



PROPOSAL

FOR

**THE CHARLIE LAKE ARCHAEOLOGICAL PROJECT,
CHARLIE LAKE, NE BC**

Submitted by:

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NE BC**

Prepared and Submitted by:



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Fort St. John, BC V1J 6H4

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Contact: Julie Cowie

To Whom it May Concern:

Proposal for the Charlie Lake Archaeological Project, Charlie Lake, NE BC

Please find enclosed a document outlining the proposed archaeological research project at Charlie Lake.

The goals of this project are two-fold: to provide an opportunity for First Nations communities, community organizations, local and provincial governments, as well as post-secondary institutions to develop a partnership and a common vision in relation to heritage management, as well as cultural and economic development ; and to foster more in-depth archaeological investigations and innovative research in an region typically lacking detailed and comprehensive analysis, yet contains one of the oldest archaeological sites in our province.

We are currently looking for community partners to support and join us in this worthwhile research project.

Thank you for reviewing our proposal and we look forward to the opportunity to work with you.

Sincerely,

Julie Cowie
Project Manager



Nov 12 2009

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1 TECHNICAL PROPOSAL

1.1 INTRODUCTION

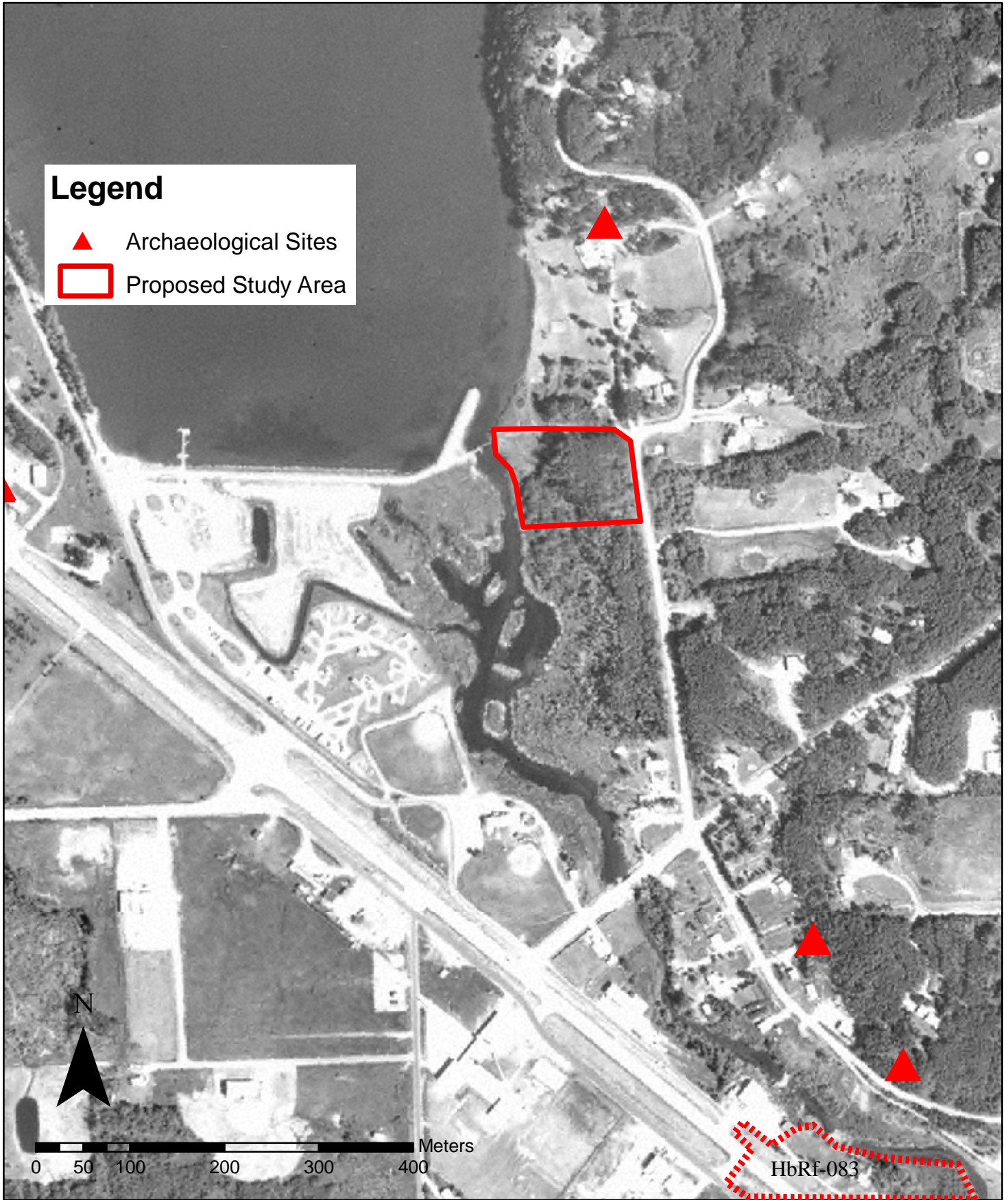
ARCHER CRM Partnership is submitting this proposal in an effort to gather partners for the proposed Charlie Lake Archaeological Project. This section of the proposal outlines the scope, objectives, methods, product and schedule proposed for development of this archaeological inquiry.

