

Staff

Thank you to the Staff for another safe year!

 Congratulations to Mike Snair for obtaining the Level II Water Distribution System Operator! K.I.D. now has two fully qualified operators.

2011 Rate Increase

The trustees have authorized a 1.9% increase to KID water rates for 2011

- Base rate for ¼ acre is now \$356.45
- Naramata is \$755 plus Blackwell cost.
- OK Falls is \$375.

• Due to conservation efforts in 2010 there were some noticeable reductions in consumption. In July, 3 million gallons were conserved. However there were a few issues that needed to be addressed.

 The trustees have adjusted the water conservation resolution as follows:

- Stage One: (in effect until further notice irrigation season April 15th until October 15th)
- No daytime watering of natural or planted landscaped areas from 9:00 A.M. to 7:00 P.M.
- However, use of micro-irrigation, drip irrigation or a hose with a shut-off nozzle (hand water) to water trees, shrubs or vegetables is permitted on any day, at any time.
- Automatic underground irrigation systems operating from midnight to 6:00 A.M. ONLY.

- Stage Two: (as deemed necessary by Trustees)
- In addition to Stage One:
- House addresses ending in 0, 2, 4, 6 or 8, water only Sunday, Tuesday and Friday
- House addresses ending in 1, 3, 5, 7 or 9, water only Saturday, Monday and Thursday
- Agricultural properties with a district irrigation connection and flow restrictor and growing a viable crop are exempt. (The property must meet Provincial guidelines for "farm status" designation)
- No watering allowed on Wednesday

 Stage Three: (as deemed necessary by Trustees)

No watering allowed.

10 Year Capital Plan

- Kaleden Irrigation District engaged TRUE Consulting to prepare our new 10 year capital plan.
- A recommendation from the plan is to install water meters. This cost is projected to be \$700 per household and studies have show up to 20% reduction in water usage when meters are installed.
- Another section of the 10 year capital plan is 4-3-2-1.
 0 compliance planning.

IHA 4-3-2-1-0 Guidelines

- IHA has mandated that all water purveyors must meet the 4-3-2-1-0 guidelines.
- K.I.D. will not be moving forward on any of these plans until:
- a) trustees have thoroughly evaluated each of the options,
- b) mandated to by IHA and
- c) ratepayers of KID have approved the project and the funding. Improvement Districts are not eligible for infrastructure grants at this time.

IHA 4-3-2-1-0 Guidelines

There are several options outlined in the consultants report.

 These options run from \$2 million for a well water system to \$12.2 million for a full scale filtration plant.

Here is a brief rundown of the options:

The various options assessed in this report to bring the Kaleden Irrigation District's water system into compliance with the new IHA 43210 Treatment Objectives, along with the associated costs of each, are summarized below:

Option	Capital Cost	Comments
Conversion to Groundwater (Upper Aquifer)	\$1,815,000 to \$2,440,000	Provides no guarantee that capacity can be achieved.
Conversion to Groundwater (Lower Aquifer)	\$1,643,750	Provides no guarantee that subsurface water is suitable.
Full-Scale Filtration	\$12,200,000	High capital, operating and maintenance costs.
Twin Domestic System	\$7,370,000	High pavement and restoration costs due to the fact that pipes must be buried with minimum 1.5m cover.
Twin Irrigation System	\$6,050,000	Will require more maintenance than the domestic twinning due to oversized pipes and stagnant water issues.
Partial Twinning	\$7,350,000	Complex to operate and maintain.
Filtration Deferral UV treatment only	\$2,000,000	Provides no guarantee that full-scale filtration will not be subsequently required anyways. Recent trends in Skaha Lake Water Quality has declined significantly in 2010.

IHA 4-3-2-1-0 Guidelines

- TRUE Consulting have recommended the ground water option is worth exploring.
- We have had another algae bloom in Skaha Lake this winter that caused taste and odour concerns. There was a previous bloom in the winter of 2009.
- The groundwater option <u>may</u> take care of the taste/odour from the algae bloom.

