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June 15, 2018

GNWT - Department of Infrastructure
P.O. Box 1320
Yellowknife, NT X1A 2P9

Attention: Binay Yadev

File Number MV2017X0019
Type of Operation HWY MAINTENANCE & OPERATIONS
Location NWT Highway No. 1, Km 242.6, Km 241.5 and Km 204.9

Dear Mr. Yadev,

An inspection of the above noted operation was conducted on May 02, 2018 by Resource Management Officers Jayda Robillard and Norm McCowan.

Enclosed is a copy of the Environmental Inspection Report. Please refer to the unacceptable and noted conditions in the general comments section of this report. Your attention to this matter is appreciated.

Please note **prior to the development of the quarry and access road at Hwy 1, Km 204.9 the Permittee must contact the MVLWB to receive authorization as per Condition 1 of the LUP which reads "The Permittee shall not conduct any part of the land-use operation within 300m of any privately owned or leased land or structure, unless otherwise authorized in writing by the Board"**.

If you have any questions, please contact Norm McCowan or myself at 867 874-6994.

Sincerely,

ORIGINAL SIGNED

Jayda Robillard
Resource Management Officer II
Department of Lands
South Slave Region

CC: Mackenzie Valley Land and Water Board
Regional Superintendent, South Slave – GNWT Dept of Lands
Land Use Advisor – GNWT Dept of Lands North Slave



ENVIRONMENTAL INSPECTION REPORT

Permittee:	GNWT - Department of Infrastructure	Permit Expiry Date:	May 14, 2022
Land Use Permit No.	MV2017X0019	Previous Inspection:	October 23, 2017
Quarrying Permit No.	16/08, 17/22,17/23,17/31,18/02, 18/12,18/13,18/15	Inspection Date:	May 02, 2018
Contractor:	Carmacks Enterprises Ltd	Subcontractor:	RBee Aggregate Consulting Ltd, McCaw North Drilling & Blasting, Patterson Sawmill
Location(s) Inspected:	NWT Highway No. 1, Km 242.6, Km 241.5 and Km 204.9		
Current Stage of Operation:	<p>Km 242.6 - Access road built into the quarry, quarry site is being cleared in preparation for the quarrying and crushing operation taking place in the summer.</p> <p>Km 241.5 - Small camp set up in existing quarry.</p> <p>Km 204.9 - Access road and quarry site has been logged.</p>		
Program Modifications Approved:			

Condition of Operation "A" - Acceptable "U" - Unacceptable "N/A" - Not Applicable "N/I" - Not Inspected

Operating Condition	Aspect Inspected		
	Km 242.6	Km 241.5 Camp	Km 204.9
Location as Permitted	A	A	U (1)
Time as Permitted	A	A	A
Equipment as Approved (Type & Size)	A	A	A
Methods & Techniques	A	A	A
Facilities	A	A	N/A
Erosion (Control or Prevention)	A	A	A
Chemicals	A	A	N/A
Wildlife and Fisheries Habitat (Protection)	A	A	A
Wastes	A	A	N/A
Historical / Archaeological Sites	A	A	A
Fuel Storage	A	U (65, 74, 75)	N/A
Brush Disposal	A	N/A	A
Restoration of Lands	A	N/A	A
Permits	A	A	A
Matters not Inconsistent	A	A	A

Explanatory Remarks -

An inspection of this land use operation at Km 242.6, 241.5 and 204.9, NWT Highway No. 1 was conducted by Resource Management Officers Jayda Robillard and Norm McCowan on May 2, 2018. Amanda Vavrek with Carmacks Enterprises Ltd accompanied the Inspectors during the inspection. The inspection was conducted to ensure compliance with the terms and conditions of the land use permit MV2017X0019.



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Km 242.6 Quarry:

A new quarry site is being developed at Hwy 1, Km 242.6. Notification of commencement of the operation was provided by Amanda Vavrek with Carmacks Enterprises Ltd, the contractor running the project. At the time of inspection, the access road has been built into the quarry site. The Inspectors were pleased to see that the road has been doglegged in accordance with Condition 15 of the land use permit. More work is planned to improve the access road and drainage alongside it.

