

RETURN BIDS TO:
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Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
800 Burrard Street, 12th floor
800, rue Burrard, 12e étage
Vancouver
British Columbia
V6Z 2V8
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, 12th floor
800, rue Burrard, 12e étage
Vancouver
British C
V6Z 2V8

Title - Sujet Buckinghorse River Erosion Protect.	
Solicitation No. - N° de l'invitation EZ899-130980/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client	Date 2012-08-17
GETS Reference No. - N° de référence de SEAG PW-\$PWY-020-6762	
File No. - N° de dossier PWY-2-35094 (020)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-08-28	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ly, Ronny(PWY)	Buyer Id - Id de l'acheteur pwy020
Telephone No. - N° de téléphone (604) 666-0043 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PWGSC - km 277.6 Alaska Highway, B.C.	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This Amendment 001 (Addendum No. 1) is raised to revise Appendix 1 - Combined Price Form in the original Solicitation Document and provide changes/clarifications in the tender documents.

DELETE in its entirety: Appendix 1 - Combined Price Form (2 pages)

INSERT:

APPENDIX 1 - COMBINED PRICE FORM (2 pages) Revised August 17, 2012

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

UNIT PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

Item No.	Specification Reference	Class of Labour, Plant or Material	Estimated Qty (EQ)	Price per Unit (PU) GST/HST extra	Extended Amount (EQ x PU) GST/HST extra
1	01 29 00	Mobilization	1 Lump Sum	\$	
2	01 35 14	Traffic Control	1 Lump Sum	\$	
3	31 11 00	Access Development and Restoration	1 Lump Sum	\$	
4	31 23 10	Gravel Bar Excavation	1500 m3	\$ _____ Per cubic metre	
5	02 41 13	Interlocking Concrete Block Removal	1 Lump Sum	\$	
6	31 37 10	Riprap Underlayer	35 m3	\$ _____ Per cubic metre	
7	31 37 10	Riprap	530 m3	\$ _____ Per cubic metre	
8	31 37 10	Groyne Underlayer	80 m3	\$ _____ Per cubic metre	
9	31 37 10	Groyne Rock	875 m3	\$ _____ Per cubic metre	
10	32 92 30	Large Woody Debris Grouping	8 each	\$	
11	32 93 21	Hydroseeding	1 Lump Sum	\$	
				Total Bid Amount	

Solicitation No. - N° de l'invitation

EZ899-130980/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

001

File No. - N° du dossier

PWY-2-35094

Buyer ID - Id de l'acheteur

pw020

CCC No./N° CCC - FMS No/ N° VME

Excluding GST/HST

Changes to the original Unit Price Table

- Item 10: Large Woody Debris Grouping is only required for areas between groynes and none is required for downstream. Change Estimated Quantity to 8.
- Item 11: Delete
- Item 12 (revised to item 11): Hydroseed area shall include all areas previously designated for Riparian Planting.

The following changes/clarifications in the tender documents are effective immediately.
This addendum will form part of the contract documents.

Section #	Page	Subsection	Changed to:
Section 01 11 10	Page 1 of 93	1.3.2.8	Habitat compensation including supply and install of Large Woody Debris and Riparian Planting
Section 01 11 10	Page 2 of 93	1.3.2.9	Restoration to pre-construction conditions and Hydroseeding of all disturbed areas (Hydroseeding excludes disturbed areas requiring Riparian Planting). The Contractor shall hydroseed all disturbed areas including areas intended for riparian planting the following year.
Section 01 29 00	Page 10 of 93	1.6.1	Costs for Hydroseeding of areas disturbed from Access Development and Riparian Planting in the areas indicated on the Contract Drawing shall not be included in Site Access (see Item No 1.14 Riparian Planting , 1.15 –Hydroseeding below).
Section 01 29 00	Page 12 of 93	1.14.1	Payment for Riparian Planting will be made on the basis of the Price per Unit Bid for planting of the various riparian tree types in the Bid and Acceptance Form. The Price per Unit Bid shall include all costs for sourcing the materials (including mulch), transport, planting, warranty and maintenance, and all other items necessary for successful completion of the work.
Section 01 29 00	Page 12 of 93	1.14.2	Measurement for Payment for the completion of Riparian Planting will be made on the will be made by the count of Riparian Plants incorporated into the work and accepted by the Department Representative.
Section 01 29 00	Page 12 of 93	1.15.1	Payment for Hydroseeding will be made on the basis of the Price per Unit Bid for Hydroseeding in the Bid and Acceptance Form. The Price per Unit Bid shall include all costs for supply, placement, warranty, and maintenance of the Hydroseeding in all areas disturbed from access development (–Except areas of Riparian Planting).
Section 01 35 43	Page 45 of 93	1.10.9	Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work. Archaeological Overview Assessment of Buckingham River Bridge Dated April 16 2012 (attached) is produced here and shall form part

