



**IMPACT FEE PUBLIC HEARING
THURSDAY FEBRUARY 19, 2026
6:00 PM
MAGNA WATER DISTRICT
MEETING PACKET**

8885 W 3500 S, MAGNA, UT 84044

GENERAL OFFICE BUILDING

(801)250-2118

Fax(801)250-1452

PUBLIC HEARING AGENDA
REGARDING IMPACT FEE FACILITY PLAN AND
IMPACT FEE ENACTMENTS
MAGNA WATER DISTRICT

MEETING DATE: February 19, 2026
TIME: 6:00 P.M.
LOCATION: 8885 W 3500 S, Magna, UT
General Office Building, Kim Bailey Board Room

1. Welcome public and guests.
2. Public, Board and Staff join in the Pledge of Allegiance
3. Motion to adopt the updated 2025 Master Plan as presented December 11, 2025.
4. Presentation of the water and sewer impact fee facility plans and impact fee enactments.
5. Discussion of updates to Addendum N of the District's Administrative Rules and Regulations related to impact fees.
6. Verification that legal notification requirements have been met regarding the Impact Fee Facility Plan and Impact Fee Enactment:

Notice of this public hearing was placed on the Public Meeting Notice Website on 02/09/2026, on the District's website on 02/05/2026. The public meeting notice, the Resolution 2026-01, the water and sewer impact fee facility plans and the water and sewer impact fee enactments have been available for public inspection at the Magna Library, District Office, and an electronic copy on the District's website since 02/05/2026. All requirements for notice of this public hearing were duly given according to Utah law.

7. **AMENDED IMPACT FEE FACILITES PLAN**
8. Open public comment period regarding the impact fee facility plan.
9. Close public comment period regarding the impact fee facility plan.

10. **AMENDED IMPACT FEE ENACTMENT**
11. Open public comment period regarding the impact fee enactment.
12. Close public comment period regarding the impact fee enactment.
13. Board discussion if needed.
14. Motion to approve Resolution 2026-01 2026 Impact Fee Resolution to adopt the IFFP & IFA for water and sewer impact fees and the portion of Addendum N regarding impact fee administration.
15. Adjourn Public Hearing.

IFFP & IFA SLIDE PRESENTATION

Magna Water District Water and Sewer IFFP & IFA Public Hearing



The Challenge

How can we pay for the new infrastructure required to service future growth so that existing users aren't subsidizing future users or vice versa?

Definitions

- **Impact Fee Facilities Plan (IFFP):** Primarily identifies projects needed to accommodate growth and allocates cost of projects between existing and future users based on who the projects benefit.
- **Impact Fee Analysis (IFA):** It calculates the appropriate impact fee based on information from the IFFP.



Changes since Previous Update

- Last Full Analysis was 2020 for Culinary and Sewer Utilities
- New Master Plans Drafted January 2026
- Several Previously Identified Projects are Now Complete (or nearing completion) with Actual Cost Known
- Master Plan Includes Updated Future Project Planning and Cost Estimating
- Updated Water Use and Sewer Production Patterns

Water Impact Fee

Historic

| Maximum Allowable Impact Fee (Per ERU, by Year) | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| Base Impact Fee | \$8,822.02 | \$8,822.02 | \$8,822.02 | \$8,822.02 | \$8,822.02 | \$8,822.02 |
| User Fee Credit | \$1,727.98 | \$1,589.11 | \$1,453.90 | \$1,328.28 | \$1,211.62 | \$1,078.70 |
| Total Overall Fee | \$7,094.05 | \$7,232.91 | \$7,368.12 | \$7,493.74 | \$7,610.40 | \$7,743.32 |

Proposed

| Maximum Allowable Impact Fee (Per ERC, by Year) | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Base Impact Fee | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 |
| User Fee Credit | \$731.47 | \$632.88 | \$550.93 | \$474.16 | \$405.06 | \$347.48 |
| Total Overall Fee | \$7,912.69 | \$8,011.28 | \$8,093.23 | \$8,169.99 | \$8,239.10 | \$8,296.68 |

Sewer Impact Fee

Historic

| Maximum Allowable Impact Fee (Per ERU, by year) | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| Base Impact Fee (includes study costs) | \$5,331.05 | \$5,331.05 | \$5,331.05 | \$5,331.05 | \$5,331.05 | \$5,331.05 |
| User Fee Credit | \$1,672.71 | \$1,601.49 | \$1,485.86 | \$1,378.42 | \$1,278.62 | \$1,149.25 |
| Total Overall Fee | \$3,658.34 | \$3,729.56 | \$3,845.19 | \$3,952.63 | \$4,052.43 | \$4,181.80 |

Proposed

| Maximum Allowable Impact Fee (Per ERU, by year) | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2026 | 2026 | 2027 | 2028 | 2029 | 2031 |
| Base Impact Fee (includes study costs) | \$4,967.34 | \$4,967.34 | \$4,967.34 | \$4,967.34 | \$4,967.34 | \$4,967.34 |
| User Fee Credit | \$466.09 | \$401.32 | \$340.78 | \$294.86 | \$251.48 | \$211.11 |
| Total Overall Fee | \$4,501.25 | \$4,566.02 | \$4,626.55 | \$4,672.48 | \$4,715.86 | \$4,756.23 |

Water & Sewer Impact Fee Conclusions

- Historical growth a little slower than projected
- Modest decrease in water use since last analysis (~10%)
- Many important projects completed
- Only small changes to required remaining improvement projects
- Significant increase in project construction costs

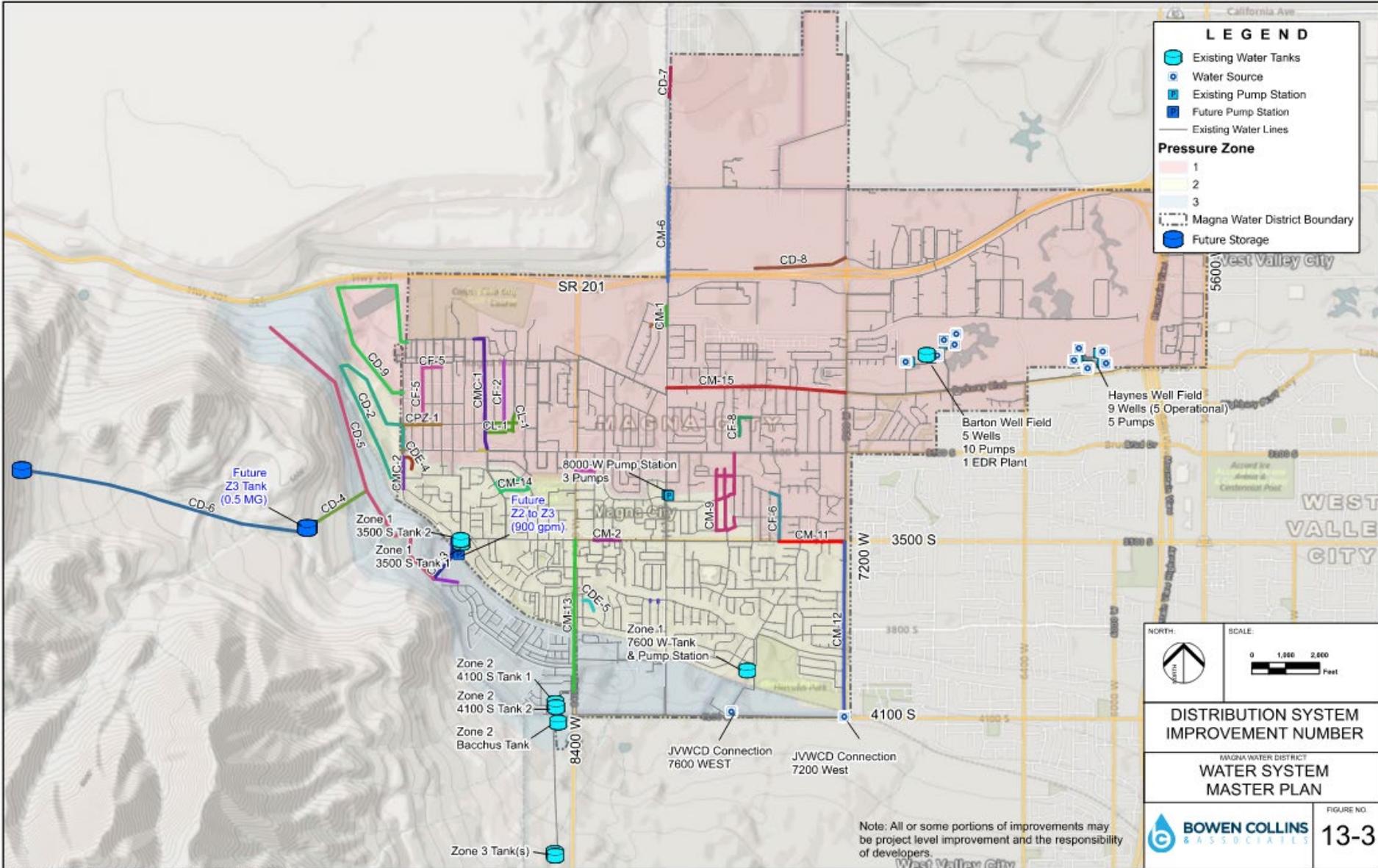
Next Steps

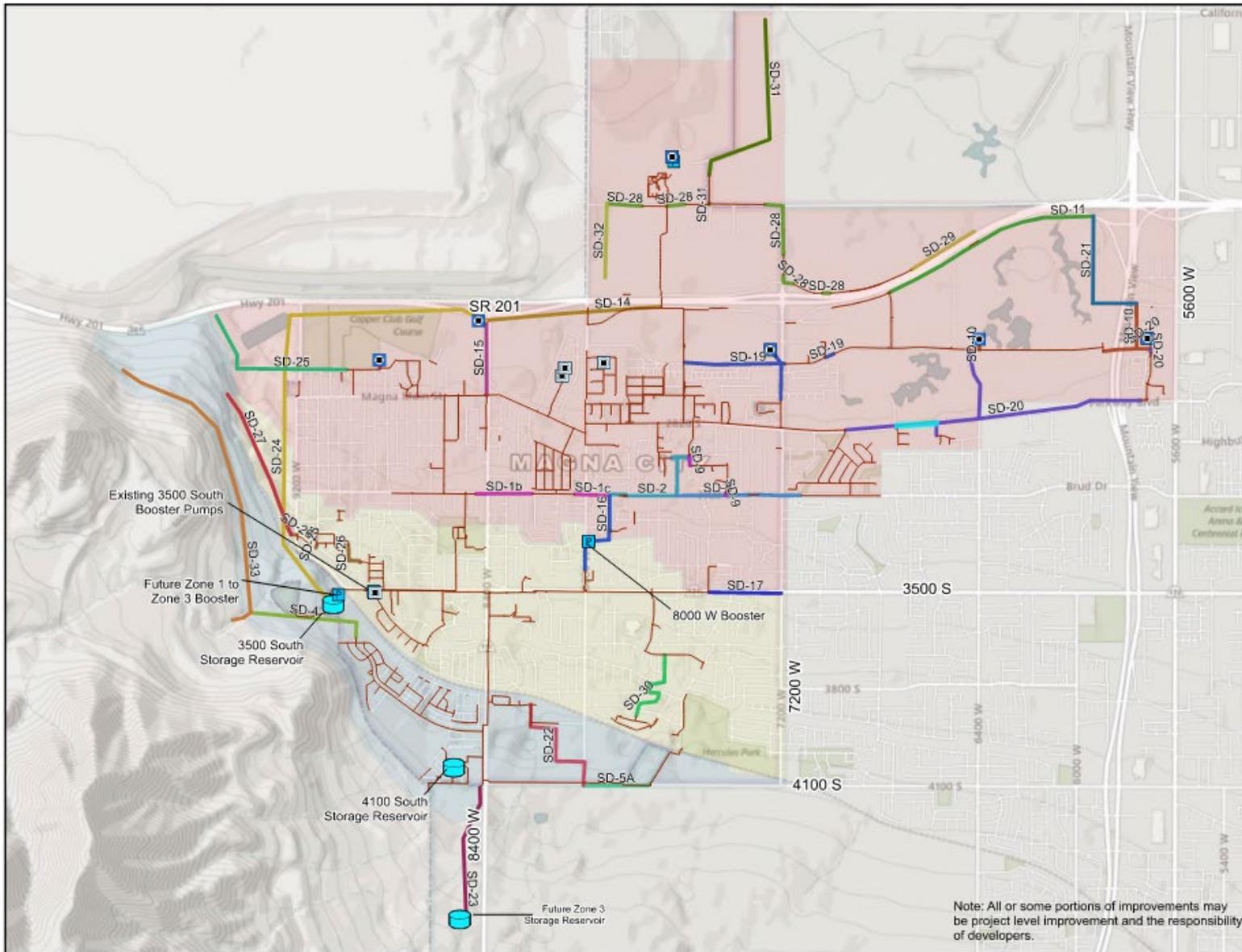
- Public Hearing and Adoption
 - February 19th
- New Impact Fee in Effect 90 Days Following Adoption

Comments/Questions



BOWEN COLLINS
& ASSOCIATES





Legend

- Existing Source
- Future Source
- Booster
- Storage
- Future Pump Station
- Existing Water Lines

Pressure Zone

Pressure Zone

- 1
- 2
- 3

NORTH

SCALE:

**2060 SECONDARY
PIPE IMPROVEMENT
PROJECT NUMBERS**

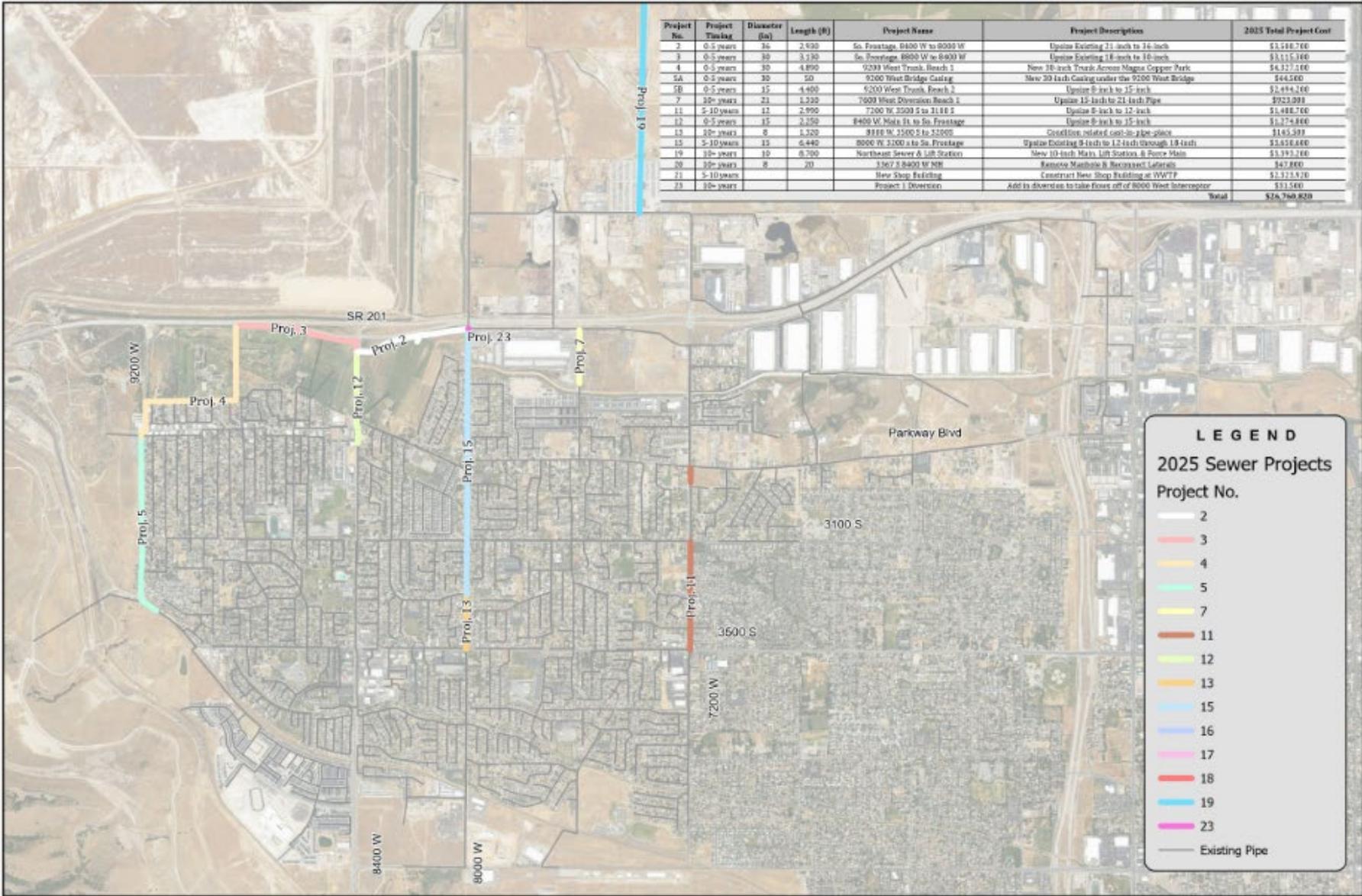
MAGNA WATER DISTRICT
WATER MASTER PLAN

**BOWEN COLLINS
& ASSOCIATES**

FIGURE NO.
13-5

Note: All or some portions of improvements may be project level improvement and the responsibility of developers.

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| Project No. | Project Timing | Diameter (in) | Length (ft) | Project Name | Project Description | 2025 Total Project Cost |
|--------------|----------------|---------------|-------------|---|---|-------------------------|
| 2 | 0-5 years | 36 | 2,930 | So. Franchise, 8400 W to 8000 W | Upgrade Existing 24-inch to 36-inch | \$1,588,700 |
| 3 | 0-5 years | 36 | 3,130 | So. Franchise, 8800 W to 8400 W | Upgrade Existing 18-inch to 36-inch | \$3,115,100 |
| 4 | 0-5 years | 30 | 4,890 | 9200 West Trunk Branch 1 | New 30-inch Trunk Across Magnus Cooper Park | \$4,327,500 |
| 5A | 0-5 years | 30 | 50 | 9200 West Bridge Casing | New 30-inch Casing under the 9200 West Bridge | \$45,500 |
| 5B | 0-5 years | 15 | 4,400 | 9200 West Trunk Branch 2 | Upgrade 8-inch to 15-inch | \$2,494,200 |
| 7 | 10+ years | 21 | 1,320 | 7000 West Diversion Branch 1 | Upgrade 12-inch to 21-inch Pipes | \$923,091 |
| 11 | 5-10 years | 12 | 2,990 | 7200 W, 3200 S to 3118 S | Upgrade 8-inch to 12-inch | \$1,488,700 |
| 12 | 0-5 years | 15 | 2,350 | 8400 W, Hole It to So. Franchise | Upgrade 8-inch to 15-inch | \$1,274,860 |
| 13 | 10+ years | 8 | 1,320 | 8100 W, 3500 S to 3200 S | Condition related cast-in-place | \$165,393 |
| 15 | 5-10 years | 15 | 6,440 | 8000 W, 3100 S to So. Franchise | Upgrade Existing 8-inch to 12-inch through 18-inch | \$3,516,400 |
| 19 | 10+ years | 18 | 8,700 | Northwest Sewer Lift Station & Force Main | New 18-inch Main, Lift Station, & Force Main | \$3,193,100 |
| 20 | 10+ years | 8 | 20 | 1567 S, 8400 W MSW | Remove Manhole & Reconnect Laterals | \$47,800 |
| 21 | 5-10 years | | | New Shop Building | Construct New Shop Building at WWTP | \$2,373,970 |
| 23 | 10+ years | | | Project 1 Diversion | Add in diversion to take flows off of 8000 West Interceptor | \$31,500 |
| Total | | | | | | \$26,760,820 |

LEGEND

2025 Sewer Projects

Project No.

- 2
- 3
- 4
- 5
- 7
- 11
- 12
- 13
- 15
- 16
- 17
- 18
- 19
- 23

Existing Pipe

SCALE
1:25,000

NORTH

2025 SEWER PROJECTS

MADISON WATER DISTRICT
SEWER MASTER PLAN

BOWEN COLLINS
CONSULTING ENGINEERS

FIGURE NO.
6-1

ADDENDUM N

**Magna Water District
Administrative Rules and Regulations**

~~22 April 2021~~ 19 February 2026

ADDENDUM A

WATER AND SEWER RATES:

Culinary Water Rates:

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee, includes first 6,000 gallons per month |
| Tier 2 | Rate per 1,000 gal. between 6,001 & 18,000 gal./mon. |
| Tier 3 | Rate per 1,000 gal. between 18,001 & 35,000 gal./mon. |
| Tier 4 | Rate per 1,000 gal. over 35,000 gal./mon. |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Tier 1</u> | \$19.12 | \$20.08 | \$21.08 | \$22.14 | \$23.25 | \$23.95 |
| <u>Tier 2</u> | \$2.08 | \$2.18 | \$2.29 | \$2.40 | \$2.52 | \$2.60 |
| <u>Tier 3</u> | \$2.33 | \$2.45 | \$2.57 | \$2.70 | \$2.84 | \$2.93 |
| <u>Tier 4</u> | \$2.65 | \$2.78 | \$2.92 | \$3.06 | \$3.22 | \$3.32 |

(Fluoride Rate included in Tier 1/Base Rate above)

| <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|---------------|---------------|---------------|---------------|---------------|---------------|
| <i>\$1.02</i> | <i>\$1.07</i> | <i>\$1.12</i> | <i>\$1.18</i> | <i>\$1.24</i> | <i>\$1.28</i> |

SECONDARY WATER RATES:

Residential

Base Rate and Usage for Lot Sizes 0.00 to 0.24 acres

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee per month year-round regardless of usage |
| Tier 2 | Rate per 1,000 gal. for first 22,000 gal./month (Seasonal) |
| Tier 3 | Rate per 1,000 gal. between 22,001 & 37,000 gal./month (Seasonal) |
| Tier 4 | Rate per 1,000 gal. over 37,000 gal./month (Seasonal) |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tier 1/Base Rate | \$5.69 | \$4.50 | \$4.50 | \$4.50 | \$4.50 | \$4.64 |
| Tier 2 | \$0.87 | \$0.99 | \$1.05 | \$1.12 | \$1.20 | \$1.24 |
| Tier 3 | \$1.03 | \$1.17 | \$1.25 | \$1.33 | \$1.42 | \$1.46 |
| Tier 4 | \$1.56 | \$1.77 | \$1.89 | \$2.01 | \$2.15 | \$2.21 |

**Magna Water District
Administrative Rules and Regulations**

~~22 April 2021~~ 19 February 2026

Base Rate and Usage for Lot Sizes 0.25 to 1.0 acres

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee per month year-round regardless of usage |
| Tier 2 | Rate per 1,000 gal. for first 45,000 gal./month (Seasonal) |
| Tier 3 | Rate per 1,000 gal. between 45,001 & 75,000 gal./month (Seasonal) |
| Tier 4 | Rate per 1,000 gal. over 75,000 gal./month (Seasonal) |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tier 1/Base Rate | \$5.69 | \$5.70 | \$6.75 | \$7.85 | \$9.00 | \$9.27 |
| Tier 2 | \$0.87 | \$0.99 | \$1.05 | \$1.12 | \$1.20 | \$1.24 |
| Tier 3 | \$1.03 | \$1.17 | \$1.25 | \$1.33 | \$1.42 | \$1.46 |
| Tier 4 | \$1.56 | \$1.77 | \$1.89 | \$2.01 | \$2.15 | \$2.21 |

Lot Size: 0.25 to 0.49 acres (Multiply Base Rate and Usage by 1)

Lot Size: 0.50 to 0.99 acres (Multiply Base Rate and Usage by 2)

Lot Size: 1.00 acre or more (Multiply Base Rate and Usage by 5)

Residential lots greater than 0.49 acres may request the District to evaluate the lot's actual irrigable acreage. The base rate will be calculated by a multiplier (rounded to the next whole number) in increments of 0.20 acres.

Commercial

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee per month year-round regardless of usage |
| Tier 2 | Rate per 1,000 gal. for first 45,000 gal./month (Seasonal) |
| Tier 3 | Rate per 1,000 gal. between 45,001 & 75,000 gal./month (Seasonal) |
| Tier 4 | Rate per 1,000 gal. over 75,000 gal./month (Seasonal) |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tier 1/Base Rate | \$5.69 | \$5.70 | \$6.75 | \$7.85 | \$9.00 | \$9.27 |
| Tier 2 | \$0.87 | \$0.99 | \$1.05 | \$1.12 | \$1.20 | \$1.24 |
| Tier 3 | \$1.03 | \$1.17 | \$1.25 | \$1.33 | \$1.42 | \$1.46 |
| Tier 4 | \$1.56 | \$1.77 | \$1.89 | \$2.01 | \$2.15 | \$2.21 |

District will determine irrigation area based on approved plans which will then be used to determine the secondary water rate applied to the lot. The base rate will be calculated by a multiplier (rounded to the next whole number) in increments of 0.20 acres.

**Magna Water District
Administrative Rules and Regulations**

~~22 April 2021~~ 19 February 2026

Sewer Rates:

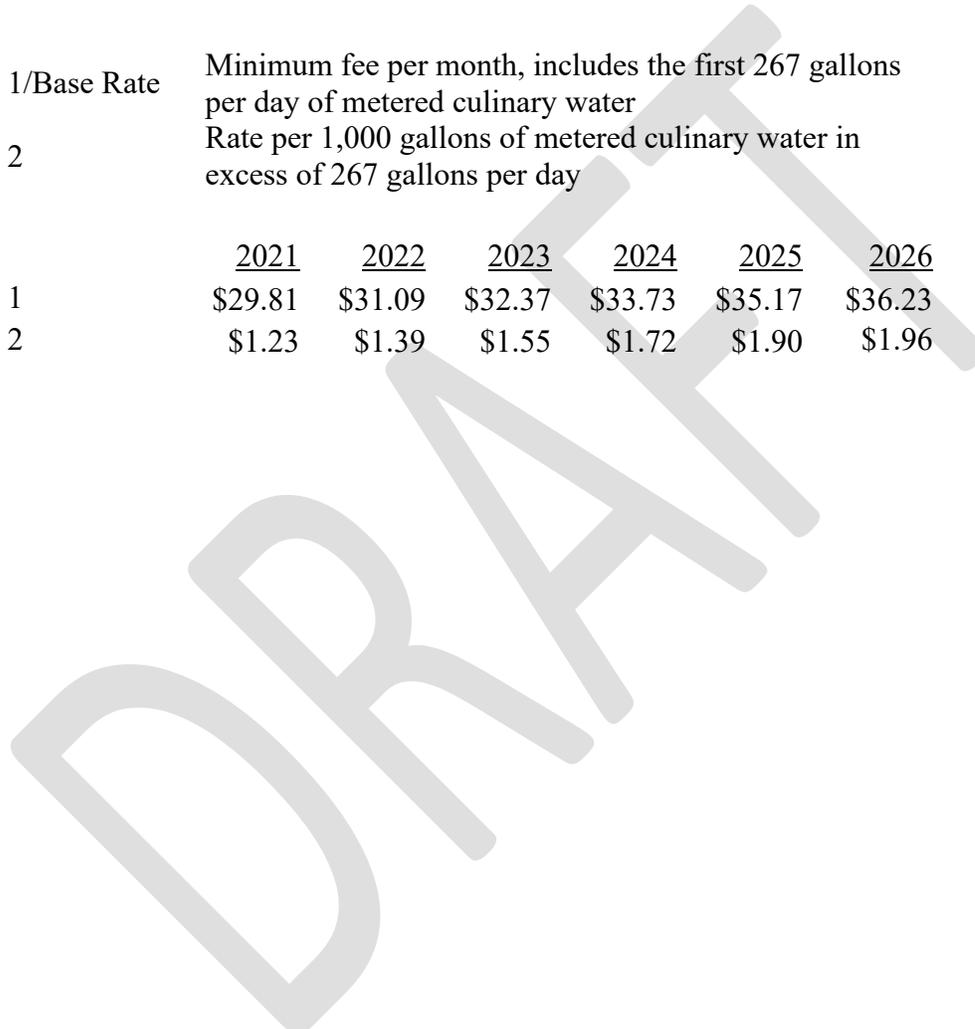
| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Residential</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
| | \$29.81 | \$31.09 | \$32.37 | \$33.73 | \$35.17 | \$36.23 |

Commercial

See Tiers 1 & 2 below

| | |
|------------------|---|
| Tier 1/Base Rate | Minimum fee per month, includes the first 267 gallons per day of metered culinary water |
| Tier 2 | Rate per 1,000 gallons of metered culinary water in excess of 267 gallons per day |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
| Tier 1 | \$29.81 | \$31.09 | \$32.37 | \$33.73 | \$35.17 | \$36.23 |
| Tier 2 | \$1.23 | \$1.39 | \$1.55 | \$1.72 | \$1.90 | \$1.96 |



**Magna Water District
Administrative Rules and Regulations**

22 April 2021 19 February 2026

CONNECTION / IMPACT FEES:

Water Impact Fee: Impact fees will be based on the cost per Equivalent Residential Unit (ERU) as defined in the District’s most current impact fee resolution. ERU equivalency will be based on type of development as defined in the following sections. The District approves the size and type of meter.

