Capital Improvement Plan (CIP) Water

San Antonio Water System

Capital Improvements Advisory Committee

December 13, 2023



Water Delivery – Flow

Impact Fee Components



Water Supply



Water Delivery System Development



Water Delivery



Wastewater Collection



Wastewater Treatment

Impact Fee Calculation

Calculated Impact Fee = $\frac{Cost \ of \ Eligible \ CIP}{Added \ EDUs}$

- LUAP provides number of added EDUs
- CIP provides cost of eligible capital improvements
 - Extensions and expansions
 - Pipeline upsizing
- Study period for LUAP and CIP is 10 years
 - How many EDUs are expected to be added in 10-year study period?
 - What is the cost of the capacity that is required to serve these added EDUs?

Water Delivery / Flow Equity Value

Existing distribution system value is \$819,254,069

- Valuation method is Original Cost (OC)
- Value is not depreciated
- Value excludes contributed assets and water mains less than or equal to 8"
- 16% increase from 2018 study

Allocation of Water Delivery / Flow Equity to Impact Fee

Allocation is based on maximum hour demand (MHD):

- 2024 EDUs is 870,480; projected 2033 EDUs is 1,031,510
- Average day demand (ADD) is 290 gpd per EDU
- Maximum hour peaking factor (MHPF) is 3.02
- MHD = ADD * MHPF * EDUs
- 2024 MHD = 290 gpd * 3.02 * 870,480 = 762.4 mgd
- 2033 MHD = 290 gpd * 3.02 * 1,031,510 = 903.4 mgd

Allocation of Water Delivery / Flow Equity to Impact Fee

Water distribution system is assumed to be maintained at 90% capacity

- 2024 MHD = 762.4 mgd
- 2024 $Capacity = \frac{762.4 \, mgd}{90\%} = 847.1 \, mgd$

Unused portion of Water Delivery / Flow assets is allocated to impact fee calculation

• Allocation =
$$\frac{2024 \, Capacity - 2024 \, MHD}{2024 \, Capacity}$$

$$Allocation = 847.1 \, mgd - 762.4 \, mgd$$

• Allocation =
$$\frac{847.1 \, mgd - 762.4 \, mgd}{847.1 \, mgd} = 10\%$$

Allocation of Water Delivery / Flow CIP to Impact Fee

Water distribution system is assumed to be maintained at 90% capacity

- $2024 \ Capacity = 847.1 \ mgd$
- 2033 MHD = 903.4 mgd
- 2033 $Capacity = \frac{903.4 \, mgd}{90\%} = 1,003.8 \, mgd$

Capacity required to serve 2033 MHD:

• Allocation =
$$\frac{2033 \, MHD - 2024 \, Capacity}{2033 \, Capacity - 2024 \, Capacity}$$

• Allocation =
$$\frac{903.4 \, mgd - 847.1 \, mgd}{1,003.8 \, mgd - 847.1 \, mgd} = 36\%$$

Water Delivery / Flow CIP – Eligible Value

Description	Total Cost	Eligible %	Eligible Cost*
Existing Assets	\$ 819,254,069	10.0%	\$ 81,925,407
CIP Projects	\$ 381,538,778	35.9%	\$ 137,134,935
TOTAL	\$ 1,200,792,847	18.2%	\$ 219,060,342

^{*} Costs shown do not include financing charges.

Questions?



Water Delivery – System Development

Impact Fee Components

Wastewater

Collection



Water Supply



Water Delivery System Development



Wastewater **Treatment**



Water Delivery Flow

Allocation of Water Delivery / System Development / Pump Stations Value to Impact Fee

Total available capacity for Low Service Area is 122.4 mgd

- $2024 \ Capacity = 554.8 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 MHD
- Existing Available Capacity = 554.8 mgd 470.5 mgd = 84.3 mgd
- Future CIP Capacity = 38.1 mgd
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 84.3 mgd + 38.1 mgd = 122.4 mgd

Impact fee eligible allocation for Low Service Area is 65%

• Allocation =
$$\frac{Study\ Period\ Demand}{Total\ Available\ Capacity}$$

• Allocation =
$$\frac{79.3 \, mgd}{122.4 \, mgd}$$
 = **64.8**%

Allocation is based on TCEQ requirements

- TCEQ requires minimum 100 gallons per connection of EST capacity, but WIP may recommend a higher minimum for each service area
- 1 connection = 1.54 EDUs
- EST Capacity Requirement = Minimum gal/conn * $\frac{No. EDUs}{1.54}$
- *Study Period Requirement* = 2033 EST Capacity Requirement -2024 EST Capacity Requirement