			of the contract documents. Work must stop and the Departmental Representative informed Immediately if contractor becomes aware of any archaeological artifacts during Construction.
Section 32 93 10	Page 76 to 82	All	Delete entire Section
Section 32 93 21	Page 83 of 93	1.1.1	Hydraulic Seeding requirements for restoration of access development and disturbed areas (excluding areas designated for Riparian Planting).
Photo	Photo	Appendix D	<i>Please Note: Photos are provided for general information only. The requirements for the size, anchoring, and spacing of the Large Woody Debris on this project are superior to the requirements for the Large Woody Debris of the project shown.</i>

All other terms and conditions remain unchanged.

End of Addendum No. 1



Archaeological Overview Assessment No. 9549

For use by Archaeological Permitting Section only

OGC / ILMB #

1 Administrative Information

1.1 Date	April 16, 2012	1.2 Survey/Plan #	R.024887.001 Revision A
1.3 Report Title	Archaeological Overview Assessment of Buckinghorse River Bridge Km 277 of the Alaska Highway, Erosion Protection Repairs		
1.4 Permit #	N/A	1.5 Author	Melanie Hill
1.6 Proponent	Public Works and Government Services Canada	1.7 Contact	Laurie Crawford

2 Study Area Information

2.1 Study Area (see Figure 1)	<ul style="list-style-type: none"> • Study Area (erosion protection / repairs, total area 0.82 ha.) including: <ul style="list-style-type: none"> • access roads • rock groynes • woody debris groupings • berms, including temporary upstream and downstream berms • riprap • gravel bar excavation 		
2.2 Method of AOA	<input checked="" type="checkbox"/> Orthophoto	<input checked="" type="checkbox"/> HRIA	<input checked="" type="checkbox"/> Trim Data <input checked="" type="checkbox"/> Google Earth
2.3 Borden Block	HiRr	2.4 NTS Map	94-G-07
2.5 Geographic Location	The Study Area is located at the Buckinghorse River Bridge at KM 277 of the Alaska Highway. UTM NAD 83 Coordinates 10N 6360310N 508820E.		
2.6 Comments	This AOA was completed via landscape visualization tools (orthophotos, TRIM data, hillshade information, forest cover data and the Heritage Resource Inventory Application [HRIA]) and our intimate knowledge of the archaeological record and potential of the general area. Areas of interpreted archaeological potential inside and immediately adjacent the Study Area are illustrated in Figure 1. If ground and/or timber altering activities are expected to commence in these areas, an archaeological field reconnaissance may be warranted to verify/assess these areas.		

Previously recorded archaeological site information obtained from HRIA on April 13, 2012

3 Recorded Archaeological Sites Within 5 km (closest five)

Site no.	Type	Direction & distance	Possibility of impact
HiRr-001	Lithic	~115 m to north	Low
HiRr-002	Lithic	~240 m to southeast	Low
HiRr-003	Lithic	~1550 m to northwest	Low

Report Submission Date: Original Submission: 16-Apr-12, Resubmission: N/A

ARCHER CRM Partnership

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4 **Physiography of Study Area**

The Study Area lies along the Alaska Highway corridor at the Buckinghorse River bridge crossing and associated floodplain. The river banks have undergone extensive erosion. In general the surrounding terrain is relatively flat and featureless floodplain. North of the river crossing terrain is relatively flat to gently south sloping. South of the Buckinghorse River crossing and on the west side of the Alaska Highway terrain is typified by a more marked slope to the northeast which becomes more gradual as it approaches the floodplain to the east.

