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Kittitas County CDS

WATER SYSTEM PLAN

Snoqualmie Pass Utility District

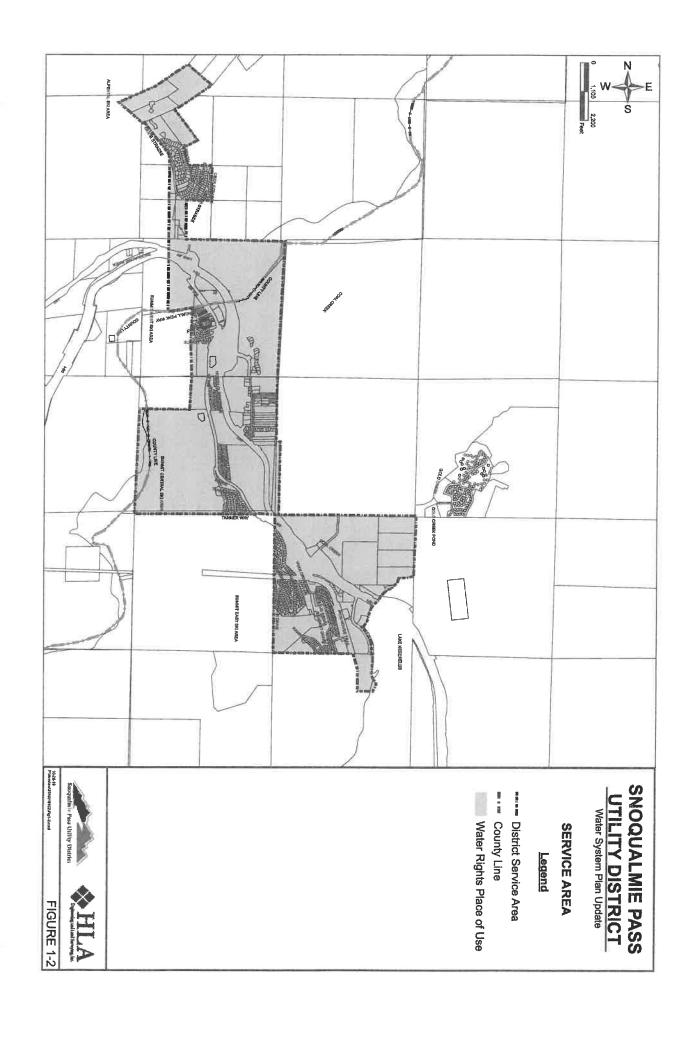






**HIA Engineering and Land Surveying, Inc.

DRAFT PROJECT NO. 19162E





2.4.1 Future ERUs and ADD

The projected number of water system services, ERUs, and ADD, are calculated from the water services by user category as shown in Table 2-5, and the average 2017 through 2019 demand per service for each user category, provided in Table 2-12.

The calculated future number of services, ERUs, and projected ADD for years 2027, 2032, and 2042 are presented in Table 2-13, Table 2-14, and Table 2-15 respectively. These projections are based on the number of customers doubling in approximately 20 years which equates to a 3.5% annual increase. This is below percentages during recent years which showed an increase in residential connection of 6.3% over the last 3 years, and 4.8% over the last 5 years. The projections used in this plan use a 5% increase through 2027, followed by a 3.5% increase through 2032, and a 3% increase until 2042 at which time the full 20-year projection of available development will be nearly complete.

User Category	No. of Services	ERUs/Service	ADD/Service (gallons)	Total ERUs	Total ADD (gallons)
Single-Family Residential	810	1.00	54.9	810	44,469
MF Residential	13	13.42	736.4	174	9,573
Hotel/Motel (Recreational)	1	116.73	6,405.2	117	6,405
Commercial	48	15.77	865.3	757	41,534
Government	8	0.93	51.3	7	410
Ski Clubs	7	3.42	187.6	24	1,313
Snowmaking	2	60.32	3,309.9	121	6,620
Hydrants	5	35.22	1,932.5	176	9,662
Total Residential	823			984	54,042
Total Non-Residential	71			1,202	65,946
TOTAL	894			2,186	119,988
TOTAL without Snowmaking	892			2,066	113.368





User Category	No. of Services	ERUs/Service	ADD/Service (gallons)	Total ERUs	Total ADD (gailons)
Single-Family Residential	960	1.00	54.9	960	52,704
MF Residential	15	13.42	736.4	201	11,046
Hotel/Motel (Recreational)	2	116.73	6,405.2	233	12,810
Commercial	57	15.77	865.3	899	49,322
Government	9	0.93	51.3	8	462
Ski Clubs	8	3.42	187.6	27	1,501
Snowmaking	2	60.32	3,309.9	121	6,620
Hydrants	6	35.22	1,932.5	211	11,595
Total Residential	975			1,161	63,750
Total Non-Residential	84			1,500	82,310
Subtotal	1,059			2,661	146,060
10% Contingency	106			266	14,606
TOTAL	1,165			2,927	160,666
TOTAL without Snowmaking	1,163			2,806	154,046

User Category	No. of Services	ERUs/Service	ADD/Service (gallons)	Total ERUs	Total ADD (gallons)
Single-Family Residential	1,305	1.00	54.9	1,305	71,645
MF Residential	20	13.42	736.4	268	14,728
Hotel/Motel (Recreational)	2	116.73	6,405.2	233	12,810
Commercial	78	15.77	865.3	1,230	67,493
Government	12	0.93	51.3	11	616
Ski Clubs	11	3.42	187.6	38	2,064
Snowmaking	3	60.32	3,309.9	181	9,930
Hydrants	9	35.22	1,932.5	317	17,392
Total Residential	1,325			1,573	86,373
Total Non-Residential	115			2,011	110,304
Subtotal	1,440			3,584	196,677
10% Contingency	144			358	19,668
TOTAL	1,584			3,942	216,345
TOTAL without Snowmaking	1,581	(A 10 20 000)		3,761	206,415



