

DATE: March 29, 2019

FILE: 5600-05/CVWS

TO: Chair and Directors
Comox Valley Water Committee

FROM: Russell Dyson
Chief Administrative Officer

Supported by Russell Dyson
Chief Administrative Officer

R. Dyson

RE: Water Main Leak under Puntledge River - Update

Purpose

To provide an update on the leak repair of a water transmission main within the Comox Valley Water System (CVWS).

Recommendation from the Chief Administrative Officer:

THAT as part of the emergency repair of the water main under the Puntledge River, Stage Four water use restrictions be implemented for the duration of the repair.

Executive Summary

Since the staff report titled *Water Main Leak under Puntledge River - Update* and dated February 19, 2019, the following progress has been made on the repair of the leak on the 900mm diameter steel pipeline that runs directly from the chlorination station under the Puntledge River:

- Development of a construction plan for the preferred replacement solution has primarily been completed, with collaboration from consultants, specialists and contractors in its development.
- Design and fabrication of all the parts and pieces necessary.
- All the necessary tree clearing has been completed, prior to nesting season, to avoid delays due to nesting birds.
- Repair work will begin April 12 and is estimated to take ten days, until April 22. Work will include isolating, draining, cutting, welding and assembling the valves and spool pieces to reinstate the water main.
- The pre-welding procedure and testing has been completed.

Throughout the course of the repair, the watermain will be out of service, this means that the CVWS will be relying entirely on a single 300mm water main line to supply water to the majority of the CVWS (approximately 25,000 people) in East Courtenay, Comox and Regional District Water Local Service Areas. Due to a number of factors (listed below), Comox Valley Regional District (CVRD) operational officers are recommending to implement Stage Four water restrictions (Appendix B page 13) for the duration of the repair.

- Due to a delay in fabrication and delivery of the valves, repair of the leak has been pushed to mid-April, resulting in work being completed in the spring when consumption is typically higher.
- Once construction begins, this single 300mm water main line is the only source of water for the majority of the system with zero redundancy.
- Even a small consumption increase due to warm weather, a watermain break, or any other unforeseen increased flow will result in the system not being able to meet fire flow demands.

- Using the single 300mm water main line, the system is just meeting the needs of water demands, with recovery occurring at night. Historical water demand through April 12 to April 22 is higher than current demand.
- Stage Four restrictions need to be implemented in order to manage water demand and ensure fire flows can be met.
- Stage Four restrictions are serious and designed for this specific circumstance, where risk to the public and property could occur and drastic reduction of water must occur to limit this risk.
- The Stage Four restrictions must be system wide, increased demand in West Courtenay would still impact the ability to supply the East side of the service.

As per the Comox Valley water conservation bylaw, implementation of Stage Four water restrictions requires approval from the Comox Valley Water Committee, termination of Stage Four water restrictions would be made by the CVRD’s operational officers, upon completion of the repair. Attached as Appendix A to this report is the proposed communications plan.

Prepared by:

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Stakeholder Distribution (Upon Agenda Publication)

None.	
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Attachments: Appendix A – “Communications Plan”
Appendix B – “Comox Valley Water Conservation Bylaw No. 129, 2010”

Subject: Stage Four Water Restriction Implementation

File: 19-000010

Purpose

To outline methods of communication around the emergency water main repair resulting in a temporary Stage 4 water restriction that will affect residents connected to the Comox Valley Water System.

Target audiences:

- Residents connected to the Comox Valley Water System
- Businesses connected to the Comox Valley Water System
 - Local businesses dependent on outdoor water use
- Local municipalities
- CVRD staff
- CVRD Board of Directors, Water Committee

Spokesperson:

- Marc Rutten, General Manager of Engineering Services Branch

Project Background:

- The CVRD is requiring users of the Comox Valley Water System to go on Stage 4 water restrictions for the duration on an emergency water main repair April 12-22, 2019.
- A significant leak was detected in the 900mm steel transmission water main which runs under the Puntledge River. This is one of the primary and largest transmission mains for the Comox Valley Water System.
 - During the repairs, the water system to East Courtenay and Comox will be solely reliant on the smaller secondary line.
 - As the secondary line is unable to handle peak volumes of water for the entire system, temporary Stage 4 water restrictions are required for the duration of the repair.
- By requiring users to follow Stage 4 restriction guidelines, it is expected that water use can be reduced enough to allow the emergency repair to be conducted on the water main, while maintaining water flows to meet the needs for firefighting and domestic water use.

