

2004 WATER SHORTAGE RESPONSE PLAN

May 20, 2004

Preface

The purpose of the Water Shortage Response Plan (WSRP) is to manage demand for drinking water during the summer months, and if necessary during times of emergencies. This is important because:

- rainfall is lowest and demand is highest in the summer
- storage capacities are limited
- continued population and industrial growth have led to increased demand
- water shortages may result from unforeseen emergency situations (e.g. earthquakes, major service disruptions, etc.)

The WSRP focuses on reducing demand for outdoor water use. If persistent drought conditions occur, the WSRP contains actions that will produce significant reductions in daily water demand in the region.

The region brought in a Water Shortage Response Plan in 1993 due to the experience of severe drought conditions during most of the summer period in 1992. After a similar experience in 2003, the GVWD Board called for a review and revision of the 1993 WSRP to reflect experience gained through implementation of the original plan.

The revisions made within this new WSRP are based on:

- An analysis of historical water demand in the GVRD and the impact of water reduction measures to date. Sprinkling restrictions have contributed to a reduction in per capita demand of about 20% since the years immediately preceding their introduction, and has enabled some municipal water systems to meet the demand of a growing population with fewer capacity upgrades.
- Examination of comparable water shortage plans from greater Seattle and the Capital Regional District. The measures in this revised WSRP are generally similar to those used in the Seattle and CRD plans. Also in common with those plans, this WSRP focuses on outdoor water use, primarily because of its discretionary nature during the summer months, and the inherent practicality of its enforcement.
- Technical analysis of Industrial, Commercial and Institutional (IC&I) water consumption based on statistical water demands by sector and a market study of IC&I water use. This suggested broad SIC sectors for targeting, and identified areas in which additional detailed studies are required in order to delineate between specific business types or specific end uses of water.
- Internal review and quantification of “triggers” for the individual stages of the WSRP.
- Recommendations for changes to the WSRP and other feedback regarding perceived waste of water received from hundreds of public citizens and businesses during the summer and fall of 2003.
- Technical studies of potential for water demand reductions recently completed and/or currently in progress. These include but are not limited to:
 - a study to produce hydrographs for each municipality to understand water consumption during the summer of 2003
 - an assessment of water conservation potential from the “once-through” cooling water, ornamental fountains, and dual plumbing systems.
 - a modeling project developing a tool for future analysis of end use water consumption and water conservation strategies.
 - a study of optimum timing of sprinkling restrictions examining options to reduce summer water demand peaks

- an inventory of large non-agricultural irrigation water users and sites within the region which examined their water consumption and in some cases the level of compliance with current water use restrictions
- Review and recommendations of municipal and District staff

The revised WSRP uses a staged approach, ranging from an initial standard level of water restrictions combined with timely and effective public notification to be automatically implemented each summer season, through to a highest level of restrictions intended for emergency water shortages only.

The WSRP defines general guidelines which would trigger each stage. However, water projections are complex and cannot always be measured by a single set of numbers. For example, a WSRP action may be needed to respond to a deficiency in the supply system such as failure of a major transmission line or other unforeseen problems with water treatment and supply infrastructure. Therefore, if the GVWD Commissioner deems it necessary, any stage of the WSRP may be enacted or delayed at any time.

In cases where summer drought conditions strain the source water storage capacity of the Capilano and Seymour watersheds, a water storage graphic provides guidance on when a WSRP action (e.g. increasing water from Coquitlam Lake, or advancing to a more restrictive stage of the WSRP) might be activated (Schedule A, which may be updated from time to time). The factors to be monitored and considered in determining if a WSRP action (e.g., moving from Stage 1 to Stage 2) might be warranted include the following:

- storage capacity of Capilano and Seymour watersheds and draw down rates. Most of this information is reflected in the Capilano and Seymour storage graphic;
- forecasts of Capilano and Seymour storage, based on assumptions about; inflows to the watersheds, weather, supply volumes from the Coquitlam source, and GVWD water demand;
- recent trends, and forecasts of the GVWD water demand taking into account customer compliance with current restrictions;
- trends and forecasts of precipitation, snowmelt, and climatic conditions and how they may influence inflows to the source watersheds and source reservoirs;
- current levels, and recent trends in water storage (usable, emergency, total) for the Coquitlam source and how they relate to the GVWD's nominations for Coquitlam water;
- expected reduction in GVWD demand associated with taking a WSRP action.

