

Cleveland Dam Safety Enhancements Program

We want to hear from you

As part of our commitment to make improvements to our public warning system along the Capilano River below the Cleveland Dam we are enhancing our public-facing warning systems in two phases. This spring, we acted on initial feedback from the community and installed public-facing alarms and enhanced our signage. Now we want to hear from you about further improvements to the public warning system.

Take part in public engagement starting May 13 – July 30

We want to hear about your experience along the Capilano River and about your early experience with the alarms that were installed this spring.

- ▶ Watch a video to learn more about the potential options
- 📄 Complete a questionnaire
- 📧 Sign up to the email list to be notified of updates.



LOCATION OF NEW PUBLIC-FACING ALARMS



How we will use your input

We will combine public input with the expertise of third-party engineer consulting firms to inform a long-term public warning system before finalizing the design. We will return for a second phase of engagement to share the final design.

Give us your feedback

Community Liaison: 604-432-6200 (Monday to Friday from 8 am to 4:30 pm)

icentre@metrovancouver.org (Please include 'Cleveland Dam Safety Enhancements Program' in the subject line)

www.metrovancouver.org/clevelanddamsafety

ALARMS
BEING
INSTALLED

CLEVELAND DAM SAFETY ENHANCEMENTS PROGRAM

NORTH VANCOUVER COMMUNITY ADVISORY PANEL

Brian Luk
Project Engineer

Michelle Wong
Community Engagement Coordinator

Steve Billington
Community Liaison

DRAFT 1: June 10, 2021
46200509

AGENDA

Cleveland Dam Public Warning System

1. Project Overview
2. Status of Interim Public Warning System
3. Engagement and Communications
4. Questions

To improve public safety, protect the environment and maintain safe recreation in Capilano River Regional Park, Metro Vancouver is enhancing the public warning system for the Cleveland Dam.



PROGRAM OBJECTIVES

- Enhance public safety
- Provide safe, clean drinking water
- Enable safe recreation
- Integrate best practice
- Deliver on our commitments



CLEVELAND DAM SAFETY ENHANCEMENTS PROGRAM

Engagement Phases

Phase 1 Engagement

Interim Public Warning System

May 2021- July 2021



We are here

Share your views
on Phase 1

Phase 2 Engagement

Long-term Public Warning System

February 2022

PHASE 1 ENGAGEMENT

To inform the design of the long-term public warning system

Metro Vancouver is seeking input on five program topics



1. Park and river user experience



2. Public safety information signs



3. Public alarm system



4. SMS texting system



5. Ongoing communication and education

LONG-TERM PUBLIC WARNING SYSTEM ENHANCEMENTS

Further improvements based on analysis and input



Planned implementation by late 2022

- Incorporating best practices under the Canadian Dam Association (CDA) guidelines
- Optimization of location and speaker configuration
- Automated alarm triggers



Informed by:

- Additional technical analysis
- Feedback on interim measures
- Input on potential new measures

SMS TEXTING SYSTEM

Text alerts during:

- Alarm testing
- Dam-related emergency
- Sign up via:



Metro Vancouver website



QR code on permanent park signs



QR on temporary construction signs during alarm installation



Text JOIN to 604-757-0900 to complete your subscription.

PUBLIC SAFETY SIGNS AND FENCING

DANGER



Dam upstream



Water levels & flow
may change rapidly

DO NOT ENTER



CAUTION



Dam upstream



Water levels & flow
may change rapidly



Slippery surfaces

ACCESS AT YOUR OWN RISK



SIREN WARNING



Siren or flashing lights
mean rapid increase
in river level and flow



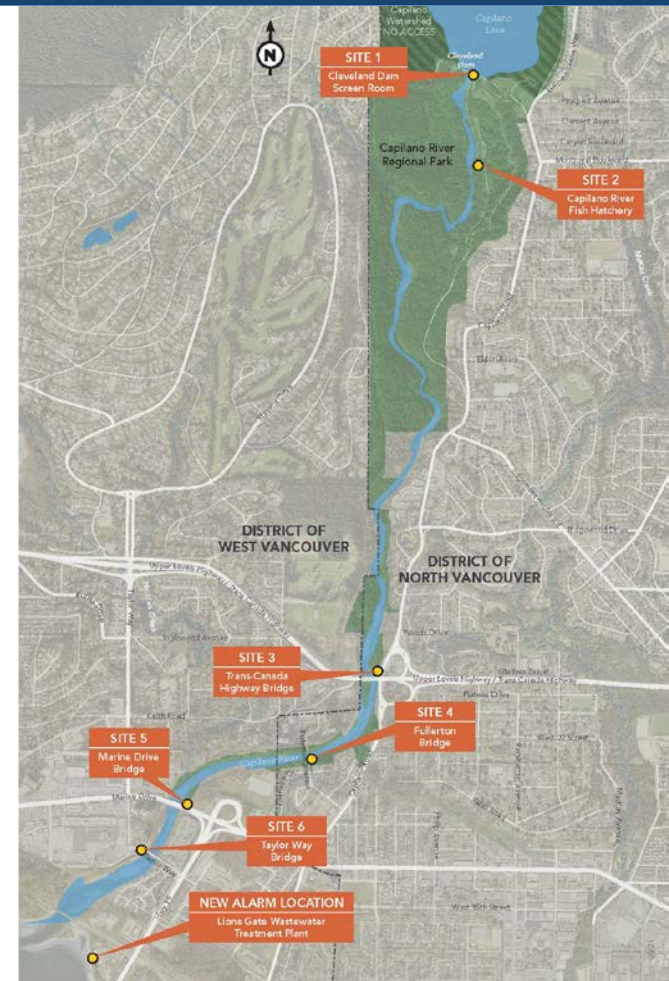
IF AT RIVER, LEAVE IMMEDIATELY



PUBLIC ALARM LOCATIONS

Selection criteria and rationale

- Frequency of public use and public risk
- Topography
- Audibility at points of risk
- Constructability
- Maintenance
- Electrical power
- Radio communication
- Right-of-way
- Minimize nuisance noise



EMERGENCY ALARM TONE – CLEVELAND DAM LOCATION



PUBLIC ALARM SYSTEM DETAILS

- Directional speakers and red strobe lights installed in up to six locations
- Installation height: 10 -12 m
- Embedded concrete base
- Monthly testing



PHASE 1 ENGAGEMENT

To inform the design of the long-term public warning system

Metro Vancouver is seeking input on five program topics



1. Park and river user experience



2. Public safety information signs



3. Public alarm system



4. SMS texting system



5. Ongoing communication and education

PUBLIC COMMENT PERIOD FOR PHASE 1

Share your input May 13, 2021 – July 30, 2021



Complete the online questionnaire
Search '*Cleveland Dam Safety*'



Email: icentre@metrovancover.org
Subject: '*Cleveland Dam Safety*'



Phone: 604-432-6200



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SEYMOUR FALLS DAM

- Complete Cleveland Dam engagement and warning system refinements
- Incorporate lessons learned
- Engagement process to follow





Capilano Reservoir

THANK YOU

metrovancouver
Together we make our region strong