

RWC-1011 2023 Inspection

Hunter 4.2km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1011

User km 4.2

Project File # 6086.01

FSR Name Hunter

District Chilliwack

Road Responsibility DCK (Chilliwack)

Design Function Fill Slope

Design Function Other

Structure Type Gravity

MSE

Structure Type Other

Facing Type Stacked Rock

Facing Type Other

Year Installed 2017

Last Inspection 2020

Design Info Available Yes

Latitude 49.330877

Longitude -121.547895

Measurements

Max. Length (m) 40

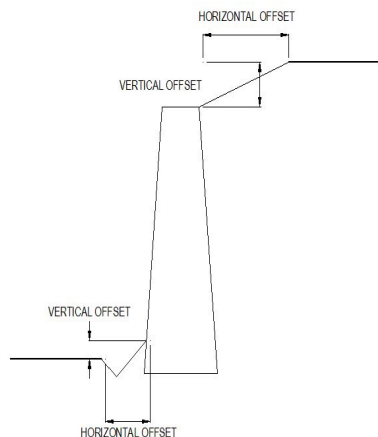
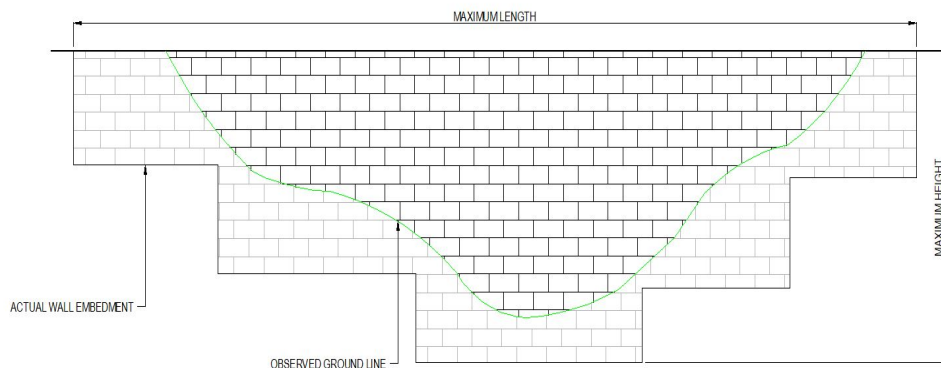
Max. Height (m) 5.5

Vertical Offset (m)

Horizontal Offset (m) 5

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Good	Large rock wall facing intact, #14 rebar dowels look good, geo textile visible and appearing to function as designed. Foundation is a flat terrace and looks fair.
Drainage System	Good	Surface ditch. Rock self draining.
Foundation Material	Good	Flat soil with a terrace, rebar dowels reenforcing. Monitor this if it erodes back.
Wall Movement Indicators	Excellent	

Secondary Elements

	Rating	Comments
Surface Drainage	Good	
Road	Poor	Major rock fall from above. Will need to continually be cleaned up.
Lateral Slope	Good	
Upslope	Poor	Significant rockfall hazard. 2 m diameter boulders.
Downslope	Fair	
Traffic Barrier	Poor	
Signage Delineators	Poor	
Vegetation	Yes	

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Retaining Wall Inspection Report

Name of Inspector	Daniel Stein
Inspection Company	Ministry of Forests
Date of Inspection	2023-05-03
Professional Inspection Required	Yes
Overall Wall Condition Rating	Excellent
Failure Consequence	<u>Moderate: Some loss of road prism intermittent or low exposure of people to constant exposure. May require some wall repair.</u>
Road Status	Active

Inspector Summary Comments

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

High pressure water line above road. Wall is performing well with the foundation not eroding back to the toe of the wall. Significant rock fall hazard above the wall and this should be mitigated if use increases.

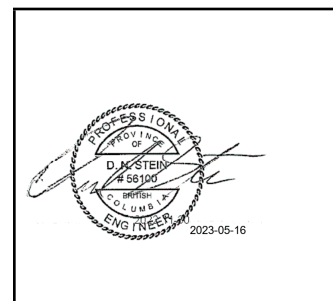
Sketch (Select Signature)

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
1	Suggested	High	Continue cleaning rockfall debris and cleaning ditch.	

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1			

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Ministry Engineer Review

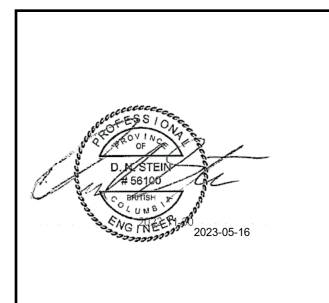
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>3 years</u>
Recommended year of next inspection	<u>2026</u>

Professional Engineer Comments

The main concern for this wall is the observed instability of the upslope and rock falls.

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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From town approach



Wall facing



Upslope rock debris



Geotextile



Approach from woods.



Dowels foundation

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