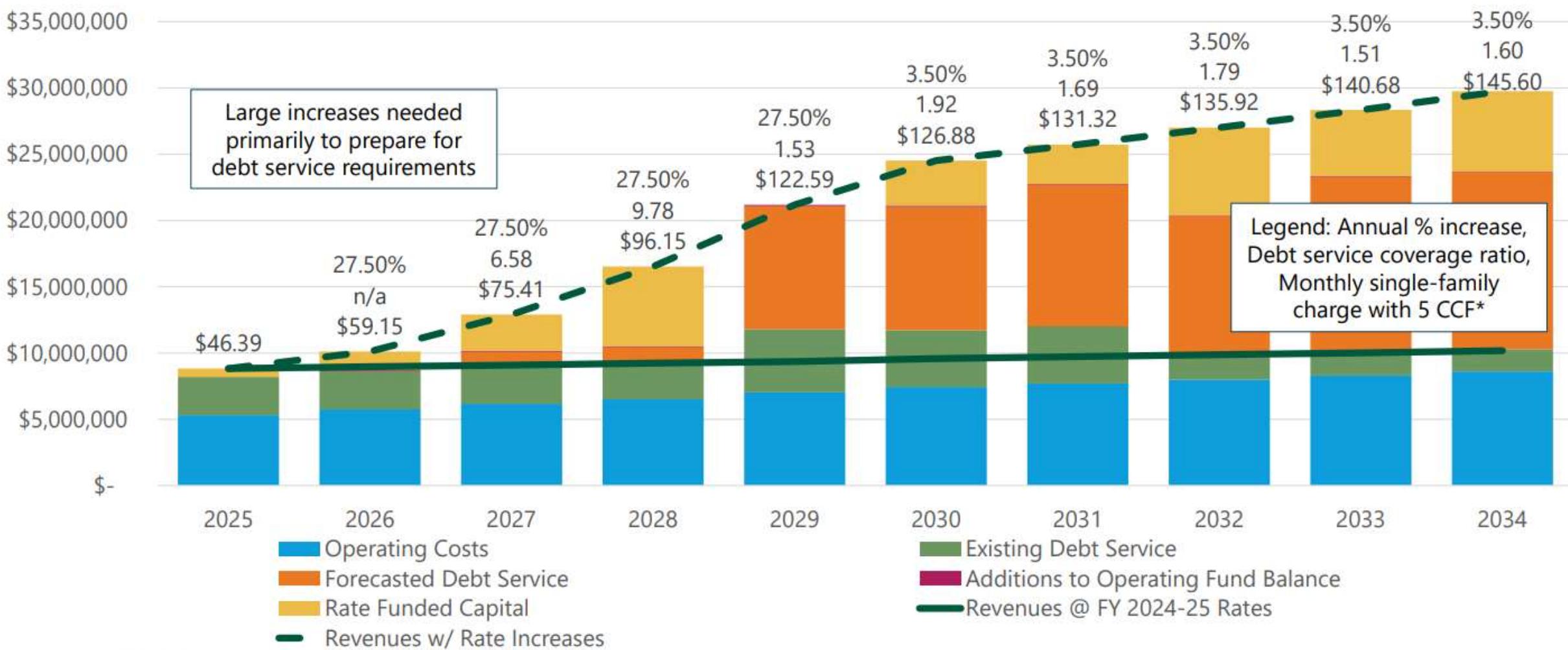




Sewer Revenue Requirement



*CCF = 100 cubic feet

3.1.1 Current and Future Population

Current and future population information for the City of Wilsonville was pulled from four different sources:

- **United States Census:** US census population estimates are typically viewed as the most accurate source of current population and are available in 10-year increments. The US Census population estimates for Wilsonville for 2010 and 2020 are 19,509 and 26,664, respectively which represents a 3.2 percent compounded growth rate over these 10 years.
- **Portland State University Population Research Center (PSU PRC):** PSU PRC provides certified population for the years between the US Census estimates. After each census is complete, PSU PRC revises their estimated populations to bring them in line with the US Census values. PSU PRC revised population data for 2010 through 2020 was not available at the time this document was prepared. Because of this, the original PSU PRC population data from 2015 to 2020 was used to estimate per capita flows and loads. The PSU PRC population estimate for 2020 is 25,915 which is 3 percent less than the US Census value for 2020.
- **Metro:** Metro is the regional government for the Portland Metropolitan area and provides population projections for the City of Wilsonville. Metro produces projections of households by Transportation Analysis Zone (TAZ). The City overlayed those TAZs



FINAL | DECEMBER 2023 | 3-1

CITY OF WILSONVILLE | WASTEWATER TREATMENT PLANT MASTER PLAN | CHAPTER 3

onto the City's wastewater service area and found those projections to be consistent with population projections that serve as the basis for recent water system and wastewater collection system master planning documents. Those prior planning efforts are described in the bullet which follows.