Communication Objectives

1. Inform residents they will be on Stage 4 water restrictions for the duration of the repair.
2. Educate residents on Stage 4 restriction requirements including date and time changes.
3. Inform residents on the emergency water main repairs that require the Stage 4 restrictions.
4. Inform and support local businesses who depend on outdoor water use.
5. Manage the response from residents and businesses regarding this emergency repair in a positive, proactive manner.

Guiding Principles:

- Communications included in all project team meetings and in key project-related discussions.
- Project to have budget sufficient to cover communications strategies.

Situation Analysis:

Opportunities:

- This is a chance to educate residents on extreme condition water restrictions and why they are required.
- Users will be informed that this emergency restriction is to ensure the health and safety of the community, maintaining water flows for domestic and firefighting use throughout the repairs.
- By completing the work as early as possible, the CVRD is avoiding conducting water main repairs later in the season, when water use reaches an even higher demand.

Threats:

- Some residents are slow to adopt water restriction requirements and do not understand the purpose or need for them given the misperception of abundant Comox Lake water.
 - Many residents within the affected communities currently do not follow restrictions and water whenever they feel necessary.
- Businesses that heavily depend on outdoor water use may be dramatically impacted for the duration of the repair.

Budget: Funding allocated as required under the emergency procurement policies

Communications Strategy/Tactics:

Elements	Description	IAP2 Spectrum
Web Content	Develop web content	INFORM
Press Release and Briefing Note	Develop briefing note and press release, distribute to staff, board, and water stakeholders	INFORM
Business Awareness Strategy	List developed of businesses most impacted by water restrictions, including car washes, nurseries and greenhouses, irrigators	INFORM
	Info cards provided directly to businesses, and inquiries from businesses managed separately from those of residents, to support their specific needs	
	Design and print info cards	INFORM
Advertising Strategy	Half page Stage 4 ad to run in the Record	INFORM
	Radio ads run on the Goat and the Eagle	INFORM
	Facebook ad campaign	INFORM
	Water restriction road signs, and digital signs updated	INFORM
	Website emergency banner	INFORM
	Connect Rocket emergency notification system to users of water system	INFORM

Approval History

Created by: L. Fraser	March 28, 2019
Approved by:	M. Herschmiller

The following is a consolidated copy of the Comox Valley water conservation bylaw and includes the following bylaws:

Bylaw No.	Bylaw Name	Adopted	Purpose
129	Comox Valley Water Conservation Bylaw 2010	May 25, 2010	To regulate water use in the Comox Valley water system
219	Comox Valley Water Conservation Bylaw 2010, Amendment No. 1	May 29, 2012	To change the effective date of stage 2 and its restrictions
430	Comox Valley Water Conservation Bylaw 2010, Amendment No. 3	May 31, 2016	To refine and improve regulatory language for all water restrictions and to provide for extreme drought weather conditions requiring a stage 4 water supply restriction program
463	Comox Valley Water Conservation Bylaw 2010, Amendment No. 4	July 25, 2017	To incorporate the Sandwick water service into this bylaw, following the Sandwick Waterworks District conversion and subsequent connection to the Comox Valley water supply system
479	Comox Valley Water Conservation Bylaw 2010, Amendment No. 5	September 19, 2017	To implement effective dates and restrictions for stage 1 and 2 water supply restriction program

This bylaw may not be complete due to pending updates or revisions and therefore is provided for reference purposes only. Titles and whereas clauses may be different than in original bylaws to make this consolidated version more clear and identify historical changes and conditions. Some sub-section references have been updated to reflect amending bylaw language. THIS BYLAW SHOULD NOT BE USED FOR ANY LEGAL PURPOSES. Please contact the corporate legislative officer at the Comox Valley Regional District to view the complete bylaw when required.