High Service Area Study Period Requirement

- 2024 EST Capacity Requirement = $298 \frac{gal}{} * \frac{30,602 EDU}{}$ conn 5.9 MG
- 2033 EST Capacity Requirement = $298 \frac{gal}{} * \frac{42,566 EDU}{} =$ 8.2 *MG*
- Study Period Requirement = 8.2 MG 5.9 MG = 2.3 MG

Total available capacity for High Service Area is 11.0 MG

- $2024 \ Capacity = 16.9 \ MG$
- Existing Available Capacity = 2024 Capacity 2024 EST Capacity Requirement
- Existing Available Capacity = 16.9 MG 5.9 MG = 11.0 MG
- Future CIP Capacity = 0.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 11.0 MG + 0.0 MG = 11.0 MG

Impact fee eligible allocation for High Service Area is 21%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{2.3 MG}{11.0 MG}$ = 21.1%

Middle Service Area Study Period Requirement

- 2024 EST Capacity Requirement = $196 \frac{gal}{} * \frac{302,617 EDU}{} =$ 38.5 *MG*
- 2033 EST Capacity Requirement = $196 \frac{gal}{} * \frac{361,209 EDU}{} =$ 46.0 *MG*
- Study Period Requirement = 46.0 MG 38.5 MG = 7.5 MG

Total available capacity for Middle Service Area is 35.3 MG

- $2024 \ Capacity = 59.3 \ MG$
- Existing Available Capacity = 2024 Capacity -2024 EST Capacity Requirement
- Existing Available Capacity = 59.3 MG 38.5 MG = 20.8 MG
- Future CIP Capacity = 14.5 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 20.8 MG + 14.5 MG = 35.3 MG

Impact fee eligible allocation for Middle Service Area is 21%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{7.5 MG}{35.3 MG}$ = 21.1%

Low Service Area Study Period Requirement

- 2024 EST Capacity Requirement = $142 \frac{gal}{}$ * $\frac{537,262 \, EDU}{} = 49.5 \, MG$
- 2033 EST Capacity Requirement = $142 \frac{gal}{}$ * $\frac{627,735 EDU}{} = 57.9 MG$
- Study Period Requirement = 57.9 MG 49.5 MG =8.4 *MG*

Total available capacity for Low Service Area is 12.7 MG

- $2024 \ Capacity = 54.7 \ MG$
- Existing Available Capacity = 2024 Capacity 2024 EST Capacity Requirement
- Existing Available Capacity = 54.7 MG 49.5 MG = 5.2 MG
- Future CIP Capacity = 7.5 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 5.2 MG + 7.5 MG = 12.7 MG

Impact fee eligible allocation for Low Service Area is 66%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{8.4 \, \text{MG}}{13.7 \, \text{MG}} = 65.9\%$

Allocation is based on TCEQ requirements

- TCEQ requires minimum 200 gallons per connection of total storage capacity, but WIP may recommend a higher minimum for each service area
- 1 connection = 1.54 EDUs
- GST Capacity Requirement = Minimum gal/conn * $\frac{No. EDUs}{1.54}$
- Study Period Requirement =
 2033 GST Capacity Requirement 2024 GST Capacity Requirement

High Service Area Study Period Requirement

- 2024 GST Capacity Requirement = $4\frac{gal}{gal} * \frac{30,602 EDU}{154} =$ 0.08 MG
- 2033 GST Capacity Requirement = $4^{\frac{gal}{m}} * \frac{42,566 EDU}{m} =$ 0.11 MG
- Study Period Requirement = 0.11 MG 0.08 MG =0.03 MG

Total available capacity for High Service Area is 21.3 MG

- $2024 \ Capacity = 17.4 \ MG$
- Existing Available Capacity = 2024 Capacity 2024 GST Capacity Requirement
- Existing Available Capacity = 17.4 MG 0.08 MG = 17.3 MG
- Future CIP Capacity = 4.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 17.3 MG + 4.0 MG = 21.3 MG

