

Turner Valley Raw Water Reservoir Monitoring Program

PROGRAM RESULTS SUMMARY

- Monitoring Program began summer 2007. This program includes Groundwater, Supply Wells and Reservoir (stored water) monitoring.
- Includes 19 groundwater monitoring wells, two groundwater interceptors, two stored water reservoir cells, and three town supply wells.
- Results to date do not indicate any significant risk to the potable water system.
- No substantiated health-based exceedances in the supply wells.
- No health-based exceedances in the actual stored water in reservoir.
- Field permeability test of clay liner indicates fastest seepage time through liner exceeds 13 months under expected operational conditions.
- Handful of isolated exceedances in the groundwater monitoring wells around reservoir since start-up.
 - Remedial Action Plan triggered 4 times to date (2 of these incidents appear due to lab errors).
 - Hydrocarbon tests for BTEX, F1 and F2 between August 2007 and November 2010 total 1,737 individual parameter tests - all but *three* are recorded as “non-detect” (99.8%). *Two* were well below criteria and *one* was above - suspected as lab transcribing error.
 - Outcome represents no significant risk to the public.
- Groundwater Hydrogeologist recommends reduction in frequency of Monitoring Program.

