

RWC-1024

2023 Inspection



RWIP Offline v7 Coast 1

Retaining Wall Inventory Data

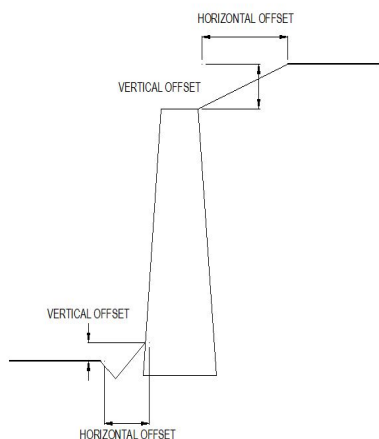
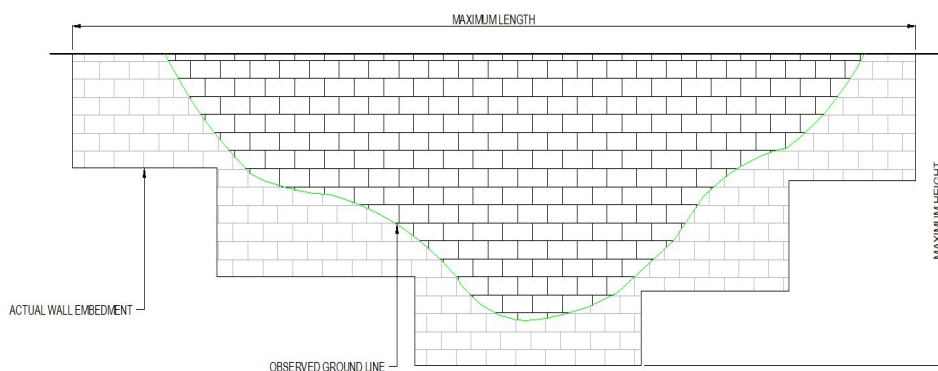
Existing Data

Updated Data

Structure Number	RWC-1024	
User km		2.2
Project File #		
FSR Name		Noorish
District		Chilliwack
Road Responsibility		DCK (Chilliwack)
Design Function		Fill Slope
Design Function Other		Slope stabilization landslide mitigation
Structure Type		MSE
Structure Type Other		Combo soil anchors and soil nails and
Facing Type		Other
Facing Type Other		Spray on shot Crete
Year Installed		2022
Last Inspection		
Design Info Available		Yes
Latitude		49.197234
Longitude		-122.153832

Measurements

Max. Length (m)		64
Max. Height (m)		4.4
Vertical Offset (m)		
Horizontal Offset (m)		
Barrier Length (m)		64
Road Width (m)		



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Excellent	Retaining wall just installed last year and appears to be in excellent shape. Wall is an anchored soldier pile shotcrete retain wall reenforced with grouted DSI hollow bars.
Drainage System	Excellent	Upper culvert which feed into large hoses so the poor pressures don't rise in the land slide. Small drain pipes at the toe of the wall to drain any water that gets in the wall.
Foundation Material	Good	Wall attached to deep micro piles. Some erosion seen at base of wall.
Wall Movement Indicators	Excellent	

Secondary Elements

	Rating	Comments
Surface Drainage	Excellent	Well established ditch.
Road	Excellent	
Lateral Slope	Excellent	Re enforced with soil nails and a mat to prevent erosion.
Upslope	Excellent	
Downslope	Good	Toe of landslide.
Traffic Barrier	Excellent	Concrete barriers.
Signage Delineators	Excellent	No stopping signs.
Vegetation	Yes	

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Retaining Wall Inspection Report

Name of Inspector	Daniel Stein
Inspection Company	Ministry of Forests
Date of Inspection	2023-05-02
Professional Inspection Required	Yes
Overall Wall Condition Rating	Excellent
Failure Consequence	<u>High: Long term loss of road prism or loss of life, no access available.</u>
Road Status	Active

Inspector Summary Comments

Prior to providing comments review previous inspection reports and design/construction information where available.

Well built new wall designed to protect the existing water main. Foundation of wall is on micro piles into the ground below and the lateral pressures are taken care of with horizontal hollow bar soil anchors which have been shotcreted over. Future inspections should look for strain in the rebar plates at the toe of the slope and cracking in the shotcrete to indicate if the landslide is active again. Built in 2022 and still relatively new.

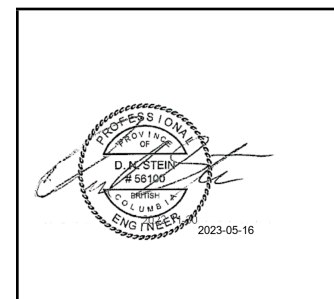
Sketch (Select Signature)

Provide sketch if required.

Inspector's Authentication:

The inspector is responsible for the quality and completeness of the inspection, unless working under direct supervision of a Professional Engineer.

Permit to practice number
(where applicable).



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Monitoring, Maintenance & Repair Recommendations

Monitoring, maintenance and repair recommendations are provided by the inspector and finalized by the reviewing Ministry Engineer.

Monitoring, maintenance and repair items carry forward until completed (refer to previous inspection records).

Maintenance/Repair

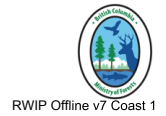
Item	Status	Priority	Description	Ministry Engineer Comment
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
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Ministry Engineer Review

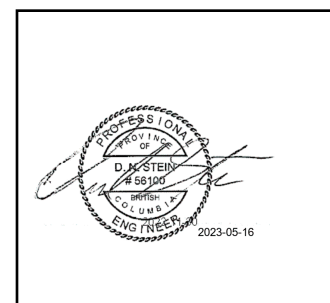
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>3 years</u>
Recommended year of next inspection	<u>2026</u>

Professional Engineer Comments

Wall is newly constructed and appears to be performing as intended and designed.

Professional Engineer's Authentication:

The reviewing Professional Engineer is responsible for the review of the inspection report and any arising recommendations. The undersigned does not warrant or guarantee, nor accept any responsibility for the accuracy or completeness of the inspection or supervision of the inspector. Furthermore, the undersigned does not warrant or guarantee construction record information supplied or created by others not under the undersigned's direct supervision. By authenticating this report, the undersigned accepts responsibility for review of the report and information and recommendations provided by the undersigned.



1003022

Permit to practice number

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Town approach



Wall and culvert outlet diversions



Woods approach



Minor erosion



Culvert inlet



Town side of the wall from woods side

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