The northwest quadrant of the Study Area is slightly higher than the surrounding area and lies on a relict terrace that has not been susceptible to recent flooding events. The proposed Study Area footprint overlaps with this feature.

5 **Vegetation in Study Area**

The Study Area lies on previously cleared and/or sparsely vegetated terrain. Vegetated areas adjacent to the Study Area primarily contain white spruce (projected ages 64 to 99 years); with lodgepole pine, trembling aspen and balsam spruce (projected ages 69 to 79 years) also present on the south side of the river crossing.

6 **Previous Impacts / Disturbances**

The Study Area is bisected by the Alaska Highway corridor, as well as numerous regional access trails/roads, BC Hydro lines, campgrounds, commercial development and parking areas. The banks around the river have undergone extensive erosion.

7 **Archaeological Potential**

Landscape features, in conjunction with vegetation cover and faunal resources, determined in large part where – and when people could use an area for subsistence (i.e., hunting, plant gathering, fishing), resource extraction (i.e., rock quarries, plant fibers), shelter (i.e., campsites), and travel (i.e., trails, rivers). While vegetation patterns and the distribution of fauna vary with time, terrain features tend to be more stable and therefore more useful in identifying possible areas of preferred past cultural use or significance. A location or area is determined to have archaeological potential if it displays a combination of the following attributes:

- *The location is a defined topographical rise on level terrain, preferentially within 250 m of a wetland (i.e. knolls, eskers, whalebacks);*
- *It is adjacent to a significant change in slope (i.e., terrace edges, valley tops, ridges);*
- *It is well drained and relatively level;*
- *A source of (potable) water lies in close proximity (i.e., lake, stream, mineral seep, seasonal water run, wetland complex) (Plate 1);*
- *It lies on a preferred path of travel between or adjacent to landscape features (i.e., edges of wetlands and terraces, ridge-tops, cols/passes);*
- *It offers a view of wetlands and/or natural game corridors (i.e., gullies, valleys, ridges);*
- *If any of the above conditions may have existed in the past (i.e., abandoned terraces, paleo-drainages), but are not present today;*
- *It is located on the same landscape feature as a known archaeological site, and;*
- *It is an area of old growth lodgepole pine, spruce, and aspen timber (for culturally modified tree [CMT] sites). Culturally-modified tree potential was interpreted as the potential of a forest stand of known or interpreted age to contain scars or modifications made by humans prior to AD 1846. For a forest stand to qualify, it needed to have an average age in excess of 200 years since on average stripping for cambium (the most common CMT type) is made when the tree is 40 years old or younger*

The resultant map displaying the archaeological potential of the landscape within the Study Area is presented in Figure 1. No areas were identified with a likelihood to contain CMT's protected by the *Heritage Conservation Act*

8 **Recommendations**

Our Archaeological Overview Assessment of Buckinghorse River Bridge Km 277 of the Alaska Highway, Erosion Protection Repairs has identified areas that could contain cultural or other archaeological remains. Areas of

Report Submission Date: Original Submission: 16-Apr-12, Resubmission: N/A

interpreted archaeological potential (see Section 7 for criteria) are illustrated in Figure 1. Consideration must be provided for the fact that site locations are unpredictable because of complex variations in temporal, cultural, environmental, geographic and other factors. Recommendations for mitigation of archaeological matters where applicable are as follows:

