

Attachment 3: TRCA's Flood Infrastructure State of Repair and Risk Ranking

Table 1

Dams							
Dam Name	Consequence Rating Score¹	Probability of Failure/Structure Condition – Normal Conditions²	Risk Rating - Normal Condition³	Probability of Failure – Extreme Flood Conditions⁴	Risk Rating – Extreme Flood Conditions⁵	Probability of Failure – Extreme Seismic Condition⁶	Risk Rating – Extreme Seismic Condition⁷
G. Ross Lord Dam	5	1	5	2	10	1	5
Claireville Dam	5	1	5	3	15	2	10
Stouffville Dam	5	2	10	3	15	2	10
Milne Dam	5	2	10	4	20	2	10
Palgrave Dam	5	3	15	5	25	2	10
Black Creek Dam	2	1	2	1	2	1	2
Secord Dam	2	4	8	5	10	3	10
Osler Dam	2	5	10	5	10	5	10
Glen Haffy Dam West	1	2	3	3	3	3	3
Glen Haffy Dam East	1	2	3	3	3	3	3
Glen Haffy Extension Upper Dam	2	5	10	5	10	5	10
Glen Haffy Extension Lower Dam	2	5	10	5	10	5	10

1. Consequence Rating Score – expected damage should the dam fail based on risk to life, property and the environment. See Table 2 in the report.
2. Probability of Failure/Structure Condition Score – based the dam's ability to withstand typical floods and normal loading conditions. See Table 1 in the report.
3. Risk Rating – Normal Conditions. This is the Consequence Rating Score multiplied by the Probability of Failure/Structure Condition Score. See Table 3 in the report.
4. Probability of Failure – Extreme Flood Conditions. This is based on the dam's ability to safely pass extreme floods.
5. Risk Rating – Extreme Floods. This is the Consequence Rating Score multiplied by Probability of Failure score. See Table 3 in the report.
6. Probability of Failure – Extreme Seismic Condition. The is based on the dam's ability to withstand an extreme earthquake.
7. Risk Rating – Extreme Seismic Event. This is the Consequence Rating Score multiplied by the Probability of Failure score. See Table 3 in the report.

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Table 2

Flood Control Channels			
Channel Name	Consequence Rating Score ¹	Probability of Failure/Structure Condition – Normal Conditions ²	Risk Rating - Normal Condition ³
Yonge/York Mills Channel	4	1	4
Woodbridge Channel	3	1	3
Stouffville Channel	3	4	12
Black Creek Channel	4	1	4
Scarlett Channel	4	1	4
Brampton Channel	4	1	4
Sheppard Channel	3	2	6
Mimico Malton Channel	4	1	4
Oak Ridges Channel	4	1	4

1. Consequence Rating Score – expected damage should the channel fail based on risk to life, property and the environment. See Table 2 in the report.
2. Probability of Failure/Structure Condition Score – based the channel's ability to withstand typical floods and normal loading conditions. See Table 1 in the report.
3. Risk Rating – Normal Conditions. This is the Consequence Rating Score multiplied by the Probability of Failure/Structure Condition Score. See Table 3 in the report.

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Table 3

Dikes			
Dike Name	Consequence Rating Score¹	Probability of Failure/Structure Condition – Normal Conditions²	Risk Rating - Normal Condition³
Pickering Dike	4	4	16
Ajax Dike	4	4	16
Bolton Dike	4	1	4
Etobicoke Dike	4	1	4
West Don Flood Protection Landform	5	1	5
Tyndall Flood Wall	3	1	3

1. Consequence Rating Score – expected damage should the dike fail based on risk to life, property, and the environment. See Table 2 in the report.
2. Probability of Failure/Structure Condition Score – based the dike's ability to withstand typical floods and normal loading conditions. See Table 1 in the report.
3. Risk Rating – Normal Conditions. This is the Consequence Rating Score multiplied by the Probability of Failure/Structure Condition Score. See Table 3 in the report.