- **Collection System Master Plan (CSMP) (2014, MSA) / Water System Master Plan (WSMP) (2003, Keller Associates):** The 2003 WSMP estimated the buildout population to be 52,400 based on anticipated land use, dwelling units per acre and people per household. They also assumed a 2.9 percent compounded growth rate which was in line with the growth in households between 2000 and 2010 based on the US Census data. (Page 2-4, WSMP). The CSMP used this same buildout population assumption along with the assumed growth rate (Page 5-2, CSMP) and estimated that buildout would occur between the years 2044 and 2045.

2023 Wastewater
Treatment Plant Master
Plan

In projecting future residential growth and associated water demand, the WSMP relied upon historical populations and population projections documented in the City's following publications:

- 2002 Water Master Plan
- 2004 Water Management and Conservation Plan
- 2006 Transit Master Plan
- 2007 Parks Master Plan
- 2008 20-Year Look
- 2009 Transportation Plan

These previous publications assumed annual residential growth rates between 2.4% and 3.2%, with four of the documents using approximately 2.9%. Based on this information, the City elected to analyze the water system assuming an annual residential growth rate of 2.9% for both population and the number of households. This value, along with the land use and densities outlined in the WSMP anticipate that build-out conditions may be reached in the year 2045 with a population for the study area of 52,400 residents. The historic population data and population projections are presented in Table 5-1 and Figure 5-1 below.



Populations and People

Total Population

28,036

P1 | 2020 Decennial Census

(US Census Bureau accessed 12/15/25

https://data.census.gov/profile/Wilsonville_CCD,_Clackamas_County,_Oregon?g=060XX00US4100593536

Table 5-1 | Wilsonville Population Data

Year	U.S. Census Count ¹	PSU Research Center Projections ²	Water System Master Plan Projections ³	Average Annual Growth Rate
Build-Out ⁴	-	-	52,400	2.9%
2030	-	-	34,585	2.9%
2025	-	-	29,979	2.9%
2020	-	-	25,986	2.9%
2015	-	-	22,525	2.2%
2013	-	21,550	-	5.0%
2012	-	20,515	-	4.9%
2011	-	19,565	-	0.3%
2010	19,509	-	-	3.4%
2000	13,991	-	-	7.0%
1990	7,106	-	-	9.2%
1980	2,950	-	-	-

Notes:

1. United States Department of Commerce, Bureau of the Census.
2. Portland State University, College of Urban & Public Affairs, Population Research Center (April 15, 2014).
3. Water System Master Plan, City of Wilsonville (Sept. 2012).
4. Build-out is anticipated to occur between 2044 and 2045 based upon the buildable lands within study area and average annual growth of the population at a rate of 2.9%

DRAFT

13-1488

Page 5-2

Murray, Smith & Associates, Inc.

Meetings

From	To	Boards and Commissions				
Jan <input type="button" value="▼"/>	1 <input type="button" value="▼"/>	2025 <input type="button" value="▼"/>	Dec <input type="button" value="▼"/>	30 <input type="button" value="▼"/>	2025 <input type="button" value="▼"/>	-Development Review Board A <input type="button" value="▼"/>

Date	Meeting	Agendas
12/08/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled Notice
11/10/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled Notice
10/13/2025 - 6:30pm	Development Review Board Panel A	Agenda
09/08/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled Notice
08/11/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled Notice
07/14/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled
06/09/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled
05/12/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled
04/14/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled
03/10/2025 - 6:30pm	Development Review Board Panel A	Agenda
02/10/2025 - 6:30pm	Development Review Board Panel A - CANCELLED	Cancelled

Meetings

From	Jan	1	2025	To	Dec	30	2025	Boards and Commissions	-Development Review Board B
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Date	Meeting	Agendas
12/22/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
11/24/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
10/27/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
09/22/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
08/25/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
07/28/2025 - 6:30pm	Development Review Board Panel B	Agenda
06/23/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
05/29/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
04/28/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
03/24/2025 - 6:30pm	Development Review Board Panel B - CANCELLED	Cancelled Notice
02/24/2025 - 6:30pm	Development Review Board Panel B	Agenda
01/27/2025 - 6:30pm	Development Review Board Panel B	Agenda

Oregon's population declined for second year in a row, according to census data



 By **Kyra Buckley** (OPB)
Dec. 26, 2023 6 a.m.