Water Impact Fee, per ERU

| Calendar Year | 2021 | 2022 | 2023 | 2024 | 2025 |
|--------------------------|------------|------------|------------|------------|------------|
| Total Overall Fee | \$7,232.00 | \$7,368.00 | \$7,493.00 | \$7,610.00 | \$7,743.00 |

Single Family Residential

Water ERUs for single family residential units and duplexes:

ERU Adjustments by Lot Size and Landscape Type

| <u>Lot Size</u> | <u>Maximum Culinary Meter Size</u> | <u>Maximum Secondary Meter Size</u> | <u>Indoor Use (ERUs)</u> | <u>Outdoor Use (ERUs)</u> | <u>Outdoor Use with Approved Landscape Plan (ERUs)</u> |
|--------------------|------------------------------------|-------------------------------------|--------------------------|---------------------------|--|
| <u>0 - 0.14</u> | <u>5/8"</u> | <u>3/4"</u> | <u>0.46</u> | <u>0.33</u> | <u>0.20</u> |
| <u>0.14 - 0.30</u> | <u>5/8"</u> | <u>1"</u> | <u>0.46</u> | <u>0.54</u> | <u>0.42</u> |
| <u>0.30 - 0.60</u> | <u>5/8"</u> | <u>1"</u> | <u>0.46</u> | <u>1.12</u> | <u>0.90</u> |
| <u>>0.60</u> | <u>5/8"</u> | <u>*</u> | <u>0.425</u> | <u>*</u> | <u>*</u> |

*Determined by District Engineer. Grass = 5.05 ERUs/acre. Grass/Shrub Mix = 3.84 ERUs/acre. Waterwise = 2.02 ERUs/acre (no grass)

| <u>Lot Size (acres)</u> | <u>Maximum Culinary Meter Size*</u> | <u>Maximum Secondary Meter Size**</u> | <u>Indoor Use (ERUs)</u> | <u>Outdoor Use (ERUs)</u> | <u>Total Use (ERUs)</u> |
|-------------------------|-------------------------------------|--|--------------------------|-----------------------------|-------------------------|
| <u>0—0.40</u> | <u>3/4"</u> | <u>3/4"</u> | <u>0.46</u> | <u>0.54</u> | <u>1.00</u> |
| <u>0.40—0.60</u> | <u>3/4"</u> | <u>1"</u> | <u>0.46</u> | <u>1.08</u> | <u>1.54</u> |
| <u>>0.60</u> | <u>3/4"</u> | <u>Determined by District Engineer</u> | <u>0.46</u> | <u>4.39/ irrigated acre</u> | <u>-</u> |

*Standard meter size for residential is 5/8-inch

**Where secondary service is not available, culinary meter may be increased at the District Engineers discretion to this size to account for outdoor use.

**Magna Water District
Administrative Rules and Regulations**

~~22 April 2021~~ 19 February 2026

Multi-Unit Residential

Water ERUs for multi-unit residential developments:

| Unit Size | Definition | Indoor Use (ERUs) | Outdoor Use (ERUs)* |
|-----------------|---|-------------------|---|
| Small | Multi-family units meeting <u>all</u> of the following criteria: ≤ 1 bedroom, ≤ 1 bathroom, ≤ 1,000 SF | 0.28 per unit | 4.39 / irrigated acre <u>Determined by District Engineer</u> |
| All Other Units | Multi-family units with <u>any</u> of the following: >1 bed, >1 bath, >1,000 SF | 0.46 per unit | 4.39 / irrigated acre <u>Determined by District Engineer</u> |

* Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

DRAFT

**Magna Water District
Administrative Rules and Regulations**

22 April 2021 19 February 2026

Non-Residential

Water ERUs for non-residential developments shall be determined by the greater of the following:

- (a) Calculate the number of ERUs based on the annual average daily demand (in gpd) of the proposed development divided by 582513 gpd.
- (b) Calculated the number of ERUs based on meter equivalency per the following table:

**Minimum Culinary Water Impact Fee Table for Meters
(AWWA Meter Capacity Ratios)**

| Meter Size | Meter Type | Meter Capacity (gpm) | ERUs |
|-------------|------------|----------------------|-------|
| 5/8" & 3/4" | Pos Displ | 30 | 1.00 |
| 1" | Pos Displ | 50 | 1.67 |
| 1-1/2" | Pos Displ | 100 | 3.33 |
| 2" | Pos Displ | 160 | 5.33 |
| 1-1/2" | Turbine | 100 | 3.33 |
| 2" | Turbine | 160 | 5.33 |
| 3" | Turbine | 350 | 11.67 |
| 4" | Turbine | 600 | 20.00 |
| 6" | Turbine | 1,250 | 41.67 |
| 8" | Turbine | 1,800 | 60.00 |
| 2" | Compound | 160 | 5.33 |
| 3" | Compound | 320 | 10.67 |
| 4" | Compound | 500 | 16.67 |
| 6" | Compound | 1,000 | 33.33 |
| 8" | Compound | 1,600 | 53.33 |

Secondary Water Use

For commercial developments with a separate secondary meter for outdoor use, add the following for outdoor use to the value calculated for culinary ERUs:

4.39 ERUs / irrigated acre

Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

**Magna Water District
Administrative Rules and Regulations**

~~22 April 2021~~ 19 February 2026

Sewer Impact Fee: Impact fees will be based on the cost per Equivalent Residential Unit (ERU) as defined in the District’s most current impact fee resolution. ERU equivalency will be based on type of development as defined in the following sections.

Sewer Impact Fee, per ERU

| Calendar Year | 2021 | 2022 | 2023 | 2024 | 2025 |
|--------------------------|------------|------------|------------|------------|------------|
| Total Overall Fee | \$3,729.00 | \$3,845.00 | \$3,952.00 | \$4,052.00 | \$4,181.00 |

Single Family Residential

Sewer ERUs for single family residential units and duplexes:
1 ERU per Single Family Residence

Multi-Unit Residential

Sewer connection / impact fees for multi-unit residential developments:

| Unit Size | Definition | Sewer ERUs |
|-----------------|---|---------------|
| Small | Multi-family units meeting <u>all</u> of the following criteria: ≤ 1 bedroom, ≤ 1 bathroom, ≤ 1,000 SF | 0.61 per unit |
| All Other Units | Multi-family units with <u>any</u> of the following: >1 bed, >1 bath, >1,000 SF | 1.0 per unit |

Non-Residential

Sewer ERUs for non-residential developments:

ERU is to be determined by the District Engineer’s estimated water use tables for similar developments. The District Engineer may adjust the estimate as necessary to be appropriate for the proposed development. An ERU is determined by the estimated indoor water use divided by 231.6246.7 gpd per unit.

**Magna Water District
Administrative Rules and Regulations**

~~22 April 2021~~ 19 February 2026

METER SET FEES:

| Culinary Water | Meter Size | Meter Type | AWWA Safe Operating Capacity (gpm) | Meter Set Fee |
|---|-------------------|-------------------|---|----------------------|
| (Includes District's meter, strainer & labor to install meter in customer supplied meter box or vault. The District will determine the meter type for each connection.) | 5/8" | Pos Displ | 20 | \$387.00 |
| | 3/4" | Pos Displ | 30 | \$443.00 |
| | 1" | Pos Displ | 50 | \$499.00 |
| | 1-1/2" | Pos Displ | 100 | \$750.00 |
| | 2" | Pos Displ | 160 | \$892.00 |
| | 1-1/2" | Ultrasonic | 100 | \$810.00 |
| | 2" | Ultrasonic | 160 | \$1,150.00 |
| | 3" | Ultrasonic | 350 | \$1,599.00 |
| | 4" | Ultrasonic | 600 | \$2,261.00 |
| | 6" | Ultrasonic | 1250 | \$3,788.00 |
| | 8" | Ultrasonic | 1800 | \$5,303.00 |
| | 2" | Compound | 160 | \$2,138.00 |
| | 3" | Compound | 320 | \$2,630.00 |
| | 4" | Compound | 500 | \$3,300.00 |
| 6" | Compound | 1000 | \$5,300.00 | |
| 6"x8" | Compound | 1600 | \$8,530.00 | |

| Secondary Water | Meter Size | Meter Type | AWWA Safe Operating Capacity (gpm) | Meter Set Fee |
|---|-------------------|-------------------|---|----------------------|
| (Includes District's meter, strainer & labor to install meter in customer supplied meter box or vault. The District will determine the meter type for each connection.) | 5/8" | Ultrasonic | 20 | \$443.00 |
| | 3/4" | Ultrasonic | 30 | \$443.00 |
| | 1" | Ultrasonic | 50 | \$499.00 |
| | 1-1/2" | Ultrasonic | 100 | \$810.00 |
| | 2" | Ultrasonic | 160 | \$1,150.00 |
| | 3" | Ultrasonic | 350 | \$1,599.00 |
| | 4" | Ultrasonic | 600 | \$2,261.00 |
| | 6" | Ultrasonic | 1250 | \$3,788.00 |
| 8" | Ultrasonic | 1800 | \$5,303.00 | |

Fire Mainline Detector Check Meter \$387.00 per 5/8" meter

**Magna Water District
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FEES AND PENALTIES:

| | |
|--|--|
| Delinquency Fee | \$10.00 - \$20.00 |
| Conservation Violation Fee | \$25.00 |
| Re-connection Fee | \$100 per service being re-connected, plus actual costs of disconnection, re-connection, and inspections, if any |
| Tampering Fee | \$200 plus 1.5 times actual costs, if any |
| Serious Rules Violation Fee | \$500 plus 1.5 times actual costs, if any |
| Permit Violation Fee | \$1,000 plus 1.5 times actual costs, if any |
| Non-Resident Rate | 2.5 times the normal rate |
| Discount on Multiple Units | \$0.50 per unit for culinary water service \$0.50 per unit for sanitary sewer service |
| Discount for Activated Military Reservists | 20% off the normal minimum monthly service fees |
| Fire Hydrant Meter Deposit (refundable) | \$1,800.00 |
| Fire Hydrant Meter Usage Fee | \$100.00 setup + \$25.00 per week + \$4.50 per 1,000 gallons used (Additional \$300.00 per week if meter reading is not reported) |
| Wastewater Discharge and Dumping Permit | a) \$500.00/yr. Industrial Permit b) \$50.00/yr. Commercial Permit |
| Dumping Fee | a) \$12.00 Generator Permit b) \$12.00 Hauler Permit c) \$196.00/ton Holding Tank/Septage Waste |
| Legal Review Fee | \$200.00 |
| Service Availability Letter | \$30.00 per letter per service |
| Preliminary Engineering and the Engineer's Service Availability Letter | \$900.00 |

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| | |
|---|--|
| Engineering Review Fee | \$450.00 + \$0.60/foot of pipeline. A separate fee is calculated for each service (e.g., culinary water, secondary water, and sewer service). This fee is for project and plan review by District Staff and the District Engineer and includes facilities design review. |
| Hydraulic Modeling | \$400.00/development |
| Bonding & Fee Calculations | \$300.00/development |
| Extension Agreement, Submittal & preconstruction Conference Fee | \$750.00/development |
| Punchlist, Warranty Review And project acceptance fee | \$500.00/development |
| Asbuilt GIS Fee | \$250.00/development |
| Meter Flow Test Fee | \$25.00 per test |
| Relocation of Water Lateral and Meter Box | \$2,700.00 per box, if done by the District |
| Permanent Water or Sewer Line Disconnection (cut & cap) and Removal of Meter Box | \$1,500.00 per connection, if done by the District |
| ADDITIONAL ENGINEERING FEES IF APPLICABLE TO DEVELOPMENT: | |
| Legal Description and Easement Review Fee | \$400.00/development |
| Special service area/ DWSP zone review Fee | \$150.00/development |
| Secondary water cost share/ Upsize review fee | \$300.00/development |
| Pretreatment review fee | \$200.00/development |

**Magna Water District
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~~22 April 2021~~ 19 February 2026

INSPECTION FEES:

| Fee | Amount | Paid by * | |
|--|---|-----------|---|
| | | D | H |
| Water Mainline Construction Inspection Fee | \$350 + \$0.60/foot for inspection of culinary or secondary lines | X | |
| Sewer Mainline Construction Inspection Fee | \$350 + \$0.90/foot for inspection of sewer lines | X | |
| Sewer Mainline Video Inspection Fee | \$175 + \$0.83/foot for inspection of sewer lines | X | |
| Hot Tap or Cut In Mainline Connection Inspection Fee | \$794.00 per mainline connection | X | |
| Asbestos Cement Mainline Connection Inspection Fee | \$1,072.00 per mainline connection | X | |
| Manhole Inspection Fee | \$350.00 per manhole | X | |
| Large Vault Inspection Fee | \$575.00 per vault | X | |
| Single Fire Hydrant Mainline Connection Inspection Fee | \$339.00 per inspection | X | X |
| Large Meter Periodic Filter /Sampling Inspection Fee | \$85.00 per inspection or sampling | X | |
| Water Lateral Tap Inspection Fee | \$85.00 for each new or replacement connection | X | X |
| Water Lateral Connection Inspection Fee | \$85.00 for each new or replacement connection, each disconnection, and each re-connection | | X |
| Sewer Lateral Connection Inspection Fee | \$240.00 for each new or replacement connection, each disconnection, and each re-connection | | X |
| Sewer Special Wye Construction Inspection Fee | \$85.00 per wye | | X |
| Asbuilt GPS Survey Fee | \$250.00 per development | X | |
| Pressure Testing, punchlist and warranty inspections fee | \$500.00 per development | X | |
| Re-inspections & Inspection Overages | \$66 per hour (used at the discretion of the District to cover the cost of additional inspections caused by contractor) | X | X |

* This “Paid by” chart is a non-binding general guideline as to who typically pays this fee. It may vary by project.

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An “x” in the “D” column indicates that the Developer typically pays this fee in accordance with an “Extension Agreement” with the District.

An “x” in the “H” column indicates that typically there is no “Extension Agreement” involved and that the Homeowner or Builder is typically responsible for payment of this fee.

Fees associated with Document Requests under the GRAMA Act:

| | |
|--|-----------------|
| Reviewing a record to determine whether it is subject to disclosure | No Charge |
| Inspection of record by requesting person | No Charge |
| Copy fee for District prepared copies | \$1.00 per page |
| Computer Disk (including overhead and time of District staff in preparation of information request, with a minimum of \$5.00) | Actual Cost |
| Other Forms including Maps (including overhead and time of District staff or outside consultant in preparation of information request, with a minimum of \$1.00 per page) | Actual Cost |
| Miscellaneous Fees (including overhead and time of District staff or outside consultant in preparation of information request, with a minimum of \$1.00 per page) | Actual Cost |

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ADDENDUM A -- CONTROLLED POLLUTANTS SURCHARGE SCHEDULE

Sewage Surcharge. All persons discharging sewage into the public sewers shall be subject to a surcharge, in addition to all other sewer service charges, if these wastes have concentration greater than the following:

- (a) BOD of 200 ppm; or
- (b) a suspended solids content of 250 ppm.

Computation of surcharge. The computation of the sewage surcharge shall be determined by the following formula:

SC Calculation:

$$SC = VS \times 8.34(BOD - 200) \times RBOD$$

or

$$SC = VS \times 8.34(SS - 250) \times RSS$$

SC = surcharge in dollars.

VS = volume of sewage in millions of gallons for the billing period.

8.34 = conversion factor to convert BOD and SS from ppm to pounds

RBOD = unit charge for BOD in dollars per pounds.

BOD = biochemical oxygen demand strength index in parts per million by weight.

RSS = unit charge for SS in dollars per pound.

SS = suspended solids strength index in parts per million by weight

Rates of Surcharge. The rates of the industrial waste surcharge for each of the following constituents shall be as follows:

- (a) For RBOD.....\$ 0.20 per pound
- (b) For RSS.....\$ 0.15 per pound

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ADDENDUM N

WATER AND SEWER RATES:

Culinary Water Rates:

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee, includes first 6,000 gallons per month |
| Tier 2 | Rate per 1,000 gal. between 6,001 & 18,000 gal./mon. |
| Tier 3 | Rate per 1,000 gal. between 18,001 & 35,000 gal./mon. |
| Tier 4 | Rate per 1,000 gal. over 35,000 gal./mon. |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Tier 1</u> | \$19.12 | \$20.08 | \$21.08 | \$22.14 | \$23.25 | \$23.95 |
| <u>Tier 2</u> | \$2.08 | \$2.18 | \$2.29 | \$2.40 | \$2.52 | \$2.60 |
| <u>Tier 3</u> | \$2.33 | \$2.45 | \$2.57 | \$2.70 | \$2.84 | \$2.93 |
| <u>Tier 4</u> | \$2.65 | \$2.78 | \$2.92 | \$3.06 | \$3.22 | \$3.32 |

(Fluoride Rate included in Tier 1/Base Rate above)

| <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|---------------|---------------|---------------|---------------|---------------|---------------|
| <i>\$1.02</i> | <i>\$1.07</i> | <i>\$1.12</i> | <i>\$1.18</i> | <i>\$1.24</i> | <i>\$1.28</i> |

SECONDARY WATER RATES:

Residential

Base Rate and Usage for Lot Sizes 0.00 to 0.24 acres

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee per month year-round regardless of usage |
| Tier 2 | Rate per 1,000 gal. for first 22,000 gal./month (Seasonal) |
| Tier 3 | Rate per 1,000 gal. between 22,001 & 37,000 gal./month (Seasonal) |
| Tier 4 | Rate per 1,000 gal. over 37,000 gal./month (Seasonal) |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tier 1/Base Rate | \$5.69 | \$4.50 | \$4.50 | \$4.50 | \$4.50 | \$4.64 |
| Tier 2 | \$0.87 | \$0.99 | \$1.05 | \$1.12 | \$1.20 | \$1.24 |
| Tier 3 | \$1.03 | \$1.17 | \$1.25 | \$1.33 | \$1.42 | \$1.46 |
| Tier 4 | \$1.56 | \$1.77 | \$1.89 | \$2.01 | \$2.15 | \$2.21 |

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Base Rate and Usage for Lot Sizes 0.25 to 1.0 acres

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee per month year-round regardless of usage |
| Tier 2 | Rate per 1,000 gal. for first 45,000 gal./month (Seasonal) |
| Tier 3 | Rate per 1,000 gal. between 45,001 & 75,000 gal./month (Seasonal) |
| Tier 4 | Rate per 1,000 gal. over 75,000 gal./month (Seasonal) |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tier 1/Base Rate | \$5.69 | \$5.70 | \$6.75 | \$7.85 | \$9.00 | \$9.27 |
| Tier 2 | \$0.87 | \$0.99 | \$1.05 | \$1.12 | \$1.20 | \$1.24 |
| Tier 3 | \$1.03 | \$1.17 | \$1.25 | \$1.33 | \$1.42 | \$1.46 |
| Tier 4 | \$1.56 | \$1.77 | \$1.89 | \$2.01 | \$2.15 | \$2.21 |

Lot Size: 0.25 to 0.49 acres (Multiply Base Rate and Usage by 1)

Lot Size: 0.50 to 0.99 acres (Multiply Base Rate and Usage by 2)

Lot Size: 1.00 acre or more (Multiply Base Rate and Usage by 5)

Residential lots greater than 0.49 acres may request the District to evaluate the lot's actual irrigable acreage. The base rate will be calculated by a multiplier (rounded to the next whole number) in increments of 0.20 acres.

Commercial

| <u>Tier</u> | <u>Description</u> |
|------------------|---|
| Tier 1/Base Rate | Minimum Fee per month year-round regardless of usage |
| Tier 2 | Rate per 1,000 gal. for first 45,000 gal./month (Seasonal) |
| Tier 3 | Rate per 1,000 gal. between 45,001 & 75,000 gal./month (Seasonal) |
| Tier 4 | Rate per 1,000 gal. over 75,000 gal./month (Seasonal) |

| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Tier 1/Base Rate | \$5.69 | \$5.70 | \$6.75 | \$7.85 | \$9.00 | \$9.27 |
| Tier 2 | \$0.87 | \$0.99 | \$1.05 | \$1.12 | \$1.20 | \$1.24 |
| Tier 3 | \$1.03 | \$1.17 | \$1.25 | \$1.33 | \$1.42 | \$1.46 |
| Tier 4 | \$1.56 | \$1.77 | \$1.89 | \$2.01 | \$2.15 | \$2.21 |

District will determine irrigation area based on approved plans which will then be used to determine the secondary water rate applied to the lot. The base rate will be calculated by a multiplier (rounded to the next whole number) in increments of 0.20 acres.

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Sewer Rates:

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Residential</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
| | \$29.81 | \$31.09 | \$32.37 | \$33.73 | \$35.17 | \$36.23 |

Commercial

See Tiers 1 & 2 below

| | |
|------------------|---|
| Tier 1/Base Rate | Minimum fee per month, includes the first 267 gallons per day of metered culinary water |
| Tier 2 | Rate per 1,000 gallons of metered culinary water in excess of 267 gallons per day |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Tier</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> |
| Tier 1 | \$29.81 | \$31.09 | \$32.37 | \$33.73 | \$35.17 | \$36.23 |
| Tier 2 | \$1.23 | \$1.39 | \$1.55 | \$1.72 | \$1.90 | \$1.96 |

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CONNECTION / IMPACT FEES:

Water Impact Fee: Impact fees will be based on the cost per Equivalent Residential Unit (ERU) as defined in the District’s most current impact fee resolution. ERU equivalency will be based on type of development as defined in the following sections. The District approves the size and type of meter.

Water Impact Fee, per ERU

| Calendar Year | 2021 | 2022 | 2023 | 2024 | 2025 |
|--------------------------|------------|------------|------------|------------|------------|
| Total Overall Fee | \$7,232.00 | \$7,368.00 | \$7,493.00 | \$7,610.00 | \$7,743.00 |

Single Family Residential

Water ERUs for single family residential units and duplexes:

ERU Adjustments by Lot Size and Landscape Type

| Lot Size | Maximum Culinary Meter Size | Maximum Secondary Meter Size | Indoor Use (ERUs) | Outdoor Use (ERUs) | Outdoor Use with Approved Landscape Plan (ERUs) |
|-------------|-----------------------------|------------------------------|-------------------|--------------------|---|
| 0 - 0.14 | 5/8" | 3/4" | 0.46 | 0.33 | 0.20 |
| 0.14 - 0.30 | 5/8" | 1" | 0.46 | 0.54 | 0.42 |
| 0.30 - 0.60 | 5/8" | 1" | 0.46 | 1.12 | 0.90 |
| >0.60 | 5/8" | * | 0.425 | * | * |

*Determined by District Engineer. Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

**Where secondary service is not available, culinary meter may be increased at the District Engineers discretion to account for outdoor use.

Multi-Unit Residential

Water ERUs for multi-unit residential developments:

| Unit Size | Definition | Indoor Use (ERUs) | Outdoor Use (ERUs)* |
|-----------------|---|-------------------|---------------------------------|
| Small | Multi-family units meeting <u>all</u> of the following criteria: ≤ 1 bedroom, ≤ 1 bathroom, ≤ 1,000 SF | 0.28 per unit | Determined by District Engineer |
| All Other Units | Multi-family units with <u>any</u> of the following: >1 bed, >1 bath, >1,000 SF | 0.46 per unit | Determined by District Engineer |

* Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

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Non-Residential

Water ERUs for non-residential developments shall be determined by the greater of the following:

- (a) Calculate the number of ERUs based on the annual average daily demand (in gpd) of the proposed development divided by 582 gpd.
- (b) Calculated the number of ERUs based on meter equivalency per the following table:

**Minimum Culinary Water Impact Fee Table for Meters
(AWWA Meter Capacity Ratios)**

| Meter Size | Meter Type | Meter Capacity (gpm) | ERUs |
|-------------|------------|----------------------|-------|
| 5/8" & 3/4" | Pos Displ | 30 | 1.00 |
| 1" | Pos Displ | 50 | 1.67 |
| 1-1/2" | Pos Displ | 100 | 3.33 |
| 2" | Pos Displ | 160 | 5.33 |
| 1-1/2" | Turbine | 100 | 3.33 |
| 2" | Turbine | 160 | 5.33 |
| 3" | Turbine | 350 | 11.67 |
| 4" | Turbine | 600 | 20.00 |
| 6" | Turbine | 1,250 | 41.67 |
| 8" | Turbine | 1,800 | 60.00 |
| 2" | Compound | 160 | 5.33 |
| 3" | Compound | 320 | 10.67 |
| 4" | Compound | 500 | 16.67 |
| 6" | Compound | 1,000 | 33.33 |
| 8" | Compound | 1,600 | 53.33 |

Secondary Water Use

For commercial developments with a separate secondary meter for outdoor use, add the following for outdoor use to the value calculated for culinary ERUs: Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

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Sewer Impact Fee: Impact fees will be based on the cost per Equivalent Residential Unit (ERU) as defined in the District’s most current impact fee resolution. ERU equivalency will be based on type of development as defined in the following sections.