1.2 STUDY AREA BACKGROUND

The study area (Figure 1) is located on the east side of Fish Creek, approximately fifty (50) meters from where it drains Charlie Lake. The area of investigation is entirely within the property currently owned by the City of Fort St. John. It is located on a gentle southwest slope that grades into a wetland.

Although it is possible that the study area was habitable just after the ice sheets receded after the last glaciation, approximately 11,500 yrs before present (B.P.), the earliest evidence for human occupation in BC is found at Charlie Lake Cave, HbRf-039. This archaeological site is located on the north side of Fish Creek on sandstone bluffs overlooking wetlands approximately 500 meters to the southwest of our study area. Charlie Lake Cave is a well dated, stratified archaeological site, with a cultural sequence starting approximately 10,500 yrs B.P. and continuing until 1,500 yrs B.P. Investigations there have played an important part in understanding the cultural and environmental history in NE BC since the last glaciation, representing a continuous occupation of NE BC for the last 11,000 years. In addition, Archer's current work at HbRf-2 and HbRf-83 along the highway near the southwest corner of Charlie Lake contained a wet-site component with well-preserved faunal remains, which is rare for archaeological sites in northern BC. The investigation also yielded a wide variety of stone tools and projectile points, furthering the understanding of the archaeological record for the area. It is likely that before modern development within the vicinity of Charlie Lake the area was one continuous archaeological site. As our study area is also located near the wetland and in vicinity of both Charlie Lake Cave and the mouth of Fish Creek, it is likely that intact wet-site archaeological materials remain, such as bone and perishable materials as wood, hide, and basketry. This information can provide a wealth of information about past cultures, land use, and environment.

The study area lies within the traditional territory of the Beaver, Sekani and Cree peoples, particularly those of the Halfway River, Blueberry River, Doig River, Sauteau and West Moberly First Nations. The Beaver and Sekani languages belong to the Athapaskan language group of the Na-Dene language family, and are characterized by many local dialects linked with peoples and places. These groups are collectively known as the Dunne-Za. Traditionally nomadic hunter gatherers, who affiliated with other groups based on kinship ties, the Dunne-Za followed a seasonal round focused on communal game hunting, trapping and plant collection. Kin-based bands based on flexible associations supported one another with small winter groups amalgamating according to seasonal availability of abundance of food resources.



Proposed Charlie Lake Archaeological Project Study Area

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The study area was a significant location within the traditional land use of the Beaver and Sekani peoples. Charlie Lake was named after a Beaver Elder although the lake was also previously known as Fish Lake. The terrain surrounding Charlie Lake was the focus of an important part of the seasonal round. Up until the 1950's and prior to the construction of the modern dam at the end of Charlie Lake and stream control of Fish Creek a major spring spawning run of sucker fish ran out of Charlie Lake to spawn in Fish Creek. It was possible at this time to trap large amounts of these fish. Ethnographic studies have recorded Beaver fishing practices. In spring when certain varieties of fish were migrating to spawn, walls of stone were built out from each shore of smaller streams converging in the centre where a trap was made of poles placed lengthways across the stream. The sucker fish trapped on Fish Creek were partially dried/smoked and provided food to enable later summer trapping and hunting. As our study area lies within the confines of Fish Creek, there is a high probability for fish remains and associated processing materials such as lithics or stone tools, the remains of fish traps or weirs, as well as defined processing areas.

1.3 SCOPE AND OBJECTIVES OF PROPOSED PROJECT

The scope of this investigation entails a detailed excavation over three years, with a majority of the excavation taking place during summer months. There is a possibility of winter excavation in the wetter areas as excavation would be more feasible when the ground is partially or completely frozen.

The objective of this project is to conduct a detailed archaeological investigation with the intention of answering, but is not limited to, the following queries. :

- How important was fishing in the subsistence of the peoples of this area through time?
- Was there an open prairie in the area that can be verified through pollen and phytolith analysis?
- Is there evidence of pre-contact use of fire to modify the environment?
- Is there evidence of additional Beringia bison in this area?
- Does the microblade evidence support an influence or movement of people from the Yukon/Northwest Territories?
- Will lithic evidence help to solidify a regional cultural material chronology and projectile point sequence?

The proposed outcomes of project are outlined in the following:

- Creating Community Partnerships: A goal of this project is to create and foster existing relationships between First Nations communities, heritage-minded community groups, local and provincial government bodies, and post-secondary institutions in regards to heritage management decisions that affect all stakeholders. Not only will this project facilitate positive relations between all parties involved but will reinforce community decision-making and problem-solving capacity. Stakeholders that would not normally interact will have the change to create new relationships that may have future benefits.

