136,118	11,842	147,960
1007	43,984	33	3,829	47,846	50,146	328	49,933	50,682	4,409	55,091	0	0	50,224	328	50,055	50,806	4,420	55,226
1008	140,612	72,985	18,583	232,179	150,479	75,758	223,815	227,172	19,764	246,936	140,612	68	164,689	75,758	238,085	241,657	21,024	262,681
1009	169,504	8,117	15,453	193,074	175,612	8,530	182,171	184,904	16,087	200,991	169,504	82	192,742	8,530	199,295	202,285	17,599	219,884
1010	220,422	8,934	19,954	249,310	233,352	9,878	240,626	244,236	21,249	265,484	0	0	233,352	9,878	240,841	244,454	21,267	265,721
1011	50,017	23,593	6,404	80,014	57,818	24,891	81,824	83,051	7,225	90,277	0	0	57,921	24,891	81,999	83,229	7,241	90,469
1012	49,179	17,630	5,812	72,622	70,189	19,223	88,455	89,782	7,811	97,593	0	0	70,189	19,223	88,534	89,862	7,818	97,680
1013	73,420	1,503	6,518	81,441	91,554	3,214	93,754	95,160	8,279	103,439	0	0	91,554	3,214	93,838	95,245	8,286	103,531
1014	2,133	993	272	3,399	5,599	1,406	6,931	7,035	612	7,647	0	0	5,669	1,406	7,006	7,111	619	7,730
1015	150,596	401	13,137	164,134	153,662	1,109	153,114	155,411	13,521	168,932	150,596	73	168,935	1,109	168,374	170,900	14,868	185,768
1016	75,856	8,933	7,377	92,165	113,633	9,228	121,545	123,369	10,733	134,102	75,856	37	121,377	9,228	129,323	131,262	11,420	142,682
1017	81,451	0	7,086	88,537	94,457	177	93,621	95,025	8,267	103,292	0	0	94,555	177	93,802	95,209	8,283	103,492
1018	76,015	15,020	7,920	98,955	94,112	15,492	108,432	110,058	9,575	119,633	0	0	94,112	15,492	108,528	110,156	9,584	119,740
1019	6,924	5,317	1,065	13,306	7,222	5,317	12,404	12,590	1,095	13,685	0	0	7,222	5,317	12,415	12,601	1,096	13,697
1020	5,974	7,181	1,144	14,299	6,782	7,240	13,872	14,080	1,225	15,305	0	0	6,806	7,240	13,908	14,116	1,228	15,344
1021	0	145,198	12,632	157,830	0	145,198	143,644	145,798	12,684	158,483	0	0	0	145,198	143,772	145,929	12,696	158,624
1022	43,208	0	3,759	46,967	47,593	118	47,200	47,908	4,168	52,076	0	0	47,593	118	47,243	47,951	4,172	52,123
1023	21,018	37,500	5,091	63,608	27,062	39,034	65,388	66,369	5,774	72,143	0	0	27,062	39,034	65,446	66,428	5,779	72,207
1024	3,339	0	290	3,629	10,593	1,062	11,530	11,703	1,018	12,721	0	0	10,619	1,062	11,566	11,739	1,021	12,761
1025	89,590	528	7,840	97,958	125,362	3,655	127,636	129,551	11,271	140,821	0	0	125,366	3,655	127,753	129,670	11,281	140,951
1026	127,838	4,073	11,476	143,387	140,125	5,843	144,406	146,572	12,752	159,324	0	0	140,125	5,843	144,535	146,703	12,763	159,466

