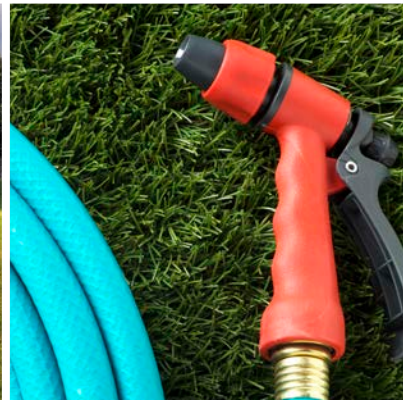




# Metro Vancouver Drinking Water Conservation Plan



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# Table of Contents

- 1 Overview of the Drinking Water Conservation Plan ..... 1
- 2 Metro Vancouver’s role in ensuring the sustainable use of water resources ..... 2
  - 2.1 Managing the region’s drinking water responsibly ..... 2
  - 2.2 Water conservation in Metro Vancouver ..... 2
- 3 Drinking Water Conservation Plan – Stages 1 through 4..... 3
  - 3.1 Stage 1 Water Restrictions..... 4
  - 3.2 Stage 2 Water Restrictions..... 6
  - 3.3 Stage 3 Water Restrictions..... 8
  - 3.4 Stage 4 Water Restrictions..... 11
  - 3.5 Stage activation..... 12
  - 3.6 Public notification ..... 13
  - 3.7 Monitoring and enforcement ..... 13
  - 3.8 Updating the Drinking Water Conservation Plan..... 13
- 4 Exemption for local governments for health and safety reasons..... 14
- 5 Members of the Greater Vancouver Water District ..... 14
- 6 Glossary and terms ..... 15

# 1 Overview of the Drinking Water Conservation Plan

The Greater Vancouver Water District (GVWD) was created and constituted under the provincial statute the *Greater Vancouver Water District Act*, to supply drinking water to the Metro Vancouver region. The GVWD is governed by an Administration Board (the Board) consisting of representatives from the local government members of the GVWD. The Board appoints a Commissioner (the GVWD Commissioner) who provides management and oversight of the activities of the GVWD. The GVWD operates under the name “Metro Vancouver”.

Metro Vancouver, working together with the local government members of the GVWD, provides clean, safe drinking water to the region’s population of 2.5 million. Metro Vancouver’s *Drinking Water Conservation Plan* (DWCP) is a regional policy developed with local governments and other stakeholders to manage the use of drinking water during periods of high demand, mostly during late spring to early fall, and during periods of water shortages and emergencies. The DWCP helps ensure our collective needs for drinking water are met affordably and sustainably now, and in the future.

There are two complementary documents to the DWCP. One is the Board’s *Drinking Water Conservation Policy* which describes: 1) the GVWD Commissioner’s decision-making process for activating and deactivating Stages of the DWCP; and 2) the implementation process for local governments.

The second complementary document is Metro Vancouver’s *Drinking Water Management Plan*, which sets out the following three goals:

1. Provide clean, safe drinking water.
2. Ensure the sustainable use of water resources.
3. Ensure the efficient supply of water.

The water restrictions, as outlined in the DWCP, provide regional direction for meeting Goal 2 – Ensuring the sustainable use of water resources.

The DWCP applies only to local government members of the GVWD and the use of drinking water from the GVWD’s water system. Jurisdictions that are not local government members of the GVWD are encouraged to follow the restrictions in the plan to help conserve drinking water and demonstrate leadership and consistency to water users across the region. The DWCP restrictions do not apply to the use of rain water, grey water, any forms of recycled water, or water from sources outside the GVWD water system. If water is supplied from an alternative source other than the GVWD water system, such users are encouraged to display signs indicating the alternative water source.

Underlying the development and implementation of the DWCP are the following four principles:

1. Recognize drinking water as a precious resource that must be conserved.
2. Maintain the environmental, economic vitality and health and safety of the region to the extent possible in the face of a water shortage.
3. Optimize available water supplies and reduce water use.
4. Minimize adverse impacts to public activity and quality of life for the region’s residents.