Sewer Impact Fee, per ERU

| Calendar Year | 2021 | 2022 | 2023 | 2024 | 2025 |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Total Overall Fee | \$3,729.00 | \$3,845.00 | \$3,952.00 | \$4,052.00 | \$4,181.00 |

Single Family Residential

Sewer ERUs for single family residential units and duplexes:

1 ERU per Single Family Residence

Multi-Unit Residential

Sewer connection / impact fees for multi-unit residential developments:

| Unit Size | Definition | Sewer ERUs |
|------------------|---|-------------------|
| Small | Multi-family units meeting <u>all</u> of the following criteria: ≤ 1 bedroom, ≤ 1 bathroom, ≤ 1,000 SF | 0.61 per unit |
| All Other Units | Multi-family units with <u>any</u> of the following: >1 bed, >1 bath, >1,000 SF | 1.0 per unit |

Non-Residential

Sewer ERUs for non-residential developments:

ERU is to be determined by the District Engineer’s estimated water use tables for similar developments. The District Engineer may adjust the estimate as necessary to be appropriate for the proposed development. An ERU is determined by the estimated indoor water use divided by 231.6 gpd per unit.

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METER SET FEES:

| Culinary Water | Meter Size | Meter Type | AWWA Safe Operating Capacity (gpm) | Meter Set Fee |
|---|-------------------|-------------------|---|----------------------|
| (Includes District's meter, strainer & labor to install meter in customer supplied meter box or vault. The District will determine the meter type for each connection.) | 5/8" | Pos Displ | 20 | \$387.00 |
| | 3/4" | Pos Displ | 30 | \$443.00 |
| | 1" | Pos Displ | 50 | \$499.00 |
| | 1-1/2" | Pos Displ | 100 | \$750.00 |
| | 2" | Pos Displ | 160 | \$892.00 |
| | 1-1/2" | Ultrasonic | 100 | \$810.00 |
| | 2" | Ultrasonic | 160 | \$1,150.00 |
| | 3" | Ultrasonic | 350 | \$1,599.00 |
| | 4" | Ultrasonic | 600 | \$2,261.00 |
| | 6" | Ultrasonic | 1250 | \$3,788.00 |
| | 8" | Ultrasonic | 1800 | \$5,303.00 |
| | 2" | Compound | 160 | \$2,138.00 |
| | 3" | Compound | 320 | \$2,630.00 |
| | 4" | Compound | 500 | \$3,300.00 |
| | 6" | Compound | 1000 | \$5,300.00 |
| 6"x8" | Compound | 1600 | \$8,530.00 | |

| Secondary Water | Meter Size | Meter Type | AWWA Safe Operating Capacity (gpm) | Meter Set Fee |
|---|-------------------|-------------------|---|----------------------|
| (Includes District's meter, strainer & labor to install meter in customer supplied meter box or vault. The District will determine the meter type for each connection.) | 5/8" | Ultrasonic | 20 | \$443.00 |
| | 3/4" | Ultrasonic | 30 | \$443.00 |
| | 1" | Ultrasonic | 50 | \$499.00 |
| | 1-1/2" | Ultrasonic | 100 | \$810.00 |
| | 2" | Ultrasonic | 160 | \$1,150.00 |
| | 3" | Ultrasonic | 350 | \$1,599.00 |
| | 4" | Ultrasonic | 600 | \$2,261.00 |
| | 6" | Ultrasonic | 1250 | \$3,788.00 |
| 8" | Ultrasonic | 1800 | \$5,303.00 | |

Fire Mainline Detector Check Meter \$387.00 per 5/8" meter

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FEES AND PENALTIES:

| | |
|--|--|
| Delinquency Fee | \$10.00 - \$20.00 |
| Conservation Violation Fee | \$25.00 |
| Re-connection Fee | \$100 per service being re-connected, plus actual costs of disconnection, re-connection, and inspections, if any |
| Tampering Fee | \$200 plus 1.5 times actual costs, if any |
| Serious Rules Violation Fee | \$500 plus 1.5 times actual costs, if any |
| Permit Violation Fee | \$1,000 plus 1.5 times actual costs, if any |
| Non-Resident Rate | 2.5 times the normal rate |
| Discount on Multiple Units | \$0.50 per unit for culinary water service \$0.50 per unit for sanitary sewer service |
| Discount for Activated Military Reservists | 20% off the normal minimum monthly service fees |
| Fire Hydrant Meter Deposit (refundable) | \$1,800.00 |
| Fire Hydrant Meter Usage Fee | \$100.00 setup + \$25.00 per week + \$4.50 per 1,000 gallons used (Additional \$300.00 per week if meter reading is not reported) |
| Wastewater Discharge and Dumping Permit | a) \$500.00/yr. Industrial Permit b) \$50.00/yr. Commercial Permit |
| Dumping Fee | a) \$12.00 Generator Permit b) \$12.00 Hauler Permit c) \$196.00/ton Holding Tank/Septage Waste |
| Legal Review Fee | \$200.00 |
| Service Availability Letter | \$30.00 per letter per service |
| Preliminary Engineering and the Engineer's Service Availability Letter | \$900.00 |

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| | |
|---|--|
| Engineering Review Fee | \$450.00 + \$0.60/foot of pipeline. A separate fee is calculated for each service (e.g., culinary water, secondary water, and sewer service). This fee is for project and plan review by District Staff and the District Engineer and includes facilities design review. |
| Hydraulic Modeling | \$400.00/development |
| Bonding & Fee Calculations | \$300.00/development |
| Extension Agreement, Submittal & preconstruction Conference Fee | \$750.00/development |
| Punchlist, Warranty Review And project acceptance fee | \$500.00/development |
| Asbuilt GIS Fee | \$250.00/development |
| Meter Flow Test Fee | \$25.00 per test |
| Relocation of Water Lateral and Meter Box | \$2,700.00 per box, if done by the District |
| Permanent Water or Sewer Line Disconnection (cut & cap) and Removal of Meter Box | \$1,500.00 per connection, if done by the District |

ADDITIONAL ENGINEERING FEES IF APPLICABLE TO DEVELOPMENT:

| | |
|--|----------------------|
| Legal Description and Easement Review Fee | \$400.00/development |
| Special service area/ DWSP zone review Fee | \$150.00/development |
| Secondary water cost share/ Upsize review fee | \$300.00/development |
| Pretreatment review fee | \$200.00/development |

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INSPECTION FEES:

| Fee | Amount | Paid by * | |
|--|---|-----------|---|
| | | D | H |
| Water Mainline Construction Inspection Fee | \$350 + \$0.60/foot for inspection of culinary or secondary lines | x | |
| Sewer Mainline Construction Inspection Fee | \$350 + \$0.90/foot for inspection of sewer lines | x | |
| Sewer Mainline Video Inspection Fee | \$175 + \$0.83/foot for inspection of sewer lines | x | |
| Hot Tap or Cut In Mainline Connection Inspection Fee | \$794.00 per mainline connection | x | |
| Asbestos Cement Mainline Connection Inspection Fee | \$1,072.00 per mainline connection | x | |
| Manhole Inspection Fee | \$350.00 per manhole | x | |
| Large Vault Inspection Fee | \$575.00 per vault | x | |
| Single Fire Hydrant Mainline Connection Inspection Fee | \$339.00 per inspection | x | x |
| Large Meter Periodic Filter /Sampling Inspection Fee | \$85.00 per inspection or sampling | x | |
| Water Lateral Tap Inspection Fee | \$85.00 for each new or replacement connection | x | x |
| Water Lateral Connection Inspection Fee | \$85.00 for each new or replacement connection, each disconnection, and each re-connection | | x |
| Sewer Lateral Connection Inspection Fee | \$240.00 for each new or replacement connection, each disconnection, and each re-connection | | x |
| Sewer Special Wye Construction Inspection Fee | \$85.00 per wye | | x |
| Asbuilt GPS Survey Fee | \$250.00 per development | x | |
| Pressure Testing, punchlist and warranty inspections fee | \$500.00 per development | x | |
| Re-inspections & Inspection Overages | \$66 per hour (used at the discretion of the District to cover the cost of additional inspections caused by contractor) | x | x |

* This “Paid by” chart is a non-binding general guideline as to who typically pays this fee. It may vary by project.

**Magna Water District
Administrative Rules and Regulations**

19 February 2026

An “x” in the “D” column indicates that the Developer typically pays this fee in accordance with an “Extension Agreement” with the District.

An “x” in the “H” column indicates that typically there is no “Extension Agreement” involved and that the Homeowner or Builder is typically responsible for payment of this fee.

Fees associated with Document Requests under the GRAMA Act:

| | |
|--|-----------------|
| Reviewing a record to determine whether it is subject to disclosure | No Charge |
| Inspection of record by requesting person | No Charge |
| Copy fee for District prepared copies | \$1.00 per page |
| Computer Disk (including overhead and time of District staff in preparation of information request, with a minimum of \$5.00) | Actual Cost |
| Other Forms including Maps (including overhead and time of District staff or outside consultant in preparation of information request, with a minimum of \$1.00 per page) | Actual Cost |
| Miscellaneous Fees (including overhead and time of District staff or outside consultant in preparation of information request, with a minimum of \$1.00 per page) | Actual Cost |

**Magna Water District
Administrative Rules and Regulations**

19 February 2026

ADDENDUM A -- CONTROLLED POLLUTANTS SURCHARGE SCHEDULE

Sewage Surcharge. All persons discharging sewage into the public sewers shall be subject to a surcharge, in addition to all other sewer service charges, if these wastes have concentration greater than the following:

- (a) BOD of 200 ppm; or
- (b) a suspended solids content of 250 ppm.

Computation of surcharge. The computation of the sewage surcharge shall be determined by the following formula:

SC Calculation:

$$SC = VS \times 8.34(BOD - 200) \times RBOD$$

or

$$SC = VS \times 8.34(SS - 250) \times RSS$$

SC = surcharge in dollars.

VS = volume of sewage in millions of gallons for the billing period.

8.34 = conversion factor to convert BOD and SS from ppm to pounds

RBOD = unit charge for BOD in dollars per pounds.

BOD = biochemical oxygen demand strength index in parts per million by weight.

RSS = unit charge for SS in dollars per pound.

SS = suspended solids strength index in parts per million by weight

Rates of Surcharge. The rates of the industrial waste surcharge for each of the following constituents shall be as follows:

- (a) For RBOD.....\$ 0.20 per pound
- (b) For RSS.....\$ 0.15 per pound

WATER IFFP & IFA



Prepared for:



Prepared by:



Magna Water District Water IFFP & IFA

January 2026

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Water Impact Fee Facilities Plan

January 2026

Prepared for:



Prepared by:



EXECUTIVE SUMMARY WATER IMPACT FEE FACILITIES PLAN

The purpose of an impact fee facilities plan is to identify demands placed upon District facilities by future development and evaluate how these demands will be met by the District. The IFFP is also intended to outline the improvements which may be funded through impact fees.

WHY IS AN IFFP NEEDED?

The IFFP provides a technical basis for assessing updated impact fees throughout the District. This document addresses the future infrastructure needed to serve the District. The existing and future capital projects documented in this IFFP will ensure that level of service standards are maintained for all existing and future residents who reside within the service area. Local governments must pay strict attention to the required elements of the Impact Fee Facilities Plan which are enumerated in the Impact Fees Act.

PROJECTED FUTURE GROWTH

To evaluate the use of existing capacity and the need for future capacity, it is first necessary to calculate the demand associated with existing development and projected growth. Using available information for existing development and growth projections from the District's Water Master Plan, projected growth in system demand is summarized in Table ES-1.

**Table ES-1
Peak Day Demand**

| Year | Total ERUs | Irrigated Acres | Peak Day Demand ¹ (mgd) | Peak Day Demand ¹ (gpm) |
|------|------------|-----------------|------------------------------------|------------------------------------|
| 2025 | 10,710 | 1,040 | 14.39 | 9,995 |
| 2030 | 11,738 | 1,097 | 14.77 | 10,254 |
| 2035 | 12,751 | 1,151 | 15.19 | 10,547 |
| 2040 | 13,676 | 1,209 | 15.58 | 10,820 |
| 2045 | 14,662 | 1,256 | 16.08 | 11,164 |
| 2050 | 15,692 | 1,307 | 16.60 | 11,526 |
| 2055 | 16,841 | 1,362 | 17.17 | 11,921 |
| 2060 | 17,998 | 1,418 | 17.72 | 12,305 |
| 2065 | 19,160 | 1,474 | 18.26 | 12,678 |
| 2070 | 20,136 | 1,514 | 18.85 | 13,090 |
| 2075 | 21,162 | 1,551 | 19.42 | 13,485 |
| 2080 | 22,184 | 1,587 | 19.99 | 13,880 |
| 2085 | 23,207 | 1,623 | 20.56 | 14,276 |
| 2090 | 23,309 | 1,627 | 20.61 | 14,315 |

¹Total indoor and outdoor system demand

Demands are projected in terms of Equivalent Residential Units (ERUs). An ERU represents the demand that a typical single-family residence places on the system. The basis of an ERU for historical flow rates is summarized in Table ES-2.

**Table ES-2
Magna Service Area Historic Flows for Planning**

| Item | Value for Existing Conditions |
|-------------------------------------|--------------------------------------|
| Estimated Population | 33,424 |
| Equivalent Residential Units (ERUs) | 10,710 |
| Average Day Flow (mgd) | 6.24 |
| Average Day, Indoor Flow (mgd) | 2.65 |
| Peak Day Flow (mgd) | 14.39 |
| Peak Hour Flow (mgd) | 23.03 |
| Flows per ERU | |
| Average Day Flow (gpd/ERU) | 582 |
| Average Day, Indoor Flow (gpd/ERU) | 247 |
| Peak Day Flow (gpd/ERU) | 1,344 |
| Peak Hour Flow (gpm/ERU) | 1.49 |

LEVEL OF SERVICE

Level of service is defined in the Impact Fees Act as “the defined performance standard or unit of demand for each capital component of a public facility within a service area.” Performance standards are those standards that are used to design and evaluate the performance of facilities. While the Impact Fees Act includes “defined performance standard” as part of the level of service definition, this report will make a subtle distinction between performance standard and level of service. The performance standard will be considered the desired minimum level of performance for each component, while the existing level of service will be the actual current performance of the component and the proposed level of service will be the proposed actual performance of the component in the future. Summary values for each of these categories are contained in Table ES-3.

**Table ES-3
Performance Standards and Level of Service
for Various System Requirements**

| | Existing Performance Standard | Existing Level of Service | Proposed Performance Standard |
|--|--|--|--|
| Production Capacity | | | |
| Production Capacity (gpd/ERU) ¹ | 1,493 | 1,973 | 1,323 |
| Storage | | | |
| Storage (gallons/ERU) ² | 672 | 1,666 | 596 |
| Conveyance (Transmission, Pumping, and Distribution) | | | |
| Culinary Peak Day Demand Pressure (psi) / Percent of System that Meets the Standard | 40 / 100% | 100% | 40 / 100% |
| Culinary Peak Hour Demand Pressure (psi) / Percent of System that Meets the Standard | 30 / 100% | 100% | 30 / 100% |
| Culinary Maximum Pipe Velocity (feet per second) / Percent of System that Meets the Standard | 7 / 100% | 99.9% | 7 / 100% |
| Secondary Peak Hour Demand Pressure (psi) / Percent of System that Meets the Standard | 30 / 100% | 100% | 30 / 100% |
| Minimum Available Fire Flow at 20 psi during Peak Day Demand (gpm) / Percent of System that Meets the Standard | 1500 ³ / 100% | 93.8% | 1500 ³ / 100% |
| Maximum Pipe Velocity Peak Hour (feet per second) | 10 / 100% | 100% | 7.0 / 100% |
| Administration and Service Buildings | | | |
| Available Space to Required Need Ratio | 1.0 | 1.0 | 1.0 |

¹ This includes the District’s recommended safety factor for reliability and redundancy for peak day demand of the culinary and secondary water systems. Proposed performance standard decreases slightly from existing as a result of conservation and more demand over which the reliability and redundancy safety factor is applied.

² Does not include fire flow storage, only equalization storage. Shown for services using culinary water for outdoor irrigation (the more common scenario currently).

³ Shown for typical residential need. Actual fire flow requirements for individual structures per fire code as documented in the Master Plan.

EXISTING CAPACITY AVAILABLE TO SERVE FUTURE GROWTH

Projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Defining existing system capacity in terms of a single number is difficult. To improve the accuracy of the analysis, the system was divided into different components (production capacity, storage, conveyance, and administration & service buildings). Excess capacity in each component of the system is summarized in Tables ES-4.

**Table ES-4
Excess Capacity Available in Existing Assets**

| Use Category | Production | Storage | Conveyance (Transmission and Pumping) | Administrative and Service Buildings |
|-------------------------------|-------------------|----------------|--|---|
| Existing | 72.85% | 44.51% | 77.97% | 55.90% |
| 10-year Growth | 14.27% | 13.68% | 6.06% | 10.65% |
| Growth Beyond 10 Years | 12.88% | 41.81% | 15.96% | 33.45% |
| Total | 100.00% | 100% | 100% | 100% |

REQUIRED SYSTEM IMPROVEMENTS

Beyond available existing capacity, additional improvements required to serve new growth are summarized in Table ES-5. To satisfy the requirements of state law, Table ES-5 provides a breakdown of the percentage of the project costs attributed to existing and future users. For future use, capacity has been divided between capacity to be used by growth within the 10-year planning window of this IFFP and capacity that will be available for growth beyond the 10-year window.

**Table ES-5
Water Project Costs Allocated to Projected Development, 10-year Planning Window**

| Project No. | Construction Timeframe | Description | Project Cost | Percent to Existing | Percent to 10-year | Percent to Growth Beyond 10-Year | Cost to Existing | Cost to 10-Year | Cost to Growth Beyond 10-Year |
|--|------------------------|--------------------------------------|---------------------|---------------------|--------------------|----------------------------------|--------------------|--------------------|-------------------------------|
| Culinary Storage Facilities | | | | | | | | | |
| CS-2 | 5-10 | Zone 3 III Culinary | \$2,450,000 | 0.0% | 34.1% | 65.9% | \$0 | \$834,274 | \$1,615,726 |
| Secondary Storage Facilities | | | | | | | | | |
| SS-1 | 0-5 | Zone 3 Secondary & SD-23 | \$1,847,000 | 32.2% | 18.0% | 49.9% | \$594,252 | \$331,772 | \$920,976 |
| Booster Stations | | | | | | | | | |
| CBS-1 | 5-10 | Zone 3 II Culinary | \$775,000 | 39.8% | 19.8% | 40.4% | \$308,260 | \$153,608 | \$313,131 |
| SBS-3 | 0-5 | Zone 2 II Secondary (8000 West) | \$200,000 | 3.4% | 28.6% | 68.0% | \$6,752 | \$57,291 | \$135,957 |
| Source Production | | | | | | | | | |
| S-4 | 0-5 | Well Field SCADA | \$700,000 | 99.2% | 0.8% | 0.0% | \$694,590 | \$5,410 | \$0 |
| S-5 | 0-5 | EDR 3rd Stage | \$3,000,000 | 99.2% | 0.8% | 0.0% | \$2,976,815 | \$23,185 | \$0 |
| Culinary Distribution Improvements | | | | | | | | | |
| CD-1 | 0-5 | Zone 3 Conveyance | \$397,000 | 0.0% | 32.5% | 67.5% | \$0 | \$128,886 | \$268,114 |
| CD-5 | 0-5 | Zone 3 Conveyance 33% | \$1,303,000 | 0.0% | 32.5% | 67.5% | \$0 | \$423,017 | \$879,983 |
| CD-9 | 0-5 | Zone 1 Conveyance | \$2,509,000 | 0.0% | 49.0% | 51.0% | \$0 | \$1,229,837 | \$1,279,163 |
| CMC-1 | 0-5 | 8800 W, 3100 S to 2600 S Pipe Upsize | \$1,194,000 | 0.0% | 49.0% | 51.0% | \$0 | \$585,263 | \$608,737 |
| CPZ-1 | 5-10 | 3000 S, 9200 W to 9000 W Zone Change | \$313,000 | 95.3% | 0.9% | 3.8% | \$298,395 | \$2,738 | \$11,866 |
| CDE-1 | 0-5 | Twain Dr & Thoreau Dr Dead-End | \$22,000 | 76.7% | 11.4% | 11.9% | \$16,881 | \$2,509 | \$2,610 |
| CDE-2 | 0-5 | Westbury Dr, 8070 W & 8035 W | \$31,000 | 76.7% | 11.4% | 11.9% | \$23,787 | \$3,535 | \$3,677 |
| | | Subtotal Culinary Pipe | \$5,769,000 | | | | | | |
| Secondary Distribution Improvements | | | | | | | | | |
| SD-1 | 0-5 | 3100 S, Dayton St to 7900 W | \$973,000 | 3.4% | 28.6% | 68.0% | \$32,847 | \$278,722 | \$661,431 |
| SD-2 | 0-5 | 3100 S, 7900 W to 7600 W | \$1,304,000 | 3.4% | 28.6% | 68.0% | \$44,021 | \$373,539 | \$886,440 |
| SD-4 | 0-5 | Kennecott Foothills Development | \$672,000 | 0.0% | 27.1% | 72.9% | \$0 | \$181,817 | \$490,183 |
| SD-8 | 0-5 | 3100 S, 7600 W to 7200 W | \$1,143,000 | 68.9% | 4.1% | 26.9% | \$787,663 | \$47,378 | \$307,959 |
| SD-14 | 5-10 | SR201 Southside, 7600 W to 8400 W | \$964,000 | 0.0% | 30.1% | 69.9% | \$0 | \$290,418 | \$673,582 |
| SD-15 | 5-10 | 8400 W, 2600 S to SR201 | \$489,000 | 0.0% | 30.1% | 69.9% | \$0 | \$147,318 | \$341,682 |
| SD-16 | 0-5 | 8000 W Booster Piping | \$1,122,000 | 3.4% | 28.6% | 68.0% | \$37,877 | \$321,404 | \$762,719 |
| SD-22 | 0-5 | Zone 3, 8200 W Pipe | \$784,000 | 31.7% | 27.1% | 41.2% | \$248,524 | \$212,119 | \$323,357 |
| SD-24 | 5-10 | Zone 1 Transmission at Golf Course | \$2,813,000 | 0.0% | 30.1% | 69.9% | \$0 | \$847,454 | \$1,965,546 |
| SD-25 | 5-10 | Zone 1 Kennecott Foothills | \$752,000 | 0.0% | 30.8% | 69.2% | \$0 | \$231,737 | \$520,263 |
| SD-30 | 5-10 | Belfast Dr Connection | \$798,000 | 83.1% | 0.0% | 16.9% | \$663,005 | \$0 | \$134,995 |
| | | Subtotal Secondary Pipe | \$11,814,000 | | | | | | |
| | | Total | \$26,555,000 | | | | \$6,733,670 | \$6,713,233 | \$13,108,097 |

IMPACT FEE FACILITIES PLAN

INTRODUCTION

Magna Water District (District) has retained Bowen Collins & Associates (BC&A) to prepare an impact fee facilities plan (IFFP) for water supply and distribution provided by the District. The purpose of an IFFP is to determine the public facilities required to service development resulting from new development activity. The IFFP is also intended to outline the improvements which may be funded through impact fees.

Much of the analysis forming the basis of this IFFP has been taken from the District's updated water master plan prepared by BC&A. The reader should refer to the master plan study for additional discussion of planning and evaluation methodology beyond what is contained here. Magna Water District intends to use its culinary water and secondary irrigation systems as equally important parts of its overall water delivery system. Because the secondary irrigation system will offset demands on the District's culinary water system components (pipes, storage tanks, pumps, etc.), all culinary water or secondary irrigation projects will be included in a combined water impact fee assessed by Magna Water District.

Requirements for the preparation of an IFFP are outlined in Title 11, Chapter 36a of the Utah Code (the Impact Fees Act). Under these requirements, an IFFP shall accomplish the following for each facility:

1. Identify the existing level of service
2. Establish a proposed level of service
3. Identify excess capacity to accommodate future growth at the proposed level of service
4. Identify demands placed upon existing public facilities by new development
5. Identify the means by which demands from new development will be met
6. Consider the following additional issues
 - a. revenue sources to finance required system improvements
 - b. necessity of improvements to maintain the proposed level of service
 - c. need for facilities relative to planned locations of schools

The following sections of this report have been organized to address each of these requirements.

EXISTING LEVEL OF SERVICE - 11-36a-302(1)(a)(i)

Level of service is defined in the Impact Fees Act as “the defined performance standard or unit of demand for each capital component of a public facility within a service area.” This section discusses the level of service being currently provided to existing users.

Unit of Demand

The projected flow used to design and evaluate system components will vary depending on the nature of each component. For example, water rights are often evaluated based on average annual yields. Conversely, transmission pipelines must be designed based on peak hour flow. For the purposes of this analysis, it is useful to define these various demands in terms of Equivalent Residential Units (ERUs). An ERU represents the demand that a typical single-family residence places on the system. The basis of an ERU using historical flow rates is summarized in Table 1. Additional detail regarding the calculation of values used in the definition of an ERU are contained in the District’s Water Master Plan.

Table 1
Magna Water District Service Area Historic Flows for Planning

| Item | Value for Existing Conditions |
|-------------------------------------|-------------------------------|
| Estimated Population | 33,424 |
| Equivalent Residential Units (ERUs) | 10,710 |
| Average Day Flow (mgd) | 6.24 |
| Average Day, Indoor Flow (mgd) | 2.65 |
| Peak Day Flow (mgd) | 14.39 |
| Peak Hour Flow (mgd) | 23.03 |
| Flows per ERU | |
| Average Day Flow (gpd/ERU) | 582 |
| Average Day, Indoor Flow (gpd/ERU) | 247 |
| Peak Day Flow (gpd/ERU) | 1,344 |
| Peak Hour Flow (gpm/ERU) | 1.49 |

Performance Standard

Performance standards are those standards that are used to design and evaluate the performance of facilities. While the Impact Fees Act includes “defined performance standard” as part of the level of service definition, this report will make a subtle distinction between performance standard and level of service. The performance standard will be considered the desired minimum level of performance for each component, while the existing level of service will be the actual current performance of the component. Thus, if the existing level of service is less than the performance standard it is a deficiency. If it is greater than the performance standard it may indicate excess capacity. This section discusses the existing performance standards for the District. A subsequent section will consider existing level of service relative to these standards.

To improve the accuracy of the analysis, this impact fee facilities plan has divided the system into different components:

- Production Capacity
- Storage
- Conveyance (Transmission, Distribution, and Pumping)
- Administrative and Service Buildings

Each of these components has its own set of performance standards:

Production Capacity. Water production must be adequate to satisfy demands on both an annual and peak day basis. Production of supplies must take into account seasonal limitations in supply availability and reductions in yield because of dry year conditions. For peak day demands, the District requires a 10 percent source redundancy requirement for culinary and a 2,000 gpm buffer for secondary irrigation. This source redundancy is to account for mechanical failures amongst its various water sources. For annual demands, the District requires a 10 percent source buffer for culinary water and a 671 acre-foot buffer for secondary water related to the reliability of canal shares and other sources as a result of drought, contamination, and other longer-term interruptions to supply.

Storage. Three major criteria are generally considered when sizing storage facilities for a water distribution system: operational or equalization storage, fire flow storage, and emergency or standby storage.

