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**NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI**

Supplemental Technical Information Required for Water Crossings (linear/bridge/culverts)

1. Waterbody name (English and Inuktitut) and location (Lat & Long)
2. Site photo, site map or air photo detailing location
3. Other Agencies contacted to date
4. Need for the project and alternatives considered
5. General condition of the site (s)
 - i. Slope of banks
 - ii. Description of substrate
 - iii. Vegetation (on banks, in-stream, to be removed)
 - iv. Expected flow rates during time of construction
 - v. Channel meander pattern
6. Existing Habitat
 - i. Fish Community (species/common names) at and near the site
 - ii. Use of impacted are as spawning, nursery, rearing, food supply or migration route
 - iii. Presence of sensitive habitat
 - iv. Assessment of impact to fish and fish habitat
7. Construction Details
 - i. In water work timing restriction for fishery
 - ii. Proposed start date and completion date
 - iii. Type of crossing,
 - iv. Method of installation
 - v. Dimensions of pipe or structure
 - vi. Machinery to be used
 - vii. Construction sequence (timing restriction may need to be taken into account)
 - viii. Sedimentation and erosion control measures
 - ix. Monitoring during construction
 - x. Other mitigation measures
 - xi. Assessment of impact to fish and fish habitat
 - xii. Bank stabilization (size range of material)
 - xiii. Cumulative impacts to area
 - xiv. Contingency plan
 - xv. Revegetation proposed
 - xvi. Proposed post-construction monitoring (photos taken of the site before construction, during construction and after construction; photographs should be taken form the same reference point for easy comparison)
8. Bridge
 - i. Bridge dimensions and type
 - ii. Any structures (abutments, pilings, piers) that will be placed in the water, on a temporary or permanent basis
 - iii. Anticipated changes to the existing channel/shoreline morphology as a result of the proposed works
 - iv. Activities or structures that may cause a temporary or permanent barrier to movement of fish or flow of water
 - v. Cofferdams, dewatering, temporary watercourse diversions, excavation and temporary crossings
 - vi. Total area of impact (m²)
 - vii. Stabilization method and materials used at bridge abutments(include details of material size range)
9. Culvert Installation
 - i. Culvert dimensions (height and width or diameter, length)
 - ii. Culvert type/material
 - iii. Impact to fisheries ability to migrate through the culvert
 - iv. Need to realign the channel?
 - v. Open bottom or natural substrate inside?

- vi. Slope of culvert
- vii. Installation of baffles, rock weirs or other structures