

2017

## COMMUNITY OF VICTORIA/VICTORIA WATER & SEWAGE COMMISSION

### WELL FIELD PROTECTION PLAN

The Community's well field protection plan covered the area noted on the well field protection map which is attached and forms part of the documentation.

The well field protection map shows the areas that are needed to be protected. It is divided into three sections: Zone A (250 days); Zone B (5 years); and Zone C (25 years).

The Victoria Water & Sewage Commission (utility) and the Community (municipality) have taken the following steps to protect the zones around our three wells:

The protections include the following:

#### Zone A (250 days)

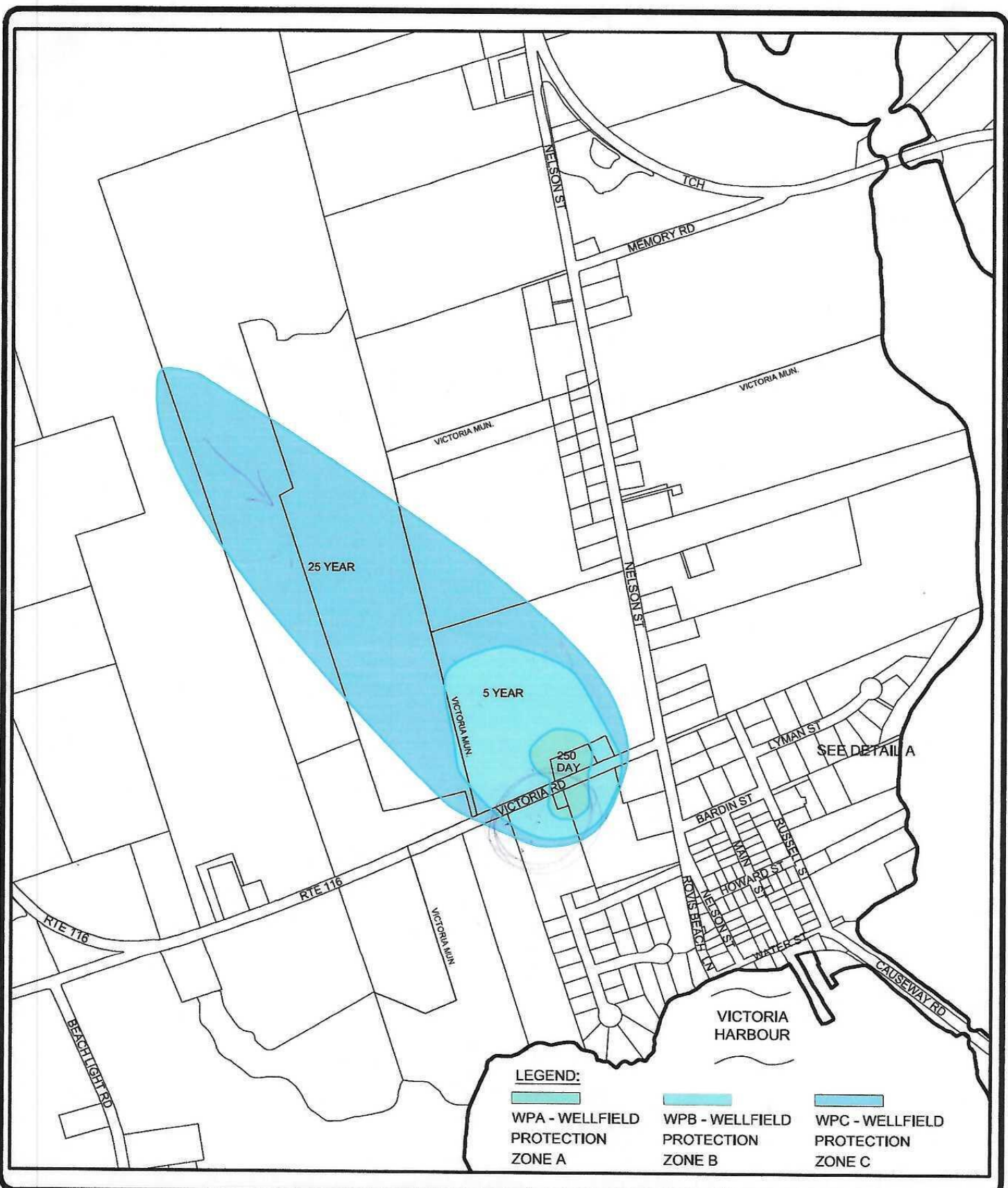
- All buildings within this zone (the Old School and one private residence) are hooked up to central sewage and central water.
- The Old tank at the Old School has been removed and this building will no longer be heated by oil (alternative energy being used for this building – heat pumps and solar panels).
- The two old wells within this zone have been located and filled in.
- The ditches close to the wells have been filled in and culverts installed eliminating any stagnant water close to the wells.