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
1027	0	13,675	1,190	14,864	0	13,675	13,528	13,731	1,195	14,926	0	0	0	13,675	13,540	13,744	1,196	14,939
1029	0	23,615	2,054	25,669	0	23,615	23,362	23,713	2,063	25,775	0	0	0	23,615	23,383	23,734	2,065	25,799
1030	0	42,205	3,672	45,877	0	42,795	42,337	42,972	3,739	46,710	0	0	0	42,795	42,375	43,010	3,742	46,752
1031	130,831	0	11,382	142,214	141,652	16,048	156,012	158,353	13,777	172,129	0	0	141,652	16,048	156,152	158,494	13,789	172,283
1032	0	0	0	0	255,849	4,307	257,372	261,233	22,727	283,960	0	0	255,849	4,307	257,602	261,466	22,748	284,213
1034	2,730	1,741	389	4,860	3,571	1,859	5,372	5,453	474	5,927	0	0	3,571	1,859	5,377	5,458	475	5,933
1035	42,606	55,240	8,513	106,359	50,715	56,361	105,931	107,520	9,354	116,874	42,606	21	55,024	56,361	110,292	111,946	9,739	121,685
1036	200,709	3,140	17,735	221,584	224,264	4,143	225,963	229,352	19,954	249,306	200,709	98	244,547	4,143	246,248	249,942	21,745	271,687
1037	172,229	27,389	17,367	216,985	175,708	27,507	201,040	204,056	17,753	221,808	172,229	84	193,171	27,507	218,510	221,788	19,296	241,084
1038	46,904	36,513	7,257	90,674	49,423	36,749	85,249	86,528	7,528	94,056	46,904	23	54,163	36,749	90,019	91,369	7,949	99,318
1039	154,320	11,656	14,440	180,416	157,242	12,187	167,615	170,130	14,801	184,931	154,320	75	172,837	12,187	183,207	185,955	16,178	202,133
1040	161,635	1,850	14,223	177,708	167,254	2,322	167,761	170,277	14,814	185,091	0	0	167,254	2,322	167,910	170,429	14,827	185,256
1041	0	2,831	246	3,077	0	3,775	3,734	3,790	330	4,120	0	0	0	3,775	3,738	3,794	330	4,124
1042	14,036	22,037	3,138	39,212	14,036	22,214	35,863	36,401	3,167	39,567	0	0	14,036	22,214	35,895	36,433	3,170	39,603
1043	68,126	0	5,927	74,053	75,614	531	75,331	76,460	6,652	83,113	68,126	33	82,499	531	82,215	83,448	7,260	90,708
1044	196,497	11,138	18,064	225,700	198,690	11,256	207,699	210,815	18,341	229,155	196,497	95	218,643	11,256	227,642	231,056	20,102	251,158
1047	0	851	74	925	367	910	1,263	1,282	112	1,393	0	0	416	910	1,313	1,333	116	1,448
1048	0	0	0	0	132	0	131	133	12	144	0	0	208	0	206	209	18	227
1049	0	0	0	0	3	0	3	3	0	3	0	0	3	0	3	3	0	3
1051	76,490	220	6,674	83,384	76,490	220	75,889	77,027	6,701	83,728	0	0	76,490	220	75,957	77,096	6,707	83,803
1052	0	0	0	0	1	0	1	1	0	2	0	0	1	0	1	1	0	2
1060	43,029	4,177	4,107	51,312	43,150	4,177	46,820	47,523	4,134	51,657	43,029	21	47,585	4,177	51,253	52,022	4,526	56,548
1061	65,140	8,178	6,379	79,696	72,241	9,594	80,958	82,173	7,149	89,322	0	0	72,241	9,594	81,031	82,246	7,155	89,401
1062	29,218	8,893	3,316	41,427	30,055	9,660	39,290	39,879	3,469	43,349	29,218	14	33,008	9,660	42,249	42,882	3,731	46,613
1063	3,161	14,705	1,554	19,420	4,544	15,000	19,334	19,624	1,707	21,332	3,161	2	4,936	15,000	19,740	20,037	1,743	21,780
1064	501	10,981	999	12,481	1,146	11,158	12,173	12,356	1,075	13,431	501	0	1,197	11,158	12,234	12,418	1,080	13,498
1065	55,484	4,364	5,207	65,055	55,576	4,364	59,299	60,188	5,236	65,425	0	0	55,576	4,364	59,352	60,242	5,241	65,483
1066	155,383	1,067	13,611	170,061	157,187	1,185	156,677	159,027	13,835	172,863	155,383	75	172,957	1,185	172,432	175,019	15,227	190,245