1. **Operational/Equalization Storage:** Operational/equalization storage is the storage required to satisfy the difference between the maximum rate of supply and the rate of demand during peak conditions. Sources, major transmission pipelines, and pump stations are usually sized to convey peak day demands to optimize the capital costs of infrastructure. During peak hour demands, storage is needed to meet the difference in source/conveyance capacity and the increased peak instantaneous demands. Based on the historic usage, the equalization storage for culinary demands in the District was calculated to be 25 percent of average peak day demands.
2. **Fire Flow Storage:** Fire flow storage is the amount of water needed to combat fires occurring in the distribution system. Required fire flow storage is calculated based on the fire flow rate for structures in each area of the system multiplied by a specified duration as required by the fire authority or a fire suppression system engineer. Storage requirements vary between 180,000 gallons and 540,000 gallons depending on facilities within the service area of the tank.
3. **Emergency Storage:** Emergency or standby storage is the storage needed to meet demands in the event of an unexpected emergency situation such as a line break, treatment plant failure, or other unexpected event. For the District, the critical scenario appears to be providing water during a power outage during the peak day. The level of service established for existing customers is to provide 6 hours of peak day demand of emergency storage.

In addition to these baseline requirements, the combined operational and emergency storage can be no less than the average day demand per State of Utah requirements. Storage requirements are calculated for the system as a whole and for each individual zone.

Conveyance. Based on input from District staff, the following criteria were used as the performance standards for major conveyance facilities:

1. The system was evaluated for existing conditions and projected conditions at buildout. Each demand scenario included model runs at both peak day and peak hour demand.
2. Under peak day demand, the system must be capable of maintaining constant levels at all system tanks and reservoirs.
3. The District tries to maintain pressure between 60 psi and 120 psi for the full range of demands (peak hour and to static conditions). Where topography would require a large number of pressure reducing valves (terrain slopes greater than 5 percent) to maintain pressures in that range, the District should be capable of maintaining at least 40 psi during peak day demand and 30 psi during peak hour demand, which is consistent with State standards (State of Utah Administrative Rule R309-105-9).
4. Fire flow demands on the culinary system may range between 1,000 gpm and 4,000 gpm depending on specific fire suppression requirements as specified by the District's Fire Marshal (Unified Fire Authority). In no case does the District allow residual fire flow pressure to drop below State of Utah minimum requirements (20 psi) during peak day demand.

The performance standard defines the level of service the District has established to satisfy District and/or State performance requirements. For culinary water, this standard has been based on current District standards and requirements of the State of Utah Division of Drinking Water.

Administrative and Service Buildings. In addition to the water system needs, Magna Water District personnel need to be able to provide administrative and service functions for the District to satisfy a level of service for customers. The District's current administrative and service facilities are composed of a number of different components, including office space, open storage space, maintenance bays, etc., and does not have a specific performance standard. It is proposed that both existing and future users pay for these facilities in proportion to their overall use in the system. Thus, the level of service provided by the facility will be the same for existing and new users. The District's existing facilities are expected to be satisfactory to provide space for personnel through 2065 (i.e. there is some excess space available today that is available for additional personnel to fill in the future to support the needs of future users through approximately 2065). This assumes that the Little Valley service area will likely require additional admin / maintenance facilities.

Existing Level of Service

Existing level of service has been divided into the same components as identified for the system performance standard (production capacity, storage, conveyance, and administrative and service buildings). Existing level of service values are summarized in Table 2. For comparison purposes, Table 2 also includes a summary of the existing performance standards.

**Table 2
Existing Performance Standards and Level of Service
for Various System Requirements**

| | Existing Performance Standard | Existing Level of Service |
|--|--------------------------------------|----------------------------------|
| Production Capacity | | |
| Production Capacity (gpd/ERU) ¹ | 1,493 | 1,973 |
| Storage | | |
| Storage (gallons/ERU) ² | 672 | 1,666 |
| Conveyance (Transmission, Pumping, and Distribution) | | |
| Culinary Peak Day Demand Pressure (psi) / Percent of System that Meets the Standard | 40 / 100% | 100% |
| Culinary Peak Hour Demand Pressure (psi) / Percent of System that Meets the Standard | 30 / 100% | 100% |
| Culinary Maximum Pipe Velocity (feet per second) / Percent of System that Meets the Standard | 7 / 100% | 99.9% |
| Secondary Peak Hour Demand Pressure (psi) / Percent of System that Meets the Standard | 30 / 100% | 100% |
| Minimum Available Fire Flow at 20 psi during Peak Day Demand (gpm) / Percent of System that Meets the Standard | 1500 ³ / 100% | 93.8% |
| Maximum Pipe Velocity Peak Hour (feet per second) | 10 | 100% |
| Administration and Service Buildings | | |
| Available Space to Required Need Ratio | 1.0 | 1.79 |

¹This includes the District’s recommended safety factor for reliability and redundancy for peak day demand of the culinary and secondary water systems.

²Does not include fire flow storage, only equalization storage. Shown for services using culinary water for outdoor irrigation (the more common scenario currently).

³Shown for typical residential need. Actual fire flow requirements for individual structures per fire code as documented in the Master Plan.

In some cases, the District’s performance standard is higher than the existing level of service and indicates there is some deficiency in the existing system. In most cases, this is associated with limited locations in the existing system and excess capacity still may exist in other parts of the system. Excess capacity and curing of deficiencies will be discussed in subsequent sections of this report. Costs for projects to correct deficiencies that do not meet the required level of service will not be included as part of the impact fee as required by the Impact Fee Act (i.e. new users will not be required to pay to remediate existing deficiencies in the system).

PROPOSED LEVEL OF SERVICE - 11-36A-302(1)(A)(II)

The proposed level of service is the performance standard used to evaluate system needs in the future. The Impact Fees Act indicates that the proposed level of service may:

1. diminish or equal the existing level of service; or
2. exceed the existing level of service if, independent of the use of impact fees, the District implements and maintains the means to increase the level of service for existing demand within six years of the date on which new growth is charged for the proposed level of service.

By definition, the proposed future level of service will be equal to the performance standard. No changes are proposed to the current performance standard and corresponding level of service. It will be noted that there is a small change in the value of the production capacity performance standard. This is not because the requirements have changed but because the portion of capacity required for redundancy changes slightly with the overall increase in system demand. Table 3 summarizes the proposed performance standards and level of service.

**Table 3
Proposed Performance Standards and Level of Service
for Various System Requirements**

| | Proposed Performance Standard | Proposed Level of Service |
|---|--------------------------------------|----------------------------------|
| Production Capacity | | |
| Production Capacity (gpd/ERU) ¹ | 1,323 | 1,657 |
| Storage | | |
| Storage (gallons/ERU) | 596 | 1,399 |
| Conveyance (Transmission, Pumping, and Distribution) | | |
| Culinary Peak Day Demand Pressure (psi) / Percent of System that Meets the Standard | 40 / 100% | 100% |
| Culinary Peak Hour Demand Pressure (psi) / Percent of System that Meets the Standard | 30 / 100% | 100% |
| Culinary Maximum Pipe Velocity (feet per second) / Percent of System that Meets the Standard | 7 / 100% | 100% |
| Secondary Peak Hour Demand Pressure (psi) / Percent of System that Meets the Standard | 30 / 100% | 100% |
| Minimum Available Fire Flow at 20 psi during Peak Day Demand (gpm) ² / Percent of System that Meets the Standard | 1500 ² / 100% | 100% |
| Maximum Pipe Velocity Peak Hour (feet per second) | 7.0 / 100% | 100% |
| Administration and Service Buildings | | |
| Available Space to Required Need Ratio | 1.0 | 1.0 |

¹ This includes the District’s recommended safety factor for reliability and redundancy for peak day demand of the culinary and secondary water systems. Proposed performance standard decreases slightly from existing as a result of conservation and more demand over which the reliability and redundancy safety factor is applied.

² Shown for typical residential need. Actual fire flow requirements for individual structures per fire code as documented in the Master Plan.

EXCESS CAPACITY TO ACCOMMODATE FUTURE GROWTH (11-36A-302(1)(A)(III))

Projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Defining existing system capacity in terms of a single number is difficult. To improve the accuracy of the analysis, the system has been divided into different components (production capacity, storage, conveyance, and administration & service buildings). The purpose of this breakdown is to consider the available capacity for each component individually. Excess capacity in each component of the system is as follows:

Production Capacity

Over the last several years, the District has completed a number of treatment projects to enable the District to use reuse water as secondary irrigation water. The pump station to deliver this water came online in October 2024. This project was constructed to fill a redundancy gap in the District’s system and to meet the needs of future growth. Excess capacity for production has therefore been divided between the District’s other sources and the new reuse production capacity as listed in Table 4. Reuse has been primarily built to free up existing culinary supplies to meet new growth.

**Table 4
Production Excess Capacity**

| Use Category | Culinary Wells & Treatment | Shallow Wells and Canal Shares | Reuse Project |
|-------------------------------|----------------------------|--------------------------------|---------------|
| Existing Use | 99.2% | 100.0% | 0.0% |
| Use by 10-Year Growth | 0.8% | 0.0% | 51.6% |
| Use by Growth Beyond 10 years | 0.0% | 0.0% | 48.4% |
| Total | 100% | 100% | 100% |

Storage

The District owns and operates a number of storage reservoirs. Table 5 summarizes the storage volume in the District’s existing reservoirs. The existing and projected future use of existing storage capacity is also summarized in Table 5. Total percent use of capacity has been weighted by the documented actual cost of capacity in each reservoir.

Since all new users will be connected to the proposed secondary irrigation system, new users will only occupy the “indoor water use” portion of storage in the District’s culinary water storage tanks. Storage for “outdoor water use” will be provided by a new secondary irrigation storage tank. This has been accounted for in the percentages shown in Table 5 in order to avoid double charging new users for the capacity in the existing and future facilities.

**Table 5
Existing Storage Facilities**

| Tank Service Area | Available Storage (gallons) | Existing Use | Use by 10-Year Growth | Use by Growth Beyond 10 Years |
|-------------------------------|-----------------------------|--------------|-----------------------|-------------------------------|
| Culinary | | | | |
| Zone 3 Tank | 1,250,000 | 45.32% | 18.62% | 36.06% |
| 4100 South & Bacchus | 10,500,000 | 66.84% | 0.00% | 33.16% |
| 3500 South & 7600 West | 7,000,000 | 54.13% | 2.32% | 43.55% |
| Secondary | | | | |
| Zone 3 Reservoir ¹ | | 32.17% | 17.96% | 49.86% |
| Zone 2 Reservoir | 6,270,000 | 83.07% | 0.00% | 16.93% |
| 3500 South | 5,050,000 | 94.79% | 5.21% | 0.00% |

¹This reservoir is under construction, but the land was purchased previously.

Conveyance (Transmission, Pumping, and Distribution)

To calculate the percentage of existing capacity to be used by future growth in existing facilities, existing and future flows were examined in the system hydraulic computer model. Because pipelines and pump stations are closely related within the operation of the system, these two components were grouped for the purposes of this analysis. In gravity systems such as sewer and storm drain, it is usually possible to do an analysis of available capacity on a pipe by pipe basis. Unfortunately, this is often not the case with pressurized water systems. Identifying how much 10-year growth and growth beyond 10-year users utilize each distribution pipe can often vary significantly between operational scenarios because flows can reverse directions and loop through different paths as growth occurs and as new pipes are added to the water system. In these cases, the preferred method used to calculate excess capacity available for use by future flows is to treat all pipelines as an interrelated system and examine cumulative use of capacity as a whole. The process for this is as follows:

1. **Eliminate Facilities without Excess Capacity** – For the planning window period (in this case, 10 years), the projected growth in flow during the planning window was compared against the available capacity for individual facilities. Where the 10-year growth flow exceeded the capacity of the facility (often identified where velocities exceed 7 ft/sec during peak hour demands), the available excess capacity is zero. By assigning a capacity of zero, this eliminated facilities where there is no excess capacity available to future users and facilities are scheduled to be replaced. This effectively eliminates existing pipes that are considered deficient either for existing use or 10-year growth and avoids double counting the capacity of these pipelines.
2. **Identify Future Needed Capacity** – Based on projected growth as will be discussed subsequently, the percentage of needed capacity in the system is calculated for each of the growth windows (existing development, 10-year growth, and growth beyond 10 years).
3. **Identify Proportional Value of Existing and Future Infrastructure** – Based on analysis contained in the District’s master plan, the proportional value of infrastructure was developed for each of the growth windows. This is based on the value of existing installed infrastructure and the identified project costs of all recommended projects remaining to complete a system capable of conveying water and satisfying demands at buildout.
4. **Determine the Portion to Needed Future Capacity Being Satisfied Through Existing**

Facilities – With the projected proportion use of future capacity and proportional value of existing and future facilities, it is possible to calculate the use of capacity in any group of facilities if it is assumed that all growth periods will use infrastructure in equal proportions. This is a reasonable assumption in any system such as Magna Water District where future growth consists of infill or growth that will rely on a large percentage of the existing distribution and transmission pipes. Based on this approach, the capacity for future users satisfied by future infrastructure can be subtracted from the total future capacity need with the remaining need for capacity satisfied through existing infrastructure.

Based on the method described above, the amount of excess capacity in existing transmission and pumping facilities available to accommodate future growth and the demands placed on the existing facilities by new development activity has been calculated. This is summarized in Table 6 which has been subdivided into subareas. Zones 1 and 2 are areas where most of the facilities are existing and there is little new infrastructure. Zone 3 represents a quickly developing area where there is a significant amount of new infrastructure.

**Table 6
Conveyance System Excess Capacity**

| Use Category | Zones 1 & 2 | Zone 3 |
|-------------------------------|-------------|-------------|
| Existing Use | 81.03% | 48.71% |
| Use by 10-Year Growth | 3.49% | 30.67% |
| Use by Growth Beyond 10 years | 15.48% | 20.62% |
| Total | 100% | 100% |

Administration and Service Buildings

As discussed under the existing and proposed level of service sections, Magna Water District’s District Office has sufficient capacity through 2065 and has excess capacity for future growth as listed in Table 7. This assumes additional admin space will be required for the Little Valley service area.

**Table 7
Administrative Excess Capacity**

| Use Category | District Area Percent Use |
|-------------------------------|---------------------------|
| Existing Use | 55.9% |
| Use by 10-Year Growth | 10.6% |
| Use by Growth Beyond 10 years | 33.5% |
| Total | 100.0% |

DEMANDS PLACED ON FACILITIES BY NEW DEVELOPMENT - 11-36A-302(1)(A)(IV)

Growth and new development in the District is discussed in the District’s Master Plan studies. Growth projections include consideration of developable area, zoning, the nature of surrounding development, designated open space and other factors. Future growth as projected in the District’s Water Master Plan is shown in Table 8.

Table 8
Projected Magna Water District Water System Growth

| Year | Total ERUs | Irrigated Acres | Peak Day Demand ¹ (mgd) |
|------|------------|-----------------|------------------------------------|
| 2025 | 10,710 | 1,040 | 14.39 |
| 2030 | 11,738 | 1,097 | 14.77 |
| 2035 | 12,751 | 1,151 | 15.19 |
| 2040 | 13,676 | 1,209 | 15.58 |
| 2045 | 14,662 | 1,256 | 16.08 |
| 2050 | 15,692 | 1,307 | 16.60 |
| 2055 | 16,841 | 1,362 | 17.17 |
| 2060 | 17,998 | 1,418 | 17.72 |
| 2065 | 19,160 | 1,474 | 18.26 |
| 2070 | 20,136 | 1,514 | 18.85 |
| 2075 | 21,162 | 1,551 | 19.42 |
| 2080 | 22,184 | 1,587 | 19.99 |
| 2085 | 23,207 | 1,623 | 20.56 |
| 2090 | 23,309 | 1,627 | 20.61 |

¹Total indoor and outdoor system demand

INFRASTRUCTURE REQUIRED TO MEET DEMANDS OF NEW DEVELOPMENT - 11-36a-302(1)(a)(v)

To satisfy the requirements of state law, the effect of demand placed upon existing system facilities by future development was evaluated using the process outlined below. Each of the steps was completed as part of this plan's development. More description of the methodology used in the process outlined below can be found in the Culinary Water and Secondary Irrigation Master Plans.

1. **Existing Demand** – The demand existing development places on the District's system was estimated based on historic water use and flow records.
2. **Existing Capacity** – The capacities of existing system facilities were estimated using size data provided by the District and a hydraulic computer model.
3. **Existing Deficiencies** – Existing deficiencies in the system were looked for by comparing defined levels of service against calculated capacities.
4. **Future Demand** - The demand future development will place on the system was estimated based on development projections as discussed in a previous section.
5. **Future Deficiencies** - Future deficiencies in the collection system were identified using defined level of service and results from the computer model.
6. **Recommended Improvements** – Needed system improvements were identified to remedy existing deficiencies and meet demands associated with future development.

The steps listed above “identify demands placed upon existing public facilities by new development activity at the proposed level of service; and... the means by which the political subdivision or private entity will meet those growth demands” (Section 11-36a-302(1)(a) of the Utah Code).

10-Year Improvement Plan

In the District's Water Master Plan, capital facility projects needed to provide service to various parts of the District at projected ten-year and buildout scenarios were identified. Only infrastructure to be constructed within a ten-year horizon will be considered in the calculation of these impact fees to avoid uncertainty surrounding improvements further into the future. Table 9 summarizes the components of projects identified in the Water Master Plan that will need to be constructed within the next ten years. Details associated with the costs used for each project are contained in the Water Master Plan.

**Table 9
Project Costs Allocated to Projected Development, 10-year Planning Window**

| Project No. | Construction Timeframe | Description | Project Cost | Percent to Existing | Percent to 10-year | Percent to Growth Beyond 10-Year | Cost to Existing | Cost to 10-Year | Cost to Growth Beyond 10-Year |
|--|------------------------|--------------------------------------|---------------------|---------------------|--------------------|----------------------------------|--------------------|--------------------|-------------------------------|
| Culinary Storage Facilities | | | | | | | | | |
| CS-2 | 5-10 | Zone 3 III Culinary | \$2,450,000 | 0.0% | 34.1% | 65.9% | \$0 | \$834,274 | \$1,615,726 |
| Secondary Storage Facilities | | | | | | | | | |
| SS-1 | 0-5 | Zone 3 Secondary & SD-23 | \$1,847,000 | 32.2% | 18.0% | 49.9% | \$594,252 | \$331,772 | \$920,976 |
| Booster Stations | | | | | | | | | |
| CBS-1 | 5-10 | Zone 3 II Culinary | \$775,000 | 39.8% | 19.8% | 40.4% | \$308,260 | \$153,608 | \$313,131 |
| SBS-3 | 0-5 | Zone 2 II Secondary (8000 West) | \$200,000 | 3.4% | 28.6% | 68.0% | \$6,752 | \$57,291 | \$135,957 |
| Source Production | | | | | | | | | |
| S-4 | 0-5 | Well Field SCADA | \$700,000 | 99.2% | 0.8% | 0.0% | \$694,590 | \$5,410 | \$0 |
| S-5 | 0-5 | EDR 3rd Stage | \$3,000,000 | 99.2% | 0.8% | 0.0% | \$2,976,815 | \$23,185 | \$0 |
| Culinary Distribution Improvements | | | | | | | | | |
| CD-1 | 0-5 | Zone 3 Conveyance | \$397,000 | 0.0% | 32.5% | 67.5% | \$0 | \$128,886 | \$268,114 |
| CD-5 | 0-5 | Zone 3 Conveyance 33% | \$1,303,000 | 0.0% | 32.5% | 67.5% | \$0 | \$423,017 | \$879,983 |
| CD-9 | 0-5 | Zone 1 Conveyance | \$2,509,000 | 0.0% | 49.0% | 51.0% | \$0 | \$1,229,837 | \$1,279,163 |
| CMC-1 | 0-5 | 8800 W, 3100 S to 2600 S Pipe Upsize | \$1,194,000 | 0.0% | 49.0% | 51.0% | \$0 | \$585,263 | \$608,737 |
| CPZ-1 | 5-10 | 3000 S, 9200 W to 9000 W Zone Change | \$313,000 | 95.3% | 0.9% | 3.8% | \$298,395 | \$2,738 | \$11,866 |
| CDE-1 | 0-5 | Twain Dr & Thoreau Dr Dead-End | \$22,000 | 76.7% | 11.4% | 11.9% | \$16,881 | \$2,509 | \$2,610 |
| CDE-2 | 0-5 | Westbury Dr, 8070 W & 8035 W | \$31,000 | 76.7% | 11.4% | 11.9% | \$23,787 | \$3,535 | \$3,677 |
| | | Subtotal Culinary Pipe | \$5,769,000 | | | | | | |
| Secondary Distribution Improvements | | | | | | | | | |
| SD-1 | 0-5 | 3100 S, Dayton St to 7900 W | \$973,000 | 3.4% | 28.6% | 68.0% | \$32,847 | \$278,722 | \$661,431 |
| SD-2 | 0-5 | 3100 S, 7900 W to 7600 W | \$1,304,000 | 3.4% | 28.6% | 68.0% | \$44,021 | \$373,539 | \$886,440 |
| SD-4 | 0-5 | Kennecott Foothills Development | \$672,000 | 0.0% | 27.1% | 72.9% | \$0 | \$181,817 | \$490,183 |
| SD-8 | 0-5 | 3100 S, 7600 W to 7200 W | \$1,143,000 | 68.9% | 4.1% | 26.9% | \$787,663 | \$47,378 | \$307,959 |
| SD-14 | 5-10 | SR201 Southside, 7600 W to 8400 W | \$964,000 | 0.0% | 30.1% | 69.9% | \$0 | \$290,418 | \$673,582 |
| SD-15 | 5-10 | 8400 W, 2600 S to SR201 | \$489,000 | 0.0% | 30.1% | 69.9% | \$0 | \$147,318 | \$341,682 |
| SD-16 | 0-5 | 8000 W Booster Piping | \$1,122,000 | 3.4% | 28.6% | 68.0% | \$37,877 | \$321,404 | \$762,719 |
| SD-22 | 0-5 | Zone 3, 8200 W Pipe | \$784,000 | 31.7% | 27.1% | 41.2% | \$248,524 | \$212,119 | \$323,357 |
| SD-24 | 5-10 | Zone 1 Transmission at Golf Course | \$2,813,000 | 0.0% | 30.1% | 69.9% | \$0 | \$847,454 | \$1,965,546 |
| SD-25 | 5-10 | Zone 1 Kennecott Foothills | \$752,000 | 0.0% | 30.8% | 69.2% | \$0 | \$231,737 | \$520,263 |
| SD-30 | 5-10 | Belfast Dr Connection | \$798,000 | 83.1% | 0.0% | 16.9% | \$663,005 | \$0 | \$134,995 |
| | | Subtotal Secondary Pipe | \$11,814,000 | | | | | | |
| | | Total | \$26,555,000 | | | | \$6,733,670 | \$6,713,233 | \$13,108,097 |

Project Cost Attributable to Future Growth

To satisfy the requirements of state law, Table 9 provides a breakdown of the capital facility projects and the percentage of the project costs attributed to existing and future users. As defined in Section 11-36a-102(15), the impact fee facilities plan should only include the proportionate share of “the cost of public facilities that are roughly proportionate and reasonably related to the service demands and needs of any development activity.” While many of the projects identified in the table are required solely to meet future growth, some projects also provide a benefit to existing users.

For projects needed to address both existing deficiencies and new growth or where a higher level of service is being proposed, costs have been divided proportionally between existing and future users based on their proportionate utilization of the facility. These percentages have been calculated based on the projected utilization of each facility. A few additional notes regarding specific projects are as follows:

- **Zone 3 Secondary Storage.** This facility is under construction and will meet the storage requirements of many existing users currently supported via a variable frequency drive booster pump system.
- **Boosters.** The Zone 3 II Culinary booster will provide redundant capacity for Zone 3 and is considered a level of service upgrade for the area. It is necessary to supply the future tank that will support future fire flow demands at the north end of the foothill Zone 3. The Zone 2 secondary booster will help relieve an existing booster that is operating all pumps (has an existing deficiency).
- **Source Production Projects.** These projects are considered to increase the level of service for the District’s service area. Cost distribution for these two projects were calculated using the District’s existing, 10 year, and buildout ERUs.
- **Transmission Pipes.** There are a number of transmission pipelines in the secondary system that will also benefit existing users via additional looping and increased capacity. The capacity used by existing, 10-year, and buildout was calculated for proportionate use.

Basis of Construction Cost Estimates

The costs of construction for projects to be completed within ten years have been estimated based on past experience with projects of a similar nature.

ADDITIONAL CONSIDERATIONS

MANNER OF FINANCING - 11-36a-302(2)

The District may fund the infrastructure identified in this IFFP through a combination of different revenue sources.

Federal and State Grants and Donations

Impact fees cannot reimburse costs funded or expected to be funded through federal grants and other funds that the District has received for capital improvements without an obligation to repay. Grants and donations are not currently contemplated in this analysis. If grants become available for constructing facilities, impact fees will need to be recalculated and an appropriate credit given. Any existing infrastructure funded through past grants will be excluded from the system value during the impact fee analysis.

Bonds

None of the costs contained in this IFFP include the cost of bonding. The cost of bonding required to finance impact fee eligible improvements identified in the IFPP may be added to the calculation of the impact fee. This will be considered in the impact fee analysis.

Interfund Loans

Because infrastructure must generally be built ahead of growth, there often arise situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be loaned to the impact fee fund to complete initial construction of the project and will be reimbursed later as impact fees are received. Consideration of potential interfund loans will be included in the impact fee analysis and should be considered in subsequent accounting of impact fee expenditures.

Impact Fees

It is recommended that impact fees be used to fund growth-related capital projects as they help to maintain the proposed level of service and prevent existing users from subsidizing the capital needs for new growth. Based on this IFFP, an impact fee analysis will be able to calculate a fair and legal fee that new growth should pay to fund the portion of the existing and new facilities that will benefit new development.

Developer Dedications and Exactions

Developer exactions are not the same as grants. If a developer constructs a system improvement or dedicates land for a system improvement identified in this IFFP, or dedicates a public facility that is recognized to reduce or eliminate the need for a system improvement, the developer will be entitled to an appropriate credit against that particular developer's impact fee liability or a proportionate reimbursement.

If the value of the credit is less than the development's impact fee liability, the developer will owe the balance of the liability to the District. If the recognized value of the improvements/land dedicated is more than the development's impact fee liability, the District must reimburse the difference to the developer from impact fee revenues collected from other developments.

It should be emphasized that the concept of impact fee credits pertains to system level improvements only. Developers will be responsible for the construction of project improvements (i.e. improvements not identified in the impact fee facilities plan) without credit against the impact fee.

NECESSITY OF IMPROVEMENTS TO MAINTAIN LEVEL OF SERVICE - 11-36a-302(3)

According to State statute, impact fees cannot be used to correct deficiencies in the District's system and must be necessary to maintain the proposed level of service established for all users. Only those facilities or portions of facilities that are required to maintain the proposed level of service for future growth have been included in this IFFP. Additionally, any portion of projects being used to cure existing deficiencies that will be paid for through future user rates will be accounted for through an impact fee credit to be calculated as part of the impact fee analysis. This will result in an equitable fee as future users will not be expected to fund any portion of the facilities that will benefit existing residents.

IMPACT FEE CERTIFICATION 11-36A-306(1)

This IFFP has been prepared in accordance with Utah Code Title 11 Chapter 36a (the “Impact Fees Act”), which prescribes the laws pertaining to the imposition of impact fees in Utah. The accuracy of this IFFP relies in part upon planning, engineering, and other source data, provided by the District and its designees.

In accordance with Utah Code Annotated, 11-36a-306(1), Bowen Collins & Associates makes the following certification:

I certify that the attached impact fee facilities plan:

1. Includes only the costs of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. costs for qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement; and
3. Complies in each relevant respect with the Impact Fees Act.



Andrew T. McKinnon, P.E.