#### Zone B (5 years)

- The surrounding field to the north of the well field is agricultural but it is no longer used for animal pasture. It is crop covered all year round (grain and hay).
- The surround field to the north of the well field is zoned "agricultural" under the Community's Zoning & Subdivision Control Bylaw and stated under the Bylaw is that any new intensive livestock operations would have to adhere to the standards as set out in the PEI Department of Agriculture's "Manure Management and Separation Guidelines".

#### Zone C (25 years)

- All properties within Zones A, B & C have central water and sewage services.



**LEGEND:**

- |   |   |   |
|---|---|---|
|  |  |  |
| WPA - WELLFIELD PROTECTION ZONE A   | WPB - WELLFIELD PROTECTION ZONE B   | WPC - WELLFIELD PROTECTION ZONE C   |

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Project Title  
**COMMUNITY OF VICTORIA**

Title  
**WELLFIELD PROTECTION MAP**

Date Printed: 30-01-12	Drawn by: DAF
Job No. 11-02	Plan No. W1
Scale: nts	

**SECTION #19 – WELLFIELD PROTECTION ZONES**

**19.1 GENERAL**

Where Wellfield Protection Zones are designated as an overlay zone to an existing zone, the special provisions as outlined in this Section shall apply in addition to the standards and restrictions which apply to the underlying zone.

The three Wellfield Protection Zones, WPA, WPB and WPC shall be as depicted on the Official Zoning Map, Appendix “A”.

**19.2 DEVELOPMENT**

1. Within the boundaries of any Wellfield Protection Zone, Council may require that all development shall proceed pursuant to a Development Agreement.
  
2. Where a lot or a portion of a lot falls within the boundaries of a Wellfield Protection Zone, Council may determine the conditions to be attached to any development permit and shall give consideration to the Table below (Wellfield Protection Zone – Land Use Activities Management) and any other matters which in the opinion of Council could present a risk to the Town’s groundwater resources. The three protection zones boundaries are depicted in Appendix A, the Official Zoning Map.

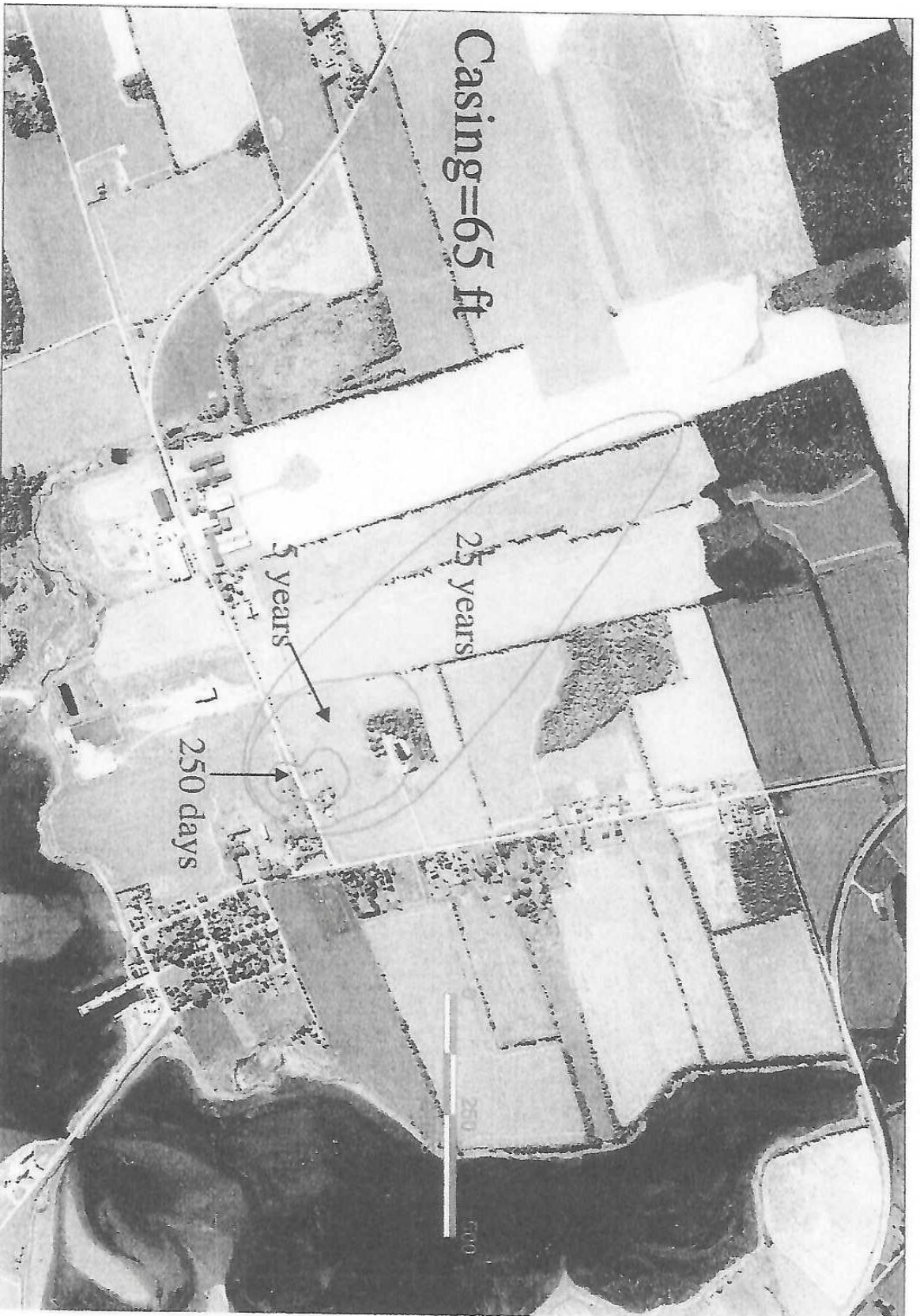
<b>Land Use Activity</b>	<b>Wellfield Protection Zone A (WPA) (250 day)</b>	<b>Wellfield Protection Zone B (WPB) (5 year)</b>	<b>Wellfield Protection Zone C (WPC) (25 years)</b>
Livestock operation	Pasturing of animals at existing operations permitted with controls on animal densities.	Pasturing of animals at existing operations permitted with controls on animal densities.	Pasturing of animals at existing operations permitted with controls on animal densities.
Fertilizer (including manure application)	Not permitted.	Application allowed according to an approved nutrient management plan.	Application allowed according to an approved nutrient management plan.
Manure storage	No new storage permitted. Existing	Storage permitted if it is stored in a clay-	Storage permitted if it is stored in a clay-lined pit,