COMOX VALLEY REGIONAL DISTRICT

BYLAW NO. 129

A bylaw to regulate water use in the Comox Valley water system

WHEREAS the Comox Valley Regional District (CVRD) provides a service of water supply pursuant to Bylaw No. 1783 being “Water Local Service Establishment Bylaw, 1995” within the following participating municipalities and electoral areas:

- The Corporation of the City of Courtenay;
- The Town of Comox;
- Baynes Sound (Electoral Area ‘A’);
- Lazo North (Electoral Area ‘B’); and
- Puntledge – Black Creek (Electoral Area ‘C’);

AND WHEREAS under section 796.2 of the *Local Government Act* a regional district may regulate in relation to a service;

AND WHEREAS under section 796.2 of the *Local Government Act* a regional government has authority to regulate water use even though a participating municipality is responsible for water distribution within that municipality;

NOW THEREFORE the board of the Comox Valley Regional District in open meeting assembled enacts as follows:

Definitions

1. In this bylaw, unless the context otherwise requires, the following definitions shall apply:

All-weather playing field means a publicly accessible planted sports field;

Appliance means a device or mechanism, other than that owned and operated by the municipality or regional district, in or through which water is piped or used for a domestic or commercial purpose;

Board means the board of the Comox Valley Regional District;

Boat means a vessel propelled on water by an engine, oars, or sails;

Boulevard means that portion of any highway other than the paved, improved or main traveled roadway, driveway or sidewalk and includes any landscaped median;

Bylaw compliance officer means a person appointed or contracted by the board or a council of the municipality to enforce this bylaw;

Comox Valley water committee means the committee established by Comox Valley Regional District Bylaw No. 1783 being “Water Local Service Establishment Bylaw, 1995”;

Electoral area service areas means those portions of Electoral Areas A, B, and C that are within the service areas created by:

- Bylaw No. 1453 being “Marsden/Camco Water Local Service Area Conversion and Establishment Bylaw, 1992”;
- Bylaw No. 1494 being “Greaves Crescent Water Local Service Area Establishment By-law, 1993”;
- Bylaw No. 1678 being “Arden Water Local Service Area Conversion and Establishment Bylaw, 1994”;

- Bylaw No. 1886 being “Comox Valley Water Local Service Establishment (Conversion) Bylaw No. 1886, 1996”;
- Bylaw No. 1999 being “England Road Water Local Service Area Establishment Bylaw No. 1999, 1998”; and
- Conversion under Order in Council 921 (approved and ordered December 7, 2016) of the Sandwick WaterWorks District to the Comox Valley Regional District Sandwick water service;

Exempted person means an owner or occupier of property identified in schedule ‘A’ as exempt from one or more of the regulations under this bylaw;

Farm means one or more parcels of land classified as farmland for assessment and taxation purposes;

General manager means any one of the officers of the CVRD, the senior manager of water/wastewater services or the manager of water services;

Local Government means the City of Courtenay, Town of Comox and the Comox Valley Regional District.

Micro-irrigation or drip-irrigation system means a system using irrigation components which consume less than 91 litres (20 gallons) per hour and operate at less than 172 kilopascal (25 pounds per square inch) to deliver water to the root zone of the plant material being irrigated, and includes spray emitter systems (micro-sprays), point source emitters, and linear tape systems as defined in the BC Trickle Irrigation Manual prepared and published by the BC Ministry of Agriculture and Food, Resource Management Branch (issue 1999), but does not include weeper or soaker hoses;

Municipality means the Corporation of the City of Courtenay (Courtenay) and the Town of Comox (Comox);

Notice means a notice given under section 6 of this bylaw;