## 2 Metro Vancouver’s role in ensuring the sustainable use of water resources

### 2.1 Managing the region’s drinking water responsibly

Metro Vancouver is responsible for storing, treating and delivering clean, safe drinking water through its local governments to over 2.5 million people in the Metro Vancouver region of British Columbia.

Metro Vancouver’s water system includes three watersheds and associated dams and reservoirs, treatment facilities, an extensive transmission system, plus the performance of related operational and maintenance tasks to manage this infrastructure.

Metro Vancouver distributes water to local government members on a cost recovery basis.

Local governments then deliver drinking water, through their infrastructure, directly to individual properties. All individual billing and enforcement of water use restrictions is undertaken by each respective local government.

Metro Vancouver manages the region’s water system in accordance with Provincial regulations and Federal guidelines. In addition to meeting those regulations and guidelines, Metro Vancouver is responsible for developing long-range plans for managing the region’s drinking water and operating the water system. The system is operated in alignment with priorities identified in Metro Vancouver’s *Board Strategic Plan*, under the region’s *Drinking Water Management Plan* and in consideration of the principles of sustainability through decision making that considers social, economic, and environmental values.



### 2.2 Water conservation in Metro Vancouver

Water conservation is a major component of Metro Vancouver’s planning to ensure the sustainable use of water resources. Helping water users such as residents, businesses, schools, and local governments to use only what they need helps ensure an efficient and relatively cost effective water system.

Most precipitation in Metro Vancouver occurs between November and April. Dry summer months lead to an increase in water use, particularly for the outdoor uses described in the DWCP. Assisting water users to develop sustainable water use habits year round makes a significant difference in lowering daily demand and sustaining reservoir levels during dry months. Lowering demand through water conservation practices also defers the need to invest in expanding the infrastructure, even as the region’s population grows by approximately 35,000 residents annually.

The DWCP describes the staged restrictions related to outdoor water use that water users should follow to:

- Prevent water from being wasted;

- Prepare for and respond to drought and emergency conditions;
- Ensure drinking water can be delivered to all users during the summer when rainfall levels are lowest and the demand for water is highest;
- Adapt to a changing climate;
- Support fish habitat and ecosystems;
- Minimize the costly expansion of the water system infrastructure; and
- Maintain adequate water pressure to keep the system operating safely and effectively.

More information on Metro Vancouver’s water conservation initiatives, improvements and expansion to the delivery system, and planning for future water supply can be found at [metrovancover.org](http://metrovancover.org).

### **3 Drinking Water Conservation Plan – Stages 1 through 4**

Each stage of the DWCP is designed to reduce demand for drinking water through specific water restrictions which become more restrictive with higher stages. The following general restrictions apply to all stages of the plan in addition to the specific water restrictions contained in each stage:

- All hoses must have an automatic shut-off device
- Water must not unnecessarily run off on impermeable surfaces such as driveways, curbs, pathways, or gutters when watering lawns and plants
- Artificial playing turf and outdoor tracks must not be watered except for a health or safety reason
- Hoses and taps must not run unnecessarily
- Irrigation systems must not be faulty, leaking, or misdirected

In most cases, the stages of the plan will be activated in successive order, but they can also be activated immediately in any order.

Stage 1 reduces demand in summer months, and is automatically in effect on May 1 until October 15.

Stages 2 and 3, activated and deactivated by the GVWD Commissioner, are likely to be activated during unusually hot and dry conditions to maximize conservation.

Stage 4, activated and deactivated by the GVWD Commissioner during an emergency to immediately limit water use to essential needs only.

The decision to activate more restrictive stages of the DWCP is based on measured facts, reasoned predictions, and historical patterns, with a goal of ensuring the sufficient supply of water until the concerns that caused the more restrictive stages are over, typically in the early fall with the return of seasonal rainfall.