The WSRP applies only to the use of treated drinking water. The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD/municipal water supply system.

Stage 1 Water Use Restrictions

Activated automatically on June 1 of each year, or at the discretion of the GVWD Commissioner, and remains in effect until September 30. This end date may be extended by direction of the GVWD Commissioner.

The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD/municipal water supply system.

Under Stage 1 of the WSRP:

- Municipalities will suspend hydrant flushing except for unscheduled safety or public health reasons. Routine system flushing will be scheduled outside the WSRP time frame.
- Lawn sprinkling will be restricted to twice weekly, enforced by the member municipalities. Outdoor sprinkling of lawns using hose-connected or automatic in-ground sprinklers will be permitted only as follows:
 - Even-numbered addresses - Saturday and Wednesday
 - Odd-numbered addresses - Sunday and Thursday
 - Between the hours of 4 a.m. to 9 a.m., and 7 p.m. to 10 p.m., only.

Cemetery lawns, ornamental lawns belonging to municipal facilities, and grassed boulevards will not be exempt and may be watered only within the twice-weekly times. Operation of sprinklers for children's play will not be exempt from these restrictions. Automated lawn sprinkler systems will not be exempt.

EXEMPTIONS:

- Sports playing fields and school yards, because their size makes them difficult to irrigate within the time limits, they are generally built on sand bases which do not hold moisture, and because replacement costs are high. Some artificial turf also needs to be watered for safety reasons.
- Municipal parks, because their size makes them difficult to irrigate within the time limits. However, municipalities will reduce sprinkling of parks, playing fields, etc. to minimum levels required to maintain these areas in useable condition. E.g. Sand-based fields may require more frequent watering.
- Lawns at golf courses and turf farms, because the restrictions are not intended to cause undue economic hardship or disruption to a business for which lawns are the primary product or service being provided. However, municipalities will request that golf course operators cut water use on fairways by as much as possible.
- Artificial turf requiring wetting and outdoor tracks requiring hosing for dust control or safety.
- Newly-planted lawns will be allowed to be watered outside of restricted times, but will be required to obtain a municipal permit to be displayed on the lawn.
- Watering of flower and vegetable gardens, decorative planters, shrubs and trees will be allowed.
- Filling of pools, spas, water play parks, and fountains will be allowed.
- Washing of cars or boats will be permitted, but prudent use of water will be encouraged. Washing must be done using a spring-loaded shutoff.

Stage 2 Water Use Restrictions

This stage will be activated by the GVWD Commissioner, using the water shortage assessment guidelines in Schedule A, which may be updated from time to time. The GVWD Commissioner has the discretion to enact or delay this stage under different conditions if deemed necessary.

This stage remains in effect until September 30. However, this end date may be extended by direction of the GVWD Commissioner.

The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD/municipal water supply system.

Under Stage 2 of the WSRP:

- Lawn sprinkling will be restricted to once weekly, enforced by the municipalities. Outdoor sprinkling of lawns using hose-connected or automatic in-ground sprinklers will be permitted only as follows:
 - Even-numbered addresses - Wednesday only
 - Odd-numbered addresses – Thursday only
 - Between the hours of 4 a.m. to 9 a.m., and 7 p.m. to 10 p.m. only.

Municipal parks, cemetery lawns, ornamental lawns belonging to municipal facilities, and grassed boulevards will not be exempt and may be watered only within the once-weekly times.

Hosing of outdoor surfaces (e.g. driveways, sidewalks, roofs) will not be allowed unless required to avoid public health and safety concerns or to prepare a surface for painting/sealing or similar treatment, and must be done using a spring-loaded shutoff.

Pressure washing is equivalent to hosing of an outdoor surface, and will not be permitted except to prepare a surface for painting, sealing or similar treatment. Pressure washing for the purpose of aesthetic cleaning will not be permitted. This will apply to both private and commercial pressure washing.