Nursery means a business in which flowers, plants, trees, or shrubs are grown or displayed for sale;

Operational officers means a group of persons comprised of one (1) of each of the following:

- (a) the chief administrative officer, general manager of engineering services, or senior manager of water/wastewater services of the CVRD;
- (b) the chief administrative officer or a senior operational staff member of the Corporation of the City of Courtenay; and
- (c) the chief administrative officer or a senior operational staff member of the Town of Comox;

Occupier has the same meaning as in the *Community Charter*;

Over-watering means to water in a manner that saturates the lawn, boulevard, or landscaped area being watered and results in water spreading onto areas beyond them;

Owner has the same meaning as in the *Community Charter*;

Permit means a permit issued under section 9(1) of this bylaw;

CVRD means the Comox Valley Regional District;

Restricted hours means those time periods during which watering is permitted in schedule ‘A’ of this bylaw;

Sprinkler means a hose connected or other sprinkler system but excludes a micro-irrigation or drip-irrigation system;

Stage means stages 1, 2, and 3, or 4 of the water use restrictions prescribed in schedule 'A' of this bylaw;

Vehicle means a device in, on, or by which a person or thing is or may be transported or drawn on a highway;

Water means water supplied by the CVRD directly or indirectly to an owner or occupier or the act of using or applying such water;

Water use restrictions means the restrictions prescribed in schedule 'A' of this bylaw; and

Watering days means those days during which watering is permitted in schedule 'A' of this bylaw.

Application

2. The restrictions and regulations in this bylaw are applicable in each municipality and the electoral area service areas.

Prohibitions

3.
 - (1) The prohibitions in subsections (2), (3) and (4) are in force at all times of the year.
 - (2) No person shall damage or allow the deterioration of any appliance so as to result in an increase in water use.
 - (3) No person shall waste water by using more water than is required to provide a service, produce a product, or complete a task, including but not limited to allowing a tap or hose to run water unnecessarily and over-watering plants or lawns.
 - (4) No person shall apply water intended for irrigation to an impervious surface such as a street, parking lot, sidewalk or driveway.
 - (5) No person, being an owner or occupier of property in the municipality or in an electoral area service area, shall use water or cause water to be used contrary to the restrictions in effect at the time pursuant to schedule 'A' of this bylaw.

Inspection

4. The general manager or a bylaw compliance officer has the authority to enter at all reasonable times on any property that is subject to this bylaw to ascertain whether the requirements of this bylaw are being met or the regulations in this bylaw are being observed.

Effective Dates of Stages and Restrictions

5.
 - (1) Stage 1 and the water use restrictions for stage 1 prescribed in schedule 'A' are in effect May 1 of the year, except as provided under subsection (3).
 - (2) The operational officers, by written determination and based on the determination factors specified in section 7, may
 - (a) Amend the effective period of time for stages 1, 2 or 3 water use restrictions, or
 - (b) Terminate or bring into effect water use restrictions up to and including stage 3 at any time of the year for any period of time.
 - (3)
 - (i) The Comox Valley water committee, at a regular, special or emergency meeting may bring into effect stage 4 water use restrictions.

- (ii) The operational officers, by written determination and based on the determination factors specified in section 7, may terminate stage 4 water restrictions.
- (4) In the event of system failure which limits the delivery of water at normal volumes, the chief administrative officer or general manager of the CVRD may implement water restrictions as necessary to maintain the water system without consultation with the participating municipalities.
- (5) The stage determined under section 7 and the water use restrictions prescribed under schedule 'A' for that stage take effect on the commencement date stated in the notice for that stage and remain in effect until that stage is terminated.
- (6) A stage will remain in effect until it is terminated under this bylaw or until the commencement of another stage.