### 3.1 Stage 1 Water Restrictions

Stage 1 comes into effect automatically each year – on May 1 until October 15 – to prevent drinking water wastage and ensure water users employ efficient and effective watering practices.

| User                       | Water Use   | Restriction  |
|----------------------------|---|--|
| RESIDENTIAL                | Watering lawns  | Even-numbered civic addresses: on Wednesdays and Saturdays from 4 am to 9 am<br>Odd-numbered civic addresses: on Thursdays and Sundays from 4 am to 9 am                                     |
|                            | Watering new lawns or lawns being treated for the European Chafer Beetle  | Outside restricted lawn watering times if in compliance with a local government permit   |
|                            | Watering trees, shrubs, and flowers excluding edible plants   | On any day from 4 am to 9 am if using a sprinkler<br>On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation                                       |
| NON-RESIDENTIAL            | Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non-residential watering times) | Even-numbered civic addresses: on Mondays from 1 am to 6 am and on Fridays from 4 am to 9 am<br>Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am and on Fridays from 4 am to 9 am |
|                            | Watering new lawns or lawns being treated for European Chafer Beetle  | Outside restricted lawn watering times if in compliance with a local government permit   |
|                            | Watering trees, shrubs, and flowers excluding edible plants   | On any day from 1 am to 9 am if using a sprinkler<br>On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation                                       |
| GOVERNMENTS/ SCHOOLS/PARKS | Watering lawns and grass boulevards   | Even-numbered civic addresses: on Mondays from 1 am to 6 am and on Fridays from 4 am to 9 am<br>Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am and on Fridays from 4 am to 9 am |
|                            | Watering new lawns or lawns being treated for the European Chafer Beetle  | Outside restricted lawn watering times if in compliance with a local government permit   |
|                            | Watering trees, shrubs, and flowers excluding edible plants   | On any day from 1 am to 9 am if using a sprinkler<br>On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation                                       |

| User                       | Water Use                          | Restriction  |
|----------------------------|------------------------------------|--|
| GOVERNMENTS/ SCHOOLS/PARKS | Watering soil-based playing fields | On any day from 7 pm to 9 am, except if: <ul style="list-style-type: none"> <li>- Watering newly over-seeded fields if in compliance with a local government permit</li> <li>- Operating under an approved local government water management plan</li> </ul> |
|                            | Watering sand-based playing fields | On any day from 7 pm to 9 am, except if: <ul style="list-style-type: none"> <li>- Watering newly over-seeded fields if in compliance with a local government permit</li> <li>- Operating under an approved local government water management plan</li> </ul> |
|                            | Flushing water mains               | Prohibited   |



### 3.2 Stage 2 Water Restrictions

Stage 2 restrictions conserve drinking water to ensure the existing supply will last until the return of seasonal rainfall or until the water shortage situation is over. These restrictions are designed to conserve enough drinking water to avoid or delay moving to Stage 3 as long as possible.

| User            | Water Use   | Restriction   |
|-----------------|---|---|
| RESIDENTIAL     | Watering lawns  | Even-numbered civic addresses: on Wednesdays from 4 am to 9 am<br>Odd-numbered civic addresses: on Thursdays from 4 am to 9 am  |
|                 | Watering new lawns or lawns being treated for the European Chafer Beetle  | Outside restricted lawn watering times if in compliance with a local government permit  |
|                 | Watering trees, shrubs, and flowers excluding edible plants   | On any day from 4 am to 9 am if using a sprinkler<br>On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation  |
|                 | Washing impermeable surfaces  | Prohibited except if: <ul style="list-style-type: none"> <li>- For a health or safety reason</li> <li>- Preparing a surface for painting or similar treatment</li> <li>- Aesthetic cleaning by a commercial cleaning operation</li> </ul> |
|                 | Topping up or filling aesthetic water features  | Prohibited  |
|                 |   |   |
| NON-RESIDENTIAL | Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non-residential watering times) | Even-numbered civic addresses: on Mondays from 1 am to 6 am<br>Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am  |
|                 | Watering new lawns or lawns being treated for the European Chafer Beetle  | Outside restricted lawn watering times if in compliance with a local government permit  |
|                 | Watering trees, shrubs, and flowers excluding edible plants   | On any day from 1 am to 9 am if using a sprinkler<br>On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation  |
|                 | Watering golf courses   | Fairways watering anytime on any one day in a 7-day period, except if operating under an approved local government water management plan  |

