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October 1, 2018

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

**Attention: Terry Brookes**

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

Dear Mr. Brookes,

An inspection of the above noted operation was conducted on September 19, 2018 by Resource Management Officers Norm McCowan and Jayda Robillard.

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.

If you have any questions, please contact me at 867 874-6994.

Sincerely,

Norm McCowan  
Resource Management Officer III  
Department of Lands  
South Slave Region

CC: Mackenzie Valley Land and Water Board  
Derise Rehm-Lepine, Regional Superintendent South Slave – GNWT Dept of Lands  
Charlene Coe, Land Use Advisor North Slave – GNWT Dept of Lands



## ENVIRONMENTAL INSPECTION REPORT

<b>Permittee:</b>	GNWT - Department of Infrastructure	<b>Permit Expiry Date:</b>	May 14, 2022
<b>Land Use Permit No.</b>	MV2017X0019	<b>Previous Inspection:</b>	June 26, 2018
<b>Quarrying Permit No.</b>	16/08, 17/22,17/23,17/31,18/02, 18/12,18/13,18/15	<b>Inspection Date:</b>	September 19, 2018
<b>Contractor:</b>	Carmacks Enterprises Ltd.	<b>Subcontractor:</b>	RBee Aggregate Consulting Ltd.
<b>Location(s) Inspected:</b>	NWT Highway No. 1, Km 242.6 quarry and Km 241.5 Camp		
<b>Current Stage of Operation:</b>	Contractor was setting up additional conveyors for the crushing operation at Km 242.6.		
<b>Program Modifications Approved:</b>			

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

Operating Condition	Aspect Inspected			
	Km 242.6 Quarry	Km 241.5 Camp		
Location as Permitted	A	A		
Time as Permitted	A	A		
Equipment as Approved (Type & Size)	A	A		
Methods & Techniques	A	N/A		
Facilities	A	A		
Erosion (Control or Prevention)	A	A		
Chemicals	A	A		
Wildlife and Fisheries Habitat (Protection)	U (51)	A		
Wastes	A	A		
Historical / Archaeological Sites	A	A		
Fuel Storage	U (65, 76)	U (76)		
Brush Disposal	A	N/A		
Restoration of Lands	A	N/A		
Permits	A	N/A		
Matters not Inconsistent	A	A		

Explanatory Remarks -

**Km 242.6 Quarry:**

During the inspection the Inspectors met with Amanda Vavreks (Carmacks Construction) and Glenn (RBee Aggregate) to discuss the work to date, tour the site and discuss the work planned going forward. The access road to the quarry site was in excellent condition. The Contractor has built a gravel pad approximately 2ha in size to be used for the crushing operation and stockpiling material. Approximately 2/3 of the material (67,000m<sup>3</sup>) from the first 2 blasts in Block 1 has been deemed unsuitable for the roadwork construction. This material has been used for the gravel pad and the access road construction. The Inspector



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finds it concerning that test logs for Block 1 were not supplied by the Department of Infrastructure to the Contractor prior to the first 2 blasts being conducted. Test logs indicate the type of material in the blocks as well as the depth of each type of material. Vertical location of the specific material type is important in determining the drilling depth for a deposit. Test logs also indicate whether the granular material is durable and sound, therefore whether the granular deposit has material that will meet the specifications required for the contract. Less clearing would have been required and less wastage of the granular resource would have occurred if the Department of Infrastructure supplied the test logs to their Contractor in a timely fashion. It is recommended that going forward, all relevant information (test logs) be supplied to Contractors to reduce the wastage of granular resources and reduce the amount of habitat damage cause by large clearings which are unnecessary (**Condition 51 - Habitat Damage**). Test log data is critical information for quarry development. For any new development of granular resources, authorization to commence operations by the Department of Lands will not be granted until:

- **The test log data is provided in the quarry operations plan, and**
- **The test log data is shared with the contractor.**

A large area in Block 2 has been cleared in preparation for drilling and blasting. Overburden was cleared the night before the inspection and is being stored on the far east side of the clearing. The Contractor will be contouring the overburden pile and mulching a CAT blade width between the pile and the standing timber. Test logs provided after the initial blasts indicate that granular material in Block 2 is expected to be suitable for the roadway construction. Drilling and blasting in Block 2 was expected to begin on Thursday September 20th.