Impact fee eligible allocation for High Service Area is 0.1%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{0.03 \ MG}{21.3 \ MG}$ = **0.1**%

Middle Service Area Study Period Requirement

- 2024 GST Capacity Requirement = $4 \frac{gal}{} * \frac{302,617 EDU}{} =$ 0.8 MG
- 2033 GST Capacity Requirement = $4\frac{gal}{conn} * \frac{361,209 EDU}{1.54} =$ 0.9 MG
- Study Period Requirement = 0.9 MG 0.8 MG = 0.1 MG

Total available capacity for Middle Service Area is 140.3 MG

- $2024 \ Capacity = 130.1 \ MG$
- Existing Available Capacity = 2024 Capacity -2024 GST Capacity Requirement
- Existing Available Capacity = 130.1 MG 0.8 MG = 129.3 MG
- Future CIP Capacity = 11.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 129.3 MG + 11.0 MG = 140.3 MG

Impact fee eligible allocation for Middle Service Area is 0.1%

$$\bullet \ Allocation = \frac{\textit{Study Period Requirement}}{\textit{Total Available Capacity}}$$

• Allocation =
$$\frac{0.1 \, MG}{140.3 \, MG} = 0.1\%$$

Low Service Area Study Period Requirement

- 2024 GST Capacity Requirement = $58\frac{gal}{}*\frac{537,262 EDU}{}=$ 20.2 MG
- 2033 GST Capacity Requirement = $58 \frac{gal}{} * \frac{627,735 EDU}{} =$ 23.6 *MG*
- Study Period Requirement = 23.6 MG 20.2 MG = 3.4 MG

Total available capacity for Low Service Area is 125.5 MG

- $2024 \ Capacity = 139.2 \ MG$
- Existing Available Capacity = 2024 Capacity -2024 GST Capacity Requirement
- Existing Available Capacity = 139.2 MG 20.2 MG = 119.0 MG
- Future CIP Capacity = 6.5 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 119.0 MG + 6.5 MG = 125.5 MG

Impact fee eligible allocation for Low Service Area is 3%

• Allocation =
$$\frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$$

• Allocation =
$$\frac{3.4 \, MG}{125.5 \, MG}$$
 = 2.7%

Allocation of Water Delivery / System Development / Well Pumps Value to Impact Fee

Total available capacity for Service Area is 497.4 mgd

- $2024 \ Capacity = 879.4 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 MDD
- Existing Available Capacity = 879.4 mgd 414.0 mgd = 465.4 mgd
- Future CIP Capacity = 32.0 mgd
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 465.4 mgd + 32.0 mgd = 497.4 mgd

Impact fee eligible allocation for Service Area is 15%

•
$$Allocation = \frac{Study\ Period\ Demand}{Total\ Available\ Capacity}$$

• Allocation =
$$\frac{76.6 \, mgd}{497.4 \, mgd}$$
 = 15.4%

Water Delivery / System Development CIP – Eligible Value

Component	Service Area	Total Cost	Eligible %	Eligible Cost*
Pump Stations	High	\$ 68,291,890	17.9%	\$ 12,209,219
	Middle	208,499,032	18.6%	38,853,826
	Low	97,033,569	64.8%	62,848,060
Ground Storage	High	20,578,191	0.1%	30,036
	Middle	90,711,225	0.1%	98,359
	Low	72,948,505	2.7%	1,980,792
Elevated Storage	High	9,977,215	21.1%	2,101,626
	Middle	103,385,279	21.1%	21,821,641
	Low	49,586,409	65.9%	32,674,334
Well Pumps	All	158,663,891	15.4%	24,432,201
Transmission	High	41,785,984	17.9%	7,470,495
	Middle	238,767,528	18.6%	44,494,364
	Low	48,910,103	64.8%	31,678,780
TOTAL		\$ 1,209,138,820		\$ 280,693,731

^{*}Costs shown do not include financing charges

Questions?



Capital Improvement Plan (CIP) Wastewater Treatment

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Impact Fee Calculation

Cost of Eligible CIP Calculated Impact Fee = Added EDUs

- LUAP provides number of added EDUs
- CIP provides cost of eligible capital improvements
 - Extensions and expansions
 - Pipeline upsizing
- Study period for LUAP and CIP is 10 years
 - How many EDUs are expected to be added in 10-year study period?
 - What is the cost of the capacity that is required to serve these added EDUs?