Ornamental fountains must be shut down. This includes residential, commercial, institutional and government fountains.

Only water play parks with user-activated switches will be permitted to operate.

EXEMPTIONS:

- Golf courses may water greens and tee areas normally; fairways may only be watered once weekly. Where applicable, signage indicating the use of non-GVWD water will be encouraged.
- Sports playing fields, school yards and sand-based playing fields may be watered at minimum levels required to maintain areas in useable condition.
- Artificial turf requiring wetting and outdoor tracks requiring hosing for health or safety reasons.
- Newly-planted lawns will be allowed to be watered outside of restricted times, but will be required to obtain a municipal permit to be displayed on the lawn.
- Watering of flower and vegetable gardens, decorative planters, shrubs and trees and turf at commercial turf farms will be allowed.
- Washing of cars or boats will be permitted, but prudent use of water will be encouraged. Washing must be done using a spring-loaded shutoff.

Stage 3 Water Use Restrictions

This stage will be activated by the GVWD Commissioner, using the water shortage assessment guidelines in Schedule A, which may be updated from time to time. The GVWD Commissioner has the discretion to enact or delay this stage under different conditions if deemed necessary.

The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD/municipal water supply system.

This stage remains in effect until September 30. However, this end date may be extended by direction of the GVWD Commissioner.

Under Stage 3 of the WSRP:

All forms of lawn watering using treated drinking water will be banned completely, for sprinklers of any type. New lawns, cemetery lawns, ornamental lawns belonging to municipal buildings, and grassed boulevards will not be exempt.

Watering of shrubs and trees, flower and vegetable gardens, and decorative planters will not be permitted unless done by hand using a spring-loaded shutoff nozzle, containers or drip irrigation systems. Watering of gardens and planters using sprinklers or soaker hoses is prohibited.

Pressure washing is equivalent to hosing of an outdoor surface. Only commercial pressure washing to prepare a surface for painting, sealing or similar treatment will be permitted. Pressure washing for the purpose of aesthetic cleaning will not be permitted. Private pressure washing will be prohibited.

Exterior washing of vehicles (e.g. cars, motorcycles, recreational vehicles, trucks, boats and other marine vessels) will be prohibited, except for safety (windows, lights, licenses) and only then if using a spring-loaded shutoff. This includes residential, commercial, institutional and government vehicles.

Ornamental fountains must be shut down. This includes residential, commercial, institutional and government fountains.

Only water play parks with user-activated switches will operate.

Filling or refilling of garden ponds, hot tubs, or swimming pools will be prohibited.

EXEMPTIONS:

- Watering of turf at turf farms and flowers and vegetable at commercial gardens.
- Commercial car washes may continue to operate in this stage, as studies have shown that commercial car washes use significantly less water per vehicle than manual washing.
- Golf courses may water greens and tee areas at minimum levels required to maintain areas in useable condition; fairways may not be watered.
- Sports playing fields (including sand-based) and school yards may be watered at minimum levels required to maintain areas in useable condition.
- Artificial turf requiring wetting and outdoor tracks if required for dust control or safety reasons.
- Hosing of outdoor surfaces (e.g. driveways, sidewalks, roofs) only if required to avoid public health and safety concerns or to prepare a surface for painting/sealing or similar treatment.

Stage 4 Emergency Water Use Restrictions

The measures listed in this Stage are intended for cases of EMERGENCY water shortages.

This stage will be activated by the GVWD Commissioner, using the water shortage assessment guidelines in Schedule A, which may be updated from time to time. The GVWD Commissioner has the discretion to enact or delay this stage under different conditions if deemed necessary.

This stage remains in effect until September 30. However, this end date may be extended by direction of the GVWD Commissioner.

The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD/municipal water supply system.