1. *Should ground and/or timber altering activities be proposed in those areas identified as having a reasonable potential for archaeological remains to be present and/or found, then a field investigation of these areas is recommended. In the majority of instances it can be presumed that existing engineered road works (defined by the outer boundary of excavated ditch back-slopes) possess low to nil archaeological potential, even when adjacent to archaeological sites, unless there is significant potential for an archaeological site to be deeply stratified and hence buried under the roadway or visible in ditch lines.*
2. *It is recommended that an archaeological impact assessment be undertaken if ground and/or timber altering activities are to commence within areas identified as having archaeological potential illustrated in Figure 1 in order to ascertain potential cultural resource management needs.*
3. *All archaeological sites, including those not yet recorded, are protected by the Heritage Conservation Act regardless of level of disturbance unless granted Legacy Status by the Archaeology Branch. It is recommended that the proponent conduct archaeological field investigations where necessary to avoid impact to previously recorded and unrecorded archaeological sites. The archaeological potential map provided in this report is to be used as a guide when identifying the type and intensity of archaeological assessment required prior to the inception of ground and/or timber altering activities in and adjacent to the Study Area.*
4. *Where archaeological potential is deemed low within this AOA and no ground-based archaeological investigations are deemed necessary prior to investigative work being undertaken, it is recommended that the client develop or be in possession of a 'chance-find' due-diligence policy to address accidental discoveries of heritage remains protected by the Heritage Conservation Act. Despite the information presented in this overview assessment, the measure of archaeological potential is relative, not absolute. The possibility remains that cultural material remains may be uncovered in areas identified as possessing low archaeological potential.*

To address the prospect of unanticipated archaeological remains being discovered, it is recommended that the proponent inform its employees and contractors of this possibility. If archaeological materials or other heritage remains are uncovered during construction, work in the area of the find must immediately cease and the Archaeology Branch and/or ARCHER informed. It is recommended that the proponent also promptly inform the relevant First Nations concerning any unanticipated archaeological findings.

It was not the intent of this study to identify, evaluate, or comment on the presence or absence of Aboriginal Rights in the study area. Completion of this study does not "abrogate or derogate from aboriginal treaty rights" (Heritage Conservation Act Sec. 8). The study was conducted without prejudice to First Nations Treaty Negotiations, aboriginal rights or aboriginal title.

Sincerely,



Melanie Hill, BA, RPCA
Permitted Archaeologist

9 References Cited

Subject Report Citation:

ARCHER CRM Partnership
2012 Archaeological Overview Assessment of Buckinghorse River Bridge Km 277 of the Alaska Highway, Erosion Protection Repairs. Consultant file # 9549. Prepared for Public Works and Government Services Canada, Edmonton, AB.