Water Impact Fee Analysis

January 2026

Prepared for:



Prepared by:



EXECUTIVE SUMMARY WATER IMPACT FEE ANALYSIS

The purpose of the impact fee analysis (IFA) is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

WHY ASSESS AN IMPACT FEE?

Until new development utilizes the full capacity of existing facilities the District can assess an impact fee to recover its cost of latent capacity available to serve future development. The general impact fee methodology divides the available capacity of existing and future capital projects between the number of existing and future users. Capacity is measured in terms of Equivalent Residential Connection, or ERC, which represents the demand that a typical single-family residence places on the system.

HOW ARE IMPACT FEES CALCULATED?

A fair impact fee is calculated by dividing the cost of existing and future facilities by the amount of new growth that will benefit from the unused capacity. Only the capacity that is needed to serve the projected growth within the next ten years is included in the fee. Costs used in the calculation of impact fees include:

- New facilities required to maintain (but not exceed) the proposed level of service identified in the IFFP; only those expected to be built within ten years are considered in the final calculations of the impact fee.
- Historic costs of existing facilities that will serve new development
- Cost of professional services for engineering, planning, and preparation of the impact fee facilities plan and impact fee analysis

Costs not used in the impact fee calculation

- Operational and maintenance costs
- Cost of facilities constructed beyond 10 years in the future
- Cost associated with capacity not expected to be used within 10 years
- Cost of facilities funded by grants, developer contributions, or other funds which the District is not required to repay
- Cost of renovating or reconstructing facilities which do not provide new capacity or needed enhancement of services to serve future development

IMPACT FEE CALCULATION

Impact fees for this analysis were calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years (based on ERCs). This is done for each of the major system components. Calculated impact fees by component are summarized in Table ES-1.

**Table ES-1
Water Impact Fee Calculation per ERC**

| System Components | Total Cost of Component | % Serving 10-year Growth | Cost Serving 10-year Growth | 10-year ERCs Served | Cost Per ERC |
|---|--------------------------------|---------------------------------|------------------------------------|----------------------------|---------------------|
| Existing Facilities – Admin Building | \$5,452,116 | 10.65% | \$580,627 | 2,041 | \$284.55 |
| Production | | | | | |
| Existing Facilities | \$36,109,471 | 14.27% | \$5,154,108 | 2,041 | \$2,525.89 |
| Existing Facility Interest Costs | \$1,229,066 | 14.27% | \$175,432 | 2,041 | \$85.97 |
| 10-year Projects | \$3,700,000 | 0.77% | \$28,595 | 2,041 | \$14.01 |
| 10-Year Project Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | (\$463.12) |
| Subtotal | \$41,038,537 | | \$5,358,135 | | \$2,163 |
| Storage | | | | | |
| Existing Facilities | \$16,812,602 | 13.68% | \$2,300,413 | 2,041 | \$1,127.37 |
| Existing Facility Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| 10-year Projects | \$4,297,000 | 27.14% | \$1,166,046 | 2,041 | \$571.45 |
| 10-Year Project Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | 0 |
| Subtotal | \$21,109,602 | | \$3,466,459 | | \$1,698.82 |
| Conveyance | | | | | |
| Existing Facilities | \$41,516,160 | 6.06% | \$2,517,442 | 2,041 | \$1,233.73 |
| Existing Facility Interest Costs | \$2,313,853 | 6.06% | \$140,307 | 2,041 | \$68.76 |
| 10-year Projects | \$18,558,000 | 29.74% | \$5,518,591 | 2,041 | \$2,704.51 |
| 10-Year Project Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | (\$268.35) |
| Subtotal | \$62,388,012 | | \$8,176,340 | | \$3,738.66 |
| Studies | \$74,949 | 81.65% | \$56,942 | 2,041 | \$27.91 |
| Total | \$130,063,217 | | \$17,638,503 | | \$7,913 |

The total impact fee per ERC can be calculated by adding up the fee for each system component. This is separate from any additional charges levied by the District for hookup costs or for other reasonable permit and application fees.

RECOMMENDED IMPACT FEE

The total calculated impact fee per ERC with the appropriate user fee credits is summarized in Table ES-2. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

**Table ES-2
Recommended Impact Fee, per ERC**

| Maximum Allowable Impact Fee (Per ERC, by Year) | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Base Impact Fee | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 |
| User Fee Credit | \$731.47 | \$632.88 | \$550.93 | \$474.16 | \$405.06 | \$347.48 |
| Total Overall Fee | \$7,912.69 | \$8,011.28 | \$8,093.23 | \$8,169.99 | \$8,239.10 | \$8,296.68 |

IMPACT FEE ANALYSIS

INTRODUCTION

Magna Water District (District) has retained Bowen Collins & Associates (BC&A) to prepare an impact fee analysis (IFA) for its culinary water system and secondary irrigation system based on a recently completed impact fee facilities plan (IFFP). An impact fee is a one-time fee, not a tax, imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure. The purpose of an IFA is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

Requirements for the preparation of an IFA are outlined in Title 11, Chapter 36a of the Utah Code (the Impact Fees Act). Under these requirements, an IFA shall accomplish the following for each facility:

1. Identify the impact of anticipated development activity on existing capacity
2. Identify the impact of anticipated development activity on system improvements required to maintain the established level of service
3. Demonstrate how the impacts are reasonably related to anticipated development activity
4. Estimate the proportionate share of:
 - a. Costs of existing capacity that will be recouped
 - b. Costs of impacts on system improvements that are reasonably related to the new development activity
5. Identify how the impact fee was calculated
6. Consider the following additional issues
 - a. Manner of financing improvements
 - b. Dedication of system improvements
 - c. Extraordinary costs in servicing newly developed properties
 - d. Time-price differential

The following sections of this report have been organized to address each of these requirements.

IMPACT ON SYSTEM - 11-36a-304(a)(b)

Growth within the District's service area, and projections of water demand resulting from said growth is discussed in detail in the District's Water Master Plan and IFFP. For the purposes of impact fee calculation, growth in the system has been expressed in terms of equivalent residential connections (ERCs). An ERC represents the demand that a typical single-family residence places on the system. Projected growth in ERCs for the District water system is summarized in Table 1.

**Table 1
Service Area ERC Projections**

| Year | Total ERCs |
|------|------------|
| 2025 | 10,710 |
| 2030 | 11,738 |
| 2035 | 12,751 |
| 2040 | 13,676 |
| 2045 | 14,662 |
| 2050 | 15,692 |
| 2055 | 16,841 |
| 2060 | 17,998 |
| 2065 | 19,160 |
| 2070 | 20,136 |
| 2075 | 21,162 |
| 2080 | 22,184 |
| 2085 | 23,207 |
| 2090 | 23,309 |

As indicated in the table, projected growth for the 10-year planning window of this impact fee analysis is 2,041 ERCs. To maintain the established level of service, projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Use of excess capacity and required system improvements are detailed in the IFFP.

RELATION OF IMPACTS TO ANTICIPATED DEVELOPMENT - 11-36a-304(1)(c)

To satisfy the requirements of state law, it is necessary to show that all impacts identified in the impact fee analysis are reasonably related to the anticipated development activity. This has been documented in detail in the Impact Fee Facilities Plan. In short, only that capacity directly associated with demand placed upon existing system facilities by future development has been identified as an impact of the development. The steps completed to identify the impacts of anticipated development are as follows.

1. **Existing Demand** – The demand existing development places on the system was estimated based on historic demand records.
2. **Existing Capacity** – The capacities of existing facilities were calculated based on the level of service criteria established for each type of facility in the Impact Fee Facilities Plan.
3. **Existing Deficiencies** – Existing deficiencies in the system were looked for by comparing defined levels of service against calculated capacities. Where existing deficiencies existed, projects were identified to eliminate the deficiencies. Costs associated with existing deficiencies were not assigned to impacts of development.
4. **Future Demand** - The demand future development will place on the system was estimated based on development projections as discussed in the Impact Fee Facilities Plan.

5. **Future Demand Use of Existing Capacity** – Whenever possible, excess capacity in existing facilities has been used to serve future demands. Where this occurs, the amount of capacity used by future growth has been calculated as described in detail in the Impact Fee Facilities Plan.
6. **Future Deficiencies** – Where excess capacity is inadequate to meet projected demands, future deficiencies in the system were identified using the same established level of service criteria used for existing demands.
7. **Recommended Improvements** – Needed system improvements were identified to meet demands associated with future development.

PROPORTIONATE SHARE ANALYSIS - 11-36a-304(d)

A comprehensive proportionate share analysis associated with anticipated future development and its impact on the system was completed as part of the Impact Fee Facilities Plan. A summary of that analysis is contained here with additional discussion of the costs of facilities impacted by growth.

Excess Capacity to Accommodate Future Growth

Defining existing system capacity in terms of a single number is difficult. To improve the accuracy of the analysis, the system has been divided into four different components (production, storage, conveyance, administrative and service buildings). As part of the Impact Fee Facilities Plan, the capacity used by each type of user was analyzed in detail. Based on the analysis, the calculated percentage of existing capacity in system facilities used by existing users, growth during the 10-year planning window, and growth beyond the 10-year planning window is summarized in Tables 2 - 5.

**Table 2
Use of Existing Production Capacity**

| Use Category | Cost of Culinary Wells & Treatment | Cost of Culinary Shallow Wells & Canal Shares ¹ | Cost of Reuse Project ² | Total Production Costs |
|-------------------------------|------------------------------------|--|------------------------------------|------------------------|
| Existing Use | \$26,304,469 | \$0 | \$0 | \$26,304,469 |
| Use by 10-Year Growth | \$205,002 | \$0 | \$4,949,105 | \$5,154,108 |
| Use by Growth Beyond 10 years | \$0 | \$0 | \$4,650,895 | \$4,650,895 |
| Total | \$26,509,471 | \$0 | \$9,600,000 | \$36,109,471 |

¹canal shares have been predominantly contributed by developers and shallow well costs were not separated from transmission costs in District records.

²Reuse costs are split 80% to secondary and 20% to treatment.

**Table 3
Use of Existing Storage Capacity**

| Tank Service Area | Cost of Existing Storage | Existing Use | Use by 10-Year Growth | Use by Growth Beyond 10 Years |
|---------------------------------|--------------------------|--------------------|-----------------------|-------------------------------|
| Culinary | | | | |
| Zone 3 III Tank (Land purchase) | \$2,726,089 | 0 | \$928,288 | \$1,797,801 |
| Zone 3 Tank | \$3,350,786 | \$1,518,631 | \$623,782 | \$1,208,373 |
| 4100 South & Bacchus | \$2,917,732 | \$1,950,351 | \$0 | \$967,381 |
| 3500 South & 7600 West | \$2,135,961 | \$1,156,096 | \$49,620 | \$930,245 |
| Secondary | | | | |
| Zone 3 Reservoir | \$3,761,585 | \$1,210,249 | \$675,683 | \$1,875,652 |
| Zone 2 Reservoir | \$1,478,057 | \$1,227,893 | \$0 | \$250,164 |
| 3500 South | \$442,392 | \$419,353 | \$23,039 | \$0 |
| Total | \$16,812,602 | \$7,482,573 | \$2,300,413 | \$7,029,616 |

**Table 4
Use of Existing Conveyance Capacity**

| Use Category | Zones 1 & 2 | Zone 3 | Total |
|-------------------------------|---------------------|--------------------|---------------------|
| Existing Use | \$30,459,735 | \$1,912,352 | \$32,372,087 |
| Use by 10-Year Growth | \$1,313,340 | \$1,204,102 | \$2,517,442 |
| Use by Growth Beyond 10 years | \$5,817,090 | \$809,540 | \$6,626,630 |
| Total | \$37,590,166 | \$3,925,994 | \$41,516,160 |

**Table 5
Use of Existing Administrative/Service Capacity**

| Use Category | District Area Use |
|-------------------------------|--------------------|
| Existing Use | \$3,047,587 |
| Use by 10-Year Growth | \$580,627 |
| Use by Growth Beyond 10 years | \$1,823,902 |
| Total | \$5,452,116 |

Existing System Infrastructure Costs

To calculate the actual cost of excess capacity in the existing system, BC&A first looked at the actual cost of all existing facilities. Table 6 lists the actual construction costs of existing components of the District’s water system. These costs were obtained from a fixed asset detailed report for the District through fiscal year ending 2024 and only include facilities paid for by the District (i.e. excludes all infrastructure contributed by developers). Detailed costs for the facilities included in the table are contained in Appendix A.

Table 6
Existing Infrastructure Costs

| Existing Infrastructure Type | Existing Infrastructure Cost | Percent to 10-Year Growth | Cost to 10-Year Growth |
|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------|
| Production | \$36,109,471 | 14.27% | \$5,154,108 |
| Storage | \$16,812,602 | 13.68% | \$2,300,413 |
| Conveyance | \$41,516,160 | 6.06% | \$2,517,442 |
| Administrative | \$5,452,116 | 10.65% | \$580,627 |

In this study, public facility costs already incurred by the District will be included in the impact fee only to the extent that new growth will be served by the previously constructed improvements.

Reimbursement Agreements

There are no current reimbursement agreements existing within the system that have not otherwise been incorporated into the existing system values.

Future Improvements

In addition to using available existing capacity, demand associated with projected future development will be met through the construction of additional capacity in new facilities. A primary focus of the Impact Fee Facilities Plan was the identification of projects required to serve new development. The results of the Impact Fee Facilities Plan are summarized in Table 7. Included in the table are the costs of each required project and the portion of costs associated with development.

**Table 7
Impact Fee Eligible Capital Projects**

| Project No. | Description | Project Cost | Percent to 10-year | Cost to 10-Year |
|--|--------------------------------------|---------------------|---------------------------|------------------------|
| Culinary Storage Facilities | | | | |
| CS-2 | Zone 3 III Culinary | \$2,450,000 | 34.1% | \$834,274 |
| Secondary Storage Facilities | | | | |
| SS-1 | Zone 3 Secondary & SD-23 | \$1,847,000 | 18.0% | \$331,772 |
| Booster Stations | | | | |
| CBS-1 | Zone 3 II Culinary | \$775,000 | 19.8% | \$153,608 |
| SBS-3 | Zone 2 II Secondary (8000 West) | \$200,000 | 28.6% | \$57,291 |
| Source Production | | | | |
| S-4 | Well Field SCADA | \$700,000 | 0.8% | \$5,410 |
| S-5 | EDR 3rd Stage | \$3,000,000 | 0.8% | \$23,185 |
| Culinary Distribution Improvements | | | | |
| CD-1 | Zone 3 Conveyance | \$397,000 | 32.5% | \$128,886 |
| CD-5 | Zone 3 Conveyance 33% | \$1,303,000 | 32.5% | \$423,017 |
| CD-9 | Zone 1 Conveyance | \$2,509,000 | 49.0% | \$1,229,837 |
| CMC-1 | 8800 W, 3100 S to 2600 S Pipe Upsize | \$1,194,000 | 49.0% | \$585,263 |
| CPZ-1 | 3000 S, 9200 W to 9000 W Zone Change | \$313,000 | 0.9% | \$2,738 |
| CDE-1 | Twain Dr & Thoreau Dr Dead-End | \$22,000 | 11.4% | \$2,509 |
| CDE-2 | Westbury Dr, 8070 W & 8035 W | \$31,000 | 11.4% | \$3,535 |
| | Subtotal Culinary Pipe | \$5,769,000 | | \$2,375,786 |
| Secondary Distribution Improvements | | | | |
| SD-1 | 3100 S, Dayton St to 7900 W | \$973,000 | 28.6% | \$278,722 |
| SD-2 | 3100 S, 7900 W to 7600 W | \$1,304,000 | 28.6% | \$373,539 |
| SD-4 | Kennecott Foothills Development | \$672,000 | 27.1% | \$181,817 |
| SD-8 | 3100 S, 7600 W to 7200 W | \$1,143,000 | 4.1% | \$47,378 |
| SD-14 | SR201 Southside, 7600 W to 8400 W | \$964,000 | 30.1% | \$290,418 |
| SD-15 | 8400 W, 2600 S to SR201 | \$489,000 | 30.1% | \$147,318 |
| SD-16 | 8000 W Booster Piping | \$1,122,000 | 28.6% | \$321,404 |
| SD-22 | Zone 3, 8200 W Pipe | \$784,000 | 27.1% | \$212,119 |
| SD-24 | Zone 1 Transmission at Golf Course | \$2,813,000 | 30.1% | \$847,454 |
| SD-25 | Zone 1 Kennecott Foothills | \$752,000 | 30.8% | \$231,737 |
| SD-30 | Belfast Dr Connection | \$798,000 | 0.0% | \$0 |
| | Subtotal Secondary Pipe | \$11,814,000 | | \$2,931,906 |
| | Total | \$26,555,000 | | \$6,713,233 |

All cost estimates contained in this IFA have been taken directly from the IFFP. The basis of these estimates are documented in the IFFP and are based on previous construction costs for similar projects.

Impact Fee Studies

Utah Code allows for the cost of planning and engineering associated with impact fee calculations to be recovered as part of an impact fee. The final impact fee will include the cost of this study and recommended planning projects in the next ten years as summarized in Table 8.

Table 8
Impact Fee Costs Associated with Studies per ERC

| System Components | Total Cost of Component | % Serving 10-year Growth | Cost Serving 10-year Growth | 10-year ERCs Served | Cost Per ERC |
|--------------------------|--------------------------------|---------------------------------|------------------------------------|----------------------------|---------------------|
| 2025 Water Master Plan | \$54,022 | 67% | \$36,015 | 2,041 | \$17.65 |
| 2025 IFFP & IFA | \$20,927 | 100% | \$20,927 | 2,041 | \$10.26 |
| Subtotal | \$74,949 | | \$56,942 | | \$27.91 |

IMPACT FEE CALCULATION - 11-36a-304(1)(e)

Using the information contained in the previous sections, impact fees can be calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years. This is done for each of the major system components identified previously. Calculated impact fees by component are summarized in Table 9.

Table 9
Impact Fee Calculation per ERC

| System Components | Total Cost of Component | % Serving 10-year Growth | Cost Serving 10-year Growth | 10-year ERCs Served | Cost Per ERC |
|---|--------------------------------|---------------------------------|------------------------------------|----------------------------|---------------------|
| Existing Facilities – Admin Building | \$5,452,116 | 10.65% | \$580,627 | 2,041 | \$284.55 |
| Production | | | | | |
| Existing Facilities | \$36,109,471 | 14.27% | \$5,154,108 | 2,041 | \$2,525.89 |
| Existing Facility Interest Costs | \$1,229,066 | 14.27% | \$175,432 | 2,041 | \$85.97 |
| 10-year Projects | \$3,700,000 | 0.77% | \$28,595 | 2,041 | \$14.01 |
| 10-Year Project Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | (\$463.12) |
| Subtotal | \$41,038,537 | | \$5,358,135 | | \$2,163 |
| Storage | | | | | |
| Existing Facilities | \$16,812,602 | 13.68% | \$2,300,413 | 2,041 | \$1,127.37 |
| Existing Facility Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| 10-year Projects | \$4,297,000 | 27.14% | \$1,166,046 | 2,041 | \$571.45 |
| 10-Year Project Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | 0 |
| Subtotal | \$21,109,602 | | \$3,466,459 | | \$1,698.82 |
| Conveyance | | | | | |
| Existing Facilities | \$41,516,160 | 6.06% | \$2,517,442 | 2,041 | \$1,233.73 |
| Existing Facility Interest Costs | \$2,313,853 | 6.06% | \$140,307 | 2,041 | \$68.76 |
| 10-year Projects | \$18,558,000 | 29.74% | \$5,518,591 | 2,041 | \$2,704.51 |
| 10-Year Project Interest Costs | \$0 | 0.00% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | (\$268.35) |
| Subtotal | \$62,388,012 | | \$8,176,340 | | \$3,738.66 |
| Studies | \$74,949 | 81.65% | \$56,942 | 2,041 | \$27.91 |
| Total | \$130,063,217 | | \$17,638,503 | | \$7,913 |

The total impact fee per ERC can be calculated by adding up the fee for each type of system component. This is separate from any additional charges levied by the District for hookup costs or for other reasonable permit and application fees.

Bonding Interest Costs

In addition to construction costs, Table 6 includes the cost of bond interest expense where applicable. This includes both historic interest costs on existing facilities where new growth will benefit from excess capacity and future interest costs for bonds required to build projects needed for growth as identified in the Impact Fee Facilities Plan. Similar to project construction costs, only that portion of interest expense associated with capacity for growth is included in the impact fee calculation. In the case of the Magna Water District wastewater system, the following bonds were included in the study:

- **2003 General Obligation Refunding Bond** – This bond was used for improvements to the build initial phases of the District’s secondary transmission and distribution system. The District started payments on this bond in the year 2004. The beginning bond balance was \$1,175,000 with 100 percent of this associated with water improvements. This bond was included in the table above under the Transmission Interest Costs category. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **2007 General Obligation Refunding Bond** – This bond was used to fund improvements to the EDR system. The District started payments on this bond in the year 2009. The beginning bond balance was \$7,100,000 with 100 percent of this associated with water improvements. This bond was included in the table above under the Production Interest Costs category. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **2013 General Obligation Refunding Bond** – This bond was a refunding of a previous bond used for improvements to the District’s wastewater treatment plant, minor sewer collection improvements, and improvements to the EDR system. The District started payments on this bond in the year 2014. The beginning bond balance was \$8,245,000 with 48.22 percent of this associated with water improvements. This bond was included in the table above under the Production Interest Costs category. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **2017 General Obligation Refunding Bond** – This bond was a refunding of a previous bond used for improvements to the District’s wastewater treatment plant, minor sewer collection improvements, EDR treatment, and the water distribution system. The District started payments on this bond in the year 2017. The beginning bond balance was \$13,975,000 with 56.62 percent of this associated with water improvements. This bond was included in the table above under the Production Interest Costs and Transmission Interest Costs categories. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **2019 General Obligation Refunding Bond** – This bond was a refunding of a previous bond used for improvements to the District’s wastewater treatment plant, minor sewer collection improvements, EDR treatment, and the water distribution system. The District started payments on this bond in the year 2019. The beginning bond balance was \$8,025,000 with 56.62 percent of this associated with water improvements. This bond was included in the table above under the Production Interest Costs and Transmission Interest Costs categories. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **Future Water Bonds** – The District does not have any current plans to bond for any further water system improvements.

Credit for User Fees

Not all of the existing deficiencies identified in the plan can be paid for from existing cash reserves. As a result, the plan includes some bonding toward projects that have at least a portion of their costs that benefit existing users. In this situation, user fees will be used to pay for the bonds over their lifetime.

For projects where this is the case, future users will pay for their portion of capacity via impact fees. They cannot also be expected to pay through user rates the portion of future bonds that will be used to build capacity or remedy deficiencies for existing users. This creates the need for a credit for future users. Calculation of this credit is summarized in Table 10 through Table 11. This table includes the following information:

- **Future Administrative Building Costs Paid Through User Fees** – This represents the total amount paid each year by the District toward the portion of future bonds used to increase the level of service for existing users (specifically, the New Public Works Facility).
- **Cost Per ERC** – This column takes the total amount paid and divides it by the number of ERCs projected for each year. This represents the amount paid in each year by each ERC through user rates.
- **Present Value Cost per ERC** – This column takes into account the time value of money assuming a rate of return of 3 percent annually.
- **Total User Fee Credit** – At the bottom of the table, the present value costs for all future years are added together to develop the total user fee credit.

It will be noted that, because the user fee credit is the summation of user fees paid toward existing deficiencies or for increasing the existing level of service in each year, a new user who joins the system in five or ten years will pay less in total user fees than someone who joins the system next year. Thus, the user fee credit will decrease over time. The appropriate user fee can be calculated by adding the present value cost for all years subsequent to a new user's connection to the system.

Table 10
Credit for User Fees Paid Toward Existing – Magna Water District Production

| Year | ERCs | Total Bond Payment | Cost Per ERC | PV Cost Per ERC |
|------------------------------|-------------|---------------------------|---------------------|------------------------|
| 2026 | 10,955 | \$762,490 | \$69.60 | \$66.60 |
| 2027 | 11,166 | \$632,008 | \$56.60 | \$51.83 |
| 2028 | 11,329 | \$632,610 | \$55.84 | \$48.93 |
| 2029 | 11,605 | \$630,713 | \$54.35 | \$45.57 |
| 2030 | 11,738 | \$517,585 | \$44.10 | \$35.38 |
| 2031 | 11,990 | \$518,409 | \$43.24 | \$33.20 |
| 2032 | 12,206 | \$518,435 | \$42.47 | \$31.21 |
| 2033 | 12,323 | \$518,826 | \$42.10 | \$29.61 |
| 2034 | 12,504 | \$516,984 | \$41.34 | \$27.82 |
| 2035 | 12,751 | \$517,882 | \$40.62 | \$26.15 |
| 2036 | 12,919 | \$517,474 | \$40.06 | \$24.68 |
| 2037 | 13,053 | \$518,904 | \$39.75 | \$23.44 |
| 2038 | 13,326 | \$322,972 | \$24.24 | \$13.68 |
| 2039 | 13,615 | \$126,295 | \$9.28 | \$5.01 |
| 2040 | 13,676 | \$0 | \$0.00 | \$0.00 |
| 2041 | 13,911 | \$0 | \$0.00 | \$0.00 |
| 2042 | 14,163 | \$0 | \$0.00 | \$0.00 |
| 2043 | 14,224 | \$0 | \$0.00 | \$0.00 |
| Total User Fee Credit | | | | \$463.12 |

Table 11
Credit for User Fees Paid Toward Existing – Magna Water District Conveyance

| Year | ERCs | Total Bond Payment | Cost Per ERC | PV Cost Per ERC |
|------------------------------|-------------|---------------------------|---------------------|------------------------|
| 2026 | 10,955 | \$366,216 | \$33.43 | \$31.99 |
| 2027 | 11,166 | \$367,319 | \$32.90 | \$30.12 |
| 2028 | 11,329 | \$359,830 | \$31.76 | \$27.83 |
| 2029 | 11,605 | \$325,620 | \$28.06 | \$23.53 |
| 2030 | 11,738 | \$324,743 | \$27.67 | \$22.20 |
| 2031 | 11,990 | \$325,626 | \$27.16 | \$20.85 |
| 2032 | 12,206 | \$325,653 | \$26.68 | \$19.61 |
| 2033 | 12,323 | \$326,071 | \$26.46 | \$18.61 |
| 2034 | 12,504 | \$324,100 | \$25.92 | \$17.44 |
| 2035 | 12,751 | \$325,061 | \$25.49 | \$16.42 |
| 2036 | 12,919 | \$324,625 | \$25.13 | \$15.48 |
| 2037 | 13,053 | \$326,155 | \$24.99 | \$14.73 |
| 2038 | 13,326 | \$116,430 | \$8.74 | \$4.93 |
| 2039 | 13,615 | \$116,079 | \$8.53 | \$4.60 |
| 2040 | 13,676 | \$0 | \$0.00 | \$0.00 |
| 2041 | 13,911 | \$0 | \$0.00 | \$0.00 |
| 2042 | 14,163 | \$0 | \$0.00 | \$0.00 |
| 2043 | 14,224 | \$0 | \$0.00 | \$0.00 |
| Total User Fee Credit | | | | \$268.35 |

Recommended Impact Fee

The total calculated impact fee is summarized in Table 12 and includes appropriate user fee credits applied to the fee. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

As discussed previously, the calculated user fee credit associated with the impact fees will decrease over time. As a result, the allowable impact fee will increase over time as shown in the table.