Under Stage 4 of the WSRP:

Restrictions are the same as Stage 3 except for:

- Any form of watering (even if done by hand, containers, soaker hoses or drip irrigation) using treated drinking water will be prohibited for:
 - commercial flower gardens
 - residential flower gardens
 - residential vegetable gardens
 - trees and shrubs
 - golf courses
 - turf farms
 - new lawns
 - sports playing fields (including sand-based)
 - municipal parks
 - cemeteries
 - ornamental lawns belonging to municipal buildings, residences or businesses
 - school yards
 - artificial turf
 - outdoor tracks
 - grassed boulevards
- Municipal permits for watering new lawns will be discontinued.
- Commercial or private pressure washing and hosing of any outdoor surfaces will not be allowed unless ordered by a regulatory authority (e.g. WCB, public health inspectors) for health and safety reasons.
- Filling or refilling of garden ponds, hot tubs, or swimming pools will be prohibited.
- Municipal and commercial water parks will be shut down.
- Municipal outdoor pools will be closed, and winterization of those pools will be deferred until Stage 4 is lifted by the GVWD Commissioner.
- All commercial car washes will be shut down.
- Municipalities will shut down faucets in parks and public spaces (does not apply to drinking fountains with spring-loaded shut-off).

- In addition to the outdoor water restrictions of this stage, the GVWD will request that industries that consume large amounts of indoor water implement voluntary reductions/postponements in production during Stage 4.
- Municipalities will increase their respective enforcement and penalties for violations of the water restrictions with each successive stage of the WSRP.

Communication of the Water Shortage Response Plan:

The GVWD will publish standard notices of water reservoir and rainfall status when appropriate in newspapers, on the GVRD website or other media.

An update of water inflow and demand will be provided by the GVWD to the member municipalities on a weekly basis.

The GVWD supports the WSRP with region-wide communications initiatives. Advertising in the daily newspapers will be arranged by GVWD; advertising in community papers will be arranged by member municipalities. The GVWD and its member municipalities will coordinate annual public notification in newspapers, radio and other media as appropriate, including information on the frequency and amount of lawn sprinkling.

Public communications and notices by the GVWD and municipalities regarding water restrictions will be carried out in English and other languages as appropriate and increased with each successive stage of the WSRP.

Outdoor and indoor water use efficiency information and resource materials will be produced and distributed by the GVWD on behalf of the municipalities. This information will be in the most appropriate formats and media.

A staffed water conservation information service will be provided by the GVWD. Member municipalities will provide information services for inquiries on matters of enforcement and municipality-specific water issues using telephones and/or other media as appropriate.

Implementation of the Water Shortage Response Plan

The GVWD Commissioner is responsible for activating different stages of the WSRP and will notify member municipalities of the need for implementing or discontinuing each of the successive phases of the plan through the regular WSRP update bulletins.