Economists say the state's economy has long relied on workers moving to Oregon to help grow the labor force

Oregon's population went down by a little more than 6,000 people – or 0.1% – from July 2022 to July 2023, according to census data released Tuesday. Stretching back to 2021, overall census numbers estimate the state's population went down by 0.5%, or about 23,000 people.

Census data released Thursday shows Oregon's population grew by a modest 18,718 to 4.27 million people from July 2023 to July 2024. Researchers at Portland State had similar findings but estimated the population only grew by 13,358. Both figures represent an increase of less than 0.5%.

Oregon's population is growing, but at a slower pace than past decades



 By **Kyra Buckley** (OPB)
Dec. 10, 2024 5:05 p.m.

US Census data released Thursday shows Oregon's population grew by a modest 18,718 from July 2023 to July 2024

Table ES.6 WWTP CIP - Recommended Alternative Opinion of Probable Cost and Phasing

Plant Area	Project ⁽¹⁾	Opinion of Probable Cost ⁽²⁾	Approximate Year Online
Solids Handling	Dewatering Performance Optimization	\$150,000	2025
Communications/IT	Fiber Optic Cable Addition	\$60,000	2025
UV System	Backup UV System Improvement	\$1,705,000	2026
Support Buildings	Seismic Improvements	\$1,082,000	2026
Support Buildings	Geotechnical Foundation Mitigation	\$2,000,000	2026
Secondary Treatment	New Conventional Aeration Basin and Blower	\$10,222,000	2027 ⁽³⁾
Secondary Treatment	New Secondary Clarifier Mechanisms	\$1,775,000	2027
Secondary Treatment	New MBR, Blowers and Fine Screens (Phase 1)	\$69,727,000	2031
Solids Handling	Solids Dryer Improvement	\$17,130,000 ⁽⁷⁾	2033
Solids Handling	Existing Centrifuge and GBT Replacement	\$3,701,000 ^(4,6)	2033 ⁽⁵⁾
Cooling Towers	New Effluent Cooling Tower	\$642,000	2036
Secondary Treatment	Additional MBR and Blower Capacity (Phase 2)	\$2,330,000	2039
UV System	UV Equipment Replacement	\$2,571,000	2040
Outfall	Outfall Improvements	\$1,244,000	2040
Secondary Treatment	Additional MBR and Blower Capacity (Phase 3)	\$8,117,000	2044
TOTAL		\$122,456,000	

7.2 Summary

Table 7.1 summarizes the upgrades required through the planning period. As shown in Table 7.1, within the planning period (through 2045) increased capacity will be needed in the secondary treatment process, specifically additional process volume in the form of a new aeration basin as well as aeration blower capacity and intensification utilizing membrane bioreactor technology. Within the next five years, Secondary Clarifiers Number (No.) 1 and No. 2 will require new mechanisms. Table 7.1 also identifies replacement of aging equipment or equipment that has not been performing as desired.

Table 7.1 Recommended Plan Through the Year 2045

Unit Process	Upgrade	Year Upgrade Required	Trigger
Aeration Basins and Blowers	New Aeration Basin and Blower	2027	Capacity
Secondary Clarifiers	New Mechanisms	2027	Condition
Secondary Treatment	New MBR and Support Facilities	2031, 2039, 2044	Capacity
Disinfection	Replace Standby UV Equipment Replace UV System Equipment	2025, 2040	Condition
Outfall	Outfall Improvements	2040	Capacity
Effluent Cooling Tower	New Cooling Tower	2036	Capacity
WAS Thickening/Storage, TWAS Storage, Dewatering Centrifuges	Dewatering Performance Optimization	2025	Condition
Dewatering and Thickening ⁽¹⁾	Replace Centrifuge and GBT Equipment	2033	Condition
Biosolids Drying ⁽²⁾	Replace Dryer Equipment	2031	Condition
Communication/IT	Fiber Optic Cable Addition	2025	Condition
Support Buildings	Seismic Improvements	2026	Condition
Support Buildings	Geotechnical Foundation Mitigation	2026	Condition