*Filling - new wells*

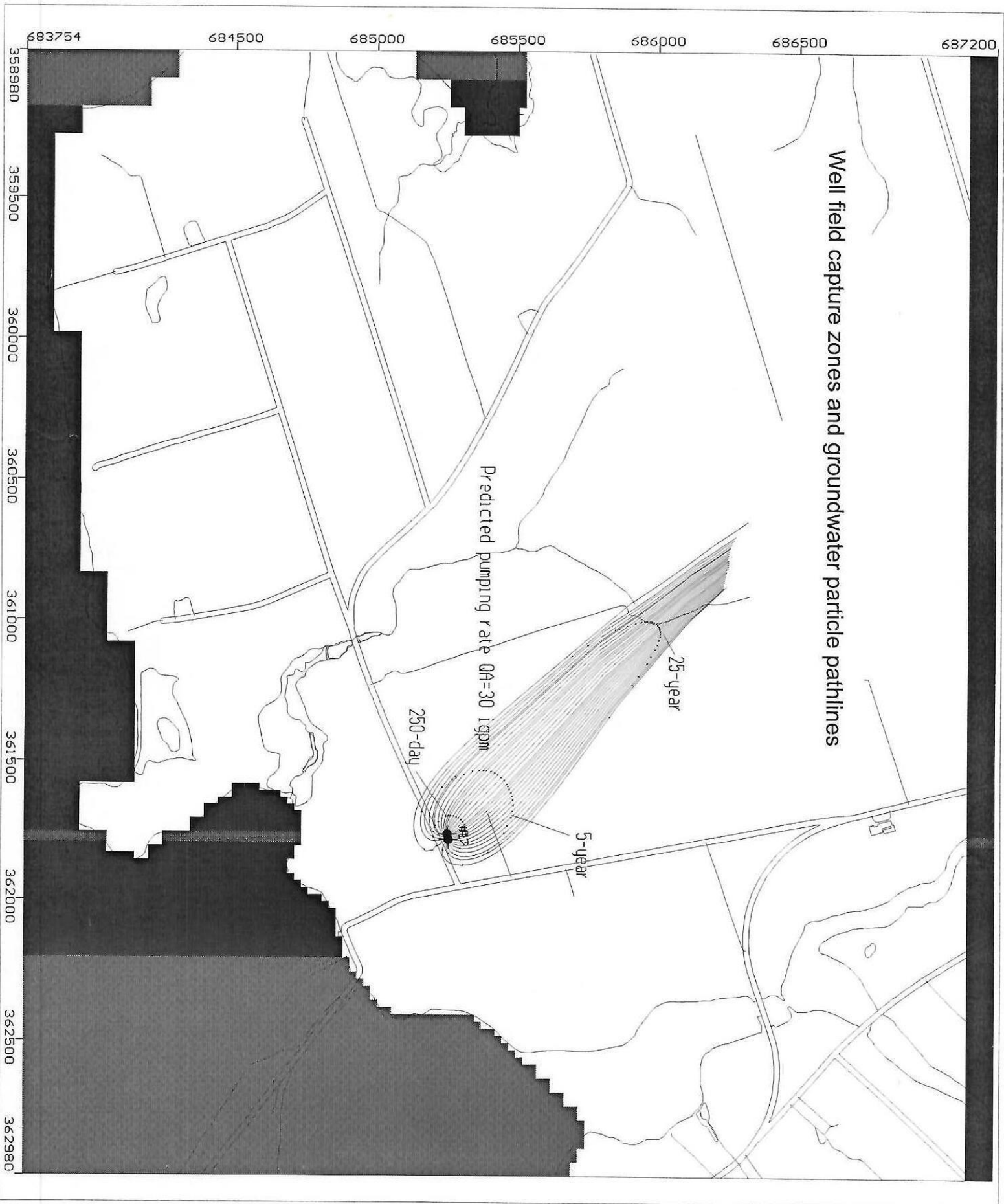
	storage operations not to increase in volume and to be upgraded to current standards.	lined pit, a steel or concrete structure, or some other government approved containment system.	a steel or concrete structure, or some other government approved containment system.
Manure disposal	Not permitted.	Not permitted.	Not permitted.
Pesticide storage	Not permitted.	Storage allowed in a contained area of up to 15 kg or a total volume of 15L. whichever is less.	Storage allowed in a contained area up to 50 kg or a total volume of 50L. whichever is less.
Pesticide application	Not permitted.	Application allowed as part of an IPM approach. Restrictions on use of some products. Permits may be required.	Application allowed as part of an IPM approach. Restrictions on use of some products. Permits may be required.
<b>Non-Agricultural Land Uses</b>			
New residential development	Single family unit development allowed with provisions including but not limited to: must be fully serviced for water and wastewater, must not use oil heat, and must meet all municipal development criteria.  No multiple dwelling units allowed.	Single family unit and multiple unit dwellings allowed with provisions, including but not limited to: must be fully serviced for water and wastewater, and must meet all municipal development standards.	Single family unit and multiple unit dwellings allowed with provisions including but not limited to: must meet all municipal development criteria.
New commercial development	No new development.	Development allowed at the discretion of Council with provisions including but not limited to: must be fully serviced for waer and wastewater, must include a storm water	Development allowed at the discretion of Council with provisions including but not limited to: must include a storm water management plan, all wastes must be disposed of outside of the wellfield protection zones, and

