





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

Total available capacity for Low Service Area is 62.6 mgd

- 2018 Capacity = 526.8 mgd
- Existing Available Capacity = 2018 Capacity 2018 MHD
- Existing Available Capacity = 526.8 mgd 467.7 mgd = 59.1 mgd
- Future CIP Capacity = 3.5 mgd
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 59.1 mgd + 3.5 mgd = 62.6 mgd

Impact fee eligible allocation for Low Service Area is 100%

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

• Allocation =
$$\frac{75.1 \, mgd}{62.6 \, mgd}$$
 = **120.0**%

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 = 2028 EST Capacity Requirement 2018 EST Capacity Requirement

High Service Area Study Period Requirement

- 2018 EST Capacity Requirement = $345 \frac{gal}{conn} * \frac{23,755 EDU}{1.54} = 5.3 MG$
- 2028 EST Capacity Requirement = $\frac{298}{conn} * \frac{gal}{conn} * \frac{30,600 EDU}{1.54} = \frac{5.9 MG}{conn}$
- Study Period Requirement = 5.9 MG 5.3 MG = 0.6 MG

Total available capacity for High Service Area is 5.1 MG

- $2018 \ Capacity = 5.4 \ MG$
- Existing Available Capacity = 2018 Capacity 2018 EST Capacity Requirement
- Existing Available Capacity = 5.4 MG 5.3 MG = 0.1 MG
- Future CIP Capacity = 5.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 0.1 MG + 5.0 MG = 5.1 MG

Impact fee eligible allocation for High Service Area is 11.9%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{0.6 MG}{5.1 MG}$ = 11.9%

Middle Service Area Study Period Requirement

- 2018 EST Capacity Requirement = $198 \frac{gal}{conn} * \frac{262,228 EDU}{1.54} = 33.7 MG$
- 2028 EST Capacity Requirement = $196 \frac{gal}{conn} * \frac{318,707 EDU}{1.54} = 40.6 MG$
- Study Period Requirement = 40.6 MG 33.7 MG = 6.9 MG

Total available capacity for Middle Service Area is 9.9 MG

- $2018 \ Capacity = 40.6 \ MG$
- Existing Available Capacity = 2018 Capacity 2018 EST Capacity Requirement
- Existing Available Capacity = 40.6 MG 33.7 MG = 6.9 MG
- Future CIP Capacity = 3.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 6.9 MG + 3.0 MG = 9.9 MG

Impact fee eligible allocation for Middle Service Area is 69.0%

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

• Allocation =
$$\frac{6.9 MG}{9.9 MG}$$
 = **69.0**%

Low Service Area Study Period Requirement

- 2018 EST Capacity Requirement = $144 \frac{gal}{conn} * \frac{488,639 EDU}{1.54} = 45.7 MG$
- 2028 EST Capacity Requirement = $142 \frac{gal}{conn} * \frac{567,086 EDU}{1.54} = 52.3 MG$
- Study Period Requirement = 52.3 MG 45.7 MG = 6.6 MG

Total available capacity for Low Service Area is 7.0 MG

- $2018 \ Capacity = 48.2 \ MG$
- Existing Available Capacity = 2018 Capacity 2018 EST Capacity Requirement
- Existing Available Capacity = 48.2 MG 45.7 MG = 2.5 MG
- Future CIP Capacity = 4.5 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 2.5 MG + 4.5 MG = 7.0 MG

Impact fee eligible allocation for Low Service Area is 94.1%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{6.6 MG}{7.0 MG}$ = **94.1**%

Allocation is based on TCEQ requirements

- TCEQ requires minimum 200 gallons per connection of 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 = 2028 GST Capacity Requirement 2018 GST Capacity Requirement

High Service Area Study Period Requirement

- 2018 GST Capacity Requirement = $2 \frac{gal}{conn} * \frac{23,755 EDU}{1.54} = 0.03 MG$
- 2028 GST Capacity Requirement = $4 \frac{gal}{conn} * \frac{30,600 EDU}{1.54} = 0.08 MG$
- Study Period Requirement = 0.08 MG 0.03 MG = 0.05 MG