Notice

- 6. (1) An operational officer of the CVRD must give notice or cause notice to be given to persons within the municipality or electoral area service areas of the applicable stage determined under section 5 and its effective dates of commencement and termination.
- (2) The notice under subsection (1) must be given at least once
 - (a) Before the commencement of a more restrictive stage
- (3) The notice under this section must be published in a newspaper and broadcast from a radio station. The notice may also be broadcast from a television station or cable television channel serving the CVRD and posted on the CVRD web site.
- (4) In the event of the commencement of a more restrictive stage due to system failure as described under section 5(5), notices will be given immediately to senior operational staff members of the municipalities and as required to other persons in consideration of the expected duration of the event.

Determination Factors

- 7. (1) In making a determination under section 5(3) or 5(4)(ii), the operational officers may consider:
 - (a) Forecasts of water inflow to the Comox Lake watershed provided by BC Hydro;
 - (b) Water levels in Comox Lake and projected water usage requirements of BC Hydro and Fisheries and Oceans Canada;
 - (c) BC Hydro scheduled and emergency maintenance with respect to the operation of the penstock and powerhouse which would affect the capacity of the penstock supply source;
 - (d) Operational restrictions on system capacity with respect to the usage of the standby water pumping station on the Puntledge River;
 - (e) The need to reduce peak demands on the water system, and
 - (f) Operational factors which limits the ability to supply normal water capacity.
- (2) In making a determination under section 5(4)(i), the Comox Valley water committee may consider the factors referred to in section 7(1) and any other relevant information.

Water Use Restrictions

8. The water use restrictions for each stage are prescribed in schedule 'A' to this bylaw and must be obeyed during the period that the applicable stage is in effect under this bylaw.

Permits, Exemptions, and Special Cases

9. (1) The CVRD and the municipalities (as agents of the CVRD) may issue permits for the installation of a new lawn in the special cases and manner prescribed in schedule 'B'.
- (2) Exemptions and special cases to the regulations in this bylaw are prescribed in schedule 'A'.
- (3) Exempted persons and permit holders are exempted from section 3 to the extent permitted by schedule 'A' and the conditions of the permit where applicable.

Schedules

10. Schedules 'A' and 'B' of this bylaw form part of and are enforceable in the same manner as this bylaw.

Penalty

11. (1) Any person who contravenes a provision in this bylaw, or who suffers or permits any act or thing to be done in contravention of this bylaw, or who refuses, omits, or neglects to fulfill, observe, carry out or perform any duty or obligation imposed in this bylaw is guilty of an offence and:
- (a) on summary conviction is liable to a fine of not less than \$100 and subject to the maximum fines under the *Local Government Act* and the *Offence Act*; or
- (b) on conviction of a ticket offence under the ticketing bylaw, is liable for the fine imposed under that bylaw.
- (2) In the case of a continuing violation, each day that a violation continues to occur shall constitute a separate offence.

Liability

12. Nothing in this bylaw shall be interpreted as imposing any duty on the local governments to provide a continuous supply of water to any person or premises and it is a condition of supply of water that the local governments are not liable for any injury, damage, or loss, including economic loss, to any person or property:
- (a) Arising or occurring from the use of water from the system;
- (b) Resulting from a failure of water supply to any consumer; or
- (c) Resulting from any impurity, lack of pressure, increased supply pressure, or other condition affecting water supplied by the system.

Severability

13. If any provision of this bylaw is held to be invalid by a court, the provision may be severed from this bylaw and such invalidity does not affect the validity of the remaining portions of this bylaw.

Repeal

14. Bylaw No. 2867 being "Comox Valley Water Conservation Bylaw 2006" and all amendments thereto are hereby repealed.

Bylaw citation and effective date

15. This Bylaw No. 129 may be cited for all purposes as "Comox Valley Water Conservation Bylaw 2010" and takes effect on the date adopted.

