

Table 1: Hydrogeological Assessment Check List intended to Support Development Applications

Groundwater Assessment	Master Environmental Servicing Plan or Equivalent	Environmental Assessment (EA)	Site Plan Commercial, Institutional, or Industrial	Subdivision or Condominium Development		Single lot Residential	Dewatering
				Municipal Servicing	Private Servicing		
1. EXISTING CONDITIONS:							
Introduction and background	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Site location and description	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Description of: <ul style="list-style-type: none"> • Topography & Drainage • Physiography • Geology & Soils 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Test pits/Boreholes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
Monitoring Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
Private Well Survey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
Hydrostratigraphy/Hydrogeology: <ul style="list-style-type: none"> • Aquifer properties • Groundwater Levels • Groundwater flow direction 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Description of surface water features and functions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Water Taking Permit details	GNR	GNR	GNR	GNR	GNR	GNR	<input checked="" type="checkbox"/>
Water Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
D-5-5 (Water Supply)	GNR	GNR	GNR	GNR	<input type="checkbox"/>	GNR	GNR

Notes:
[1] not applicable

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2. IMPACT ASSESSMENT:							
Groundwater Levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
Pumping Tests*	<input type="checkbox"/>	<input type="checkbox"/>	GNR	GNR	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/> ²
Groundwater Discharge (Baseflow)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ³	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
Water Balance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ³	<input type="checkbox"/>	GNR	GNR
Groundwater Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/>
D-5-4 (Onsite Sewage Systems)	GNR	GNR	GNR	GNR	<input type="checkbox"/>	GNR	GNR
3. MITIGATION MEASURES:							
Maintenance of Infiltration/Recharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ³	<input type="checkbox"/>	GNR	GNR
Maintenance Groundwater Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ⁴	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/> ⁴
Monitoring Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ¹	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/> ¹
Contingency Plans**	GNR	GNR	GNR	<input checked="" type="checkbox"/> ¹	<input type="checkbox"/>	GNR	<input checked="" type="checkbox"/> ¹

NOTES: This table outlines the type of planning application and associated requirements most commonly required by Conservation Authorities in the review of Hydrogeological Assessments. This table is not a complete list of all types of applications dealt with by each Conservation Authority nor is the checklist appropriate for every development situation. Individual Conservation Authorities should be consulted with for specific requirements.

- Recommended

GNR – Generally Not Required

* Where development is municipally serviced, these tests will be necessary on a case by case basis (sensitive aquifer/ aquatic considerations).

**May be scoped, Contingency Plans will not be needed in most cases.

Notes:

[1] not applicable

[2] slug tests were completed in lieu

[3] to be completed as part of stormwater management report

[4] address through impact assesment.