Capacity Projects Included

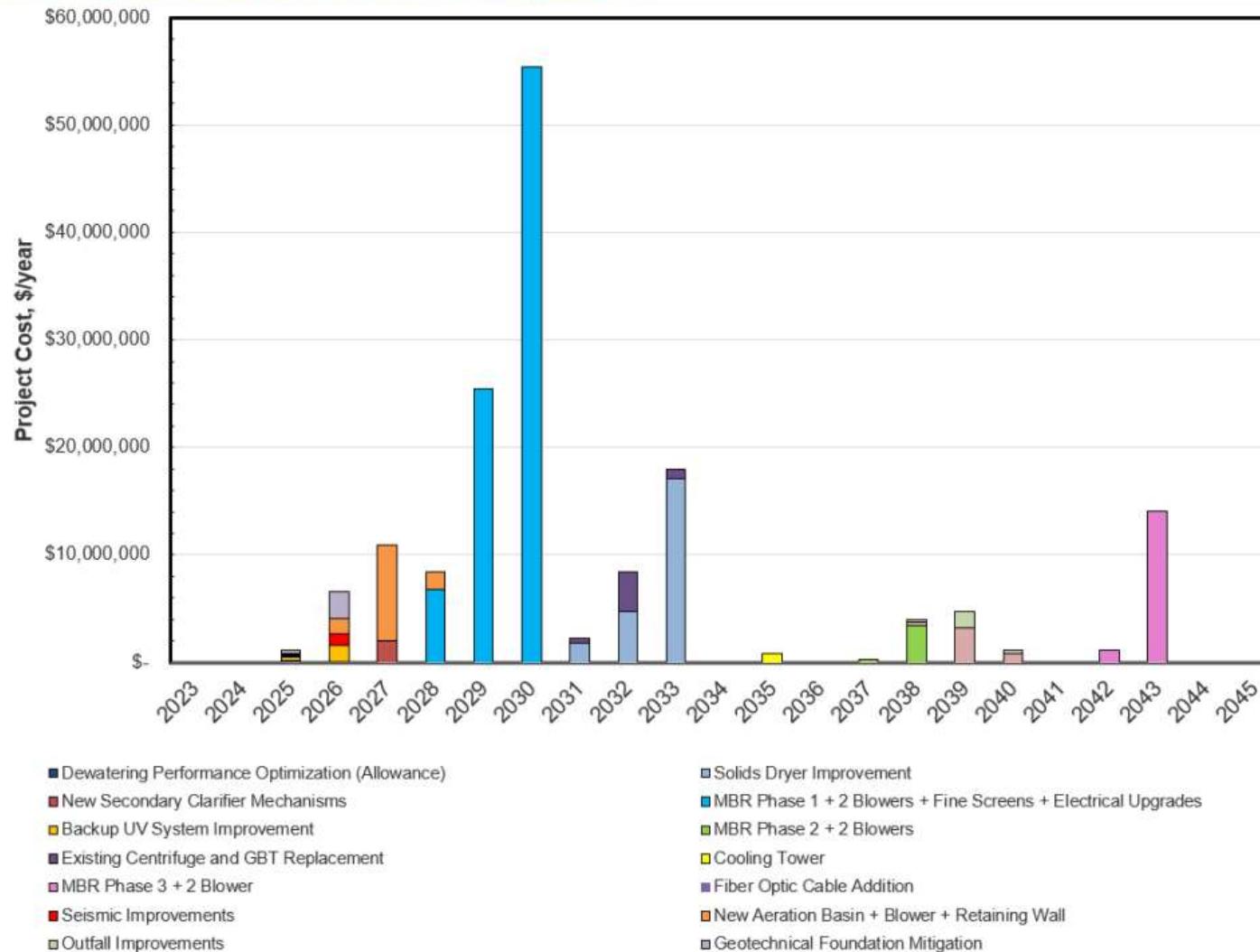


Figure ES.7 Projected 20-Year CIP Expenditures

Capacity Projects Removed