Impact Fee Components



Water Supply



Water Delivery System Development



Water Delivery Flow



Wastewater Collection



Treatment

Wastewater Treatment Value

Existing value of treatment facilities is \$515,911,413

- Valuation method is Original Cost (OC)
- Value is not depreciated
- Value excludes contributed assets
- 10% increase from 2018 study

Value of treatment CIP projects is \$538,523,997

- Value is in 2023 dollars
- Value does not include financing costs

Allocation of Wastewater Treatment Value to Impact Fee

Allocation is based on average daily flow (ADF)

- 1 WW EDU (2033) = 200 gpd
- ADF = No. of EDUs * 200 gpd
- $Study\ Period\ Demand = 2033\ ADF 2024\ ADF$

Allocation of Wastewater Treatment Value to Impact Fee

Medio Creek Service Area Study Period Requirement

- 2024 ADF = 10.2 mgd
- 2033 ADF = 15.1 mgd
- Study Period Demand = 15.1 mgd 10.2 mgd = 4.9 mgd

Allocation of Wastewater Treatment Value to Impact Fee

Impact fee eligible allocation for Medio Creek Service Area equity is 30.9%

- $2024 \ Capacity = 16.0 \ mgd$
- Existing Available Capacity = 2024 capacity 2024 ADF
- Existing Available Capacity = 16.0 mgd 10.2 mgd = 5.8 mgd
- Is existing available capacity greater than study period demand? **Yes**
 - $5.8 \, mgd > 4.9 \, mgd$
- $Allocation = \frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{4.9 \, mgd}{16.0 \, mgd}$ = **30.9**%

Impact fee eligible allocation for Medio Creek Service Area CIP is 30.9%

- Future CIP Cost = \$35,072,267
- Eligibility of CIP is determined for each project based on portion of project that will be used by study period growth
- Eligible CIP Cost = \$10,841,715 or 30.9%

Allocation of Wastewater Treatment Value to Impact Fee

Leon Creek / SM Clouse Service Area Study Period Requirement

- 2024 ADF = 134.0 mgd
- 2033 ADF = 158.6 mgd
- Study Period Demand = $158.6 \, mgd 134.0 \, mgd = 24.6 \, mgd$

Allocation of Wastewater Treatment Value to Impact Fee

Impact fee eligible allocation for Leon Creek / SM Clouse Service Area equity is 14.4%

- •2024 $Capacity = 171.0 \, mgd$
- •Existing Available Capacity = 2024 Capacity 2024 ADF
- Existing Available Capacity = 171.0 mgd 134.0 mgd = 37.0 mgd
- •Is existing available capacity greater than study period demand? Yes
- •37.0 $mg > 24.6 \, mgd$
- Allocation = $\frac{\text{Study Period Demand}}{2024 \ \text{Capacity}}$
- *Allocation* = $\frac{24.6 \, mgd}{171.0 \, mgd}$ = **14.4**%

Impact fee eligible allocation for Leon Creek / SM Clouse Service Area CIP is 14.4%

- Future CIP Cost = \$503,451,730
- •Eligibility of CIP is determined for each project based on portion of project that will be used by study period growth
- *Eligible CIP Cost* = \$72,660,745 or 14.4%

Wastewater Treatment CIP – Eligible Value

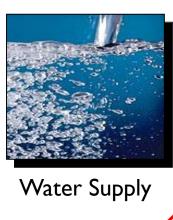
Service Area	Equity Value	Equity Eligible %	CIP Value	CIP Eligible %	Eligible Cost*
Medio Creek	\$ 70,381,144	30.9%	\$ 35,072,267	30.9%	\$ 32,598,286
Leon Creek / Clouse	445,530,269	14.4%	503,451,730	14.4%	136,961,966
TOTAL	\$ 515,911,413	16.7%	\$ 538,523,997	15.5%	\$ 169,560,252

^{*} Costs shown do not include financing charges.

Questions?