2018 Consumption (GPD)					2045 Consumption (GPD)						2100 Consumption (GPD)							
TAZ	Residential	Non-Residential	Non-Revenue	Total Potable Use	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use	Infill/ Redevelopment TAZ Use	Infill/ Redevelopment HU	Residential	Non-Residential	Subtotal after Conservation	Subtotal after Climate Change	Non-Revenue	Total Potable Use
1067	102,764	3,956	9,285	116,005	108,006	4,841	111,639	113,314	9,858	123,172	0	0	108,006	4,841	111,739	113,415	9,867	123,282
1069	0	295	26	321	80	354	429	436	38	474	0	0	80	354	430	436	38	474
1070	0	0	0	0	620	0	613	623	54	677	0	0	624	0	618	627	55	682
1072	15,337	49,390	5,631	70,358	15,882	49,390	64,573	65,542	5,702	71,244	0	0	15,961	49,390	64,709	65,679	5,714	71,393
1074	58,407	10,392	5,986	74,785	58,874	10,628	68,759	69,790	6,072	75,862	0	0	58,874	10,628	68,820	69,852	6,077	75,930
1076	71,307	5,051	6,643	83,002	73,122	6,231	78,504	79,681	6,932	86,614	0	0	73,179	6,231	78,631	79,810	6,943	86,754
1077	424,308	21,694	38,802	484,804	434,292	21,989	451,398	458,169	39,861	498,029	0	0	434,292	21,989	451,800	458,577	39,896	498,474
1078	0	0	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1
1079	58,210	759	5,130	64,099	62,360	936	62,618	63,557	5,529	69,087	0	0	62,370	936	62,684	63,624	5,535	69,160
1080	204,379	16,133	19,185	239,697	211,659	16,369	225,588	228,972	19,921	248,892	0	0	211,659	16,369	225,789	229,176	19,938	249,115
1081	148,101	12,710	13,991	174,801	153,210	12,887	164,319	166,783	14,510	181,294	0	0	153,301	12,887	164,556	167,024	14,531	181,555
1082	118,834	10,220	11,228	140,282	127,082	10,456	136,066	138,107	12,015	150,122	0	0	127,154	10,456	136,259	138,303	12,032	150,335
1083	233,152	160,462	34,244	427,858	239,808	160,639	396,161	402,103	34,983	437,086	0	0	239,808	160,639	396,514	402,462	35,014	437,476
1084	199,700	7,201	18,000	224,902	201,364	7,260	206,391	209,487	18,225	227,713	0	0	201,364	7,260	206,576	209,674	18,242	227,916
1086	0	55,478	4,827	60,304	0	55,478	54,884	55,707	4,847	60,554	0	0	0	55,478	54,933	55,757	4,851	60,608
1095	176,199	61,233	20,657	258,088	183,642	61,292	242,312	245,947	21,397	267,344	176,199	86	201,493	61,292	260,204	264,107	22,977	287,085
1096	148,094	14,859	14,177	177,129	148,422	14,859	161,533	163,956	14,264	178,220	148,094	72	163,476	14,859	176,583	179,232	15,593	194,825
1097	112,441	51	9,787	122,279	113,897	110	112,787	114,479	9,960	124,438	0	0	113,897	110	112,888	114,581	9,969	124,550
1098	191,312	35,334	19,718	246,364	194,615	35,452	227,605	231,019	20,099	251,117	191,312	93	213,973	35,452	246,976	250,681	21,809	272,490
1099	101,388	38,496	12,170	152,053	102,220	38,555	139,268	141,357	12,298	153,655	101,388	49	112,466	38,555	149,538	151,781	13,205	164,986
1100	223,136	5,983	19,933	249,053	223,339	5,983	226,868	230,271	20,034	250,304	223,136	108	245,894	5,983	249,404	253,145	22,024	275,168
1101	137,953	1,399	12,124	151,476	138,161	1,399	138,066	140,137	12,192	152,329	137,953	67	152,102	1,399	151,994	154,274	13,422	167,696
1102	156,436	5,098	14,053	175,588	156,641	5,098	160,008	162,408	14,130	176,538	156,436	76	172,454	5,098	175,808	178,445	15,525	193,970
1103	195,272	13,757	18,186	227,215	195,667	14,052	207,475	210,587	18,321	228,908	195,272	95	215,422	14,052	227,221	230,630	20,065	250,694
1104	100,399	10,528	9,651	120,577	102,391	10,528	111,711	113,386	9,865	123,251	0	0	102,479	10,528	111,897	113,576	9,881	123,457
Sum	60,890,838	20,747,272	7,102,516	88,740,626	71,348,914	25,909,477	96,217,452	97,660,714	8,496,482	106,157,196	40,785,596	19,816	79,789,907	26,213,150	104,962,118	106,536,550	9,268,680	115,805,229