| User                      | Water Use  | Restriction   |
|---------------------------|--|---|
| NON-RESIDENTIAL           | Washing impermeable surfaces   | Prohibited except if: <ul style="list-style-type: none"> <li>- For a health or safety reason</li> <li>- Preparing a surface for painting or similar treatment</li> <li>- Aesthetic cleaning by a commercial cleaning operation</li> </ul>   |
|                           | Topping up or filling aesthetic water features                           | Prohibited  |
|                           |  |   |
| GOVERNMENTS/SCHOOLS/PARKS | Watering lawns and grass boulevards                                      | Even-numbered civic addresses: on Mondays from 1 am to 6 am<br><br>Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am  |
|                           | Watering new lawns or lawns being treated for the European Chafer Beetle | Outside restricted lawn watering times if in compliance with a local government permit  |
|                           | Watering trees, shrubs, and flowers excluding edible plants              | On any day from 1 am to 9 am if using a sprinkler<br>On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation  |
|                           | Watering soil-based playing fields                                       | No more than 4 days in a 7-day period from 7 pm to 9 am, except if: <ul style="list-style-type: none"> <li>- Watering newly over-seeded fields if in compliance with a local government permit</li> <li>- Operating under an approved local government water management plan</li> </ul> |
|                           | Watering sand-based playing fields                                       | On any day from 7 pm to 9 am, except if: <ul style="list-style-type: none"> <li>- Watering newly over-seeded fields if in compliance with a local government permit</li> <li>- Operating under an approved local government water management plan</li> </ul>                            |
|                           | Flushing water mains   | Prohibited  |
|                           | Operating water play parks and pools                                     | Prohibited except water play parks with user-activated switches   |
|                           | Topping up or filling aesthetic water features                           | Prohibited  |

### 3.3 Stage 3 Water Restrictions

Stage 3 restrictions respond to serious drought conditions, or other water shortage, and achieve further reductions in drinking water use by implementing a lawn watering ban and additional stricter measures.

| User            | Water Use   | Restriction   |
|-----------------|---|---|
| RESIDENTIAL     | Watering lawns  | Prohibited  |
|                 | Watering new lawns or lawns being treated for the European Chafer Beetle  | Local government permits issued in Stages 1 or 2 remain in effect until permit expires<br>No new permits issued or renewed  |
|                 | Watering trees, shrubs, and flowers excluding edible plants   | Prohibited if using a sprinkler or soaker hose<br>On any day at any time if using a handheld hose, water container, or drip irrigation  |
|                 | Washing impermeable surfaces  | Prohibited except if: <ul style="list-style-type: none"> <li>- For a health or safety reason</li> <li>- Preparing a surface for painting or similar treatment by a commercial cleaning operation</li> </ul> |
|                 | Topping up or filling aesthetic water features  | Prohibited  |
|                 | Topping up or filling pools and hot tubs  | Prohibited  |
|                 | Washing vehicles and boats  | Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety  |
| NON-RESIDENTIAL | Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non-residential watering times) | Prohibited  |
|                 | Watering new lawns or lawns being treated for the European Chafer Beetle  | Local government permits issued in Stages 1 or 2 remain in effect until permit expires<br>No new permits issued or renewed  |
|                 | Watering trees, shrubs, and flowers excluding edible plants   | Prohibited if using a sprinkler or soaker hose<br>On any day at any time if using a handheld hose, water container, or drip irrigation  |
|                 | Watering golf courses   | Fairways watering prohibited except if operating under an approved local government water management plan   |
|                 | Washing impermeable surfaces  | Prohibited except if: <ul style="list-style-type: none"> <li>- For a health or safety reason</li> </ul>   |