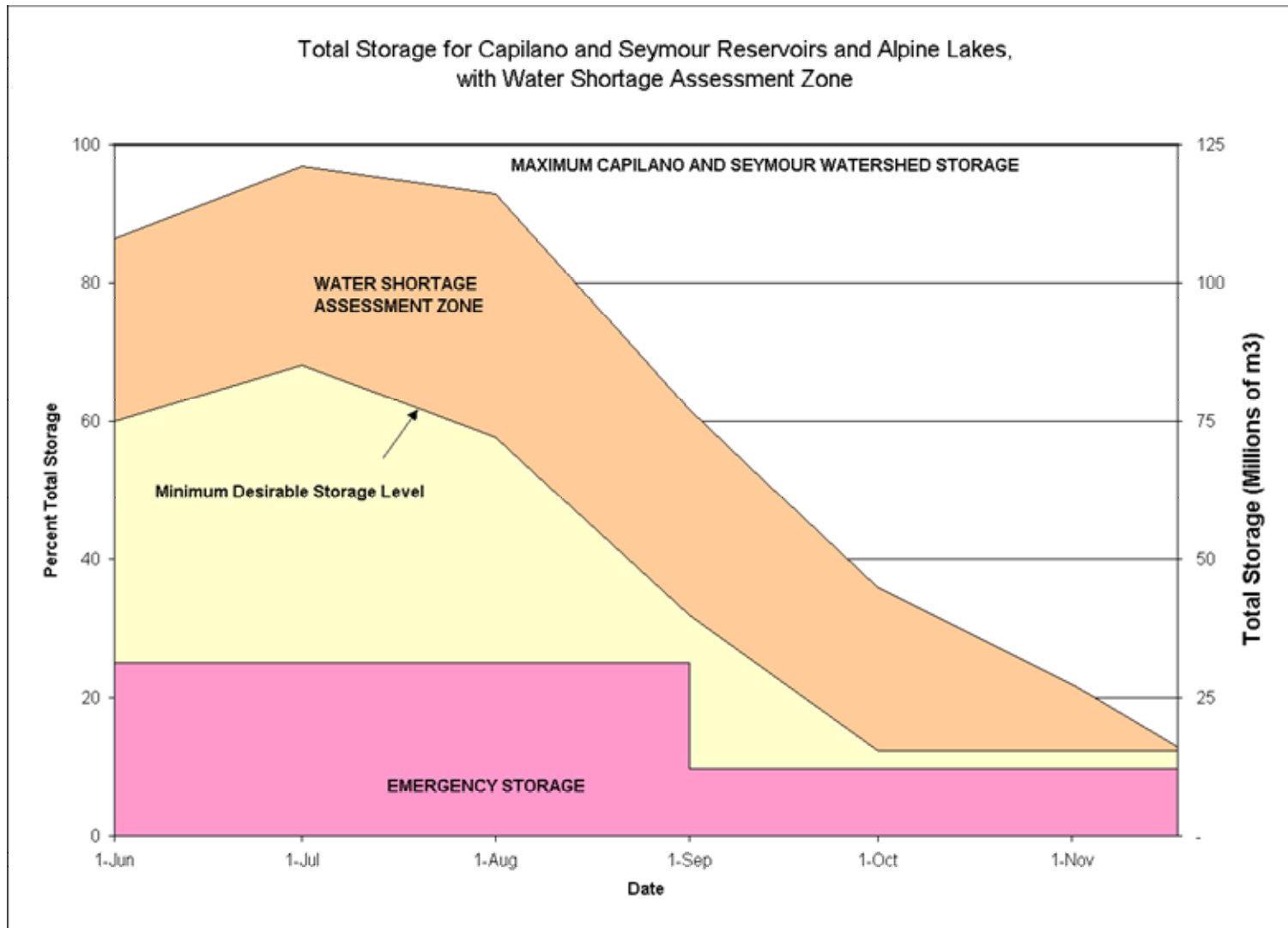
As much notice will be provided as practically possible.

The WSRP is adopted into bylaws by each GVWD member municipality to enable consistent implementation throughout the region. Municipalities are responsible for enforcement of the WSRP in their communities. Municipalities utilize a variety of measures for enforcement, including advisory letters, ticketing and water supply restrictions.

Schedule A: General Guidelines for WSRP Actions

When total storage drops into the ASSESSMENT ZONE then the following factors should be monitored and considered in determining if the GVWD supply from Coquitlam source should be increased and/or a WSRP action considered:

- forecasts of Capilano and Seymour storage, based on assumptions about; inflows to the watersheds, weather, supply volumes from the Coquitlam source, and GVWD water demand.
- recent trends, and forecasts of the GVWD water demand (total and from each source) taking into account customer compliance with current restrictions;
- trends and forecasts of precipitation, snowmelt, and climatic conditions and how they may influence inflows to the source watersheds and source reservoirs;
- current levels and recent trends in water storage (usable, emergency and total) for the Coquitlam source and how they relate to the GVWD's nominations for Coquitlam water;
- expected reduction in GVWD demand associated with taking a WSRP action



Key Review Dates for WSRP Stages	Median Value in Water Shortage Assessment Zone
July 15	~70%
August 15	~50%
October 1	~20%

Water Shortage Response Plan Stage 1 - *At a Glance*

NOTE: These restrictions apply only to the use of treated drinking water. The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD.