SCHEDULE 'A'**OUTDOOR WATER USE RESTRICTION STAGES****STAGE 1**

1. During stage 1
 - (a) A person may only use a sprinkler to water a lawn growing on a property with:
 - (i) an even numbered address, between the hours of 5:00 a.m. and 8:00 a.m. and 7:00 p.m. and 10:00 p.m. on Tuesday, Thursday and Saturday. They may not use a sprinkler to water the lawn on any other day or time; and
 - (ii) an odd numbered address, between the hours of 5:00 a.m. and 8:00 a.m. and 7:00 p.m. and 10:00 p.m. on Wednesday, Friday and Sunday. They may not use a sprinkler to water the lawn on any other day or time.
 - (b) Local governments may use a sprinkler to water parks, ornamental lawns and grassed boulevards between the hours of 11:00 p.m. and 7:00 a.m. on even numbered days for even numbered addresses and odd numbered days for odd numbered addresses;
 - (c) a person may
 - (i) water trees, shrubs, flowers, and vegetables on any day with a sprinkler during the prescribed hours for stage 1 lawn watering and on any day at any time if watering is done by hand held container or a hand held hose equipped with an automatic shut-off nozzle;
 - (ii) water newly planted trees, shrubs, flowers and vegetables by any method during installation and for the following 24 hours;
 - (iii) use micro-irrigation or drip-irrigation systems to water trees, shrubs, flowers, and vegetables at any time on any day;
 - (iv) under the authority of a permit, water new sod on installation and during the first 21 days after installation, and water newly seeded lawns until growth is established or for 49 days after installation, whichever is less, with a sprinkler but only during the prescribed stage 1 lawn watering hours, and at any time if watering is done by a hand held hose equipped with an automatic shut-off nozzle;
 - (v) water all-weather playing fields at any time if failure to do so will result in a permanent loss of plant material; and
 - (vi) wash a vehicle with water using a hand held container or hand held hose equipped with an automatic shut-off nozzle and at car dealerships or commercial car washes.
2. As exceptions to the stage 1 restrictions
 - (a) Owners or occupiers of property who, by reason of physical or mental incapacity, and where such incapacity has been documented by a medical practitioner, are unable to water their property within the restricted days and times, may water their property on any two days of the week for a maximum of nine hours per day;
 - (b) Nurseries, farms, turf farms, and tree farms are exempted from the restrictions;
 - (c) Local government water parks and pools are exempt from the restrictions; and

- (d) owners or operators of golf courses may water
 - (i) trees, shrubs, flowers, and vegetables grown on golf courses in accordance with stage 1 sections 1 (c) (i), (ii), and (iii) of this schedule; and
 - (ii) fairways, golf greens and tees on any day if failure to do so will result in permanent loss of plant material.

SCHEDULE 'A' (continued)**STAGE 2**

1. During stage 2
 - (a) A person may only use a sprinkler to water a lawn growing on a property with:
 - (i) an even numbered address, on Tuesday and Saturday between the hours of 6:00 a.m. to 8:00 a.m. and 8:00 p.m. to 10:00 p.m.. They may not use a sprinkler to water the lawn on any other day or time; and
 - (ii) an odd numbered address, on Wednesday and Sunday between the hours of 6:00 a.m. to 8:00 a.m. and 8:00 p.m. to 10:00 p.m.. They may not use a sprinkler to water the lawn on any other day or time.
 - (b) Local government may use a sprinkler to water parks, ornamental lawns and grassed boulevards between the hours of 11:00 p.m. and 7:00 a.m. on even numbered days for even numbered addresses and odd numbered days for odd numbered addresses;
 - (c) no person shall use water to wash sidewalks, driveways and parking lots except as necessary for applying a product such as paint, preservative and stucco, preparing a surface prior to paving or repointing bricks, or if required by law to comply with health or safety regulations; and
 - (d) a person may:
 - (i) water trees, shrubs, flowers, and vegetables with a sprinkler during the prescribed hours and days for stage 2 lawn watering and on any day at any time if watering is done by hand held container or a hand held hose equipped with an automatic shut-off nozzle;
 - (ii) water newly planted trees, shrubs, flowers and vegetables by any method during installation and for the following 24 hours;
 - (iii) use micro-irrigation or drip-irrigation systems to water trees, shrubs, flowers, and vegetables at any time on any day;
 - (iii) under the authority of a permit, water new sod on installation and during the first 21 days after installation, and water newly seeded lawns until growth is established or for 49 days after installation, whichever is less, with a sprinkler but only during the prescribed stage 2 lawn watering hours, and at any time if watering is done by a hand held hose equipped with an automatic shut-off nozzle;
 - (iv) water all-weather playing fields at any time if failure to do so will result in a permanent loss of plant material;
 - (v) wash exterior windows and building surfaces with water using a hand held container or hand held hose equipped with an automatic shut-off nozzle
 - (vi) wash a vehicle with water using a hand held container or hand held hose equipped with an automatic shut-off nozzle and at car dealerships and commercial car washes.