| User                      | Water Use  | Restriction   |
|---------------------------|--|---|
| NON-RESIDENTIAL           |  | <ul style="list-style-type: none"> <li>- Preparing a surface for painting or similar treatment by a commercial cleaning operation</li> </ul>  |
|                           | Topping up or filling aesthetic water features                           | Prohibited  |
|                           | Topping up or filling pools and hot tubs                                 | Prohibited except for pools and hot tubs with a permit to operate in accordance with health authorities having jurisdiction over pool and hot tub regulation  |
|                           | Washing vehicles and boats   | Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety  |
|                           | Commercial vehicle washing   | Prohibited except if: <ul style="list-style-type: none"> <li>- A facility that installed an automatic vehicle wash system before November 1, 2017, is operating on a basic wash and rinse cycle only</li> <li>- A facility that installed an automatic vehicle wash system after November 1, 2017, is operating using a water recycling system that achieves a minimum 60% water recovery rate over the full wash cycle</li> <li>- A hand wash and self-service facility, is operating using high-pressure wands or brushes that achieve a maximum flow rate of 11.4 litres per minute</li> </ul> |
|                           |  |   |
| GOVERNMENTS/SCHOOLS/PARKS | Watering lawns and grass boulevards                                      | Prohibited  |
|                           | Watering new lawns or lawns being treated for the European Chafer Beetle | Local government permits issued in Stages 1 or 2 remain in effect until permit expires<br>No new permits issued or renewed  |
|                           | Watering trees, shrubs, and flowers                                      | Prohibited if using a sprinkler or soaker hose<br>On any day at any time if using a handheld hose, water container, or drip irrigation  |
|                           | Watering soil-based playing fields                                       | No more than 3 days in a 7-day period from 7 pm to 9 am except if: <ul style="list-style-type: none"> <li>- Watering newly over-seeded fields if in compliance with a local government permit</li> <li>- Operating under an approved local government water management plan</li> </ul>  |
|                           | Watering sand-based playing fields                                       | No more than 5 days in a 7-day period from 7 pm to 9 am, except if:   |

| User                      | Water Use                                      | Restriction   |
|---------------------------|--|---|
| GOVERNMENTS/SCHOOLS/PARKS |  | <ul style="list-style-type: none"> <li>- Watering newly over-seeded fields if in compliance with a local government permit</li> <li>- Operating under an approved local government water management plan</li> </ul> |
|                           | Flushing water mains                           | Prohibited  |
|                           | Operating water play parks                     | Prohibited except water play parks with user-activated switches   |
|                           | Topping up or filling aesthetic water features | Prohibited  |
|                           | Topping up or filling pools and hot tubs       | Prohibited except for pools and hot tubs with a permit to operate in accordance with health authorities having jurisdiction over pool and hot tub regulation  |
|                           | Washing vehicles and boats                     | Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety  |

### 3.4 Stage 4 Water Restrictions

Stage 4 is an emergency stage that limits both indoor and outdoor water uses as much as possible to ensure an adequate supply of drinking water for human consumption, use in firefighting and to protect the quality of drinking water within the water system for public health.

Stage 4 is activated based on the rare occurrence of a significant emergency, such as an earthquake, flood, wild land and interface fire, severe weather, or a prolonged regional power outage that causes significant impacts to the water system infrastructure (e.g. damage to major water transmission lines, pump stations, or treatment plants).