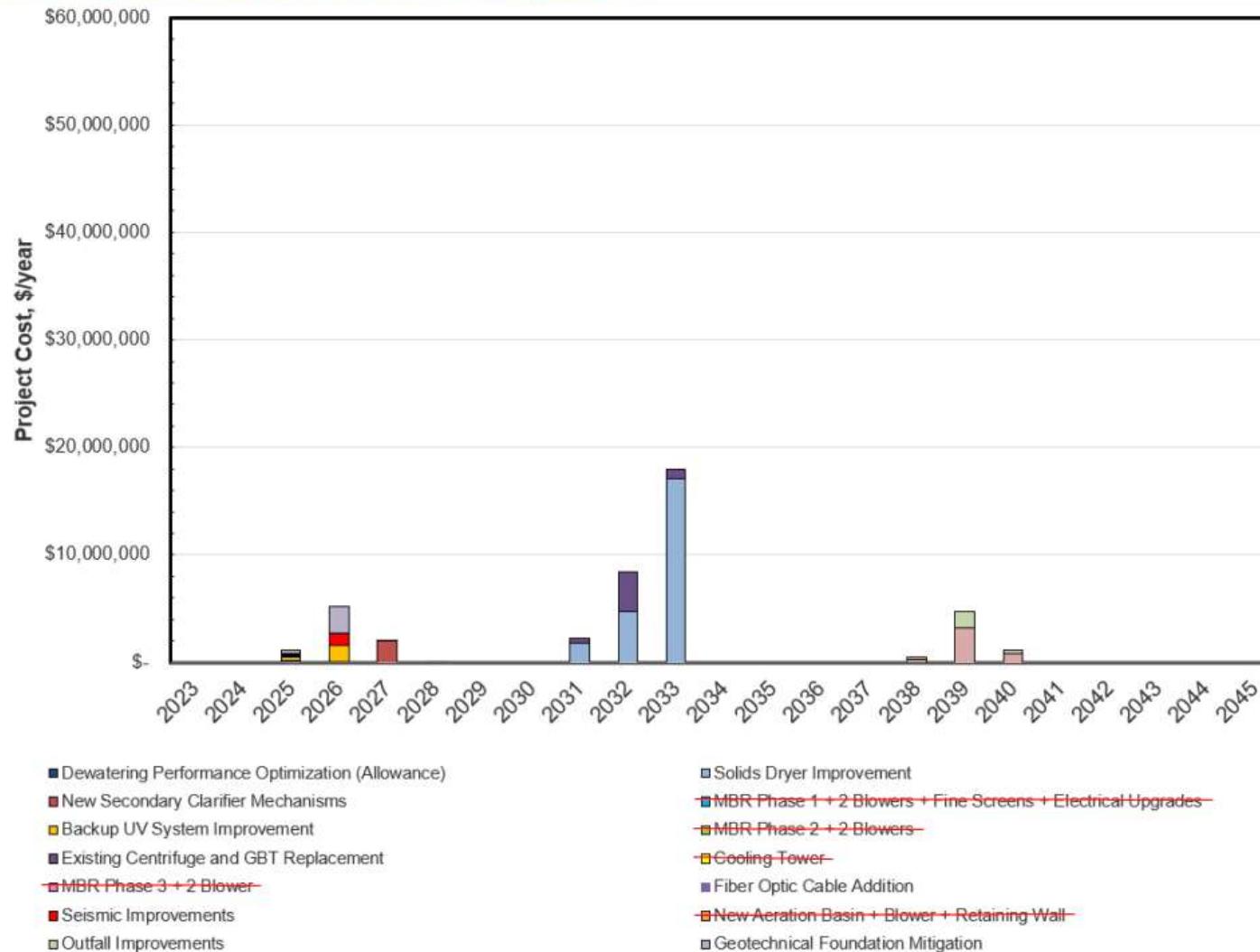


Figure ES.7 Projected 20-Year CIP Expenditures

Capacity Projects Included

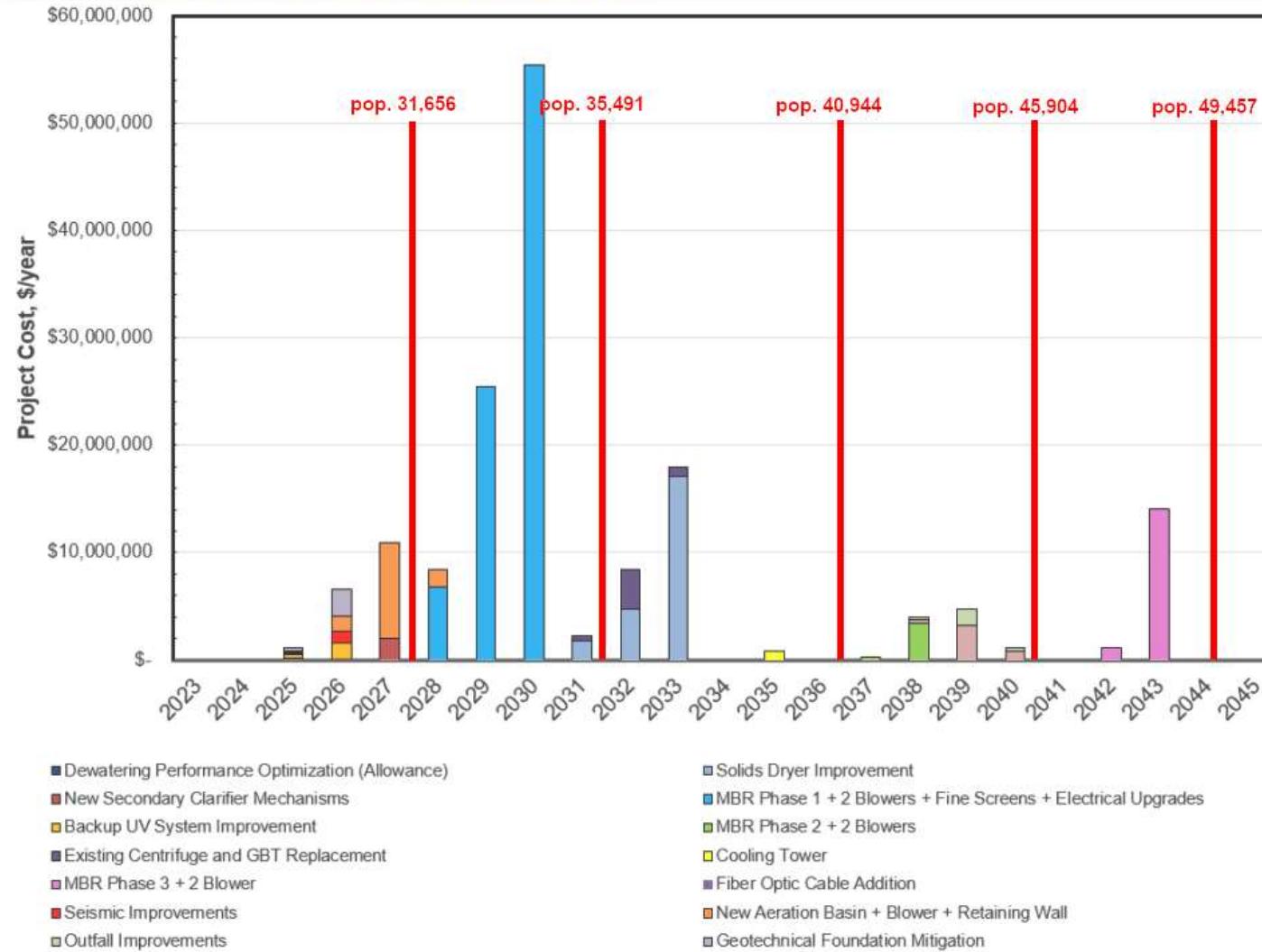