**Table 12
Recommended Impact Fee, per ERC**

| Maximum Allowable Impact Fee (Per ERC, by Year) | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Base Impact Fee | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 | \$8,644.16 |
| User Fee Credit | \$731.47 | \$632.88 | \$550.93 | \$474.16 | \$405.06 | \$347.48 |
| Total Overall Fee | \$7,912.69 | \$8,011.28 | \$8,093.23 | \$8,169.99 | \$8,239.10 | \$8,296.68 |

Calculation of Non-Standard Impact Fees

The calculations presented previously have been based on a typical equivalent residential connection. The Impact Fee Enactment should include a provision that allows for calculation of a fee for customers other than typical residential connections. Consistent with the level of service standards established in the Impact Fee Facilities Plan, the following formula may be used to calculate an impact fee for a non-standard user based on the calculated daily total water use for an average residential connection.

$$\frac{\text{Estimated Average Daily Water Use}}{582 \text{ gallons per day}^1} \times \text{Impact Fee per ERC} = \text{Impact Fee}$$

¹ Based on average water use consumption (both indoor and outdoor) per ERC from historical Magna Water District records.

ADDITIONAL CONSIDERATIONS - 11-36a-304(2)**MANNER OF FINANCING - 11-36a-304(2)(a-e)**

As part of this Impact Fee Analysis, it is important to consider how each facility has been or will be funded. Potential infrastructure funding includes a combination of different revenue sources.

User Charges

Because infrastructure must generally be built ahead of growth, there often arises situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be loaned to the impact fee fund to complete initial construction of the project and will be reimbursed later as impact fees are received. Interfund loans should be considered in subsequent accounting of impact fee expenditures.

Special Assessments

Where special assessments exist, the impact fee calculation must take into account funds contributed. No special assessments exist.

Bonds

Where bonding will be required to finance impact fee eligible improvements, the portion of the bond cost and interest expense attributable to future growth may be added to the calculation of the impact fee.

General Taxes

If taxes are used to pay for infrastructure, they should be accounted for in the impact fee calculation. Specifically, any contribution made by property owners through taxes should be credited toward their available capacity in the system. In this case, no taxes are proposed for the construction of infrastructure.

Federal and State Grants and Donations

Impact fees cannot reimburse costs funded or expected to be funded through federal grants and other funds that the District has received for capital improvements without an obligation to repay. Grants and donations are not currently contemplated in this analysis. If grants become available for constructing facilities, impact fees will need to be recalculated and an appropriate credit given. Any existing infrastructure funded through past grants has been removed from the system cost.

DEDICATION OF SYSTEM IMPROVEMENTS 11-36a-304(2)(f)

Developer exactions are not the same as grants. If a developer constructs a system improvement or dedicates land for a system improvement identified in the IFFP, or dedicates a public facility that is recognized to reduce the need for a system improvement, the developer may be entitled to an appropriate credit against that particular developer's impact fee liability or a proportionate reimbursement.

If the value of the credit is less than the development's impact fee liability, the developer will owe the balance of the liability to the District. If the recognized value of the improvements/land dedicated is more than the development's impact fee liability, the District may be required to reimburse the difference to the developer.

It should be emphasized that the concept of impact fee credits pertains to system level improvements only. Developers will be responsible for the construction of project improvements (i.e. improvements not identified in the impact fee facilities plan) without credit against the impact fee.

EXTRAORDINARY COSTS - 11-36a-304(2)(g)

The Impact Fees Act indicates the analysis should include consideration of any extraordinary costs of servicing newly developed properties. In cases where one area of potential growth may cost significantly more to service than other growth, a separate service area may be warranted. No areas with extraordinary costs have been identified as part of this analysis.

TIME-PRICE DIFFERENTIAL - 11-36a-304(2)(h)

Utah Code allows consideration of time-price differential in order to create fairness for amounts paid at different times. To address time-price differential, this analysis includes adjustments for construction inflation for future construction projects. Per the requirements of the Code, existing infrastructure cost is based on actual historical costs without adjustment.

IMPACT FEE CERTIFICATION - 11-36a-306(2)

This IFA has been prepared in accordance with Utah Code Title 11, Chapter 36a (the "Impact Fees Act"), which prescribes the laws pertaining to the imposition of impact fees in Utah. The accuracy of this IFA relies in part upon planning, engineering, and other source data, provided by the District and its designees.

In accordance with Utah Code Annotated, 11-36a-306(2), Bowen Collins & Associates, makes the following certification:

I certify that the attached impact fee analysis:

1. Includes only the costs of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. costs of qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement; and
3. Complies in each and every relevant respect with the Impact Fees Act.



Andrew T. McKinnon, P.E.

Get in Touch



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Draper, Utah 84020

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bowencollins.com



SEWER IFFP & IFA



Prepared for:



Prepared by:



Magna Water District Sewer IFFP & IFA

January 2026

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Magna Water District Sewer Impact Fee Facilities Plan

January 2026

Prepared for:



Prepared by:



EXECUTIVE SUMMARY SEWER IMPACT FEE FACILITIES PLAN

The purpose of an Impact Fee Facilities Plan (IFFP) is to identify demands placed upon Magna Water District (District) facilities by future development and evaluate how these demands will be met by the District. The IFFP is also intended to outline the improvements which may be funded through impact fees.

WHY IS AN IFFP NEEDED

The IFFP provides a technical basis for assessing updated impact fees throughout the District. This document addresses the future infrastructure needed to serve the District. The existing and future capital projects documented in this IFFP will ensure that level of service standards are maintained for all existing and future residents who reside within the service area. Local governments must pay strict attention to the required elements of the Impact Fee Facilities Plan which are enumerated in the Impact Fees Act.

PROJECTED FUTURE GROWTH

Before evaluating system capacity, it is first necessary to calculate the demand associated with existing development and projected growth. Using available information for existing development and growth projections from the District's Sewer Master Plan, projected growth in system demand is summarized in Table ES-1 in terms of Equivalent Residential Units (ERUs).

**Table ES-1
District Service Area Projections**

| Year | Service Area ERUs | Estimated Dry Weather Sewer Flows (MGD) | Estimated Infiltration (MGD) | Total Estimated WWTP Flows (MGD) |
|------|-------------------|---|------------------------------|----------------------------------|
| 2025 | 10,710 | 2.25 | 0.83 | 3.09 |
| 2035 | 12,751 | 2.52 | 0.87 | 3.39 |
| 2045 | 14,662 | 2.78 | 0.91 | 3.69 |
| 2055 | 16,841 | 3.10 | 0.96 | 4.07 |
| 2065 | 19,160 | 3.46 | 1.02 | 4.48 |
| 2075 | 21,162 | 3.84 | 1.07 | 4.91 |
| 2085 | 23,207 | 4.22 | 1.13 | 5.35 |
| 2090 | 23,309 | 4.42 | 1.16 | 5.58 |

An ERU represents the demand that a typical single-family residence places on the system. The basis of an ERU for historical flow rates is summarized in Table ES-2.

**Table ES-2
Service Area Historic Flows**

| Item | Value for Existing Conditions (2025) | Total 10-Year Conditions (2035) |
|---|--------------------------------------|---------------------------------|
| Equivalent Residential Connections (ERUs) | 10,710 | 12,751 |
| Domestic Wastewater Production (mgd) | 2.25 | 2.52 |
| Infiltration, Maximum Month (mgd) | 0.83 | 0.87 |
| Average Day, Maximum Month Flow (mgd) | 3.09 | 3.39 |
| Peak Hour Flow (mgd) | 7.72 | 8.48 |
| Flows per ERU | | |
| Domestic Wastewater Production (gpd/ERU) | 210.3 | 197.4 |
| Average Day, Maximum Month Flow (gpd/ERU) | 288.2 | 265.9 |
| Peak Hour Flow (gpd/ERU) | 720.6 | 664.8 |
| Average Indoor Water Use (gpd/ERU) | 249.3 | 231.6 |

Note: Conservation has been accounted for within production values

LEVEL OF SERVICE

Level of service is defined in the Impact Fees Act as “the defined performance standard or unit of demand for each capital component of a public facility within a service area”. Summary values for both existing and proposed levels of service are contained in Table ES-3.

**Table ES-3
Level of Service for Various System Requirements**

| | Existing Level of Service | Proposed Level of Service |
|--|---------------------------|---------------------------|
| Pipeline Capacity | | |
| Maximum Ratio of Flow ¹ to Pipeline Capacity/Percent of Collection System that Meets the Standard | | |
| Pipes with diameter > 12 inches | 0.75/98.82% | 0.75/100% |
| Pipes with diameter ≤ 12 inches | 0.5/98.15% | 0.5/100% |
| Treatment Capacity | | |
| Domestic Wastewater Production (gpd/ERU) | 210.3 | 197.4 |
| Infiltration (gpd/ERU) | 77.9 | 29.6 |
| Average Day, Maximum Month Flow (gpd/ERU) | 288.2 | 227.0 |
| Administration and Service Buildings | | |
| Available Space to Required Need Ratio | 0.82 | 1.0 |

¹ Peak hour, dry weather flow

EXISTING CAPACITY AVAILABLE TO SERVE FUTURE GROWTH

Projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Defining existing system capacity

in terms of a single number is difficult. To improve the accuracy of the analysis, the system was divided into two different components (collection, treatment, and administrative and service buildings). Excess capacity in each component of the system is summarized in Table ES-4.

**Table ES-4
Available Excess Capacity**

| Use Category | Collection System Percent Use | Treatment Percent Use | Administrative and Service Buildings |
|-------------------------------|-------------------------------|-----------------------|--------------------------------------|
| Existing Use | 80.78% | 73.71% | 45.95% |
| Use By 10-Year Growth | 8.80% | 11.06% | 8.75% |
| Use By Growth Beyond 10 years | 10.42% | 15.23% | 45.30% |
| Total | 100.00% | 100.00% | 100.00% |

REQUIRED SYSTEM IMPROVEMENTS

Beyond available existing capacity, additional improvements required to serve new growth are summarized in Table ES-5. To satisfy the requirements of state law, Table ES-5 provides a breakdown of the percentage of the project costs attributed to existing and future users. For future use, capacity has been divided between capacity to be used by growth within the 10-year planning horizon of this IFFP and capacity that will be available for growth beyond the 10-year horizon.

**Table ES-5
Project Costs Allocated to Projected Development, 10 Year Planning Horizon**

| Project ID | Year | Project | Total Project Cost | Percent to Existing | Percent to 10 Year Growth | Percent to Growth 2029 through Buildout | Cost to Existing | Cost to 10 Year Growth | Cost to Growth 2029 through Buildout |
|---|------|--|---------------------|---------------------|---------------------------|---|--------------------|------------------------|--------------------------------------|
| Collection System Projects | | | | | | | | | |
| 2 | 2027 | So. Frontage, 8400 W to 8000 W | \$3,500,700 | 19.2% | 7.8% | 73.0% | \$671,852 | \$272,396 | \$2,556,452 |
| 3 | 2030 | So. Frontage, 8800 W to 8400 W | \$3,115,300 | 21.9% | 4.4% | 73.8% | \$681,472 | \$135,591 | \$2,298,238 |
| 4 | 2028 | 9200 West Trunk, Reach 1 | \$4,327,100 | 12.5% | 4.7% | 82.8% | \$540,888 | \$203,439 | \$3,582,773 |
| 5 | 2029 | 9200 West Bridge Casing and West Trunk (Reach 2) | \$2,650,600 | 14.3% | 5.2% | 80.5% | \$378,657 | \$137,899 | \$2,134,044 |
| 11 | 2031 | 7200 W, 3500 S to 3100 S | \$1,488,700 | 12.0% | 52.9% | 35.1% | \$178,644 | \$787,333 | \$522,723 |
| 12 | 2031 | 8400 W, Main St. to So. Frontage | \$1,274,800 | 14.3% | 41.5% | 44.2% | \$182,114 | \$529,040 | \$563,645 |
| 15 | 2032 | 8000 W, 3200 s to So. Frontage | \$3,650,600 | 93.9% | 6.0% | 0.04% | \$3,429,595 | \$219,379 | \$1,626 |
| | | Subtotal | \$20,007,800 | 30.3% | 11.4% | 58.3% | \$6,063,221 | \$2,285,078 | \$11,659,501 |
| Treatment Plant Projects | | | | | | | | | |
| 1 | 2035 | Surface Aerator Phase 1 | \$3,200,000 | 73.7% | 11.1% | 15.2% | \$2,358,736 | \$353,900 | \$487,364 |
| | | Subtotal | \$3,200,000 | 73.7% | 11.1% | 15.2% | \$2,358,736 | \$353,900 | \$487,364 |
| Administrative and Service Buildings | | | | | | | | | |
| | 2030 | Operator Change Building | \$2,323,920 | 45.9% | 8.8% | 45.3% | \$1,067,806 | \$203,439 | \$1,052,675 |
| | | Subtotal | \$2,323,920 | 45.9% | 8.8% | 45.3% | \$1,067,806 | \$203,439 | \$1,052,675 |
| | | Total | \$25,531,720 | 37.2% | 11.1% | 51.7% | \$9,489,764 | \$2,842,417 | \$13,199,539 |

IMPACT FEE FACILITIES PLAN

INTRODUCTION

Magna Water District has retained Bowen Collins & Associates (BC&A) to prepare an Impact Fee Facilities Plan (IFFP) for sewer collection services provided by the District. The purpose of an IFFP is to identify demands placed upon District facilities by future development and evaluate how these demands will be met by the District. The IFFP is also intended to outline the improvements which may be funded through impact fees.

Much of the analysis forming the basis of this IFFP has been taken from the District's Sewer Master Plan prepared by BC&A. The reader should refer to this document for additional discussion of planning and evaluation methodology beyond what is contained in this report.

SERVICE AREA

For the purpose of impact fee calculations, the District system will be treated as a single service area.

IMPACT FEE FACILITY PLAN COMPONENTS

Requirements for the preparation of an IFFP are outlined in Title 11, Chapter 36a of the Utah Code Annotated (the Impact Fees Act). Under these requirements, an IFFP shall accomplish the following for each facility:

1. Identify the existing level of service
2. Establish a proposed level of service
3. Identify excess capacity to accommodate future growth at the proposed level of service
4. Identify demands placed upon existing public facilities by new development
5. Identify the means by which demands from new development will be met
6. Consider the following additional issues
 - a. revenue sources to finance required system improvements
 - b. necessity of improvements to maintain the proposed level of service
 - c. need for facilities relative to planned locations of schools

The following sections of this report have been organized to address each of these requirements.

EXISTING LEVEL OF SERVICE - Utah Code Annotated 11-36a-302(1)(a)(i)

Level of service is defined in the Impact Fees Act as "the defined performance standard or unit of demand for each capital component of a public facility within a service area". This section discusses the level of service being currently provided to existing users.

Unit of Demand

For the purposes of this analysis, it is useful to define these various demands in terms of Equivalent Residential Units (ERUs). An ERU represents the demand that a typical single-family residence places on the system. An equivalent residential unit was developed based on indoor billing data across the District along with the number of connections defined as "domestic". Based on this information, the

number of ERUs in the District was estimated and the flow rate basis of an ERU could be calculated for historic flows as summarized in Table 1.

Table 1
Service Area Historic Flows and Definition of an ERU

| Item | Value for Existing Conditions (2025) | Total 10-Year Conditions (2035) |
|---|--------------------------------------|---------------------------------|
| Equivalent Residential Connections (ERUs) | 10,710 | 12,751 |
| Domestic Wastewater Production (mgd) | 2.25 | 2.52 |
| Infiltration, Maximum Month (mgd) | 0.83 | 0.87 |
| Average Day, Maximum Month Flow (mgd) | 3.09 | 3.39 |
| Peak Hour Flow (mgd) | 7.72 | 8.48 |
| Flows per ERU | | |
| Domestic Wastewater Production (gpd/ERU) | 210.3 | 197.4 |
| Average Day, Maximum Month Flow (gpd/ERU) | 288.2 | 265.9 |
| Peak Hour Flow (gpd/ERU) | 720.6 | 664.8 |
| Average Indoor Water Use (gpd/ERU) | 249.3 | 231.6 |

It will be noted that projected design flows associated with future connections include a lower amount of infiltration than observed for the existing system. This is associated with projected lower infiltration rates resulting from new construction materials and techniques. This is discussed in detail in the District's Capital Facilities Plan. Thus, only the infiltration that is directly associated with new growth has been included for new connections. Any additional infiltration associated with older materials or system maintenance are specifically excluded from the future growth calculations. Impact fees will be based on only the lower level of infiltration directly associated with new growth as identified in the table.

Included in the table is the definition of an existing ERU in terms of both average and peak flows. The projected flow used to design and evaluate system components will vary depending on the nature of each component. For example, most wastewater treatment facility processes are designed based on average day, maximum month flow. Conversely, conveyance pipelines must be designed based on peak hour flow (function of daily flow and diurnal flow variation).

Performance Standard

Performance standards are those standards that are used to design and evaluate the performance of facilities. This section discusses the existing performance standards for the District.

To improve the accuracy of the analysis, this Impact Fee Facilities Plan has divided the system into three different components (pipeline capacity, treatment capacity, and administrative and service buildings). Each of these components has its own set of performance standards:

Pipeline Capacity. District engineering standards require that all sewer mains greater than or equal to 12-inches in diameter be designed such that the peak flow in the pipe is less than or equal to 75 percent of the pipe's full capacity and all sewer mains less than 12-inches in diameter to be designed such that the peak flow in the pipe is less than or equal to 50 percent of the pipe's full

capacity using a Manning's roughness factor¹ of 0.013. This design standard was used as the level of service for system evaluation.

Wastewater Treatment Facility Capacity. A wastewater treatment facility consists of a large number of different components. Each component may have different criteria for design depending on the nature of the component. For most treatment related components, however, design is based on treating the average daily flow during the maximum month. This is the same standard used by the State of Utah Department of Environmental Quality (UDEQ) when rating the overall capacity of a treatment plant.

Administrative and Service Buildings. In addition to the water system needs, Magna Water District personnel need to be able to provide administrative, operation, and maintenance functions for the District to satisfy a level of service for customers. The District's current administrative and service facilities is composed of a number of different components, including office space, open storage space, maintenance bays, etc., and does not have a specific performance standard. It is proposed that both existing and future users pay for these facilities in proportion to their overall use in the system. Thus, the level of service provided by the facility will be the same for existing and new users. The District's existing facilities should be satisfactory to provide space for personnel through the District's planning window such that there is some excess space available today that is available for additional personnel to fill in the future to support the needs of future users.

Existing Level of Service Summary

Existing level of service has been divided into the same three components as identified for the system performance standard (pipeline capacity, treatment capacity, and administrative and service buildings). Existing level of service values are summarized in Table 2 below.

Table 2
Existing Level of Service
for Various System Requirements

| | Existing Level of Service | Proposed Level of Service |
|--|------------------------------|---------------------------------|
| Pipeline Capacity | | |
| Maximum Ratio of Flow ¹ to Pipeline Capacity/Percent of Collection System that Meets the Standard | | |
| Pipes with diameter > 12 inches | 0.75/98.82% | 0.75/100% |
| Pipes with diameter ≤ 12 inches | 0.5/98.15% | 0.5/100% |
| Treatment Capacity | | |
| Domestic Wastewater Production (gpd/ERU) | 210.3 | 197.4 |
| Infiltration (gpd/ERU) | 77.9 | 29.6 |
| Average Day, Maximum Month Flow (gpd/ERU) | 288.2 | 227.0 |
| Administration and Service Buildings | | |
| Available Space to Required Need Ratio | 0.82 | 1.0 |

¹ Manning's roughness is an empirical measure of roughness or friction used to calculate hydraulic capacity.

As shown in the table, only a small percentage of sewer pipelines in the system fall below the desired performance standard. In most cases, there is excess capacity in District pipes that may be used to accommodate some of future growth. Excess capacity and curing of deficiencies will be discussed in subsequent sections of this report. Costs for projects to correct deficiencies that do not meet the required level of service will not be included as part of the impact fee, consistent with the Impact Fees Act.

PROPOSED LEVEL OF SERVICE - Utah Code Annotated 11-36a-302(1)(a)(ii), 11-36a-302(1)(b), and 11-36a-302(1)(c)(i)

The proposed level of service is the performance standard used to evaluate system needs in the future. The Impact Fee Act indicates that the proposed level of service may:

1. diminish or equal the existing level of service; or
2. exceed the existing level of service if, independent of the use of impact fees, the District implements and maintains the means to increase the level of service for existing demand within six years of the date on which new growth is charged for the proposed level of service.

In the case of this IFFP, no changes are proposed to the existing level of service for design standards except relative to treatment capability. Thus, future growth will essentially be evaluated based on the same design standards level of service as identified for existing. In the case of projected design flows, the proposed level of service will decrease slightly as summarized in Table 1. This is the result of the slower growth in infiltration due to improved construction methods and system maintenance.

The Utah Division of Water Quality has been developing new criteria for the Utah Pollutant Discharge Elimination System (UPDES) Permit related to treatment plant nutrient removal requirements. As a result of the new permit requirements, several improvements will be needed at the District's wastewater treatment facility. As part of these improvements, the District will also be adding some new facilities at the treatment plant that will improve redundancy and the resulting reliability of the plant. These improvements represent an increased level of service that will benefit existing and future users alike. Increases in the level of service for the District will be funded in accordance with the requirements of the Impact Fees Act. As a result, projects associated with these treatment plant improvements will be paid for by all users at proportional rates.

Proposed Level of Service Summary

The resulting proposed level of service for the District is summarized in Table 3.

**Table 3
Proposed Level of Service for Various System Requirements**

| | Proposed Level of Service |
|--|--|
| Pipeline Capacity | |
| Maximum Ratio of Flow ¹ to Pipeline Capacity/Percent of Collection System that Currently Meets the Standard | |
| Pipes with diameter > 12 inches | 0.75/100% |
| Pipes with diameter ≤ 12 inches | 0.5/100% |
| Treatment Capacity | |
| Capacity Required for Future Connections – Average Day, Maximum Month Flow (gpd/ERU) | 227.0 |
| Administration and Service Buildings | |
| Available Space to Need Ratio | 1.0 |

Note that the value given for treatment capacity is the reduced value for future connections based on reduced infiltration as discussed in association with Table 1. The same is true for evaluation of pipeline and lift station capacity. Only the infiltration that is directly associated with new growth has been included for new connections. Any additional infiltration associated with older materials or system maintenance are specifically excluded from the future growth calculations. Impact fees will be based on only the level of infiltration directly associated with new growth as identified in the table.

EXCESS CAPACITY TO ACCOMMODATE FUTURE GROWTH - Utah Code Annotated 11-36a-302(1)(a)(iii)

Because most of the sewer collection facilities within the District have adequate or excess capacity through the long-term planning horizon of the District, capacity for most future growth will be met through available excess capacity in existing facilities. There are two components of assets to discuss within the District: collections system facilities and treatment facilities. Excess capacity in the collection and treatment facilities are described as follows:

Collection

To calculate the percentage of existing capacity to be used by future growth in existing facilities, existing and future flows were examined in the system model for each collection pipeline. The method used to calculate excess capacity available for use by future flows is as follows:

- 1. Calculate Flows** – The peak flow in each facility was calculated in the model for both existing and future flows. The available capacity of each pipeline was also calculated using a criteria based on pipe diameter. For pipes with a diameter greater than 12 inches the capacity at a 0.75 peak flow to capacity ratio was used and for pipes with a diameter less than or equal to 12 inches the capacity at a 0.50 peak flow to capacity ratio was used.
- 2. Identify Available Capacity** – Where a facility has capacity in excess of projected flows at buildout, the available capacity in the facility was defined as the difference between existing flows and buildout flows. Where the facility has capacity less than projected flows at buildout, the available capacity in the facility was defined as the difference between existing flows and the facility's maximum capacity.
- 3. Eliminate Facilities without Excess Capacity** – For the 10-year planning horizon period,

the projected growth in flow was compared against the facility's available capacity. Where the future flow exceeded the capacity of the facility, the available excess capacity was assumed to be zero. By definition, this corresponds to those facilities with deficiencies that are identified for replacement in the facilities plan. By assigning a capacity of zero to new users, this eliminated double counting those facilities against new users.

4. **Calculate Percent of Excess Capacity Used in Remaining Facilities** – Where the future flow was less than the capacity of the facility, the percent of excess capacity being used in each facility was calculated by dividing the growth in flow in the facility (future flow less existing flow) by the total capacity (existing flow plus available capacity).
5. **Calculate Excess Capacity for the System as a Whole** – Each pipeline in the system has a different quantity of excess capacity to be used by future growth. To develop an estimate of excess capacity on a system wide basis, the capacities of each of these pipelines and their contribution to the system as a whole must be considered. To do this, each pipeline must first be weighted based on its relative capacity in the system. For this purpose, each pipeline has been weighted based on the product of its diameter and length. For example, a pipe that is 36 inches in diameter and is 4,000 feet long will cost proportionally more than a pipe that is 10 inches in diameter and 300 feet long. The excess capacity in the system as a whole can then be calculated as the sum of the weighted capacity used by future growth divided by the sum of total weighted capacity in the system.

Based on the method described above, the amount of excess capacity in existing facilities available to accommodate future growth and the demands placed on the existing facilities by new development activity has been calculated for each element in the system by BC&A. This is summarized in Table 4.

**Table 4
Collection System Excess Capacity**

| Use Category | District Area Percent Use |
|-------------------------------|---------------------------|
| Existing Use | 80.78% |
| Use By 10-Year Growth | 8.80% |
| Use By Growth Beyond 10 years | 10.42% |
| Total | 100.00% |

Treatment

The District has a total treatment capacity of 4.0 mgd at the Magna Wastewater Treatment Facility. Projected peak month, average day flows for existing development are 2.95 mgd, and are projected to be 3.39 mgd in 10 years. Based projected flows in the District service area, the existing treatment plant capacity is summarized in Table 5.

**Table 5
Excess Wastewater Treatment Facility Capacity**

| Use Category | Total Treatment Plant Flow (MGD) | District Area Percent Use |
|-------------------------------|----------------------------------|---------------------------|
| Existing Use | 2.95 | 73.71% |
| Use by 10-Year Growth | 0.44 | 11.06% |
| Use by Growth Beyond 10 years | 0.61 | 15.23% |
| Total | 4.00 | 100.00% |

Administrative and Service Buildings

As discussed under the existing and proposed level of service sections, Magna Water District's District Office has sufficient capacity through the District's long-term planning window and has excess capacity for future growth as listed in Table 6.

**Table 6
Administrative Excess Capacity**

| Use Category | District Area ERUs | District Area Percent Use |
|-------------------------------|--------------------|---------------------------|
| Existing Use | 10,710 | 45.95% |
| Use by 10-Year Growth | 2,041 | 8.75% |
| Use by Growth Beyond 10 years | 10,558 | 45.30% |
| Total | 23,309 | 100.00% |

DEMANDS PLACED ON FACILITIES BY NEW DEVELOPMENT - Utah Code Annotated 11-36a-302(a)(iv)

Growth within the District's service area, and projections of sewer flows resulting from said growth is discussed in detail in the District's Master Plans. Growth in terms of both Equivalent Residential Units and corresponding sewer flows is summarized in Table 7².