In addition to the following outdoor water restrictions, Metro Vancouver could request that industrial water users implement voluntary reductions or reschedule production processes that consume large amounts of water until Stage 4 is deactivated.

| User            | Water Use   | Restriction  |
|-----------------|---|--|
| RESIDENTIAL     | Watering lawns  | Prohibited   |
|                 | Watering new lawns or lawns being treated for the European Chafer Beetle  | All local government permits issued for lawn watering are invalidated                                    |
|                 | Watering trees, shrubs, flowers and edible plants   | Prohibited   |
|                 | Topping up or filling aesthetic water features  | Prohibited   |
|                 | Topping up or filling pools and hot tubs  | Prohibited   |
|                 | Washing impermeable surfaces  | Prohibited except if ordered by a regulatory authority having jurisdiction for a health or safety reason |
|                 | Washing vehicles and boats  | Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety         |
| NON-RESIDENTIAL | Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non-residential watering times) | Prohibited   |
|                 | Watering new lawns or lawns being treated for the European Chafer Beetle  | All local government permits issued for lawn watering are invalidated                                    |
|                 | Watering trees, shrubs, flowers and edible plants   | Prohibited   |

|                           |  |  |
|---------------------------|--|--|
| NON-RESIDENTIAL           | Watering golf courses  | Prohibited   |
|                           | Washing impermeable surfaces   | Prohibited except if ordered by a regulatory authority having jurisdiction for health or safety reason |
|                           | Topping up or filling aesthetic water features                       | Prohibited   |
|                           | Topping up or filling pools and hot tubs                             | Prohibited   |
|                           | Washing vehicles and boats   | Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety       |
|                           | Commercial vehicle washing   | Prohibited   |
|                           |  |  |
| GOVERNMENTS/SCHOOLS/PARKS | Watering lawns and grass boulevards                                  | Prohibited   |
|                           | Watering new lawns or lawns being treated for European Chafer Beetle | All local government permits issued for lawn watering are invalidated                                  |
|                           | Watering trees, shrubs, flowers and edible plants                    | Prohibited   |
|                           | Watering soil-based playing fields                                   | Prohibited   |
|                           | Watering sand-based playing fields                                   | Prohibited   |
|                           | Flushing water mains   | Prohibited   |
|                           | Operating water play parks   | Prohibited   |
|                           | Topping up or filling aesthetic water features                       | Prohibited   |
|                           | Topping up or filling pools and hot tubs                             | Prohibited   |
|                           | Washing vehicles and boats   | Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety       |

### 3.5 Stage activation

Stage 1 comes into effect automatically on May 1 until October 15 each year.

Stages 2, 3 and 4 are activated and deactivated by the GVWD Commissioner.

The following factors guide the GVWD Commissioner's decision to activate or deactivate stages of the DWCP:

- Available storage capacity of the Capilano and Seymour Reservoirs and alpine lakes;

- Water allocated to Metro Vancouver by BC Hydro from the Coquitlam Reservoir;
- Hydrologic forecasting parameters including temperature, rainfall, snowpack, and snowmelt;
- Seasonal water demand trends (measured and charted daily);
- User compliance with the restrictions; and
- Water transmission system performance and ability to deliver water during periods of high demand.

Once the GVWD Commissioner makes the decision to activate or deactivate a stage, all local governments are alerted within 24 hours, which triggers public notification and enforcement.

The GVWD Commissioner has the authority to activate, extend or deactivate stages at any time.

### **3.6 Public notification**

Metro Vancouver and local governments are responsible for communicating information to water users about the restrictions in clear and plain language including:

- Providing public access to the restrictions in both a full and abbreviated version;
- Distributing communications materials;
- Promoting the annual start date of the restrictions;
- Notification of activation or deactivation of stages;
- Responding to queries; and
- Recording feedback for consideration in future reviews.

### **3.7 Monitoring and enforcement**

Local governments incorporate the DWCP restrictions into local government bylaws, where each local government is responsible for monitoring and enforcing the restrictions in their communities. Local governments will ensure that their respective enforcement and penalties for violations of the water restrictions increase with each successive stage of the DWCP to reflect the severity of the situation requiring the activation of an advanced stage.

Local governments may use a variety of tools to promote and ensure bylaw compliance including educational materials, using verbal and written warnings, issuing tickets and imposing fines.