Impact Fee Components







Water Delivery System Development



Wastewater **Treatment**



Water Delivery Flow

Wastewater Collection Value

Existing value of collection system is \$1,043,737,858

- Valuation method is Original Cost (OC)
- Value is not depreciated
- Value excludes contributed assets
- 48% increase from 2018 study

Value of collection system CIP projects is \$477,894,506

- Value is in 2023 dollars
- Value does not include financing costs

Allocation is based on wet weather peak flow (WWPF)

- 1 WW EDU = 650 gpd
- PWWF = No. of EDUs * 650 gpd
- $Study\ Period\ Demand = 2033\ PWWF 2024\ PWWF$

Medio Creek Service Area Study Period Requirement

- 2024 PWWF = 56,533 EDUs * 650 gpd = 36.7 mgd
- 2033 PWWF = 81,263 EDUs * 650 gpd = 52.8 mgd
- Study Period Demand = 52.8 mgd 36.7 mgd = 16.1 mgd

Impact fee eligible allocation for Medio Creek Service Area equity is 29.6 %

- $2024 \ Capacity = 56,533 \ EDUs \ or 54.3 \ mgd$
- Existing Available Capacity = 2024 Capacity 2023 PWWF
- Existing Available Capacity = 54.3 mgd 36.7 mgd = 17.5 mgd
- Is existing available capacity greater than study period demand? **Yes**
 - $17.5 \, mgd > 16.1 \, mgd$
- Allocation = $\frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{16.1 \, mgd}{54.3 \, mgd}$ = 29.6%

Impact fee eligible allocation for Medio Creek Service Area CIP is 44.7%

- Future CIP Cost = \$65,921,781
- Eligibility of CIP is determined for each project based on modeled demands
- Eligible CIP Cost = \$29,434,371 or 44.7%

Upper Medina Service Area Study Period Requirement

- 2024 PWWF = 33,231 EDUs * 650 gpd = 21.6 mgd
- 2033 PWWF = 59,225 EDUs * 650 gpd = 38.5 mgd
- Study Period Demand = 38.5 mgd 21.6 mgd = 16.9 mgd

Impact fee eligible allocation for Upper Medina Service Area equity is 36.1%

- $2024 \ Capacity = 46.8 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 PWWF
- Existing Available Capacity = 46.8 mgd 21.6 mgd = 25.2 mgd
- Is existing available capacity greater than study period demand? **Yes**
 - $25.2 \, mgd > 16.9 \, mgd$
- Allocation = $\frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{16.9 \, mgd}{46.8 \, mgd}$ = **36.1**%

Impact fee eligible allocation for Upper Medina Service Area CIP is 33.2%

- Future CIP Cost = \$21,827,278
- Eligibility of CIP is determined for each project based on modeled demands
- Eligible CIP Cost = \$7,237,488 or 33.2%

Lower Medina Service Area Study Period Requirement

- 2024 PWWF = 8,429 EDUs * 650 gpd = 27.1 mgd
- 2033 PWWF = 16,437 EDUs * 650 gpd = 49.2 mgd
- Study Period Demand = $49.2 \, mgd 27.1 \, mgd = 22.1 \, mgd$

^{*} Number of EDUs includes Upper Medina service area EDUs because they flow through the Lower Medina service area.

Impact fee eligible allocation for Lower Medina Service Area equity is 31.8%

- $2024 \ Capacity = 69.5 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 PWWF
- Existing Available Capacity = $69.5 \, mgd 27.1 \, mgd = 42.4 \, mgd$
- Is existing available capacity greater than study period demand? Yes
 - $42.4 \, mgd > 22.1 \, mgd$
- Allocation = $\frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{22.1 \, mgd}{69.5 \, mgd}$ = 31.8%

Impact fee eligible allocation for Lower Medina Service Area CIP is 15.4%

- Future CIP Cost = \$24,188,969
- Eligibility of CIP is determined for each project based on modeled demands
- Eligible CIP Cost = \$3,723,471 or 15.4%

Upper Collection Service Area Study Period Requirement

- 2024 PWWF = 205,757 EDUs * 650 gpd = 133.7 mgd
- 2033 PWWF = 239,304 EDUs * 650 gpd = 155.5 mgd
- Study Period Demand = 155.5 mgd 133.7 mgd = 21.8 mgd