Figure ES.7 Projected 20-Year CIP Expenditures

Capacity Projects Included

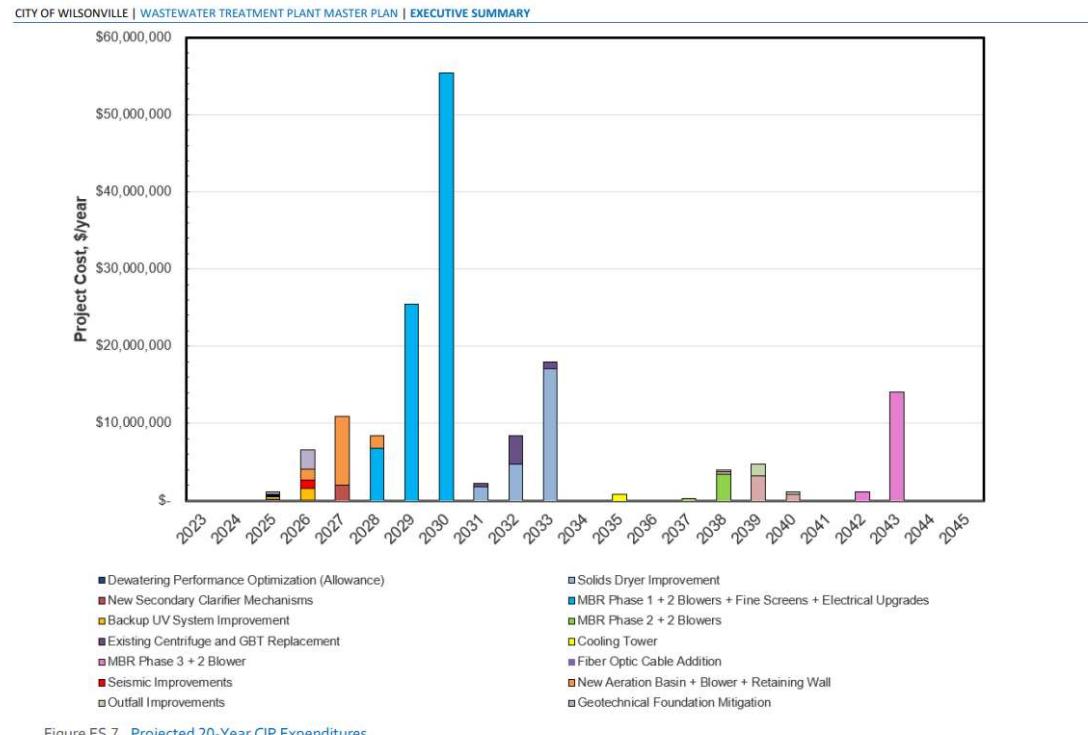