2. As exceptions to stage 2 restrictions

- (a) Owners or occupiers of property who, by reason of physical or mental incapacity, are unable to water their property within the restricted days and times, may water their property on one day per week for a maximum of nine hours per day;
- (b) Nurseries, farms, turf farms, and tree farms are exempted from the restrictions;
- (c) Local government water parks and pools are exempt from the restrictions;
- (d) Owners and operators of commercial pressure washing companies may use water but only as part of their normal business operations; and
- (e) Owners or operators of golf courses may water:
 - (i) fairways at any time on not more than two days per week;
 - (ii) trees, shrubs, flowers, and vegetables grown on golf courses in accordance with stage 2 sections 1 (d) (i), (ii), and (iii) of this schedule; and
 - (iii) golf greens and tees on any day if failure to do so will result in permanent loss of plant material.

SCHEDULE 'A' (continued)**STAGE 3 – NO LAWN WATERING**

1. During stage 3
 - (a) no person shall
 - (i) water a lawn or boulevard;
 - (ii) fill or add water to a swimming pool, hot tub, or garden pond;
 - (iii) fill or add water to or operate a decorative fountain at any time;
 - (iv) wash a vehicle or a boat with water; or
 - (b) a person may
 - (i) water trees, shrubs, flowers, and vegetables on any day between the hours of 6:00 a.m. to 8:00 a.m. and 8:00 p.m. to 10:00 p.m if watering is done by hand-held container or a hand held hose equipped with an automatic shut-off nozzle;
 - (ii) water newly planted trees, shrubs, flowers and vegetables by hand held container or a hand held hose equipped with an automatic shut-off nozzle during installation and at any time during the following 24 hours after installation is completed;
 - (iii) use micro-irrigation or drip- irrigation systems to water trees, shrubs, flowers, and vegetables on any day between the hours of 6:00 a.m. to 8:00 a.m. and 8:00 p.m. to 10:00 p.m.;
 - (iv) water all-weather playing fields at any time, but only if failure to do so will result in a permanent loss of plant material; and
 - (v) use water to wash sidewalks, driveways, parking lots, exterior windows, or exterior building surfaces, but only if necessary for applying a product such as paint, preservative, and stucco, preparing a surface prior to paving or repointing bricks, or if required by law to comply with health or safety regulations.
2. As exceptions to the stage 3 restrictions
 - (a) nurseries, farms, turf farms, and tree farms are exempted from the restrictions;
 - (b) local government water parks and pools are exempt from the restrictions;
 - (c) local government may use a sprinkler to water parks, ornamental lawns and grassed boulevards between the hours of 11:00 p.m. and 7:00 a.m. on even numbered days for even numbered addresses and odd numbered days for odd numbered addresses;
 - (d) owners or operators of golf courses may water:
 - (i) fairways at any time on not more than one day per week;
 - (ii) trees, shrubs, flowers, and vegetables grown on golf courses in accordance with stage 3 sections 1 (b) (i), (ii), and (iii) of this schedule; and
 - (iii) golf greens and tees on any day if failure to do so will result in permanent loss of plant material.
 - (e) wading pools less than 200 centimeters in diameter may be filled with water up to a maximum depth of 30 centimeters; and
 - (f) vehicles and boats may be washed with water only at car dealerships and commercial car washes using less than 205 litres of water per vehicle wash or 50 percent recirculated water as long as the total amount of water, excluding recirculated water, does not exceed 205 litres per vehicle wash.