The clearing was logged by Patterson Sawmill and salvageable timber has been decked into four piles on the north side of the area where it will be accessible by the public. A pad for the crusher/stockpile area is being constructed on the north side of the quarry. Overburden in the crusher/stockpile area is being windrowed on the east side of the clearing. Once the pit is depleted and the stockpile area is no longer required, the overburden will be spread back over the site to help foster revegetation.

At the time of inspection, a mulcher owned by RBee Aggregate Consulting Ltd was mulching in the planned quarry area. Once this is completed, the mulch and overburden will be stripped and windrowed on the east side of the quarry. A test blast pattern is being drilled on the north face of the bedrock. Drilling and blasting is being conducted by McCaw North Drilling and Blasting. The test pattern is expected to be blasted in the next couple of days. The cleared quarry area measures approximately 208m x 122m.

Km 241.5 Camp:

A small camp consisting of three self contained RV's, one storage trailer and a 34,000L double walled fuel tank has been set up in an old DOI quarry at Km 241.5. Camp area was clean and organized. The Inspectors did not observe a spill kit on site. Condition 74 requires that spill response equipment is in place to respond to any potential spills. Please ensure that a spill kit is on site. The fuel nozzle for the double walled tank requires some type of containment to prevent fuel from dripping onto the ground.

A D6 dozer and a dump truck were also parked at the camp area. Note that Condition 75 requires that "All equipment that may be parked for two hours or more, shall have a haz-mat/drip tray under it or be sufficiently diapered. Leaky equipment shall be repaired immediately." Please ensure that drip trays are being used at both the quarry and the camp site.

Km 204.9:

A pre-inspection of this site was not conducted due to the Inspectors being away for training. Access road and the quarry site measuring approximately 220m x 161m has been logged by Patterson Sawmill in preparation for quarry and road development. Removal of overburden from the quarry and access has not occurred to date. The Inspectors understand that this work is scheduled to be done in July 2018.

The access road located at 61°08'25.3"N 117°46'19.9"W has a small dogleg and salvageable timber has been decked into 6 piles (5 on the north side, 1 on the south side). There was no equipment in this area at the time of inspection. The Inspectors note that the access road was within 300m of a nearby lease. The Inspector advised Alexander Murray, DOI Permittee representative in an email on November 30th that due to the proximity of the proposed quarry site at Km 204.9 to nearby leases (within 300m), they must contact the MVLWB to determine whether an amendment to the LUP was required. To date the Inspectors have not received any documentation or approvals authorizing the development of the quarry and access road.

Prior to the development of the quarry and access road at Hwy 1, Km 204.9 the Permittee must contact the MVLWB to receive authorization as per Condition 1 of the LUP which reads "*The Permittee shall not conduct any part of the land-use operation within 300m of any privately owned or leased land or structure, unless otherwise authorized in writing by the Board*". Please contact

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Tyree Mullaney, Regulatory Specialist with the MVLWB at (867)766-7464 or email at tyree@mvlwb.com.

Representative Signature

Original signed by Jayda Robillard

Inspector's Signature

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Inspection Images:

Figure 1

Km 242.6 - Access Road from Hwy 1 Km 242.6



Figure 2

Km 242.6 -Test blast holes being drilled on north face of the bank.



Figure 3

Km 242.6 -Mulcher working in the area to be quarried.



Figure 4

Facing southwest, the quarry area has been logged and mulched.



Figure 5

Km 242.6 -Overburden is being stripped from the area that the crusher/stockpile pad will be constructed.



Figure 6

Km 242.6 -Salvaged timber has been decked along the north side of the clearing. Overburden is being windrowed along the east side.





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Figure 7
Km 242.6 - Access road and drainage to be improved.



Figure 8
Km 241.5 - Dump truck



Figure 9
Km 241.5 - Camp set up in old quarry.



Figure 10
Km 241.5 - D6 Cat



Figure 11
Km 241.5 - 34,000L Double walled fuel tank.



Figure 12
Km 241.5 - Refuelling nozzle requires containment.





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Figure 13

Km 204.9 - Access road has been logged.



Figure 14

Km 204.9 - Clearing for the quarry has been logged.



Figure 15

Km 204.9 - Salvageable timber has been decked at the north side of the clearing near the access road.

