



BC Flood Response - Hatzic Area

April 17, 2023



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Program Overview

- The November 2021 Atmospheric River Event (ARE) caused substantial sediment movement, flooding, and changes in BC's river and creek systems, some of which caused adverse impacts and extensive damage. The Central Region was significantly impacted.
- The Action plan used a Site Assessment and Risk based Approach for the sediment program to evaluate current and potential impacts:
 - Identifying sediment sites as areas of sediment concern
 - Ensuring Qualified Professionals (QP's) visit the sites on a priority basis to capture current information
 - Discuss the sites with communities and stakeholders to gain local and community perspectives/input
 - Prepare a Work Plan and Proposal for government review and approval
- Site work for approved projects includes design, permitting, planning and contracting
- Site work begins once sites are approved and permits are obtained
 - Phase 2 - Emergency Work needs to be completed as soon as possible
 - Phase 3 – Other solutions to be completed following more detailed planning, engineering and approvals
- Funding is provided through federal Disaster Fund and provincial Emergency Fund
 - Ministry of Environment leading a multi-agency process to review and approve work at sediment sites
 - Areas of Concern, clear or mitigation of impacts to communities and infrastructure are highest priority



Objectives of the Sediment Program

The sediment assessments and associated projects are guided by principles to respect local knowledge and follow the recommendations from Qualified Professionals (QP). Below are the three guiding principles for the sediment program.

1

The level of risk / threat to public health and safety, infrastructure, and the environment

The Province’s priority is to respond to or alleviate the effects of the ARE. A process has been established to identify and assess the level of risk / threat and recommend next steps

2

Grounded on recommendations from Qualified Professionals

The judgement of experienced resources leveraged. The process was initiated with a QP assessment to understand the level of risk to public health and safety, infrastructure and environment as defined under the first guiding principle.

3

Developing holistic solutions to address the threats caused by sediment deposits

Addressing the problems created by sediment deposits is complex and multifaceted. Simply removing sediment is not necessarily sustainable or cost effective. As such, creative and holistic solutions are being brought forth to address the identified threats.



Hatzic Emergency Works Program

Project Update

March 2023

2022 - Prioritized Emergency Work

Overview:

- 1) Three sites were selected for emergency works.
- 2) The scope of work generally is to:
 - a) Remove Sediment
 - b) Restore Stream Banks
- 3) The work included supporting engineering work, environmental applications and construction monitoring



Prioritized Emergency Work: Carratt Creek



Before



After

Prioritized Emergency Work: Pattison Creek



Before



After

Prioritized Emergency Work: Davies Creek



Prioritized Emergency Work: Davies Creek



Longer Term Project:

Longer Term Project

Overview:

- 1) There are 12 sites throughout the Valley.
- 2) The scope of work generally is to:
 - a) Remove Sediment
 - b) Restore Stream Banks
 - c) Construct Sediment Basins
- 3) Supporting engineering work, environmental applications and construction monitoring



