

Table 3-10 Projected Water Demand

| Zone | Attribute | Existing ⁽¹⁾ | 6-year ⁽²⁾ | 20-year ⁽²⁾ | Ultimate ⁽³⁾ |
|-----------------------------------|--------------------------|-------------------------|-----------------------|------------------------|-------------------------|
| Zone 1 (main zone) | ERUs | 2,911 | 3,032 | 3,178 | 6,232 |
| | Annual (MG) | 323 | 336 | 353 | 751 |
| | ADD (gpm) | 615 | 640 | 671 | 1,428 |
| | MDD (gpm) ⁽⁴⁾ | 1,444 | 1,504 | 1,577 | 3,071 |
| | PHD (gpm) ⁽⁵⁾ | 2,440 | 2,536 | 2,652 | 5,042 |
| Zone 2 (existing Ski Hill) | ERUs | 70 | 170 | 403 | 923 |
| | Annual (MG) | 8 | 19 | 45 | 111 |
| | ADD (gpm) | 15 | 36 | 85 | 212 |
| | MDD (gpm) ⁽⁴⁾ | 35 | 84 | 200 | 455 |
| | PHD (gpm) ⁽⁵⁾ | 117 | 224 | 440 | 856 |
| Zone 3 (future upper Ski Hill) | ERUs | - | - | 145 | 545 |
| | Annual (MG) | - | - | 16 | 66 |
| | ADD (gpm) | - | - | 31 | 125 |
| | MDD (gpm) ⁽⁴⁾ | - | - | 72 | 269 |
| | PHD (gpm) ⁽⁵⁾ | - | - | 199 | 559 |
| Zone 4 (future top Ski Hill) | ERUs | - | - | 58 | 152 |
| | Annual (MG) | - | - | 6 | 18 |
| | ADD (gpm) | - | - | 12 | 35 |
| | MDD (gpm) ⁽⁴⁾ | - | - | 29 | 75 |
| | PHD (gpm) ⁽⁵⁾ | - | - | 102 | 205 |
| Total System | ERUs | 2,981 | 3,202 | 3,784 | 7,852 |
| | Annual (MG) | 332 | 355 | 420 | 946 |
| | ADD (gpm) | 632 | 676 | 799 | 1,799 |
| | MDD (gpm) ⁽⁴⁾ | 1,488 | 1,589 | 1,877 | 3,868 |
| | PHD (gpm) ⁽⁵⁾ | 2,510 | 2,671 | 3,133 | 6,661 |

⁽¹⁾ Refer to **Section 3.1.4** for source of existing demand figures.

⁽²⁾ Refer to **Section 3.2.2** for 6-year and 20-year growth percentages.

⁽³⁾ Refer to discussion in **Section 3.2.2** on ultimate demands; also refer to the City's Water Distribution System and Sewer Collection System Master Plan for calculation of UGA and UGA expansion area demands.

⁽⁴⁾ Existing, 6-year, and 20-year reflect an ADD:MDD peaking factor of 2.35; also see note 3.

⁽⁵⁾ Existing, 6-year and 20-year PHD calculated using Equation 5-1 from the 2009 DOH WSDM; also see note 3.

3.3 Topography

The City's water system currently consists of two pressure zones. The UGA encompasses a large portion of the Ski Hill area to the north of downtown. The Ski Hill area spans approximately 200 vertical feet. The planning data in preceding Sections includes two additional pressure zones which will provide service to the area of land not serviceable by the City's existing pressure zones. Please refer to **Figure 2** for system topography and approximate pressure zone boundary contours.