### **3.8 Updating the Drinking Water Conservation Plan**

The DWCP is reviewed periodically to reflect population growth, climate change, new technologies and changes in water system infrastructure. Proposed changes are discussed with local governments responsible for plan implementation and enforcement, and with stakeholders. All updates are reviewed and approved by the Board.



## 4 Exemption for local governments for health and safety reasons

Metro Vancouver encourages all local governments to follow the watering restrictions in the DWCP to conserve water and demonstrate leadership. However, Metro Vancouver recognizes that local governments have important decisions to make regarding protecting public health and safety, and that certain circumstances may require the use of drinking water in a manner that is not consistent with the DWCP restrictions. Therefore, local governments have the authority to use water during any stage and are exempt from the restrictions in the DWCP for activities that are necessary for the purpose of protecting public health and safety. Examples include:

- Flushing water mains where a significant health or safety concern is identified;
- Washing down public spaces where significant health concerns are raised, or on the recommendation of the local health authority;
- Wetting forest and park perimeters or boulevards as part of a fire prevention strategy during extreme hot and dry weather, or on the recommendation of the local fire authority; and
- Protection of publicly funded infrastructure such as community playing fields or swimming facilities, on the recommendation of the city manager of the local government having jurisdiction.

## 5 Members of the Greater Vancouver Water District

The following are the members of the GVWD:

|                      |                             |                            |
|----------------------|-----------------------------|----------------------------|
| Village of Anmore    | City of Maple Ridge         | City of Port Moody         |
| Village of Belcarra  | City of New Westminster     | City of Richmond           |
| City of Burnaby      | City of North Vancouver     | City of Surrey             |
| City of Coquitlam    | District of North Vancouver | Tsawwassen First Nation    |
| Corporation of Delta | City of Pitt Meadows        | City of Vancouver          |
| City of Langley      | City of Port Coquitlam      | District of West Vancouver |
| Township of Langley  |                             |                            |

The Director representing Electoral Area A on the Metro Vancouver Regional District is a member of the GVWD Administration Board.

## 6 Glossary and terms

In the DWCP:

**Aesthetic cleaning** – means the use of water for cleaning when it is not for a health or safety reason.

**Aesthetic water feature** – means a fountain, pond, or other water feature that primarily serves an aesthetic purpose. It does not include ponds that contain fish.

**Automatic shut-off device** – means a device attached to a water hose that shuts off the supply of water automatically unless hand pressure is applied to operate the device.

**Automatic vehicle wash system** – includes:

- **Conveyor vehicle wash** – a commercial vehicle washing facility where the customer's vehicle moves through an enclosed conveyance mechanism during the wash.
- **In-bay vehicle wash** – a commercial vehicle washing facility where the customer parks the vehicle inside a bay, and the vehicle remains stationary while a spray mechanism moves over the vehicle to clean it.

**Basic wash and rinse cycle** – means a process sequence in an automatic vehicle wash system that consists of a single wash stage followed by a single rinse stage and no additional processes or optional stages; typically this is the minimum level of service that a customer can select, where total water usage is less than 200 litres per vehicle.

**Board** – means the Administration Board of the GVWD.

**Commercial cleaning operation** – means a company, partnership, or person that offers commercial cleaning services, including pressure washing, window cleaning, and other similar building cleaning services, to the public for a fee.

**Commercial vehicle washing** – means commercial vehicle washing services offered to the public for a fee, but excludes car dealerships, fleet vehicle washing facilities, and charity car washes.

**Drip Irrigation** – means an irrigation system that delivers water directly to the root zone of the plant at a low flow rate through individual emission points (emitters) using droplets of water and excludes sprinkler irrigation systems, micro-spray systems, misting systems, and soaker hoses.

**Edible plant** – means a plant grown for the purpose of human consumption.

**European Chafer Beetle** – means an invasive insect pest whose larvae feed on the roots of grasses, causing serious damage to lawns. The Chafer Beetle larvae can be treated naturally using nematodes, which typically requires a moist lawn for a period of 2 to 3 weeks from the day of application.