Total available capacity for High Service Area is 10.8 MG

- $2018 \ Capacity = 10.8 \ MG$
- Existing Available Capacity = 2018 Capacity 2018 GST Capacity Requirement
- Existing Available Capacity = 10.8 MG 0.03 MG = 10.8 MG
- Future CIP Capacity = 0.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- $Total \ Available \ Capacity = 10.8 \ MG + 0.0 \ MG = 10.8 \ MG$

Impact fee eligible allocation for High Service Area is 0.5%

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• Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}
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• Allocation =
$$\frac{0.05 MG}{10.8 MG}$$
 = **0.5**%

Middle Service Area Study Period Requirement

- 2018 GST Capacity Requirement = $2 \frac{gal}{conn} * \frac{262,228 EDU}{1.54} = 0.3 MG$
- 2028 GST Capacity Requirement = $4 \frac{gal}{conn} * \frac{318,707 EDU}{1.54} = 0.8 MG$
- Study Period Requirement = 0.8 MG 0.3 MG = 0.5 MG

Total available capacity for Middle Service Area is 79.7 MG

- $2018 \ Capacity = 67.5 \ MG$
- Existing Available Capacity = 2018 Capacity 2018 GST Capacity Requirement
- Existing Available Capacity = 67.5 MG 0.3 MG = 67.2 MG
- Future CIP Capacity = 12.5 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- Total Available Capacity = 67.2 MG + 12.5 MG = 79.7 MG

Impact fee eligible allocation for Middle Service Area is 0.6%

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

• Allocation =
$$\frac{0.5 MG}{79.7 MG} = 0.6\%$$

Low Service Area Study Period Requirement

- 2018 GST Capacity Requirement = $56 \frac{gal}{conn} * \frac{488,639 EDU}{1.54} = 17.8 MG$
- 2028 GST Capacity Requirement = $58 \frac{gal}{conn} * \frac{567,086 EDU}{1.54} = 21.4 MG$
- Study Period Requirement = 21.4 MG 17.8 MG = 3.6 MG

Total available capacity for Low Service Area is 83.8 MG

- $2018 \ Capacity = 100.6 \ MG$
- Existing Available Capacity = 2018 Capacity 2018 EST Capacity Requirement
- Existing Available Capacity = 100.6 MG 17.8 MG = 82.8 MG
- Future CIP Capacity = 1.0 MG
- Total Available Capacity = Existing Available Capacity + Future CIP Capacity
- $Total \ Available \ Capacity = 82.8 \ MG + 1.0 \ MG = 83.8 \ MG$

Impact fee eligible allocation for Low Service Area is 4.3%

- $Allocation = \frac{Study\ Period\ Requirement}{Total\ Available\ Capacity}$
- Allocation = $\frac{3.6 \, MG}{83.8 \, MG}$ = 4.3%

Water Delivery / System Development CIP – Eligible Value

Component	Service Area	Total Cost	Eligible %	Eligible Cost*
Pump Stations	High	\$ 9,658,653	16.0%	\$ 1,546,750
	Middle	53,156,107	25.3%	13,427,334
	Low	15,416,184	100%	15,416,184
Ground Storage	High	3,932,000	0.5%	17,802
	Middle	50,764,907	0.6%	310,422
	Low	33,579,280	4.3%	1,437,295
Elevated Storage	High	14,094,838	11.9%	1,679,513
	Middle	14,356,580	69.0%	9,905,187
	Low	20,219,244	94.1%	19,035,339
Well Pumps	All	48,265,475	42.5%	20,490,786
Transmission	High	26,236,448	16.0%	4,201,540
	Middle	102,346,712	25.3%	25,852,975
	Low	13,052,318	100%	13,052,318
TOTAL		\$ 405,078,745	31.2%	\$ 126,373,445

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