	ACTIVITY	RESTRICTION DETAILS
RESIDENTIAL	Lawn sprinkling	June 1-Sept. 30, even addresses Saturday and Wednesday, odd addresses Sunday and Thursday, 4-9 a.m. and 7-10 p.m.
	New (unestablished) lawns.	Sprinkling outside restricted times allowed only with municipal permits to be displayed on lawn.
	Flowers, vegetables, planters, shrubs & trees	No restrictions
	Pools, spas, garden ponds	No restrictions
	Private outdoor impermeable surfaces (i.e., driveways, sidewalks)	No restrictions on hosing of outdoor impermeable surfaces
	Private pressure washing	No restrictions on pressure washing
	Outdoor car washing, boat washing	Only with hose equipped with spring-loaded shut off.
COMMERCIAL	Lawn sprinkling (including cemeteries)	June 1-Sept. 30, even addresses Saturday and Wednesday, odd addresses Sunday and Thursday, 4-9 a.m. and 7-10 p.m.
	New (unestablished) lawns.	Sprinkling outside restricted times allowed only with municipal permits to be displayed on lawn.
	Flowers, vegetables, decorative planters, shrubs & trees	No restrictions on watering of flowers, vegetables, planters, shrubs and trees
	Flower and vegetable gardens	No restrictions on watering of flower and vegetable gardens
	Pools, spas, garden ponds	No restrictions
	Fountains and water features	No restrictions
	Outdoor impermeable surfaces (i.e., driveways, sidewalks and parkades)	No restrictions on hosing of outdoor impermeable surfaces
	Pressure washing	No restrictions on pressure washing
	Outdoor car washing, boat washing	Only with hose equipped with spring-loaded shut off.
	Indoor commercial carwashes	No restrictions on the car washing operation
	Golf courses	Municipalities request golf course operators cut water use on fairways by as much as possible.
	Turf farms	No restrictions on watering of commercial turf
	Artificial turf and outdoor tracks (i.e., bicycle, motorcycle & running tracks)	Hosing for health and safety only.
PUBLIC	School yards, sports and sand-based playing fields	No restrictions
	Water play parks and pools	No restrictions
	Fountains and water features	No restrictions
	Municipal parks	No restrictions
	Municipal ornamental lawns, grassed boulevards.	June 1-Sept. 30, even addresses Saturday and Wednesday, odd addresses Sunday and Thursday, 4-9 a.m. and 7-10 p.m.
	Municipal hydrant flushing	Only for unscheduled safety or public health reason. Routine flushing to be scheduled outside WSRP timeframe.

For information regarding enforcement of the WSRP, please contact your municipality.

For general WSRP information, please contact the GVRD Information Centre at 604-432-6200.

Water Shortage Response Plan Stage 2 - At a Glance

NOTE: These restrictions apply only to the use of treated drinking water. The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD.

	ACTIVITY	RESTRICTION DETAILS
RESIDENTIAL	Lawn sprinkling	Only once weekly. Even-numbered addresses Wednesday, odd-numbered addresses Thursday, 4-9 a.m. and 7-10 p.m.
	New (unestablished) lawns.	Sprinkling outside restricted times allowed only with municipal permits to be displayed on lawn.
	Flowers, vegetables, planters, shrubs & trees	No restrictions on watering of flowers, vegetables, planters, shrubs and trees
	Pools, spas, garden ponds	No restrictions
	Private outdoor impermeable surfaces (i.e., driveways, sidewalks)	Hosing only for health and safety purposes or to prepare a surface for painting or similar treatment. Washing for aesthetic purposes is prohibited.
	Private pressure washing	Only for health and safety purposes or to prepare a surface for painting or similar treatment. Washing for aesthetic purposes is prohibited.
	Outdoor car washing, boat washing	Only with hose equipped with spring-loaded shut off.
COMMERCIAL	Lawn sprinkling (including cemeteries)	Only once weekly. Even-numbered addresses Wednesday, odd-numbered addresses Thursday, 4-9 a.m. and 7-10 p.m.
	New (unestablished) lawns.	Sprinkling outside restricted times allowed only with municipal permits to be displayed on lawn.
	Flowers, vegetables, decorative planters, shrubs & trees	No restrictions on watering of flowers, vegetables, planters, shrubs and trees
	Flower and vegetable gardens	No restrictions on watering of flower and vegetable gardens
	Pools, spas, garden ponds	No restrictions
	Fountains and water features	All shut down
	Outdoor impermeable surfaces (i.e., driveways, sidewalks and parkades)	Hosing only for health and safety purposes or to prepare a surface for painting or similar treatment. Washing for aesthetic purposes is prohibited.
	Pressure washing	Only for health and safety purposes or to prepare a surface for painting or similar treatment. Washing for aesthetic purposes is prohibited.
	Outdoor car washing, boat washing	Only with hose equipped with spring-loaded shut off.
	Indoor commercial carwashes	No restrictions on the car washing operation
	Golf courses	Water greens and tee areas normally; fairways only once weekly. Signage indicating the use of non-GVWD water is encouraged.
	Turf farms	No restrictions on watering of commercial turf
	Artificial turf and outdoor tracks (i.e., bicycle, motorcycle & running tracks)	Hosing for health and safety only.
PUBLIC	School yards, sports and sand-based playing fields	Minimum levels required to maintain areas in useable condition.
	Water play parks and pools	Only water play parks with user-activated switches will be operated.
	Fountains and water features	All shut down
	Municipal parks	Only once weekly. Even-numbered addresses Wednesday, odd-numbered addresses Thursday, 4-9 a.m. and 7-10 p.m.
	Municipal ornamental lawns, grassed boulevards.	Only once weekly. Even-numbered addresses Wednesday, odd-numbered addresses Thursday, 4-9 a.m. and 7-10 p.m.
	Municipal hydrant flushing	Only for unscheduled safety or public health reason. Routine flushing to be scheduled outside WSRP timeframe.