**Flushing water main** – discharging water from a water main for routine maintenance such as water quality management and measurement of firefighting flow capacity.

**Golf course** – means the greens, tee areas, and fairways that are designed and maintained as playing surfaces for golf, but does not include rough areas or lawns that are not maintained as playing surfaces.

**Governments/Schools/Parks** – includes property zoned for local government, provincial, or federal uses including road rights of way, and school, college, and university uses.

**GVWD** – means the Greater Vancouver Water District.

**GVWD Commissioner** – the person that the Administration Board of the GVWD appoints as its Commissioner.

**Hand wash and self-service facility** – a commercial vehicle washing facility where the facility’s staff wash the customer’s vehicle, or the customer wash their own vehicles with spray wands and brushes.

**Health and safety reason** – means a precaution necessary to protect health and safety, including the removal of contaminants, bodily fluids, slip and fall hazards, controlling pests, and suppressing and controlling dust.

**Impermeable surface** – means a material added to the surface of the ground, or on the exterior of a building or structure that is impermeable to water, including but not limited to glass, wood, concrete, asphalt, paving stones, and other similar materials.

**Lawn** – means a cultivated area surrounding or adjacent to a building that is covered by grass, turf, or a ground cover plant such as clover, including areas such as boulevards, parks, school yards and cemeteries, but excluding golf courses, soil-based playing fields, and sand-based playing fields.

**Local government** – means the local government members of the GVWD.

**New lawn** – means a lawn that is newly established either by seeding or the laying of new sod or turf.

**Non-residential** – includes properties zoned for a permitted use other than a residential use, including commercial, industrial, and institutional uses, and including a property zoned for mixed residential and non-residential uses, but excluding governments/schools/parks.

**Non-residential pool and hot tub** – means a pool or hot tub permitted to be operated in accordance with health authorities having jurisdiction over pool and hot tub regulation, including pools and hot tubs operated by government agencies, hotels, multi-family strata corporations, and private clubs.

**Odd-numbered civic address or Even-numbered civic address** – means the numerical portion of the street address of a property, and in the case of multi-unit commercial or residential complex such as townhouses, condominiums or other strata-titled properties, means the numerical portion of the street address that is assigned to the entire complex, and not the individual unit number.

**Over-seeded** – means the application of grass seed on existing turf, typically in early fall or spring and may also include associated processes such as aeration, weeding, dethatching and fertilization, for the purpose of mitigating against grass thinning.

**Residential** – means a property zoned for single-family or multi-family residential use.

**Residential pool and hot tub** – means a residential pool or hot tub installed for the use of the occupants and guests of one single family dwelling or duplex and does not require a permit in accordance with health authorities having jurisdiction over pool and hot tub regulation.

**Sand-based playing field** – means a playing field that is constructed with a highly permeable sand-based root zone typically 30 to 40 centimetres deep over a drainage system with drain pipes bedded in gravel, and is designed and maintained to be playable year-round.

**Soaker hose** – means a garden hose or pipe with small holes that allow water to seep into the ground, to the roots of plants, discharging water through the entire length of its porous surface.

**Soil-based playing field** – means a playing field that is covered with grass, sod or turf that is designed and maintained to be played upon, or that is used for sporting or other community events and activities, but does not include lawns, golf courses, or sand-based playing fields.

**Vehicle** – a device in, on or by which a person or item is or may be transported or drawn on a highway or other roadway.

**Water management plan** – a plan proposed by the owner or operator of a golf course, soil-based playing field, and sand-based playing field operators and approved by the local government having jurisdiction. The plan sets out terms such as water use targets during the different stages of the DWCP, restrictions to reduce water use, and reporting requirements for the owner or operator.

**Water play park** – a recreational facility that is primarily outdoors, including spray pools and wading pools, spray parks, splash pads, and water slides.

**Watering lawn** – means applying water to a lawn with any device or tool including but not limited to a sprinkler, hose, mister, or drip irrigation.