		recommended amounts and concentrations provided that pesticide containers are disposed of outside of the wellfield protection zones.	and concentrations provided that pesticide containers are disposed of outside of the wellfield protection zones.
Fertilizer storage and application	Can do routine gardening and lawn maintenance, including composting for residential purposes.	<p>Storage of up to 75kg in total weight or 75L in total volume, whichever is less, allowed in a contained area.</p> <p>Can apply lawn fertilizer (other than animal manure) between April 1 and October 31, at a rate not exceeding 75kg in total weight or 75L in total volume, whichever is less, per hectare per year.</p> <p>Can store fertilizers (other than animal manure) up to 75kg in total weight or 75L in total volume, whichever is less.</p> <p>Can apply packaged, manufactured, or processed compost products that do not contain pathogens.</p>	<p>Storage of up to 75kg in total weight or 75L in total volume, whichever is less, allowed in a contained area.</p> <p>Can apply lawn fertilizer (other than animal manure) between April 1 and October 31, at a rate not exceeding 75kg in total weight or 75L in total volume, whichever is less, per hectare per year.</p> <p>Can store fertilizers (other than animal manure) up to 75kg in total weight or 75L in total volume, whichever is less.</p> <p>Can apply packaged, manufactured, or processed compost products that do not contain pathogens.</p>
Recreational activities	Allowed with provisions as determined by Council.	Allowed	Allowed
Bulk salt storage	Not permitted	Not permitted	Not permitted

# Well field captured zones, Victoria



QA=30 igpm (10 igpm for each of the three wells)



# Proposed well field protection zones of Victoria, PEI

*Sewerworks  
PEI*