² For the purposes of this report, "10-year Growth" refers to growth between existing and 2030. Existing flows are based on 2019 estimates, which technically makes this an 11-year planning window. However, 2030 is a more common projection interval in District and regional growth projections and is thus, more convenient for estimating than 2029.

**Table 7
District Projections of Growth**

| Year | Service Area ERUs | Estimated Dry Weather Sewer Flows (MGD) | Estimated Infiltration (MGD) | Total Max Month, average day Flow (MGD) | Peak Hour Flows (MGD) |
|------|-------------------|---|------------------------------|---|-----------------------|
| 2025 | 10,710 | 2.25 | 0.83 | 3.09 | 7.72 |
| 2035 | 12,751 | 2.52 | 0.87 | 3.39 | 8.48 |
| 2045 | 14,662 | 2.78 | 0.91 | 3.69 | 9.23 |
| 2055 | 16,841 | 3.10 | 0.96 | 4.07 | 10.16 |
| 2065 | 19,160 | 3.46 | 1.02 | 4.48 | 11.19 |
| 2075 | 21,162 | 3.84 | 1.07 | 4.91 | 12.28 |
| 2085 | 23,207 | 4.22 | 1.13 | 5.35 | 13.39 |
| 2090 | 23,309 | 4.42 | 1.16 | 5.58 | 13.96 |

INFRASTRUCTURE REQUIRED TO MEET DEMANDS OF NEW DEVELOPMENT – Utah Code Annotated 11-36a-302(1)(a)(v)

To satisfy the requirements of state law, demands placed upon existing system facilities by future development was projected using the process outlined below. Each of the steps were completed as part of this plan's development:

1. **Existing Demand** – The demand existing development places on the District's system was estimated based on historic water use and flow records.
2. **Existing Capacity** – The capacities of existing collection system facilities were estimated using size data provided by the District and a hydraulic computer model.
3. **Existing Deficiencies** – Existing deficiencies in the system were looked for by comparing defined levels of service against calculated capacities. A few deficiencies were identified in the Sewer Master Plan.
4. **Future Demand** - The demand future development will place on the system was estimated based on development projections (discussed in the Sewer Master Plan).
5. **Future Deficiencies** - Future deficiencies in the collection system (portions of the system that are inadequate to accommodate the demand created by future growth) were identified using the defined level of service and results from a hydraulic computer model (discussed in the Sewer Master Plan).
6. **Recommended Improvements** – Needed system improvements were identified to meet demands associated with future development.

The steps listed above “identify demands placed upon existing public facilities by new development activity at the proposed level of service; and... the means by which the political subdivision or private entity will meet those growth demands” (Section 11-36a-302(1)(a) of the Utah Code Annotated).

10 Year Improvement Plan

In the District's Sewer Master Plan, capital facility projects needed to provide service to customers of the District were identified. Some of the projects identified in the master plan will not be needed within the next 10 years. Only infrastructure to be constructed within a 10-year horizon will be considered in the calculation of impact fees to avoid uncertainty surrounding improvements further into the future. Table 8 summarizes the components of projects identified in the master plan that will need to be constructed within the next ten years.

Table 8
Project Costs Allocated to Projected Development, 10 Year Planning Horizon

| Project ID | Year | Project | Total Project Cost | Percent to Existing | Percent to 10 Year Growth | Percent to Growth 2029 through Buildout | Cost to Existing | Cost to 10 Year Growth | Cost to Growth 2029 through Buildout |
|---|------|--|---------------------|---------------------|---------------------------|---|--------------------|------------------------|--------------------------------------|
| Collection System Projects | | | | | | | | | |
| 2 | 2027 | So. Frontage, 8400 W to 8000 W | \$3,500,700 | 19.2% | 7.8% | 73.0% | \$671,852 | \$272,396 | \$2,556,452 |
| 3 | 2030 | So. Frontage, 8800 W to 8400 W | \$3,115,300 | 21.9% | 4.4% | 73.8% | \$681,472 | \$135,591 | \$2,298,238 |
| 4 | 2028 | 9200 West Trunk, Reach 1 | \$4,327,100 | 12.5% | 4.7% | 82.8% | \$540,888 | \$203,439 | \$3,582,773 |
| 5 | 2029 | 9200 West Bridge Casing and West Trunk (Reach 2) | \$2,650,600 | 14.3% | 5.2% | 80.5% | \$378,657 | \$137,899 | \$2,134,044 |
| 11 | 2031 | 7200 W, 3500 S to 3100 S | \$1,488,700 | 12.0% | 52.9% | 35.1% | \$178,644 | \$787,333 | \$522,723 |
| 12 | 2031 | 8400 W, Main St. to So. Frontage | \$1,274,800 | 14.3% | 41.5% | 44.2% | \$182,114 | \$529,040 | \$563,645 |
| 15 | 2032 | 8000 W, 3200 s to So. Frontage | \$3,650,600 | 93.9% | 6.0% | 0.04% | \$3,429,595 | \$219,379 | \$1,626 |
| | | Subtotal | \$20,007,800 | 30.3% | 11.4% | 58.3% | \$6,063,221 | \$2,285,078 | \$11,659,501 |
| Treatment Plant Projects | | | | | | | | | |
| 1 | 2035 | Surface Aerator Phase 1 | \$3,200,000 | 73.7% | 11.1% | 15.2% | \$2,358,736 | \$353,900 | \$487,364 |
| | | Subtotal | \$3,200,000 | 73.7% | 11.1% | 15.2% | \$2,358,736 | \$353,900 | \$487,364 |
| Administrative and Service Buildings | | | | | | | | | |
| | 2030 | Operator Change Building | \$2,323,920 | 45.9% | 8.8% | 45.3% | \$1,067,806 | \$203,439 | \$1,052,675 |
| | | Subtotal | \$2,323,920 | 45.9% | 8.8% | 45.3% | \$1,067,806 | \$203,439 | \$1,052,675 |
| | | Total | \$25,531,720 | 37.2% | 11.1% | 51.7% | \$9,489,764 | \$2,842,417 | \$13,199,539 |

Project Cost Attributable to Future Growth

To satisfy the requirements of state law, Table 9 provides a breakdown of the capital facility projects and the percentage of the project costs attributed to existing and future users. As defined in Utah Code Annotated 11-36a-102(15), the Impact Fee Facilities Plan should only include the proportionate share of “the cost of public facilities that are roughly proportionate and reasonably related to the service demands and needs of any development activity.” Some projects identified in the table are required solely to meet future growth, but some projects also provide a benefit to existing users. Projects that benefit existing users include those projects addressing existing capacity needs and maintenance related projects.

For many projects, the division of costs between existing and future users is easy because 100 percent of the project costs can be attributed to one category or the other (e.g. infrastructure needed solely to serve new development can be 100 percent attributed to new growth, while projects related to existing condition or capacity deficiencies can be 100 percent attributed to existing user needs). For projects needed to address both existing deficiencies and new growth or where a higher level of service is being proposed, costs have been divided proportionally between existing and future users based on their use of the facility. A few additional notes regarding specific projects are as follows:

- **Secondary Reuse** – This project both improves the District’s wastewater treatment and increases the District’s water supply. This sewer IFFP includes 20% of the total secondary reuse cost as the portion of project costs benefitting wastewater treatment and the rest is included in the District’s water IFFP. For the portion of cost assigned to wastewater, the improvements are treated as level of service improvements that are to be paid for by all user types proportionally (see below).
- **New Dewatering Press** – This project increases the District’s level of service for wastewater treatment by adding a new dewatering press for redundancy. This project gives the District’s wastewater treatment plant the flexibility to cut down the run times for the existing dewatering presses.
- **Treatment Plant Projects** – As can be seen in the table, the percentages of cost assigned to future growth categories are identical for all the treatment plant projects. The reason for this is that all the treatment projects have been classified as improvements in level of service, not additions to capacity at the plant. Therefore, the percentage of cost to existing, 10-year growth, and beyond 10-year growth is distributed based on total use of the plant, the same as calculated in Table 6.

Project Cost Attributable to 10 Year Growth

Included in Table 9 is a breakdown of capacity use associated with growth both through buildout and through the next 10 years. This is necessary because the projects identified in the tables will be built with capacity to accommodate flows beyond the 10-year growth horizon. This has been done following the same general process as described above.

Basis of Construction Cost Estimates

The costs of pipe and planning projects have been based on engineering cost estimates contained in the Sewer Master Plan.

ADDITIONAL CONSIDERATIONS

MANNER OF FINANCING – Utah Code Annotated 11-36a-302(2)

The District may fund the infrastructure identified in this IFFP through a combination of different revenue sources.

Federal and State Grants and Donations

Impact fees cannot reimburse costs funded or expected to be funded through federal grants and other funds that the District has received for capital improvements without an obligation to repay. Grants and donations are not currently contemplated in this analysis. If grants become available for constructing facilities, impact fees will need to be recalculated and an appropriate credit given. Any existing infrastructure funded through past grants will be removed from the system value during the impact fee analysis.

Bonds

None of the costs contained in this IFFP include the cost of bonding. The cost of bonding required to finance impact fee eligible improvements identified in the IFFP may be added to the calculation of the impact fee. This will be considered in the impact fee analysis.

User Rate Revenue

Because infrastructure must generally be built ahead of growth, there often arises situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be used to complete initial construction of impact fee eligible projects and will be reimbursed later as impact fees are received. Consideration of potential use of user rate revenue to pay for impact fee eligible expenditures will be included in the impact fee analysis and should also be considered in subsequent accounting of impact fee expenditures.

Interfund Loans

Because infrastructure must generally be built ahead of growth, there often arises situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be loaned to the impact fee fund to complete initial construction of the project and will be reimbursed later as impact fees are received. Consideration of potential interfund loans will be included in the impact fee analysis and should also be considered in subsequent accounting of impact fee expenditures.

Impact Fees

It is recommended that impact fees be used to fund growth-related capital projects as they help to maintain the proposed level of service and prevent existing users from subsidizing the capital needs for new growth. Based on this IFFP, an impact fee analysis will be able to calculate a fair and legal fee that new growth should pay to fund the portion of the existing and new facilities that will benefit new development.

Developer Dedications and Exactions

Developer exactions are not the same as grants. Developer exactions may be considered in the inventory of current and future infrastructure. If a developer constructs facilities or dedicates land

within the development for the construction of facilities identified in this IFFP, the value of the dedication is credited against that particular developer's impact fee liability.

If the value of the dedication/exaction is less than the development's impact fee liability, the developer will owe the balance of the liability to the District. If the value of the improvements dedicated is worth more than the development's impact fee liability, the District must reimburse the difference to the developer from impact fee revenues collected from other developments.

It should be emphasized that the concept of impact fee credits pertains to system level improvements only. For project level improvement (i.e. projects not identified in the impact fee facility plan), developers will be responsible for the construction of the improvements without credit against the impact fee.

NECESSITY OF IMPROVEMENTS TO MAINTAIN LEVEL OF SERVICE - Utah Code Annotated 11-36a-302(3)

According to State statute, impact fees cannot be used to correct deficiencies in the District's system and must be necessary to maintain the proposed level of service established for all users. Only those facilities or portions of facilities that are required to maintain the proposed level of service for future growth have been included in this IFFP. This will result in an equitable fee as future users will not be expected to fund any portion of the facilities that will benefit existing residents.

SCHOOL RELATED INFRASTRUCTURE - Utah Code Annotated 11-36a-302(2)

As part of the noticing and data collection process for this plan, information was gathered regarding future school District and charter school development. Where the District is aware of the planned location of a school, required public facilities to serve the school have been included in the impact fee facility plan.

NOTICING AND ADOPTION REQUIREMENTS - Utah Code Annotated 11-36a-502

The Impact Fees Act requires that entities must publish a notice of intent to prepare or modify any IFFP. If an entity prepares an independent IFFP rather than include a capital facilities element in the general plan, the actual IFFP must be adopted by enactment. Before the IFFP can be adopted, a reasonable notice of the public hearing must be published in a local newspaper at least 10 days before the actual hearing. A copy of the proposed IFFP must be made available in each public library within the District during the 10-day noticing period for public review and inspection. Utah Code requires that the District must post a copy of the ordinance in at least three places. These places may include the District offices and the public libraries within the District's jurisdiction. Following the 10-day noticing period, a public hearing will be held, after which the District may adopt, amend and adopt, or reject the proposed IFFP.

IMPACT FEE CERTIFICATION - UTAH CODE ANNOTATED 11-36A-306(1)

This IFFP has been prepared in accordance with Utah Code Title 11 Chapter 36a (the “Impact Fees Act”), which prescribes the laws pertaining to Utah municipal capital facilities plans and impact fee analyses. The accuracy of this report relies upon the planning, engineering, and other source data, which was provided by the City and their designees.

In accordance with Utah Code Annotated, 11-36a-306(1), Bowen Collins & Associates, makes the following certification:

I certify that this impact fee facility plan:

1. Includes only the cost of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
 - a. costs of operation and maintenance of public facilities; or
 - b. cost of qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; and
3. Complies in each relevant respect with the Impact Fees Act.

This certification is made with the following caveats:

1. All of the recommendations for implementations of the Impact Fee Facilities Plan (IFFP) made in the IFFP or in the impact fee analysis are followed in their entirety by the City.
2. If all or a portion of the IFFP or impact fee analysis is modified or amended, this certification is no longer valid.
3. All information provided in the preparation of this IFFP is assumed to be correct, complete and accurate. This includes information provided by the City and outside sources.



Keith Larson, P.E.

Magna Water District Sewer Impact Fee Analysis

January 2026

Prepared for:



Prepared by:



EXECUTIVE SUMMARY SEWER IMPACT FEE ANALYSIS

INTRODUCTION

An impact fee is a one-time fee, not a tax, imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure. The purpose of the impact fee analysis (IFA) is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

WHY ASSESS AN IMPACT FEE?

Until new development utilizes the full capacity of existing facilities, the City can assess an impact fee to recover its cost of latent capacity available to serve future development. The general impact fee methodology divides the available capacity of existing and future capital projects between existing and future users. Capacity is measured in terms of Equivalent Residential Units, or ERUs, which represents the demand that a typical single-family residence places on the system.

HOW ARE IMPACT FEES CALCULATED?

A fair impact fee is calculated by dividing the cost of existing and future facilities by the amount of new growth that will benefit from the unused capacity. Only the capacity that is needed to serve the projected growth within in the next ten years is included in the fee. Costs used in the calculation of impact fees include:

- New facilities required to maintain (but not exceed) the proposed level of service in the system; only those expected to be built within ten years are considered in the final calculations of the impact fee.
- Historic costs of existing facilities that will serve new development
- Cost of professional services for engineering, planning, and preparation of the impact fee facilities plan and impact fee analysis

Costs not used in the impact fee calculation

- Operational and maintenance costs
- Cost of facilities constructed beyond 10 years
- Cost associated with capacity not expected to be used within 10 years
- Cost of facilities funded by grants, developer contributions, or other funds which the District is not required to repay
- Cost of renovating or reconstructing facilities which do not provide new capacity or needed enhancement of services to serve future development

IMPACT FEE CALCULATION

Impact fees for this analysis were calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years based on ERUs. This is done for both collection and treatment facilities. Calculated impact fees by component are summarized in Table ES-1. Table ES-1 covers the cost of impacts on collection and treatment facilities from growth within the Magna Water District service area.

**Table ES-1
Impact Fee Calculation per ERU – Magna Water District Service Area**

| System Components | Total Cost of Components | % Serving 10-year Growth | Cost Serving 10-year Growth | 10-year ERUs Served | Cost Per ERU |
|---|---------------------------------|---------------------------------|------------------------------------|----------------------------|---------------------|
| Administrative and Service Facilities | | | | | |
| Existing Facilities - Administration Building | \$1,885,028 | 8.8% | \$165,018 | 2,041 | \$80.85 |
| 10- year Project - Operator Change Building | \$2,323,920 | 8.8% | \$203,439 | 2,041 | \$99.68 |
| Subtotal | \$4,208,948 | | \$368,457 | | \$180.53 |
| Collection Facilities | | | | | |
| Existing Facilities - Pipelines | \$12,004,035 | 9.9% | \$1,193,982 | 2,041 | \$585.00 |
| Existing Facility Interest Costs - Pipelines | \$848,537 | 9.9% | \$84,400 | 2,041 | \$41.35 |
| 10-Year Projects | \$20,007,800 | 11.4% | \$2,285,078 | 2,041 | \$1,119.59 |
| 10-Year Project Interest Costs | \$0 | 11.4% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | (\$69.85) |
| Subtotal | \$32,860,372 | | \$3,563,460 | | \$1,676.09 |
| Treatment Plant | | | | | |
| Existing Facilities | \$48,138,096 | 11.1% | \$5,323,771 | 2,041 | \$2,608.41 |
| Existing Facility Interest Costs | \$3,394,149 | 11.1% | \$375,372 | 2,041 | \$183.92 |
| 10-Year Projects | \$3,200,000 | 11.1% | \$353,900 | 2,041 | \$173.40 |
| 10 Year Project Interest Costs | \$0 | 11.1% | \$0 | 2,041 | \$0.00 |
| Credit for Users Fees Paid Toward Existing | | | | | (\$396.24) |
| Subtotal | \$54,732,245 | | \$6,053,043 | | \$2,569.49 |
| Studies | | | | | |
| All Studies | \$319,949 | 49.8% | \$159,196 | 2,041 | \$78.00 |
| Total | \$92,121,514 | | \$10,144,155 | | \$4,504.10 |

RECOMMENDED IMPACT FEE

The total calculated impact fees are summarized in Table ES-2. Included in this table is the appropriate user fee credit and corresponding overall fee. The calculated user fee credit associated with the impact fees will decrease over time. As a result, the allowable impact fee will increase over time as shown in the table. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

Table ES-2
Recommended Per ERU Impact Fee – Magna Water District Service Area

| Maximum Allowable Impact Fee (Per ERU, by year) | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Base Impact Fee (includes study costs) | \$4,970.19 | \$4,970.19 | \$4,970.19 | \$4,970.19 | \$4,970.19 | \$4,970.19 |
| User Fee Credit | \$401.32 | \$340.78 | \$294.86 | \$251.48 | \$211.11 | \$180.85 |
| Total Overall Fee | \$4,568.87 | \$4,629.41 | \$4,675.33 | \$4,718.71 | \$4,759.08 | \$5,151.04 |

IMPACT FEE ANALYSIS (SEWER)

INTRODUCTION

Magna Water District has retained Bowen Collins & Associates (BC&A) to prepare an impact fee analysis (IFA) for its sewer system based on a recently completed impact fee facilities plan. An impact fee is a one-time fee, not a tax, imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure. The purpose of an IFA is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

Service Areas

For the purpose of impact fee calculations, the Magna Water District sewer system includes the Magna Water District corporate boundary.

Requirements

Requirements for the preparation of an IFA are outlined in Title 11, Chapter 36a of the Utah Code (the Impact Fees Act). Under these requirements, an IFA shall accomplish the following for each facility:

1. Identify the impact of anticipated development activity on existing capacity
2. Identify the impact of anticipated development activity on system improvements required to maintain the established level of service
3. Demonstrate how the impacts are reasonably related to anticipated development activity
4. Estimate the proportionate share of:
 - a. Costs of existing capacity that will be recouped
 - b. Costs of impacts on system improvements that are reasonably related to the new development activity
5. Identify how the impact fee was calculated
6. Consider the following additional issues
 - a. Manner of financing improvements
 - b. Dedication of system improvements
 - c. Extraordinary costs in servicing newly developed properties
 - d. Time-price differential

The following sections of this report have been organized to address each of these requirements.

IMPACT ON SYSTEM - 11-36A-304(1)(A)(B)

Growth within the District's service area, and projections of sewer flows resulting from said growth is discussed in detail in the District's Impact Fee Facilities Plan. For the purposes of impact fee calculation, growth in the system has been expressed in terms of equivalent residential units (ERUs). An ERU represents the demand that a typical single-family residence places on the system. Growth in ERUs projected for the service area is summarized in Table 1.

Table 1
Projected Magna Water Sewer System Growth – Flow ERUs

| Year | Service Area ERUs | Estimated Dry Weather Sewer Flows (MGD) | Estimated Infiltration (MGD) | Total Estimated WWTP Flows (MGD) |
|------|-------------------|---|------------------------------|----------------------------------|
| 2025 | 10,710 | 2.25 | 0.83 | 3.09 |
| 2035 | 12,751 | 2.52 | 0.87 | 3.39 |
| 2045 | 14,662 | 2.78 | 0.91 | 3.69 |
| 2055 | 16,841 | 3.10 | 0.96 | 4.07 |
| 2065 | 19,160 | 3.46 | 1.02 | 4.48 |
| 2075 | 21,162 | 3.84 | 1.07 | 4.91 |
| 2085 | 23,207 | 4.22 | 1.13 | 5.35 |
| 2090 | 23,309 | 4.42 | 1.16 | 5.58 |

As indicated in the table, projected growth for the 10-year planning window of this impact fee analysis is 2,041 ERUs. In order to maintain the established level of service, projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Use of excess capacity and required system improvements are detailed in the Impact Fee Facilities Plan.

RELATION OF IMPACTS TO ANTICIPATED DEVELOPMENT - 11-36A-304(1)(C)

To satisfy the requirements of state law, it is necessary to show that all impacts identified in the impact fee analysis are reasonably related to the anticipated development activity. This has been documented in detail in Impact Fee Facilities Plan. In short, only that capacity directly associated with demand placed upon existing system facilities by future development has been identified as an impact of the development. The steps completed to identify the impacts of anticipated development are as follows.

1. **Existing Demand** – The demand existing development places on the system was estimated based on historic demand records.
2. **Existing Capacity** – The capacities of existing facilities were calculated based on the level of service criteria established for each type of facility in the Impact Fee Facilities Plan.
3. **Existing Deficiencies** – Existing deficiencies in the system were looked for by comparing defined levels of service against calculated capacities. If existing deficiencies exist, projects were identified to eliminate the deficiencies. Costs associated with existing deficiencies were not assigned to impacts of development.
4. **Future Demand** - The demand future development will place on the system was estimated based on development projections as discussed in the Impact Fee Facilities Plan.

5. **Future Demand Use of Existing Capacity** – Whenever possible, excess capacity in existing facilities has been used to serve future demands. Where this occurs, the amount of capacity used by future growth has been calculated as described in detail in the Impact Fee Facilities Plan.
6. **Future Deficiencies** – Where excess capacity is inadequate to meet projected demands, future deficiencies in the system were identified using the same established level of service criteria used for existing demands.
7. **Recommended Improvements** – Needed system improvements were identified to meet demands associated with future development.

Proportionate Share Analysis – 11 – 36A-304(D)

A comprehensive proportionate share analysis associated with anticipated future development and its impact on the system was completed as part of the Impact Fee Facilities Plan. A summary of that analysis is contained here with additional discussion of the costs of facilities impacted by growth.

Excess Capacity to Accommodate Future Growth

Projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Defining existing system capacity in terms of a single number is difficult. To improve the accuracy of the analysis, the system was divided into two different components (collection, treatment, and administrative and service buildings). Excess capacity in each component of the system is summarized in Table 2.

**Table 2
Use of Existing Capacity**

| Use Category | Collection System Percent Use | Treatment Percent Use | Administrative and Service Buildings |
|-------------------------------|--------------------------------------|------------------------------|---|
| Existing Use | 80.78% | 73.71% | 45.95% |
| Use By 10-Year Growth | 8.80% | 11.06% | 8.75% |
| Use By Growth Beyond 10 years | 10.42% | 15.23% | 45.30% |
| Total | 100.00% | 100.00% | 100.00% |

Existing System Infrastructure Costs

To calculate the actual cost of excess capacity in the existing system, BC&A first looked at the actual cost of all existing facilities. Table 3 lists the actual construction costs of existing components of the District's wastewater system. These are not depreciated replacement costs, but the actual cost of existing District infrastructure at the time of construction. Appendix A shows a detailed breakdown of these projects and their associated costs. These costs were estimated from the District's asset depreciation schedule.

**Table 3
Existing Infrastructure Costs**

| | Collection | Treatment | Sewer Portion of Administrative Building |
|--|-------------------|------------------|---|
| Existing Infrastructure Costs | \$12,004,035 | \$48,138,096 | \$1,885,028 |

In this study, public facility costs already incurred by the District will be included in the impact fee only to the extent that new growth will be served by the previously constructed improvements.

Reimbursement Agreements

There are no current reimbursement agreements existing within the District's system that have not already been accounted for in the existing infrastructure analysis.

Future Improvements

In addition to using available existing capacity, demand associated with projected future development will be met through the construction of additional capacity in new facilities. A primary focus of the Impact Fee Facilities Plan was the identification of projects required to serve new development. The results of the Impact Fee Facilities Plan are summarized in Table 4. Included in the table are the costs of each required project and the portion of costs associated with development for the 10-year planning window. All cost estimates contained in this IFA have been taken directly from the IFFP. The basis of these estimates is documented in the IFFP.

**Table 4
Impact Fee Eligible Capital Projects**

| Project ID | Year | Project | Total Project Cost | Percent to 10 Year Growth | Cost to 10 Year Growth |
|---|------|--|---------------------|---------------------------|------------------------|
| Collection System Projects | | | | | |
| 2 | 2027 | So. Frontage, 8400 W to 8000 W | \$3,500,700 | 7.8% | \$272,396 |
| 3 | 2030 | So. Frontage, 8800 W to 8400 W | \$3,115,300 | 4.4% | \$135,591 |
| 4 | 2028 | 9200 West Trunk, Reach 1 | \$4,327,100 | 4.7% | \$203,439 |
| 5 | 2029 | 9200 West Bridge Casing and West Trunk (Reach 2) | \$2,650,600 | 5.2% | \$137,899 |
| 11 | 2031 | 7200 W, 3500 S to 3100 S | \$1,488,700 | 52.9% | \$787,333 |
| 12 | 2031 | 8400 W, Main St. to So. Frontage | \$1,274,800 | 41.5% | \$529,040 |
| 15 | 2032 | 8000 W, 3200 s to So. Frontage | \$3,650,600 | 6.0% | \$219,379 |
| <i>Subtotal</i> | | | \$20,007,800 | 11.4% | \$2,285,078 |
| Treatment Plant Projects | | | | | |
| 1 | 2035 | Surface Aerator Phase 1 | \$3,200,000 | 11.1% | \$353,900 |
| <i>Subtotal</i> | | | \$3,200,000 | 11.1% | \$353,900 |
| Administrative and Service Buildings | | | | | |
| | 2030 | Operator Change Building | \$2,323,920 | 8.8% | \$203,439 |
| <i>Subtotal</i> | | | \$2,323,920 | 8.8% | \$203,439 |
| Total | | | \$25,531,720 | 11.1% | \$2,842,417 |

Planning and Impact Fee Studies

Utah Code allows for the cost of planning and engineering associated with impact fee calculations to be recovered as part of an impact fee. The final impact fee will include the cost of this study and recommended planning projects in the next ten years as summarized in Table 5.

