



A WATER SUPPLY SYSTEM

Water System Name: **PARKSVILLE, WWS**
Premises Number: 1310814

Premises Address: 1116 Herring Gull Way
Parksville, BC
V9P 2H3

Water System Owner: City of Parksville

City of Parksville is hereby permitted to operate the above potable water supply system and is required to operate this system in accordance with the Drinking Water Protection Act and in accordance with the conditions set out in this operating permit and conditions established as part of any construction permit.

The water supply system for which this operating permit applies is generally described as:

Service Delivery Area: Parksville, BC
Source Water: Multiple Deep Wells. (Springwood & Railway).
Englishman River from May to October.
Water Treatment methods are: None
Water Disinfection methods are: Sodium hypochlorite for wells. Gas chlorine for
Englishman River.

Number of Connections 301-10,000 Connections - DWT

Operating conditions specific to this water supply system are in Appendix A.

Date: July 1, 1992

Issued By: 
Environmental Health Officer

Health Protection and Environmental Services

Parksville	(250) 248-2044	Fax: (250) 248-8624	Port Alberni	(250) 724-1281	Fax: (250) 724-4376
Nanaimo	(250) 755-6215	Fax: (250) 755-3372	Courtenay	(250) 334-5450	Fax: (250) 334-5466

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APPENDIX A

**WATER SYSTEM OPERATING CONDITIONS FOR
PARKSVILLE, WWS
1116 Herring Gull Way
Parksville, BC, V9P 2H3**

1. Compliance with Operating Permit Terms and Conditions do not relieve the operator of other legislated responsibilities and obligations.
2. Water system operators must be familiar with the relevant legislation such as:
The *Drinking Water Protection Act*, ([SBC 2001] Chapter 9)
The *Drinking Water Protection Regulation* (B.C. Reg. 200/2003 O.C. 508/2003).
3. The operator must ensure that the water system is in compliance with any and all lawful direction of the Drinking Water Officer. This includes any correspondence to further explain or alter the above operating terms and conditions. Proposed changes to the operating permit initiated by the Drinking Water Officer will allow an opportunity for input by the water supplier as per section 8 of the Act.

The specific terms and conditions are listed below as:

Condition 1.

The water system owner shall provide a residual level of disinfectant within the water distribution system. It is recommended that the level of residual disinfectant measured at any point within the distribution system be at least 0.20 mg/L, measured as *free* chlorine.

The maximum residual disinfectant concentration, measure as *free* chlorine shall not exceed 4.0 mg/L, or as combined chlorine shall not exceed 3.0 mg/L, anywhere in the distribution system. This does not apply in situations where watermains are being superchlorinated during their installation, repair or routine maintenance.

Condition 2.

Conduct a chemical analysis of raw water from each well in accordance with the list of parameters specified in the VIHA Guidelines for Approval of a Waterworks System at a frequency of no less than once every **5 years**.

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Condition 3.

Develop and implement a wellhead protection plan to ensure that the drinking water source is protected in to the future. The wellhead protection plan should establish management strategies to avoid contamination of, or activities, which may degrade the quality of the drinking water source. The details of the wellhead protection plan and timing of the implementation of the program shall be established in consultation with the local Environmental Health Officer.

The wellhead protection plan should be based on the publication "Well Protection Tool Kit", Ministry of Environment, Lands and Parks, Ministry of Health and Ministry of Municipal Affairs; Issued by: Water Stewardship Division. ISBN 0-7726-5566-9.
http://www.env.gov.bc.ca/wsd/plan_protect_sustain/groundwater/wells/well_protection/wellprotect.html

Condition 4.

Develop and implement a Cross-Connection Control Program. The details of the cross-connection program and timing of implementation of the program shall be established in consultation with the local Environmental Health Officer.

Condition 5.

Provide continuous on-line turbidity monitoring of raw water for the Englishman River during drawing periods (May through October as applicable) and ensure the Emergency Response Plan includes appropriate action for turbidity events as detailed in the "*Decision Tree for Responding to a Turbidity Event in Unfiltered Drinking Water*".

Condition 6.

In accordance with VIHA 4321 treatment policy for the Englishman River water source, provide finished water quality using technology that will achieve the following performance standard; a 4-log removal/inactivation of viruses, a 3-log removal/inactivation of Giardia cysts and Cryptosporidium oocysts, provide two treatment processes and produce finished water with less than 1 NTU turbidity.

In consultation with, and in reference to the City of Parksville letter dated February 4, 2009 (Your file 5600-10-AWS), the City of Parksville is required to meet the following implementation plan:

May, 2009: Obtain the services of a professional engineering firm to develop a conceptual plan and preliminary design for a water intake and treatment facility.

November, 2010: Conceptual plan and preliminary design is completed.

December, 2013: Detailed design of the new intake and treatment facility is completed.

January, 2015: Construction for the water intake and treatment facility commences with completion scheduled for December 31, 2016.

Date:

April 24, 2009

B. W. Weir