



SCHEDULE C

(Waters Regulations Subsection 5(1))

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL OF LICENCE

APPLICATION/LICENCE NO: New Application
(amendment or renewal only)

1. NAME AND MAILING ADDRESS OF APPLICANT

David B. MacDonald, Government of Northwest Territories, Department of Infrastructure
PO Box 1320, 5015-49 Street, Yellowknife, Northwest Territories, X1A 2L9

Application submitted by Jessica Parker, Wood Environment & Infrastructure Solutions on behalf of the GNWT
5681 - 70 Street; Edmonton, AB T6B 3P6

TELEPHONE: (867) 767-9086 (GNWT) FAX: (867) 873-0288 (GNWT)
(780) 436-2152 (Wood) (780) 436-2152 (Wood)

2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED

Same as above

TELEPHONE: _____ FAX: _____

3. LOCATION OF UNDERTAKING

Gunghi Creek, approximately 14 km south of Tuktoyaktuk, Northwest Territories

Latitude: 69°20'37.957" Longitude: -133°2'17.542"

4. DESCRIPTION OF UNDERTAKING (describe and attach plans)

Replacement of the existing 2000 mm diameter by 38 m long CSP culvert with a 7518 mm span by 3500 mm rise by 38.966 m long open bottom concrete arch bridge. Works will include channel bed restoration through the new bridge and an on-site detour (ice road, snow fill) to bypass traffic. All works will be conducted within the existing highway right-of-way. For more information see Section 2.0 of the attached report "Water Licence Application, Project Description Report - Gunghi Creek Crossing Replacement".

5. TYPE OF UNDERTAKING

- | | |
|----------------------------|-----------------------------------|
| 1. Industrial <u> X </u> | 2. Mining and Milling _____ |
| 3. Municipal _____ | 4. Power _____ |
| 5. Agriculture _____ | 6. Conservation _____ |
| 7. Recreation _____ | 8. Miscellaneous (describe) _____ |

6. WATER USE

_____ To Obtain Water

_____ Flood Control

 X To cross a watercourse

_____ To divert water

 X To modify the bed or bank of a watercourse

_____ To alter the flow of, or store, water

Other (describe)

7. QUANTITY OF WATER INVOLVED (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

No direct use/withdrawal of water is required for the project. For more information Section 6.0 of the attached report "Water Licence Application, Project Description Report - Gunghi Creek Crossing Replacement".

8. WASTE DEPOSITED (quantity, quality, treatment and disposal)

Waste potentially generated during the project includes: sediment, sewage, solid and hazardous waste (eg., fuels, oils, batteries and lubricants). For more information see Section 7.0 of the attached report "Water Licence Application, Project Description Report - Gunghi Creek Crossing Replacement".

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING

(give name, mailing address and location; attach a list if necessary)

Hamlet of Tukoyaktuk or Town of Inuvik waste management facility. For more information see Section 8.0 of the attached report "Water Licence Application, Project Description Report - Gunghi Creek Crossing Replacement".

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION

Predicted environmental effects and proposed mitigation measures are provided in Section 11.0 of the attached report "Water Licence Application, Project Description Report - Gunghi Creek Crossing Replacement".

11. CONTRACTOR AND SUBCONTRACTOR (names, addresses and functions)

Prime Contractor:

Dean S. Smith, Allen Services & Contracting Ltd.

55104 Lamoureux Drive

Sturgeon County, Alberta, T8L 5A8

Crew: 4-10 personnel communte to site daily.

Function: general contractor, construct/decommission bypass detour, remove existing crossing and install new bridge and riprap, re-establish roadway over new structure, install guardrails.

Equipment: 30 ton and 49 ton hydraulic excavator, D9N bulldozer c/w ripper, 50 ton crane, water truck, porta potty, two vibratory compactors, tracked skid steer, Loader, job/emergency shack, two light towers, double walled fuel cube, and two pick up trucks.

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Subcontractor:

Guy Pemberton, Tundra Drilling Ltd.

PO Box 2186

Inuvik, NT X0E 0T0

Crew: 3 personnel communte to site daily.

Function: Drill and install piling. Dill and install thermosyphons holes as required.

Equipment: piling drill rig, 50 ton crane, skid steer, 1-pick-up truck.

12. STUDIES UNDERTAKEN TO DATE (attach list if necessary)

Stantec Consulting Ltd. (2018) Fish Habitat Assessment for Crossing Structure Replacement: NWT Highway 10 at KM 7.5 (Gunghi Creek); and

Wood Environment and Infrastructure Solutions (2019) Detailed Hydrotechnical Report Gunghi Creek Culvert Replacement Km 131.2 Inuvik Tuktoyaktuk Highway (No. 10), Project # EB193003

Several studies were also under between 2009 and 2013 for the initial construction of the Inuvik to Tuktoyaktuk Highway

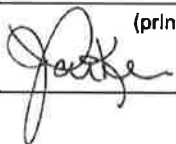
13. PROPOSED TIME SCHEDULE

Start Date: February 15, 2019

Completion Date: April 15, 2019

NAME: Jessica Parker
(print)

TITLE: Environmental Biologist
(print)

SIGNATURE: 

DATE: November 18, 2019

FOR OFFICE USE ONLY

APPLICATION FEE Amount: \$ _____

Receipt N^o.: _____

WATER USE DEPOSIT Amount: \$ _____

Receipt N^o.: _____