SCHEDULE 'A' (continued)**STAGE 4 – EXTREME CONDITIONS**

1. During stage 4 all use of water for any purpose other than drinking, food preparation and personal hygiene is prohibited.
2. Without limiting the generality of section 1, prohibited uses of water during stage 4 include the following:
 - (a) watering lawns, gardens, plants and trees in any manner or by any means, including watering by hand;
 - (b) filling or topping off or operating residential or commercial pools, hot tubs or ponds or fountains;
 - (c) operating local government outdoor water parks and pools;
 - (d) washing vehicles, boats or outdoor surfaces;
 - (e) irrigating golf courses and other public and/or school district property.
3. Where reasonably possible, swimming pools, hot tubs, fountains and ponds should be drained for health and safety purposes and such water used for irrigation.
4. No new lawn permit shall be issued during stage 4, and no new lawn permit, whenever issued, shall be valid during stage 4.
5. As exceptions to stage 4 restrictions,
 - (a) spot cleaning of vehicles and boats with a sponge and bucket for health and safety reasons (windows, lights, license plates, etc.) is permitted;
 - (b) local government water main and hydrant maintenance is permitted, but only for unscheduled safety or public health reasons;
 - (c) irrigating local government all-weather playing fields;
 - (d) water use is permitted for farm and agricultural operations, but only for livestock drinking purposes and for no other purpose;
 - (e) cleaning outdoor surfaces is only authorized when required by law to comply with health or safety regulations, or to comply with an order of a regulatory authority having jurisdiction, such as WorkSafeBC or a public health inspector;
 - (f) water use is permitted for firefighting.

SCHEDULE ‘B’

PERMITS

1. During stage 1 and 2, a person/resident in an electoral area or a municipality who has installed a new lawn, either newly seeded or new sod, may apply to the Comox Valley Regional District or to the municipality respectively for a permit (a “new lawn permit”), which will allow the new lawn to be sprinkled with water outside of permitted days, but within the restricted hours. The permit shall be conspicuously displayed at the premises for which it was issued.
2. The Comox Valley Regional District or the municipality may issue a permit to an applicant pursuant to section 1 and 2 upon payment to the Comox Valley Regional District or the municipality of a fee in the amount of \$30.00.
3. New sod may be watered for 21 days after installation and newly seeded lawn may be watered until growth is established or for 49 days after installation, whichever is less, provided a permit pursuant to section 1 has been issued for the premises at which the new lawn has been installed.
4. Permits will not be issued or be valid during stage 3 or 4 restrictions.
5. The permit is to take the form of the following example

Comox Valley Water System – Lawn Sprinkling Permit (pursuant to Comox Valley Regional District Bylaw No. 129)			
Name:		This permit is issued for NEW SOD or NEWLY SEEDED LAWN	
Street Address (location of permit):		Permit issue date	
		Installation date	
Permit conditions:			
<ol style="list-style-type: none"> 1. If this permit is issued for new sod, the permit is valid for 21 days after the date of installation. 2. If this permit is issued for newly seeded lawn, the permit is valid for 49 days after date of installation or until growth is established whichever is less. 3. During the term of the permit, the permit holder may sprinkle the new sod or newly seeded lawn between the hours of 4:00 a.m. to 7:00 a.m. and 7:00 p.m. to 10:00 p.m. during stage one restrictions, between the hours of 6:00 a.m. to 8:00 a.m. and 8:00 p.m. to 10:00 p.m. during stage two restrictions and at any time if watering is done by a hand held hose equipped with an automatic shut-off nozzle. 4. This permit is to be prominently displayed at the residence for which the permit is issued. 5. This permit is not valid during stage 3 or 4 water restrictions. 			
Original to permit holder. Retain copy for local government records. Fee paid \$30.00.			