

RWC-1013 2023 Inspection

Sumas Mountain 4.2km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1013

User km 4.2

Project File # 7634.01

FSR Name Sumas Mountain

District Chilliwack

Road Responsibility DCK (Chilliwack)

Design Function Fill Slope

Design Function Other

Structure Type Gravity

Structure Type Other

Facing Type Concrete Block

Facing Type Other

Year Installed 2008

Last Inspection 2020

Design Info Available Yes

Latitude 49.110624

Longitude -122.143708

Measurements

Max. Length (m) 60

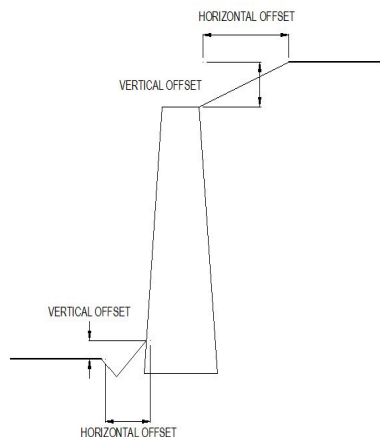
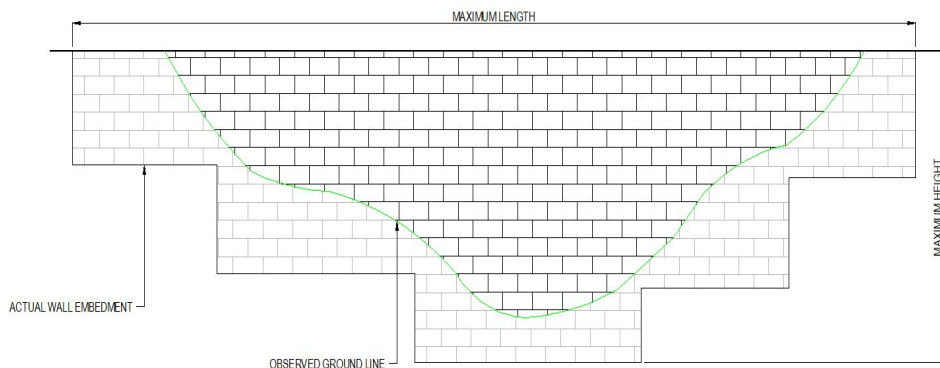
Max. Height (m) 3

Vertical Offset (m)

Horizontal Offset (m) 3

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Good	All in all well performing wall.
Drainage System	Fair	Ditch needs re establishing.
Foundation Material	Good	No settlement observed.
Wall Movement Indicators	Excellent	None observed

Secondary Elements

	Rating	Comments
Surface Drainage	Fair	Ditch needs cleaning from rockfall and general debris.
Road	Good	
Lateral Slope	Good	Rip rap
Upslope	Fair	Rock slope. Evidence of small failure visible.
Downslope	Good	
Traffic Barrier	Poor	Ends and only for portion of wall. Buried by road fill.
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	2023-05-04
Professional Inspection Required	Yes
Overall Wall Condition Rating	Good
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.

4 independent segments of lock blocks with some lateral stabilization elements observed in the gaps (bagged gravel).
No settlement observed. The ditch needs to be cleaned up from a small rock fall.

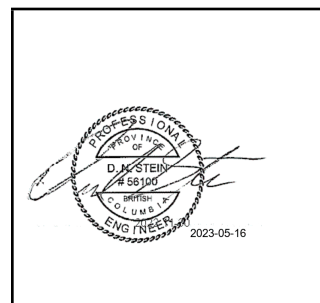
Sketch (Select Signature)

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	Clean ditch	

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1			

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Ministry Engineer Review

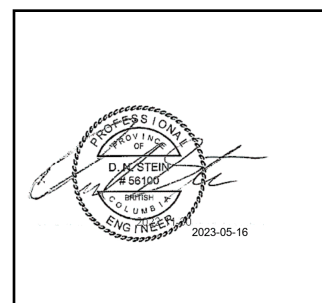
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>3 years</u>
Recommended year of next inspection	<u>2026</u>

Professional Engineer Comments

Wall is all in all in good shape. Some rockfall debris should be cleaned up and the barriers should be repaired such that they function as barriers instead of road fill retaining walls.

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



Town approach, ditch needs work.



Woods lateral slope. Rip rap with Geo fabric



Barrier needs to be re established



Well founded wall



Woods approach, clean rock fall



Geotextile visible in gap

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