Figure ES.7 Projected 20-Year CIP Expenditures

Capacity Projects Removed

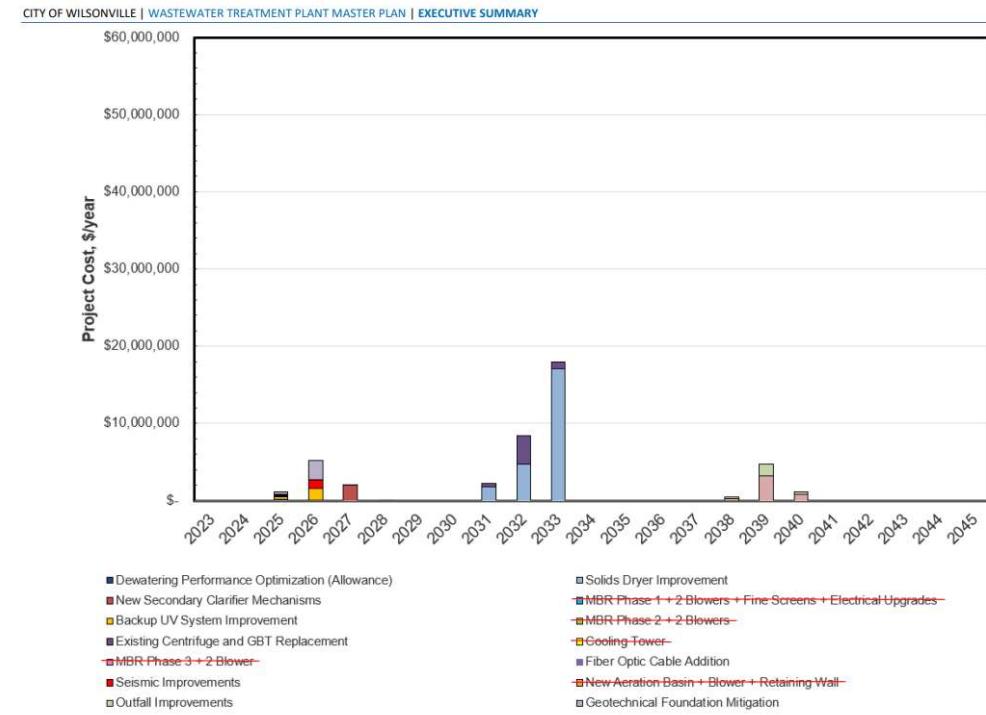


Figure ES.7 Projected 20-Year CIP Expenditures

