## APPENDIX D: EXAMPLE GARP DETERMINATION FIELD FORM

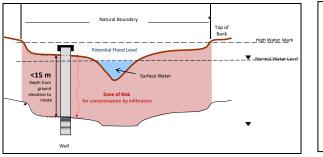
The following is an example of what a field form might look like for the purposes of the Stage 1 screening and assessment. Actual fields for data collection may vary according to the needs of the health authority office.

WATER SYSTEM NAME:	
Well Log: Examined Attached NA Site Sanitary Survey Conducted	Verbal / Measured
LATitude:	
Well Depth feet or metres below ground or unknown   Water Level in Well feet or metres below ground or unknown   Well Casing Diameter: inches or mm or unknown	

Well Location Sketch	
WELL H12345 90 90 7 m Restaurant Trout Creek Road	
Sketch the well location and proximity to roads, buildings, waterways, sources of contamination, etc. Distances may be estimated in feet or metres or paced off.	

## Stage 1: Hazard Screening and Assessment

HAZARDS Water Supply System Well	SCREENING		ASSESSMENT		
	NOT PRESENT	PRESENT (Complete Assessment)	AT RISK (Water source potentially GARP)	AT LOW RISK	NOTES
A. Water Quality Results	-	-	-	-	
A1: Exhibits recurring presence of total coliform bacteria, fecal coliform bacteria, fecal coliform bacteria, or <i>Escherichia coli</i> ( <i>E. coli</i> ).					
A2: Has reported intermittent turbidity or has a history of consistent turbidity greater than 1 NTU.					
B. Well Location					
B1: Situated inside setback distances from possible sources of contamination as per section 8 of the HHR.					
B2: Has an intake depth <15 m below ground surface that is located within a natural boundary of surface water or a flood prone area. (Fig 1)					
B3: Has an intake depth between the high-water mark and surface water bottom (or < 15 m below the normal water level), and located within, or less than 150 m from the natural boundary of any surface water. (Fig 2)					
B4: Located within 300 m of a source of probable enteric viral contamination without a barrier to viral transport.					
C. Well Construction					
C1: Does not meet GWPR (Part 3 Div. 3) for surface sealing.					
C2: Does not meet GWPR (Part 4) and WSA (section 54) for well caps and covers					
C3: Does not meet GWPR (section 63) and DWPA (Section 16) for floodproofing.					
C4: Does not meet GWPR (Part 3 and Part 7) for wellhead protection.					
D. Aquifer Type and Setting					
D1: Has an intake depth <15 m below ground surface.					
D2: Is situated in a highly vulnerable, unconfined, unconsolidated or fractured bedrock aquifer.					
D3: Is completed in a karst bedrock aquifer, regardless of depth.					



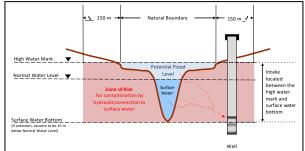


Figure 1: Hazard B2, Flood Risk

Figure 2: Hazard B3, Connection to Surface Water

## Stage 2: GARP Determination

At Risk (GARP)	At Risk (GARP-viruses only)	At Low Risk
		/

- If "at risk" the water supplier should undertake one or more mitigation measures (see optionsbelow).
- If "at risk" because information is unavailable or inconclusive for any hazards in the checklist, consider moving to Level 2 or 3 investigation.
- If "at low risk", indicate only "Move to Stage 4: Long-term Monitoring" below.

## Stage 3: Risk Mitigation

Recommended options:

- Treatment to meet provincial drinking water objectives
- **D** Treatment to meet only the provincial drinking water objectives for viruses
- □ Provide alternate source of water
- □ Well Alteration / correct significant deficiencies in well construction.<sup>17</sup>
- Relocate the well
- □ Eliminate source(s) of contamination
- Level 2 or 3 investigation
- □ Move to Stage 4 Long-term Monitoring
- Other

Comments:

Completed by:

DATE:

<sup>17</sup> Deficiencies in well construction related to the Ground Water Protection Regulation must be addressed.