



- Water shortage actions are placed on above chart in relation to each other to reflect in which situations it might be appropriate to take each action. The scale and position are directional and is illustrated as guidance and for consideration only.
- Note: System Repair / Enhancement actions should be taken on an as needed basis (both preventatively and in response to an emergency)

# **Key Contacts**

24/7 EMCR Emergency Coordination Centre

Tel: 1-800-663-3456

**EMCR (XXX) PREOC Operations Section** 

Tel: (XXX) XXX-XXXX

Email: XXX.OPS1@gov.bc.ca

**Regional Health Authority Drinking Water Officer** 

Tel: (XXX) XXX-XXXX

Email: XXX@XXX.ca

### Resources

**Emergency Info BC** 

Webpage: EmergencyInfoBC.ca

**British Columbia Drought Information Portal** 

Webpage: arcg.is/1WffXj

**BC** Drought information webpage

Webpage:

https://www2.gov.bc.ca/gov/content/environment/ air-land-water/water/drought-flooding-dikes-dams



### **Community Actions**

### Consider activating...

- When a water shortage emergency is
- In advance of taking legislative action
- In combination with legislative action

#### Consider...

**Actions** 

Community

Logistics Options

Local water

- ✓ Equity towards and perception by groups impacted by municipal actions
- ✓ Cost, lead time, and resources required to implement the action
- ✓ Appropriate consultation of potentially impacted groups

#### **Potential actions**

Consider activating...

Consider...

✓ Lead time

✓ Criticality of asset

✓ Stock availability

**Potential actions** 

□ Procurement

■ Storage

□ Determine stock level

shortage emergency

On an as-needed basis

✓ Complexity of system required

✓ Availability of key personnel to install/repair

■ Assess repair and/or enhancement options

Following are dependent on having appropriate established infrastructure + policy framework

- ☐ Increase frequency of meter reading ☐ Minimize evaporation by installing pool covers at municipal pools
- ☐ Slow flows by reducing water pressure to minimum allowed levels
- ☐ Convert public water uses to reclaimed waste water unless for critical health and safety reasons

· Proactively in anticipation to a water

System Repair / Enhancement

## **Public Information and Community Policies**

### Consider activating...

- · When a water shortage emergency is anticipated
- In advance of taking legislative action
- In combination with legislative action

#### Consider...

Policy Options

- ✓ Equity towards and perception by groups impacted by policies and use restrictions.
- ✓ Provision of sufficient notice and warning before implementing policies or use restrictions
- ✓ Appropriate consultation of potentially impacted groups
- ✓ Drafting policies prior to their need

# **User Restrictions and Legislative**

### Consider activating...

- · Bylaw restrictions when a water shortage emergency is anticipated and in combination with legislative tools during an emergency
- · Legislative tools during an emergency

#### Consider...

- ✓ Equity towards and perception by groups impacted by legislative tools
- ✓ Provision of sufficient notice and warning before enacting legislative tools
- ✓ Appropriate consultation of potentially impacted groups
- ✓ Enforceability of use restrictions
- ✓ Drafting bylaws before water scarcity risk escalates

#### **Potential actions**

**Packaged Water** 

· In response to short term, immediate

In the event of a boiled water advisory

In combination with other logistic options

- Public Information
  - ☐ Distribute information regarding water conservation ☐ Provide conservation guidance based on user group
  - Develop communications and media kits
- Community Policies
  - ☐ Implement voluntary water use reduction policies
  - ☐ Reduce water usage in key governmental departments

#### Potential actions

- User Restrictions through bylaws
  - ☐ Time of use restrictions
  - Type of use restrictions
  - Total water usage restrictions
- Legislative Tools
  - ☐ Emergency Program Act (e.g. declaring a State of Local Emergency)
  - Water Sustainability Act

### **Bulk Water**

# Consider activating...

· In response to anticipated more severe or prolonged, water shortage emergencies

Consider...

## **Mobile Water Treatment Systems**

### Consider activating...

✓ Cost (rent vs. buy)

maintain system

operationalize

✓ Water treatment capacity

- In response to severe, very long-term, or recurring water shortage emergencies
- If there is an available, nearby nonpotable water source that can be treated

✓ Available water source for treatment

✓ Lead time to deliver and set up solution

✓ Local resource capacity to operate and

✓ Complexity of system and resources to

#### Consider...

needs

✓ Setting up contracts in advance

to supplement water supply

- ✓ Cost
- ✓ Packaged water size format
- ✓ Lead time
- √ Stock availability

Consider activating...

- ✓ Expiration date
- ✓ Transportation modality (e.g. land, sea, rail)
- ✓ Vendor location
- ✓ Central storage

**Potential actions** 

□ Transportation

Demobilization

□ Procurement

□ Storage

□ Tracking

Distribution

✓ Community distribution

### Consider...

- ✓ Setting up agreements in advance
- ✓ Lead time and capacity of water source
- ✓ Mutual aid agreements (when seeking) assistance from nearby communities)
- ✓ Seasonality (some communities have) surplus during certain seasons only)
- ✓ Distance between fill and destination site
- ✓ Transportation modality (e.g. land, sea, rail)
- ✓ Licensing requirements for water haulage options
- ✓ Health authority and drinking water officer consultation and authorization
- ✓ Community distribution

## **Potential actions**

- □ Obtain Water Sustainability Act Authorization
- □ Procurement
- □ Transportation
- Testing and Storage Distribution
- □ Tracking
- Demobilization

# **Potential actions**

# ■ Feasibility study

- □ Procurement
- Implementation
- Operations & maintenance Demobilization