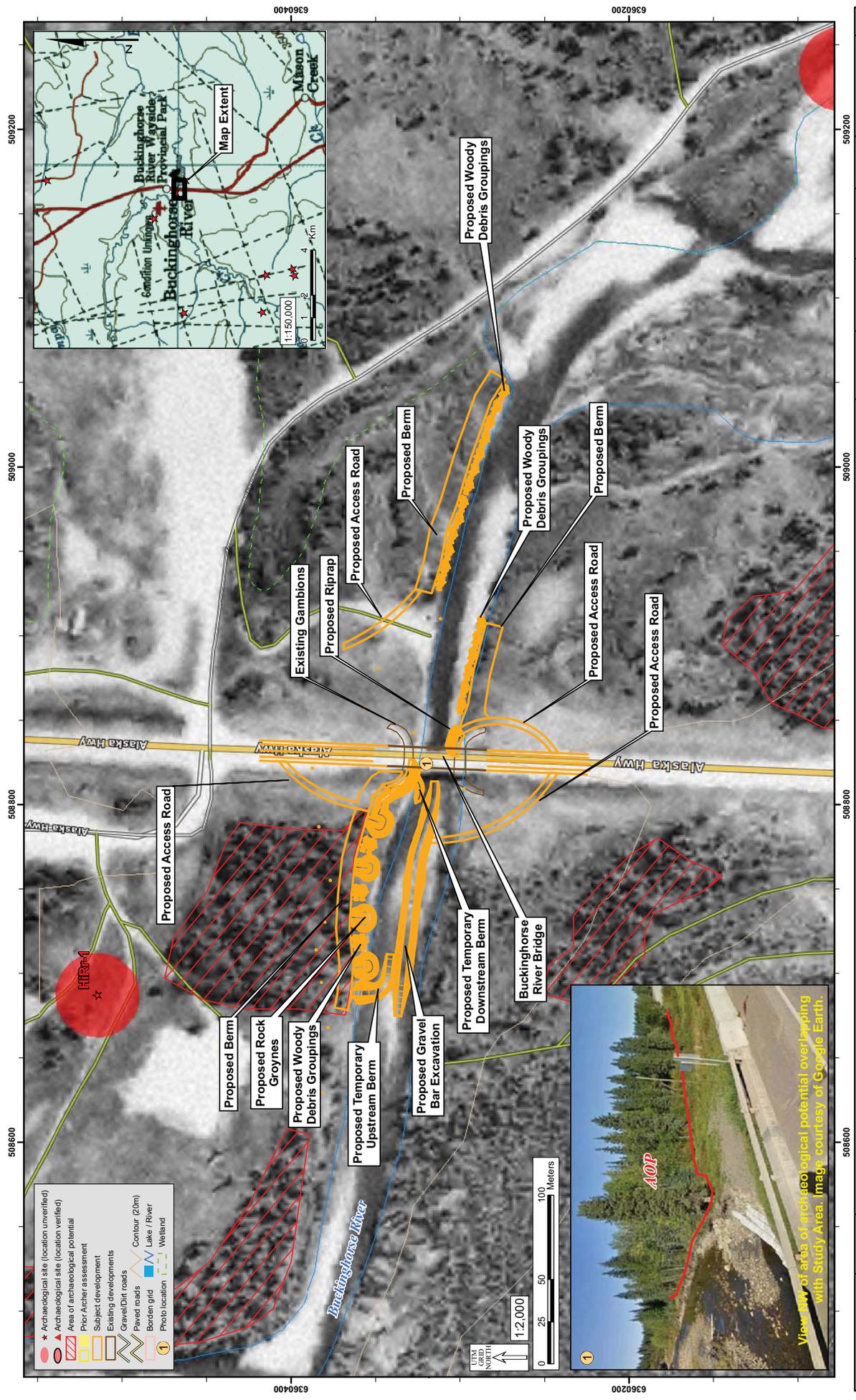
Report Submission Date: Original Submission: 16-Apr-12, Resubmission: N/A

10 Contact

<i>Individual</i>	<i>Association</i>	<i>Phone</i>	<i>Fax</i>	<i>E-mail</i>
Laurie Crawford	Public Works and Government Services Canada	780.497.3892	780.497.3842	Laurie.Crawford@pwgsc-tpsgc.gc.ca

11 Archaeology Branch Information

MAIL: Archaeology Branch Ministry of Forests, Lands and Natural Resource Operations PO Box 9816, Stn Prov Govt Victoria BC, V8W 9W3	LOCATION: #3 - 1250 Quadra Street, Victoria, BC V8W 2K7	CONTACT: Reception (250) 953-3334 Fax (250) 953-3340
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- ★ Archaeological site (location unverified)
- ▲ Archaeological site (location verified)
- ▨ Area of archaeological potential
- ▨ Prior Archer assessment
- ▨ Subject development
- ▨ Existing developments
- ▨ Gravel/Dirt roads
- ▨ Paved roads
- ▨ Border grid
- ▨ Photo location
- ▨ Combur (20m)
- ▨ Lake / River
- ▨ Welland

ARCHER	Figure #: 1	Title: Public Works and Government Services Canada Buckingham River Bridge Km 277 of the Alaska Highway, Erosion Protection Repairs		
	HCA Permit: N/A	Project #: 9549	BCGS: 94G.036	NTS: 94G/07
		Datum/Proj.: NAD83, UTM 10		5