RWC-1006 **Garnet 5.11km**

2023 Inspection

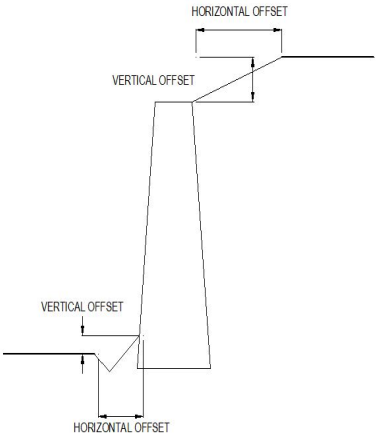
RWIP Offline v7 TEST 2

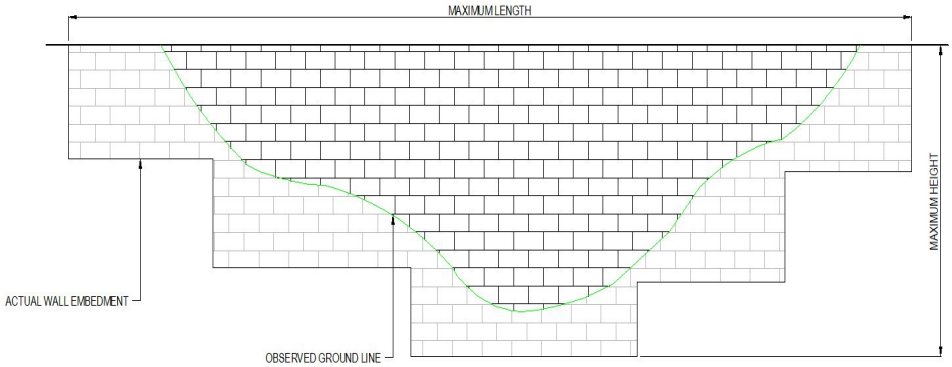
Retaining Wall Inventory Data

	Existing Data	Updated Data
Structure Number	RWC-1006	
User km	5.11	
Project File #	7558.01	
FSR Name	Garnet	
District	Chilliwack	
Road Responsibility	DCK (Chilliwack)	
Design Function	Fill Slope	
Design Function Other		
Structure Type	Reinforced Slope	
Structure Type Other		
Facing Type	Metal	
Facing Type Other		
Year Installed	2017	
Last Inspection	2021	
Design Info Available	Yes	
Latitude	49.393672	
Longitude	-121.609383	

Measurements

Max. Length (m)	10	
Max. Height (m)	1.5	
Vertical Offset (m)		
Horizontal Offset (m)	1.5	
Barrier Length (m)		
Road Width (m)		





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Primary Elements

	Rating	Comments
Retaining Wall Structure	Fair	Wall is performing fair but undercutting of foundation is concerning for long term functionality.
Drainage System	Poor	Surface water caused washout between two walls here.
Foundation Material	Poor	The fill being retained is undercut me could easily erode out the bottom of the wall.
Wall Movement Indicators	Good	The structural elements like the cables and pipes are not in question, but they will have nothing to retain if the fill erodes from under.

Secondary Elements

	Rating	Comments
Surface Drainage	Poor	Small washout.
Road	Fair	Surface erosion leading to washout.
Lateral Slope	Good	
Upslope	Poor	Overhang rock slope. No stopping.
Downslope	Poor	Whatever was keying in the foundation is failed downslope.
Traffic Barrier	Good	
Signage Delineators		
Vegetation	No	

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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	Fair
Failure Consequence	Moderate: Some loss of road prism intermittent or low exposure of people to constant exposure. May require some wall repair.
Road Status	Active

Inspector Summary Comments

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

The only reason this wall wasn't given poor is because with the structural elements in tact and attached to the cut slope, this wall may be able to be repaired without a whole new wall installation. The fill may also be coarse enough that it stays in place however annual inspections are recommended.

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				

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1	1 year	Monitor foundation and check for subsidence.	

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Ministry Engineer Review

Name of Professional Engineer: Daniel Stein P.Eng.

Recommended inspection frequency: 1 year

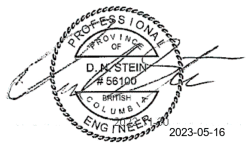
Recommended year of next inspection: 2024

Professional Engineer Comments

Annual inspection recommended due to eroding and overhung foundation

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.



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Permit to practice number

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Town approach

Foundation being undermined with coarse road fill visible.

Camp approach

Wall facing (pipe and cable leash) with steel guard rails

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