Capacity Projects Included

pop. graph overlay

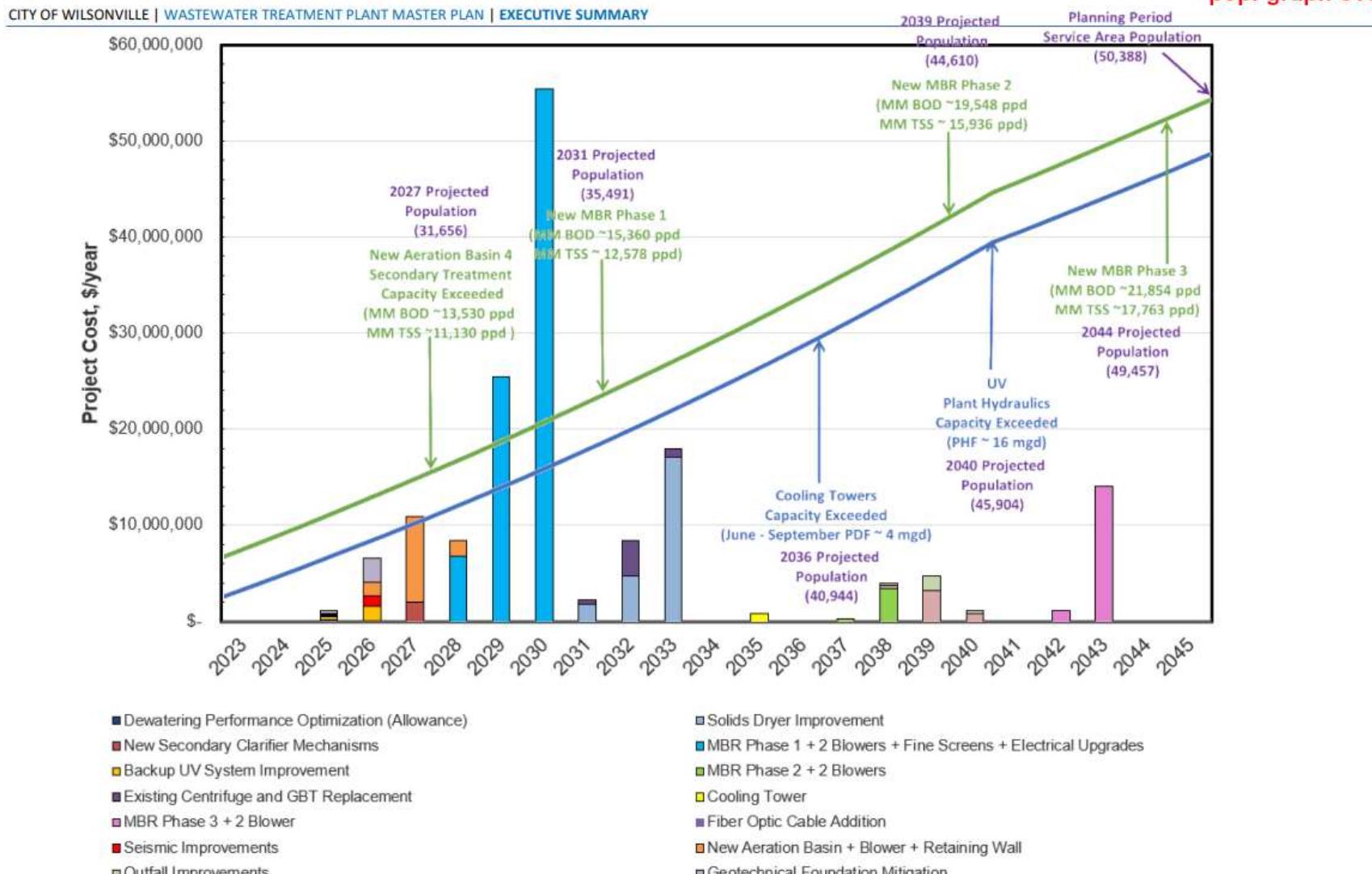


Figure ES.7 Projected 20-Year CIP Expenditures