For information regarding enforcement of the WSRP, please contact your municipality.

For general WSRP information, please contact the GVRD Information Centre at 604-432-6200.

Water Shortage Response Plan Stage 3 - *At a Glance*

NOTE: These restrictions apply only to the use of treated drinking water. The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD.

	ACTIVITY	RESTRICTION DETAILS
RESIDENTIAL	Lawn sprinkling	All forms of watering using treated drinking water are prohibited.
	New (unestablished) lawns.	No new permits issued or renewed. All forms of watering using treated drinking water are prohibited.
	Flowers, vegetables, planters, shrubs & trees	Only if done by hand using a spring-loaded shut off nozzle, or using containers or drip irrigation. Use of sprinklers or soaker hoses is prohibited.
	Pools, spas, garden ponds	Refilling is prohibited.
	Private outdoor impermeable surfaces (i.e., driveways, sidewalks)	Hosing only for health and safety purposes or to prepare a surface for sealing or similar treatment. Washing for aesthetic purposes is prohibited.
	Private pressure washing	Private pressure washing is prohibited.
	Outdoor car washing, boat washing	No outdoor washing or rinsing of vehicles and pleasure crafts, except for safety (windows, lights and licenses only).
COMMERCIAL	Lawn sprinkling (including cemeteries)	All forms of watering using treated drinking water are prohibited.
	New (unestablished) lawns.	No new permits issued or renewed. All forms of watering using treated drinking water are prohibited.
	Flowers, vegetables, decorative planters, shrubs & trees	Only if done by hand using a spring-loaded shut off nozzle, or using containers or drip irrigation. Use of sprinklers or soaker hoses is prohibited.
	Flower and vegetable gardens	No restrictions on watering of flower and vegetable gardens
	Pools, spas, garden ponds	Refilling is prohibited.
	Fountains and water features	All shut down
	Outdoor impermeable surfaces (i.e., driveways, sidewalks and parkades)	Hosing only for health and safety purposes or to prepare a surface for sealing or similar treatment. Washing for aesthetic purposes is prohibited.
	Pressure washing	Only for health and safety purposes or to prepare a surface for painting or similar treatment. Washing for aesthetic purposes is prohibited.
	Outdoor car washing, boat washing	No outdoor washing or rinsing of vehicles and pleasure crafts, except for safety (windows, lights and licenses only).
	Indoor commercial carwashes	No restrictions on the car washing operation
	Golf courses	Water greens and tee areas at minimum levels required to maintain areas in useable condition; fairways may not be watered.
	Turf farms	No restrictions on watering of commercial turf
	Artificial turf and outdoor tracks (i.e., bicycle, motorcycle & running tracks)	Hosing for health and safety only.
PUBLIC	School yards, sports and sand-based playing fields	Minimum levels required to maintain areas in useable condition.
	Water play parks and pools	Only water play parks with user-activated switches will be operated.
	Fountains and water features	All shut down
	Municipal parks	All forms of watering using treated drinking water are prohibited.
	Municipal ornamental lawns, grassed boulevards.	All forms of watering using treated drinking water are prohibited.
	Municipal hydrant flushing	Only for unscheduled safety or public health reason. Routine flushing to be scheduled outside WSRP timeframe.