Table 5
Impact Fee Costs Associated with Studies per ERU

| System Components | Total Cost of Component | % Serving 10-year Growth | Cost Serving 10-year Growth | 10-year ERUs Served | Cost Per ERU |
|---|--------------------------------|---------------------------------|------------------------------------|----------------------------|---------------------|
| 2025 Sewer Master Plan | \$59,702 | 76.96% | \$45,949 | 2,041 | \$22.51 |
| 2025 Sewer Impact Fee Facility Plan and Impact Fee Analysis | \$15,247 | 100.00% | \$15,247 | 2,041 | \$7.47 |
| 2025 Treatment Plant Facility Plan Study | \$245,000 | 40.00% | \$98,000 | 2,041 | \$48.02 |
| Subtotal | \$319,949 | | \$159,196 | | \$95.54 |

IMPACT FEE CALCULATION - 11-36A-304(1)(E)

Using the information contained in the previous sections, impact fees can be calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years. Calculated impact fees by component are summarized in Table 6 for Magna Water District.

Table 6
Impact Fee Calculation per ERU – Magna Water District Service Area

| System Components | Total Cost of Components | % Serving 10-year Growth | Cost Serving 10-year Growth | 10-year ERUs Served | Cost Per ERU |
|---|---------------------------------|---------------------------------|------------------------------------|----------------------------|---------------------|
| Administrative and Service Facilities | | | | | |
| Existing Facilities - Administration Building | \$1,885,028 | 8.8% | \$165,018 | 2,041 | \$80.85 |
| 10- year Project - Operator Change Building | \$2,323,920 | 8.8% | \$203,439 | 2,041 | \$99.68 |
| Subtotal | \$4,208,948 | | \$368,457 | | \$180.53 |
| Collection Facilities | | | | | |
| Existing Facilities - Pipelines | \$12,004,035 | 9.9% | \$1,193,982 | 2,041 | \$585.00 |
| Existing Facility Interest Costs - Pipelines | \$848,537 | 9.9% | \$84,400 | 2,041 | \$41.35 |
| 10-Year Projects | \$20,007,800 | 11.4% | \$2,285,078 | 2,041 | \$1,119.59 |
| 10-Year Project Interest Costs | \$0 | 11.4% | \$0 | 2,041 | \$0.00 |
| Credit for User Fees Paid Toward Existing | | | | | (\$69.85) |
| Subtotal | \$32,860,372 | | \$3,563,460 | | \$1,676.09 |
| Treatment Plant | | | | | |
| Existing Facilities | \$48,138,096 | 11.1% | \$5,323,771 | 2,041 | \$2,608.41 |
| Existing Facility Interest Costs | \$3,394,149 | 11.1% | \$375,372 | 2,041 | \$183.92 |
| 10-Year Projects | \$3,200,000 | 11.1% | \$353,900 | 2,041 | \$173.40 |
| 10 Year Project Interest Costs | \$0 | 11.1% | \$0 | 2,041 | \$0.00 |
| Credit for Users Fees Paid Toward Existing | | | | | (\$396.24) |
| Subtotal | \$54,732,245 | | \$6,053,043 | | \$2,569.49 |
| Studies | | | | | |
| All Studies | \$319,949 | 49.8% | \$159,196 | 2,041 | \$78.00 |
| Total | \$92,121,514 | | \$10,144,155 | | \$4,504.10 |

Bonding Interest Costs

In addition to construction costs, Table 5 includes the cost of bond interest expense where applicable. This includes both historic interest costs on existing facilities where new growth will benefit from excess capacity and future interest costs for bonds required to build projects needed for growth as identified in the Impact Fee Facilities Plan. Similar to project construction costs, only that portion of interest expense associated with capacity for growth is included in the impact fee calculation. In the case of the Magna Water District wastewater system, the following bonds were included in the study:

- **2013 General Obligation Refunding Bond** – This bond was a refunding of a previous bond used for improvements to the District’s wastewater treatment plant, minor sewer collection improvements, and improvements to the EDR system. The District started payments on this bond in the year 2014. The beginning bond balance was \$8,245,000 with 51.78 percent of this associated with sewer improvements. This bond was included in the table above under the Treatment Plant Existing Facility Interest Costs and Collection Facilities Existing Facility Interest Costs categories. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **2017 General Obligation Refunding Bond** – This bond was a refunding of a previous bond used for improvements to the District’s wastewater treatment plant, minor sewer collection improvements, and the District’s water distribution system. The District started payments on this bond in the year 2017. The beginning bond balance was \$13,975,000 with 43.38 percent of this associated with sewer improvements. This bond was included in the table above under the Treatment Plant Existing Facility Interest Costs and Collection Facilities Existing Facility Interest Costs categories. Costs shown are actual costs that have been or will be incurred in association with this bond.
- **2019 General Obligation Refunding Bond** – This bond was a refunding of a previous bond used for improvements to the District’s wastewater treatment plant, minor sewer collection improvements, and the District’s water distribution system. The District started payments on this bond in the year 2019. The beginning bond balance was \$8,025,000 with 43.38 percent of this associated with sewer improvements. This bond was included in the table above under the Treatment Plant Existing Facility Interest Costs and Collection Facilities Existing Facility Interest Costs categories. Costs shown are actual costs that have been or will be incurred in association with this bond.

Credit for User Fees

As currently structured, future users will pay for their portion of capacity via impact fees. They cannot also be expected to pay through user rates the portion of future bonds that will be used to build capacity for existing users. This creates the need for a credit for future users. Calculation of this credit is summarized in Table 7 and Table 8. These tables include the following information:

- **Existing Portion of Loan Paid Through User Fees** – This represents the total amount paid each year by the District toward the portion of any loans used to build capacity for existing users.
- **Cost Per ERU** – This column takes the total amount paid and divides it by the number of ERUs projected for each year. This represents the amount paid in each year by each ERU.
- **Present Value Cost per ERU** – This column takes into account the time value of money assuming a rate of return of 3.5 percent annually.
- **Total User Fee Credit** – At the bottom of the table, the present value costs for all future years are added together to develop the total user fee credit.

It will be noted that, because the user fee credit is the summation of user fees paid toward existing deficiencies in each year, a new user who joins the system in five or ten years will pay less in total user fees than someone who joins the system next year. Thus, the user fee credit will decrease over time. The appropriate user fee can be calculated by adding the present value cost for all years subsequent to a new user's connection to the system.

Table 7
Credit for User Fees Paid Toward Existing – Magna Water District Collection System

| Year | Magna Water ERUs | Existing Capacity Portion of Loans Paid Through User Fees | Cost Per ERU | Present Value Cost Per ERU |
|------------------------------|------------------|---|--------------|----------------------------|
| 2025 | 10,710 | \$103,966 | \$9.71 | \$9.71 |
| 2026 | 10,955 | \$103,857 | \$9.48 | \$9.07 |
| 2027 | 11,166 | \$83,930 | \$7.52 | \$6.88 |
| 2028 | 11,329 | \$84,042 | \$7.42 | \$6.50 |
| 2029 | 11,605 | \$83,727 | \$7.21 | \$6.05 |
| 2030 | 11,738 | \$66,339 | \$5.65 | \$4.54 |
| 2031 | 11,990 | \$66,519 | \$5.55 | \$4.26 |
| 2032 | 12,206 | \$66,525 | \$5.45 | \$4.00 |
| 2033 | 12,323 | \$66,610 | \$5.41 | \$3.80 |
| 2034 | 12,504 | \$66,207 | \$5.29 | \$3.56 |
| 2035 | 12,751 | \$66,404 | \$5.21 | \$3.35 |
| 2036 | 12,919 | \$66,315 | \$5.13 | \$3.16 |
| 2037 | 13,053 | \$66,627 | \$5.10 | \$3.01 |
| 2038 | 13,326 | \$23,784 | \$1.78 | \$1.01 |
| 2039 | 13,615 | \$23,713 | \$1.74 | \$0.94 |
| 2040 | 13,676 | \$0 | \$0.00 | \$0.00 |
| Total User Fee Credit | | | | \$69.85 |

Table 8
Credit for User Fees Paid Toward Existing – Magna Water District Treatment

| Year | Magna ERUs | Existing Capacity Portion of Loans Paid Through User Fees | Cost Per ERU | Present Value Cost Per ERU |
|------------------------------|------------|---|--------------|----------------------------|
| 2025 | 10,710 | \$589,766 | \$55.07 | \$55.07 |
| 2026 | 10,955 | \$589,145 | \$53.78 | \$51.46 |
| 2027 | 11,166 | \$476,106 | \$42.64 | \$39.04 |
| 2028 | 11,329 | \$476,743 | \$42.08 | \$36.88 |
| 2029 | 11,605 | \$474,959 | \$40.93 | \$34.32 |
| 2030 | 11,738 | \$376,318 | \$32.06 | \$25.73 |
| 2031 | 11,990 | \$377,341 | \$31.47 | \$24.17 |
| 2032 | 12,206 | \$377,373 | \$30.92 | \$22.72 |
| 2033 | 12,323 | \$377,857 | \$30.66 | \$21.56 |
| 2034 | 12,504 | \$375,573 | \$30.04 | \$20.21 |
| 2035 | 12,751 | \$376,686 | \$29.54 | \$19.02 |
| 2036 | 12,919 | \$376,181 | \$29.12 | \$17.94 |
| 2037 | 13,053 | \$377,955 | \$28.95 | \$17.07 |
| 2038 | 13,326 | \$134,921 | \$10.12 | \$5.71 |
| 2039 | 13,615 | \$134,515 | \$9.88 | \$5.33 |
| 2040 | 13,676 | \$0 | \$0.00 | \$0.00 |
| Total User Fee Credit | | | | \$396.24 |

Recommended Impact Fee

The total calculated impact fees are summarized in Table 9. Included in this table is the appropriate user fee credit and corresponding overall fee. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

Table 9
Recommended Per ERU Impact Fee – Magna Water District Service Area

| Maximum Allowable Impact Fee (Per ERU, by year) | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Base Impact Fee (includes study costs) | \$4,970.19 | \$4,970.19 | \$4,970.19 | \$4,970.19 | \$4,970.19 | \$4,970.19 |
| User Fee Credit | \$401.32 | \$340.78 | \$294.86 | \$251.48 | \$211.11 | \$180.85 |
| Total Overall Fee | \$4,568.87 | \$4,629.41 | \$4,675.33 | \$4,718.71 | \$4,759.08 | \$5,151.04 |

As discussed previously, the calculated user fee credit associated with the impact fees will decrease over time. As a result, the allowable impact fee will increase over time as shown in the table. Impact fees beyond 2030 can be calculated by reducing the user fee credit by the amount shown for each successive year in the credit calculation tables.

Calculation of Non-Standard Impact Fees

The calculations above have been based on an ERU. The Impact Fee Enactment should include a provision that allows for calculation of a fee for customers other than typical residential connections. Consistent with the level of service standards established in the Impact Fee Facilities Plan, the following formula may be used to calculate an impact fee for a non-standard user based on the calculated daily indoor water use for an average residential connection¹.

$$\frac{\text{Estimated Indoor Water Use}}{246.7 \text{ gallons per day}} \times \text{Impact Fee per ERU} = \text{Impact Fee}$$

Calculation all non-standard impact fees should be completed by District personnel using the formula above based on information regarding water use as provided for each non-standard use. This approach will be used for all commercial and industrial development.

¹ Based on average domestic wastewater of 222.0 gpd/ERU entering the wastewater collection system and 10 percent consumption, consistent with previous calculations.

ADDITIONAL CONSIDERATIONS - 11-36A-304(2)**MANNER OF FINANCING - 11-36A-304(2)(A-E)**

As part of this Impact Fee Analysis, it is important to consider how each facility has been or will be paid for. Potential infrastructure funding includes a combination of different revenue sources.

User Charges

Because infrastructure must generally be built ahead of growth, there often arises situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be loaned to the impact fee fund to complete initial construction of the project and will be reimbursed later as impact fees are received. Interfund loans should be considered in subsequent accounting of impact fee expenditures.

Special Assessments

Where special assessments exist, the impact fee calculation must take into account funds contributed. No special assessments currently exist in the Magna Water District wastewater system.

Pioneering Agreements

Where pioneering agreements exist, the impact fee calculation must take into account payback requirements under each pioneering agreement. The District currently does not have any pioneering agreements.

Bonds

None of the costs contained in the IFFP included bonding. Where District financial plans identify bonding will be required to finance impact fee eligible improvements, the portion of bond cost and interest expense attributable to future growth has been added to the calculation of the impact fee.

General Taxes

If taxes are used to pay for infrastructure, they should be accounted for in the impact fee calculation. Specifically, any contribution made by property owners through taxes should be credited toward their available capacity in the system. In this case, no taxes are proposed for the construction of infrastructure.

Federal and State Grants and Donations

Impact fees cannot reimburse costs funded or expected to be funded through federal grants and other funds that the District has received for capital improvements without an obligation to repay. Grants and donations are not currently contemplated in this analysis. If grants become available for constructing facilities, impact fees will need to be recalculated and an appropriate credit given. Any existing infrastructure funded through past grants has been removed from the system cost.

DEDICATION OF SYSTEM IMPROVEMENTS - 11-36A-304(2)(F)

Developer exactions are not the same as grants. If a developer constructs a system improvement or dedicates land for a system improvement identified in this IFFP, or dedicates a public facility that is recognized to reduce the need for a system improvement, the developer may be entitled to an appropriate credit against that particular developer's impact fee liability or a proportionate reimbursement.

If the value of the credit is less than the development's impact fee liability, the developer will owe the balance of the liability to the District. If the recognized value of the improvements/land dedicated is more than the development's impact fee liability, the District may be required to reimburse the difference to the developer.

It should be emphasized that the concept of impact fee credits pertains to system level improvements only. Developers will be responsible for the construction of project improvements (i.e. improvements not identified in the impact fee facilities plan) without credit against the impact fee.

EXTRAORDINARY COSTS - 11-36A-304(2)(G)

The Impact Fees Act indicates the analysis should include consideration of any extraordinary costs of servicing newly developed properties. In cases where one area of potential growth may cost significantly more to service than other growth, a separate service area may be warranted. No areas with extraordinary costs have been identified as part of this analysis.

TIME-PRICE DIFFERENTIAL - 11-36A-304(2)(H)

Utah Code allows consideration of time-price differential in order to create fairness for amounts paid at different times. To address time-price differential, this analysis includes a conversion to present value cost for future expenditures. In the case of future construction costs, it has been assumed that the return rate on investment will be roughly equivalent to construction inflation and current construction estimates have been used in the calculation of impact fees. Per the requirements of the Code, existing infrastructure cost is based on actual historical costs without adjustment.

IMPACT FEE CERTIFICATION - 11-36A-306(2)

This impact fee analysis has been prepared in accordance with Utah Code Title 11 Chapter 36a (the "Impact Fees Act"), which prescribes the laws pertaining to the imposition of impact fees in Utah. The accuracy of this report relies upon the planning, engineering, and other source data, which was provided by the City and their designees.

In accordance with Utah Code Annotated, 11-36a-306(2), Bowen Collins & Associates, makes the following certification:

I certify that this impact fee facility plan:

1. Includes only the cost of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
 - a. costs of operation and maintenance of public facilities; or
 - b. cost of qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents;
3. Offsets costs with grants or other alternat sources of payment; and
4. Complies in each relevant respect with the Impact Fees Act.

This certification is made with the following caveats:

1. All of the recommendations for implementations of the Impact Fee Facilities Plan (IFFP) made in the IFFP or in the impact fee analysis are followed in their entirety by the City.
2. If all or a portion of the IFFP or impact fee analysis is modified or amended, this certification is no longer valid.
3. All information provided in the preparation of this IFFP is assumed to be correct, complete and accurate. This includes information provided by the City and outside sources.



Keith J. Larson, P.E.

Get in Touch



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RESOLUTION

2026-01

MAGNA WATER DISTRICT
2026 IMPACT FEE RESOLUTION
RESOLUTION 2026-01

WHEREAS, the Impact Fees Act, Utah Code § 11-36a-101 *et. seq.* (the “**Act**”), outlines the procedures and requirements applicable to any “payment of money imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure,” which is defined in the Act as an “impact fee” (*Id.* § 11-36a-102(9)); and

WHEREAS, the Magna Water District (the “**District**”) desires to comply with applicable requirements of the Act; and

WHEREAS, the District provides retail water and sanitary sewer (wastewater) services to Magna City, portions of West Valley City, and portions of unincorporated Salt Lake County; and

WHEREAS, the District desires to amend its water and wastewater impact fees to meet the additional demand created by continued development within the District; and

WHEREAS, on December 3, 2025, the District provided written notice of its intent to prepare an impact fee facilities plan (the “**Plan**”) and of its intent to prepare an impact fee analysis of the impact fees the District intends to adopt (the “**Analysis**”) to Utah Code §§ 11-36a-501 and -503; and

WHEREAS, new growth and development will be served, in part, by previously constructed/acquired public facilities as identified in the Impact Fee Facilities Plan; and

WHEREAS, Bowen Collins and Associates, a qualified consultant, prepared the Plan and the Analysis and related summaries of each in accordance with the requirements of the Act; and

WHEREAS, the District held a public hearing on February 19, 2026, at 6:00 pm to receive public comment on the proposed Plan and Analysis; and

WHEREAS, on February 5, 2026, the District made copies of the Plan, the Analysis, and this impact fee resolution (“**Resolution**”) available for public inspection at the public libraries located within the boundaries of the District, the District office, on the District’s website, and on the state public notice website in accordance with the Act and Utah Code § 17B-1-111; and

WHEREAS, pursuant to the requirements of the Act, the Trustees of the District desire to establish a service area and adopt this Resolution to establish updated impact fees to be charged by the District; and

WHEREAS, the District expects those wishing to connect to the District's water and sewer systems to pay the amounts mandated by this Resolution, in addition to satisfying other applicable requirements, as a condition to being allowed to connect to the District's system and to receive water and sanitary sewer service from the District.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the District that the District, including subsequently annexed areas, be and is a single service area under Utah Code § 11-36a-102(20)(a) and the updated impact fees adopted by this Resolution shall uniformly be applied throughout the District.

BE IT FURTHER RESOLVED that the new Impact Fee Facilities Plan, to the extent not previously adopted, be and is adopted and approved.

BE IT FURTHER RESOLVED that the cost of both previously constructed or acquired public facilities and future public facilities that will serve new growth and development within the District shall be and are included in the applicable impact fees.

BE IT FURTHER RESOLVED that the District's impact fees (sometimes referred to herein as "**impact fees**" or "**impact fee**") shall be as set forth in **Exhibit "A"** attached hereto and incorporated herein by this reference.

BE IT FURTHER RESOLVED, that the District shall have the right to adjust the standard impact fee that would otherwise be applicable to respond to (i) unusual circumstances in specific cases or (ii) a request for a prompt individualized impact fee review for the development activity of the state, a school district, or a charter school and an offset or credit for a public facility for which an impact fee has been or will be collected; and to ensure that the District's impact fees are imposed fairly. The impact fee may be adjusted, under appropriate circumstances, based upon studies and data submitted by the developer. Any adjustment may be either upward or downward, depending upon the circumstances and equities.

BE IT FURTHER RESOLVED, that a developer, including a school district or a charter school, may receive a credit against or a proportionate reimbursement of an impact fee if the developer: (i) dedicates land for a system improvement; (ii) builds and dedicates some or all of a system improvement; or (iii) dedicates a public facility that the District and the developer agree will reduce the need for a system improvement. Furthermore, a credit against impact fees is required for any dedication of land for, improvement to, or new construction of, any system improvement (as defined in the Act) provided by the developer if the facility (i) is a system improvement; or (ii) is both dedicated to the public and offsets the need for an identified system improvement. Otherwise, no credit will be allowed to a developer for improvements provided by the developer. Should the credit exceed the impact fee that would otherwise be paid by the

developer, the District and the developer may enter into a written contract specifying how and when the reimbursement will be paid to the developer.

BE IT FURTHER RESOLVED that a developer and the District, acting through its Board of Trustees, may by contract agree to impact fees other than those set forth in or calculated in accordance with this Resolution.

BE IT FURTHER RESOLVED that the impact fees set forth in and established by this Resolution shall be and are in addition to other fees, charges and/or exactions lawfully imposed by the District.

BE IT FURTHER RESOLVED that, unless the District is otherwise bound by a contractual requirement, the applicable facilities impact fee shall be determined from the applicable fee schedule and /or formula in effect at the time of payment and shall not be determined at the time a request for an estimate is received by the District. There shall be no guarantee that any quoted impact fee, either oral or in writing, will be in effect when the developer or other person actually makes the impact fee payment.

BE IT FURTHER RESOLVED that, should the ultimate density of any development activity exceed the density upon which the impact fees were based and/or should the impact fees not initially be charged against all units or the total density within a development, the District may charge additional impact fees to the developer or other appropriate person covering the density for which an impact fee was not previously paid, including buildings and lots which have already been connected, directly or indirectly, to the District's system.

BE IT FURTHER RESOLVED that all or part of any impact fee may be waived or reduced (an “**exemption**”) for those developments which are deemed to serve a broad public purpose that would be harmed by the District requiring full payment of applicable impact fees, such as low income housing projects, as determined by the District Board of Trustees. Such waivers shall be handled in accordance with the provisions of the Act and any Impact Fee Policy established by the District. In the event of any such waiver or impact fee exemption, the revenue shortfall to the District may be made up from any other available revenue source, including loans and operating revenues (including property taxes) provided, however, that it will not be necessary for the District to establish any source of funds, other than impact fees, to pay for low income housing development activity, as provided in Utah Code § 11-36a-403(1). Should the District elect to allow an impact fee exemption for development activity attributable to a school district or a charter school, either a school district or a charter school shall qualify for the exemption on the same basis.

BE IT FURTHER RESOLVED, that all resolutions, policies, procedures, impact fees, rules and regulations, and other actions by the District Board, or parts thereof, in conflict with this Resolution and/or the attached Exhibit are, to the extent of such conflict, hereby repealed provided, however, that the District's previously adopted impact fees, whether in the form of a formula, a schedule, or any other form or format, shall not be repealed or modified until the new impact fees take effect as provided immediately below in this Resolution.

BE IT FURTHER RESOLVED, that Chapter 10 (“**Impact Fee Policy**”) and Addendum N (“**Fee Schedule**”) of the District’s Administrative Rules and Regulations Manual be revised and updated within 90 days from the date of this Resolution to incorporate the terms of this Resolution and the Impact Fees set forth in Exhibit A hereto.

BE IT FURTHER RESOLVED, in accordance with Utah Code § 11-36a-401(2), that this Resolution shall take effect immediately upon its passage, with the new impact fees to take effect 90 days thereafter.

Passed by the Board of Trustees of the Magna Water District this February 19, 2026.

Mick Sudbury, Chair

Attest:

LeIsle Fitzgerald, Board Clerk

VOTING

Daniel Stewart _____

Mick Subbury _____

Jeffery White _____

**EXHIBIT “A”
Schedule of Impact Fees**

Sewer Impact Fee, per ERU

| Calendar Year | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Total Overall Fee | \$4,568.00 | \$4,629.00 | \$4,675.00 | \$4,718.00 | \$4,759.00 | \$5,151.00 |

Water Impact Fee, per ERU

| Calendar Year | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Total Overall Fee | \$7,912.00 | \$8,011.00 | \$8,093.00 | \$8,169.00 | \$8,239.00 | \$8,296.00 |

Appendix A (continued)

Single Family Residential

Water ERUs for single family residential units and duplexes:

ERU Adjustments by Lot Size and Landscape Type

| Lot Size | Maximum Culinary Meter Size | Maximum Secondary Meter Size | Indoor Use (ERUs) | Outdoor Use (ERUs) | Outdoor Use with Approved Landscape Plan (ERUs) |
|-------------|-----------------------------|------------------------------|-------------------|--------------------|---|
| 0 - 0.14 | 5/8" | 3/4" | 0.46 | 0.33 | 0.20 |
| 0.14 - 0.30 | 5/8" | 1" | 0.46 | 0.54 | 0.42 |
| 0.30 - 0.60 | 5/8" | 1" | 0.46 | 1.12 | 0.90 |
| >0.60 | 5/8" | * | 0.425 | * | * |

*Determined by District Engineer. Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

**Where secondary service is not available, culinary meter may be increased at the District Engineers discretion to account for outdoor use.

Multi-Unit Residential

Water ERUs for multi-unit residential developments:

| Unit Size | Definition | Indoor Use (ERUs) | Outdoor Use (ERUs)* |
|-----------------|---|-------------------|---------------------------------|
| Small | Multi-family units meeting <u>all</u> of the following criteria: ≤ 1 bedroom, ≤ 1 bathroom, ≤ 1,000 SF | 0.28 per unit | Determined by District Engineer |
| All Other Units | Multi-family units with <u>any</u> of the following: >1 bed, >1 bath, >1,000 SF | 0.46 per unit | Determined by District Engineer |

* Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

Non-Residential

Water ERUs for non-residential developments shall be determined by the greater of the following:

- (a) Calculate the number of ERUs based on the annual average daily demand (in gpd) of the proposed development divided by 582 gpd.

Secondary Water Use

For commercial developments with a separate secondary meter for outdoor use, add the following for outdoor use to the value calculated for culinary ERUs: Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

Non-Residential

Sewer ERUs for non-residential developments:

ERU is to be determined by the District Engineer’s estimated water use tables for similar developments. The District Engineer may adjust the estimate as necessary to be appropriate for the proposed development. An ERU is determined by the estimated indoor water use divided by 231.6 gpd per unit.

Appendix A (continued)

Single Family Residential

Water ERUs for single family residential units and duplexes:

ERU Adjustments by Lot Size and Landscape Type

| Lot Size | Maximum Culinary Meter Size | Maximum Secondary Meter Size | Indoor Use (ERUs) | Outdoor Use (ERUs) | Outdoor Use with Approved Landscape Plan (ERUs) |
|-------------|-----------------------------|------------------------------|-------------------|--------------------|---|
| 0 - 0.14 | 5/8" | 3/4" | 0.46 | 0.33 | 0.20 |
| 0.14 - 0.30 | 5/8" | 1" | 0.46 | 0.54 | 0.42 |
| 0.30 - 0.60 | 5/8" | 1" | 0.46 | 1.12 | 0.90 |
| >0.60 | 5/8" | * | 0.425 | * | * |

*Determined by District Engineer. Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

**Where secondary service is not available, culinary meter may be increased at the District Engineers discretion to account for outdoor use.

Multi-Unit Residential

Water ERUs for multi-unit residential developments:

| Unit Size | Definition | Indoor Use (ERUs) | Outdoor Use (ERUs)* |
|-----------------|---|-------------------|---------------------------------|
| Small | Multi-family units meeting <u>all</u> of the following criteria: ≤ 1 bedroom, ≤ 1 bathroom, ≤ 1,000 SF | 0.28 per unit | Determined by District Engineer |
| All Other Units | Multi-family units with <u>any</u> of the following: >1 bed, >1 bath, >1,000 SF | 0.46 per unit | Determined by District Engineer |

* Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

Non-Residential

Water ERUs for non-residential developments shall be determined by the greater of the following:

- (a) Calculate the number of ERUs based on the annual average daily demand (in gpd) of the proposed development divided by 582 gpd.

Secondary Water Use

For commercial developments with a separate secondary meter for outdoor use, add the following for outdoor use to the value calculated for culinary ERUs: Grass = 5.05 ERUs/acre, Grass/Shrub Mix = 3.84 ERUs/acre, Waterwise = 2.02 ERUs/acre (no grass)

Non-Residential

Sewer ERUs for non-residential developments:

ERU is to be determined by the District Engineer’s estimated water use tables for similar developments. The District Engineer may adjust the estimate as necessary to be appropriate for the proposed development. An ERU is determined by the estimated indoor water use divided by 231.6 gpd per unit.