Appendix D

SUPPLY / DEMAND BALANCE WITH LTSCs

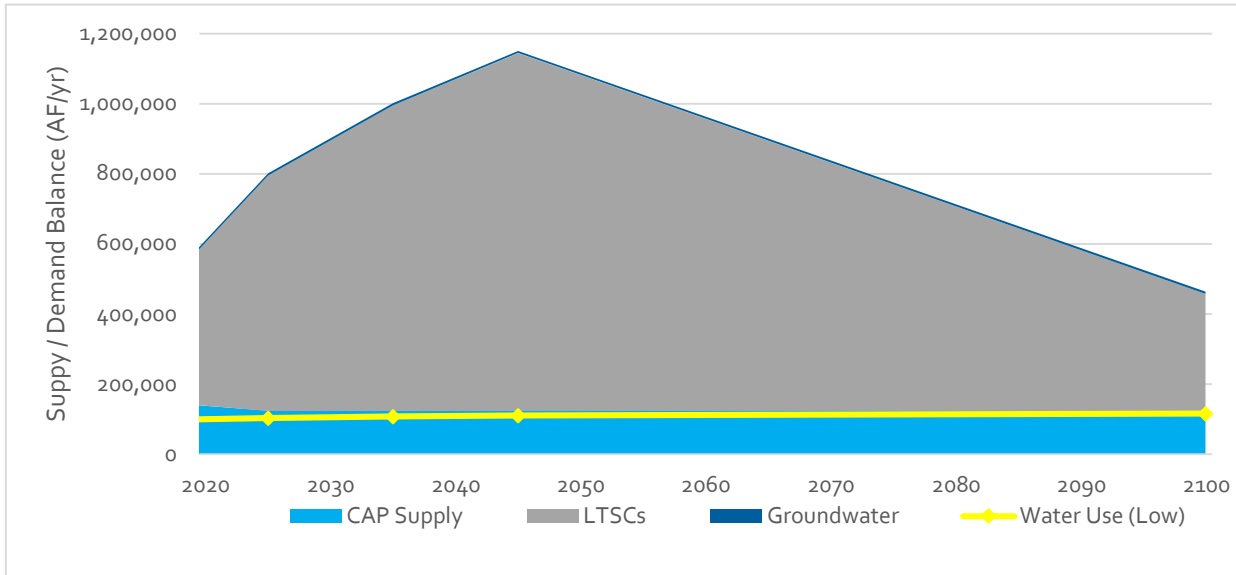


Figure D-1 Supply / Demand (Low) Balance with LTSCs (Drought Contingency Plan Tier 3)

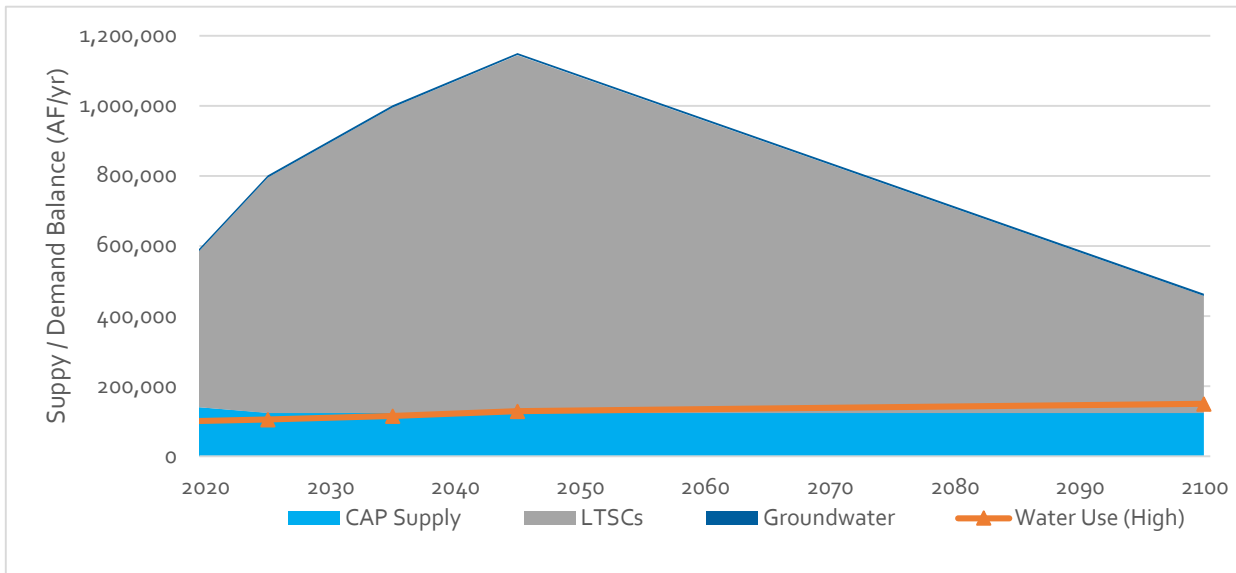


Figure D-2 Supply / Demand (High) Balance with LTSCs (Drought Contingency Plan Tier 3)