Impact fee eligible allocation for Upper Collection Service Area equity is 11.1%

- $2024 \ Capacity = 195.8 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 PWWF
- Existing Available Capacity = $195.8 \, mgd 133.7 \, mgd = 62.1 \, mgd$
- Is existing available capacity greater than study period demand? **Yes**
 - $62.1 \, mgd > 21.8 \, mgd$
- Allocation = $\frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{21.8 \, mgd}{195.8 \, mgd}$ = 11.1%

Impact fee eligible allocation for Upper Collection Service Area CIP is 33.8%

- Future CIP Cost = \$99,106,923
- Eligibility of CIP is determined for each project based on modeled demands
- Eligible CIP Cost = \$33,536,316 or 33.8%

Middle Collection Service Area Study Period Requirement

- 2024 PWWF = 253,500 EDUs * 650 gpd = 298.5 mgd
- 2033 PWWF = 259,781 EDUs * 650 gpd = 324.4 mgd
- Study Period Demand = $324.4 \, mgd 298.5 \, mgd = 25.9 \, mgd$

^{*} Number of EDUs includes Upper Collection service area EDUs because they flow through the Middle Collection service area.

Impact fee eligible allocation for Middle Collection Service Area equity is 7.1%

- $2024 \ Capacity = 363.5 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 PWWF
- Existing Available Capacity = $363.5 \, mgd 298.5 \, mgd = 65.0 \, mgd$
- Is existing available capacity greater than study period demand? Yes
 - $65.0 \, mgd > 25.9 \, mgd$
- Allocation = $\frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{25.9 \text{ mgd}}{363.5 \text{ mgd}}$ = 7.1%

Impact fee eligible allocation for Middle Collection Service Area CIP is 26.5%

- Future CIP Cost = \$152,309,178
- Eligibility of CIP is determined for each project based on modeled demands
- Eligible CIP Cost = \$40,334,946 or 26.5%

Lower Collection Service Area Study Period Requirement

- 2024 PWWF = 243,296 EDUs * 650 gpd = 456.7 mgd
- 2033 PWWF = 292,864 EDUs * 650 gpd = 514.8 mgd
- Study Period Demand = 514.8 mgd 456.7 mgd = 58.1 mgd

^{*} Number of EDUs includes Upper Collection and Middle Collection service areas EDUs because they flow through the Lower Collection service area.

Impact fee eligible allocation for Lower Collection Service Area equity is 10.6%

- $2024 \ Capacity = 547.8 \ mgd$
- Existing Available Capacity = 2024 Capacity 2024 PWWF
- Existing Available Capacity = $547.8 \, mgd 456.7 \, mgd = 91.2 \, mgd$
- Is existing available capacity greater than study period demand? Yes
 - $91.2 \, mgd > 58.1 \, mgd$
- Allocation = $\frac{Study\ Period\ Demand}{2024\ Capacity}$
- Allocation = $\frac{58.1 \, mgd}{547.8 \, mgd}$ = 10.6%

Impact fee eligible allocation for Lower Collection Service Area CIP is 54.3%

- Future CIP Cost = \$114,540,377
- Eligibility of CIP is determined for each project based on modeled demands
- Eligible CIP Cost = \$62, 198, 700 or 54.3%

Wastewater Collection CIP – Eligible Value

Service Area	Equity Value	Equity Eligible %	Future CIP Value	CIP Eligible %	Eligible Cost*
Medio Creek	\$ 44,329,810	29.6%	\$ 65,921,781	44.7%	\$ 42,565,393
Upper Medina	38,230,047	36.1%	21,827,278	33.2%	21,039,663
Lower Medina	56,793,948	31.8%	24,188,969	15.4%	21,777,697
Upper Collection	159,946,135	11.1%	99,106,923	33.8%	51,348,948
Middle Collection	296,937,794	7.1%	152,309,178	26.5%	61,482,635
Lower Collection	447,500,124	10.6%	114,540,377	54.3%	109,665,779
TOTAL	\$ 1,043,737,858	12.6%	\$ 477,894,506	36.9%	\$ 307,880,115

Costs shown do not include financing charges.

Lower Medina eligible cost is divided by sum of Upper Medina and Lower Medina EDUs to determine unit cost.

Middle Collection eligible cost is divided by sum of Upper Collection and Middle Collection EDUs to determine unit cost.

Lower Collection is divided by sum of Upper Collection, Middle Collection, and Lower Collection EDUs to determine unit cost.

Questions?

