

Small Drinking Water Systems

Presentation to
Community and Health Services Committee
(Risk Categorization of Small Drinking Water Systems
Memorandum)

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February 8, 2012

Transfer of small drinking water systems to Ministry of Health and Long-Term Care

Timeline

- ❑ 2000 - Walkerton Tragedy
- ❑ 2002 - Justice O'Connor Inquiry
- ❑ 2004 - Public/Stakeholder Consultation
 - Advisory Council Recommendation
- ❑ 2008 - Transfer from MOE to MOHLTC

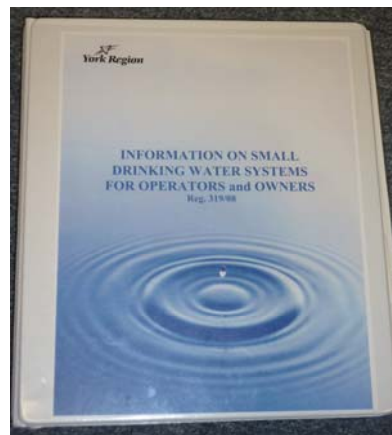
Small Drinking Water System

- ❑ Not serviced by municipal water
- ❑ Public has access
 - ❑ Gas station
 - ❑ Campground
 - ❑ Arena
 - ❑ Community Hall



Public Outreach

- ❑ 2008 - Mailed MOHLTC packages
- ❑ 2009 - Hand delivered information binders



Site Specific Risk Assessment

Determining Risk

- ❑ Identify Risks
- ❑ Recommendations
- ❑ Calculate overall risk
 - ❑ High, Moderate, Low



Site Specific Risk Assessment

- ❑ Source Water
- ❑ Sample History
- ❑ Treatment/Distribution
- ❑ Operations
- ❑ Users



Multiple factors are considered before determining risk level

Risk Categorization

Risk Assessment - Source

Well Construction Details

4(i) Do you have a well log or water well record for this well?

E

☐ Yes ☒ No

Suggest that owner and operator obtain well log or water well record from MOE or well contractor

4(ii) Which of the following best describes the construction of this well?

E

☒ Drilled (without a pit)

☐ Drilled (within a pit)

☐ Excavated (dug)

☐ Driven (sand-point)

☐ Bored

Groundwater Security Assessment

Criterion A

Risk Assessment Matrix

3 Risk Categories

High RED
Significant level of risk

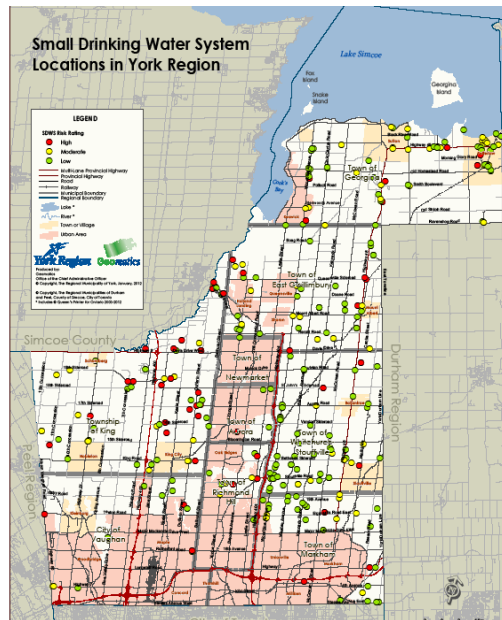
Medium YELLOW
Moderate level of risk

Low GREEN
Negligible level of risk

		Grade for Source and Treatment Criteria			
		A	B	C	D
Grade for Distribution Criteria	a				
	b		✓		
	c				
	d				

Source/Treatment + Distribution factors = RISK LEVEL

SDWS across York Region



Slide 9

Reassessment of Premise

Changing the Risk Level

- ❑ Sampling History
- ❑ Treatment/Storage
- ❑ Distribution
- ❑ Operations



High Risk Premises – Example for Change

ABC Community Centre

- | | |
|---|--|
| <ul style="list-style-type: none">☐ Drilled well☐ No sample history☐ No treatment☐ No operator training☐ Public access | <ul style="list-style-type: none">☐ Drilled well☐ 1 year sample history☐ UV light treatment☐ Operator training☐ Public access |
|---|--|

High Risk Premises – No Change

- ☐ Unsecure surface source
- ☐ Treatment
- ☐ Operator training
- ☐ Complexity of system
- ☐ Public access



Premises in York Region

Municipality	Low	Moderate	High
Aurora	3	0	1
East Gwillimbury	26	15	7
Georgina	39	29	8
King	26	15	22
Markham	20	7	3
Newmarket	0	0	0
Richmond Hill	4	3	3
Vaughan	8	5	3
Whitchurch-Stouffville	51	8	3
Total	177	82	50

Note:

Total systems 309.
One system has
been deemed non-
SDWS since
January 18 2012.

Approximately 80% of systems are low /moderate risk



Next Steps

- ❑ Commence Inspections
 - ❑ High every two years
 - ❑ Moderate & Low every four years
- ❑ Requests for Reassessments
 - ❑ Over 20 requests to date

Reassessments allow an opportunity for reduction in risk level



Thank you

Questions?