

Updated City of Kelowna Capacity Limit Adjustment Charge Calculation

July, 2025

Purpose-

To determine water demand increases that triggers a water capacity limit adjustment charge to the city of Kelowna, and the associated fee.

Data-

Projected Maximum demands =

58 Litres Per Second (LPS) Average Day Demand (ADD) & 116LPS Maximum Day Demand (MDD)

	% Demand Split	Ultimate MDD	Existing MDD	Remaining MDD
City of Kelowna	46%	53	28	25
Okanagan Indian Band	54%	63	32	31
TOTAL		116	60	56

* Table values are in Litres Per Second and values from the original agreement

Demands

OKIB Residential Growth Multiplier

1 SFE = \$11,862

1 SFE = 1,971m³/year MDD (Kelowna SDDS bylaw 1,800LCPD @ 3ppl/unit) = 0.0625LPS

1 LPS MDD growth = 16 SFE

**CoK Industrial
Growth Multiplier**

Industrial = \$40.16/m²

CoK developable area per hectare = 70% = 7,000m²

Cost per hectare = \$40.16/m² x 7,000m² = \$281,120 per Hectare

Flow per hectare (MDD) = 1,800LCPD x 50pp/hectare (DLC SDDS bylaw) = 90,000 litres / day-hectare
= 1.042 L/S-Hectare

Calculations-

Growth charge per LPS (MDD)

1 LPS growth OKIB residential = 16 SFE x \$11,862 = \$189,792 per LPS

1 LPS growth CoK Industrial = \$281,120 per Hectare ÷ 1.042 L/S-Hectare = \$269,789 per LPS

Growth charge per LPS Blended

OKIB = 54% per LPS = \$189,792 x 54% = \$102,488 per LPS (MDD)

CoK = 46% per LPS = \$269,789 x 46% = \$124,103 per LPS (MDD)

Combined = \$102,487 + \$124,103 = \$226,590 per LPS (MDD)

Capacity Limit Adjustment Charge

Increments MDD (LPS)	Demand Increase MDD (LPS)	Capacity Charge
32.36		
40	7.64	\$1,731,148
50	10	\$2,265,900
60	10	\$2,265,900
70	10	\$2,265,900
80	10	\$2,265,900
84	4	\$1,731,148
Total	56	\$12,525,895

*\$226,590 per LPS MDD

- End of 2024, CoK purchased an additional 4.36 LPS MDD capacity increasing reserved capacity of their industrial area 32.36 LPS
- 32 LPS MDD of demand will be reserved for the existing OKIB residents.
- Demand increases calculations using ADD shall be a 2:1 MDD to ADD ratio
- Charges are based on updated District of Lake Country water DCC fees