For information regarding enforcement of the WSRP, please contact your municipality.
 For general WSRP information, please contact the GVRD Information Centre at 604-432-6200.

Water Shortage Response Plan Stage 4 - *At a Glance*

NOTE: These restrictions apply only to the use of treated drinking water. The WSRP restrictions do not apply to the use of rain water, gray water, any forms of recycled water, or other sources of water outside the GVWD.

	ACTIVITY	RESTRICTION DETAILS
RESIDENTIAL	Lawn sprinkling	All forms of watering using treated drinking water are prohibited.
	New (unestablished) lawns.	No new permits issued or renewed. All forms of watering using treated drinking water are prohibited.
	Flowers, vegetables, planters, shrubs & trees	All forms of watering using treated drinking water are prohibited.
	Pools, spas, garden ponds	Refilling is prohibited.
	Private outdoor impermeable surfaces (i.e., driveways, sidewalks)	All forms of hosing of outdoor surfaces are prohibited unless ordered by a regulatory authority (i.e., WCB, public health inspector, etc...).
	Private pressure washing	All forms of hosing of outdoor surfaces are prohibited unless ordered by a regulatory authority for health and safety reasons (i.e., WCB, public health inspector, etc...).
	Outdoor car washing, boat washing	No outdoor washing or rinsing of vehicles and pleasure crafts, except for safety (windows, lights and licenses only).
COMMERCIAL	Lawn sprinkling (including cemeteries)	All forms of watering using treated drinking water are prohibited.
	New (unestablished) lawns.	No new permits issued or renewed. All forms of watering using treated drinking water are prohibited.
	Flowers, vegetables, decorative planters, shrubs & trees	All forms of watering using treated drinking water are prohibited.
	Flower and vegetable gardens	All forms of watering using treated drinking water are prohibited.
	Pools, spas, garden ponds	Refilling is prohibited.
	Fountains and water features	All shut down
	Outdoor impermeable surfaces (i.e., driveways, sidewalks and parkades)	All forms of hosing of outdoor surfaces are prohibited unless ordered by a regulatory authority for health and safety reasons (i.e., WCB, public health inspector, etc...).
	Pressure washing	All forms of hosing of outdoor surfaces are prohibited unless ordered by a regulatory authority for health and safety reasons (i.e., WCB, public health inspector, etc...).
	Outdoor car washing, boat washing	No outdoor washing or rinsing of vehicles and pleasure crafts, except for safety (windows, lights and licenses only).
	Indoor commercial carwashes	All shut down
	Golf courses	All forms of watering using treated drinking water are prohibited.
	Turf farms	All forms of watering using treated drinking water are prohibited.
	Artificial turf and outdoor tracks (i.e., bicycle, motorcycle & running tracks)	All forms of watering using treated drinking water are prohibited.
PUBLIC	School yards, sports and sand-based playing fields	All forms of watering using treated drinking water are prohibited.
	Water play parks and pools	All water parks shut down. Municipal outdoor pools closed. Winterization deferred until Stage 4 is lifted by GVWD.
	Fountains and water features	All shut down
	Municipal parks	All forms of watering using treated drinking water are prohibited.
	Municipal ornamental lawns, grassed boulevards.	All forms of watering using treated drinking water are prohibited.
	Municipal hydrant flushing	Only for unscheduled safety or public health reason. Routine flushing to be scheduled outside WSRP timeframe.

For information regarding enforcement of the WSRP, please contact your municipality.

For general WSRP information, please contact the GVRD Information Centre at 604-432-6200.