At the time of the inspection, additional conveyors were being connected to the crusher system in the clearing. The crusher arrived on site approximately 10 days prior and is expected to crush approximately 6000m<sup>3</sup>/day once the additional set up is completed. There are two double walled fuel tanks on site, 34,000L and 25,000L. Spill kits are available and containment has been provided for the fuel nozzles to prevent contamination from residual fuel in the nozzle. There were a few small spills noted around the fuel tanks which require cleanup (**Condition 76 - Clean Up Spills**). Secondary containment is required when refueling equipment (**Condition 65 - Fuel Containment**), a drip tray under the fuel nozzle when refueling would suffice. The noted deficiencies were minor in nature and were discussed with the Contractor on site. The Contractor advised that the fuel related issues would be addressed shortly. A large garbage bin has been placed on site in accordance with **Condition 54** and a portapotty is being used in accordance with **Condition 56**. A trailer is being used as a mobile lab to test rock and crush to determine if it meets contract specifications. Drip trays are being used under equipment that is parked in accordance with **Condition 75**. Overall the site is clean of garbage and organized. The crushing operation is expected to be complete in November 2018.

### **Km 241.5 Camp:**

Workers from the crushing operation have a camp of consisting of holiday campers at Km 241.5. Approximately 14 people are staying at this location. Camper units are self contained and a truck trailer containing a generator is being used as a power source.

A small spill was observed under the generator and requires cleanup in accordance with **Condition 76**. The spill that was identified in the previous inspection caused by the leaking mulcher has not been cleaned up. All contaminated soil must be removed and taken to an

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authorized disposal facility (**Condition 76**). The mulcher along with the scattered drip trays noted in the previous inspection have been removed from the camp area.

\_\_\_\_\_  
Representative Signature

  
\_\_\_\_\_  
Inspector's Signature



# ENVIRONMENTAL INSPECTION REPORT

Inspection Images:

**Figure 1**

Facing east, overburden has been piled on the east side of the clearing. Blasted rock from Block 1 that was unsuitable is seen on the left side of the photo.



**Figure 2**

Overburden cleared from the top bench (Block 2) will be contoured.



**Figure 3**

Area one CAT blade width between the overburden stockpile and the standing timber will be mulched.



**Figure 4**

Drip tray being used beneath a drill on the top bench.



**Figure 5**

Pillar and stockpile of Block 1 material. Crushing operation is in the background.



**Figure 6**

Equipment lined up along the north edge of the clearing.





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**Figure 7**

Approximately 1000m<sup>3</sup> of test crush is stockpiled on the west side of the clearing. The material will be used for a gravel pad.



**Figure 8**



**Figure 9**



**Figure 10**



**Figure 11**



**Figure 12**

Conveyor system being set up for the crushing operation.





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**Figure 13**  
**Weigh scale**



**Figure 14**  
**Fuel tanks, generator, and white lab trailer.**



**Figure 15**  
**White trailer is a lab for testing rock and determine specs of processed material. Cube of freshwater is used for lab tests.**



**Figure 16**  
**Small spill next to fuel tank.**



**Figure 17**  
**Small spill next to fuel tank.**



**Figure 18**  
**Garbage bin and porta pottys.**





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**Figure 19**  
Spill kit in the yellow drum.



**Figure 20**  
Screens used for crusher system.



**Figure 21**  
Camp - Hydraulic oil spill from the mulcher has not been cleaned up.



**Figure 22**  
Camp - Spill under the generator trailer must be cleaned up.



**Figure 23**  
Camp - generator trailer



**Figure 24**  
Camp - Propane tank







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**Figure 25**

**Camp - Travel trailers are being used by the contractors.**