- Sharing of Knowledge: The sharing of knowledge, resources, and expertise between all stakeholders will enhance learning opportunities, further building capacity within all stakeholder groups. This knowledge will aid in facilitating discussion and implementing policies that will guide heritage management decisions.
- Research and Education Opportunities: The project will provide additional research opportunities for post-secondary institutions, as well as enhance teaching methods and curricula through information gathered as part of the project. Education and employability for students will be enhanced through participation, allowing them diverse opportunities to build upon their existing knowledge and skills through hands-on research and related experience. The possibility
- Increased Public Awareness of Heritage Values: The excavation will be highly accessible to the general public, allowing for the dissemination of information about the heritage of the area and the importance of its preservation. The antiquity of the area is not generally known throughout the local community and a public project like this allows an ideal opportunity to increase heritage awareness and subsequent protection of those heritage values. Public presentations to both First Nations communities and the general public are planned to allow for maximum distribution of the findings. Also, it is our hope that this project will increase the public knowledge and understanding of First Nations heritage issues with the Peace area through visitation and widespread media coverage.

1.4 PARTNERS

There is high potential for creating and fostering lasting community partnerships during the course of this project. It is our goal to establish long-term relationships between the following partners:

- Treaty 8 Tribal Association and Member Communities (Blueberry River, Doig River, Halfway River, Saulteau, and West Moberly First Nations).
- City of Fort St. John
- Peace River Regional District
- Charlie Lake Conservation Society
- Fort St. John North Peace Museum
- Northern Lights College
- University of Northern British Columbia
- University of Calgary
- British Columbia Ministry of Environment

Additional community partners may be approached to aid in the logistical and material aspects of this project, such as building supplies, equipment, and community donations. It is our goal for the project to be one that has community ownership, with multiple benefits to community partners and the general public.

Once project partners have been identified, roles and responsibilities will be discussed through partnership meetings, which will include such topics as who is in charge of finances, personnel, etc. The management of the project is discussed in more detail in Section 2.

1.5 METHODOLOGY

This section presents an outline of the goals and methods that would be used during the course of this project. The goal of this investigation is to conduct detailed archaeological excavations within the study area, capturing the minute details of the past while providing an avenue for training in archaeological methodology. Methodological detail is presented as deemed necessary to highlight particular strategies that would be used.

Pre-field Assessment

Prior to excavation, examination of orthophotos, topographic information, forest cover information, geological information, site distribution maps, and our personal knowledge of the area will be used to determine the highest potential for archaeological deposits. Background information such as previously recorded archaeological sites, archival information, as well as community and individual knowledge, will be conducted prior to any fieldwork and proper protocol in the collection of that data will be discussed.

The study area will be assessed through detailed subsurface inspections. Methods are as follows:

Sub-surface Inspections: Areas with a potential to contain sub-surface archaeological materials will be assessed with shovel tests measuring approximately 35 cm by 35 cm, excavated to glacial sediments, and/or sediments unlikely to contain *in-situ* cultural materials (i.e., glacial sediments, fluvial deposits). Possible cultural features will be tested in a similar manner, except where a burial may be suspected. The intensity of subsurface testing will be judgmentally determined with tests placed 2 m apart, ground conditions permitting. Testing of features will be restricted to a minimal number that would provide adequate evidence of their anthropogenic origin and internal stratigraphy. Soil types permitting, sediments removed from shovel tests will be passed through portable screens of 1/4" mesh to assist in the recovery of material remains. All tests will be back-filled, and their location and number recorded and mapped with respect to the study area.

Individual excavation units will measure 1 x 1 m, and will be excavated by trowel to glacial sediments and/or sediments unlikely to contain or overlie *in-situ* cultural materials (i.e., fluvial deposits). Excavation will be by natural layers, switching to arbitrary 5 cm layers if a particular natural layer is greater than 5 cm in thickness. Strata that are not cultural material bearing may be shovel-shaved. Exact 3D provenience will be recorded for all stone tools, worked faunal remains and major artifacts recovered *in-situ* relative to a datum represented by one of the corner stakes of the excavation unit. All sediments excavated from each natural layer will be screened through 1/4" (coarse) over 1/8" (fine) mesh to aid in the recovery of material remains. If soil types do not readily screen through 1/8" mesh, then this particular screen size will be dispensed with and floatation samples may be collected to recover fine remains at a later date. The exact

location and distribution of excavation units will be made in accordance with the finite distribution of artifacts and cultural remains, and it is anticipated that all excavation units will be contiguous in the end. The sequence of units excavated will be guided by the need to maximize the recording of stratigraphic information.

Cultural features: All cultural features encountered will be excavated and the extent of cultural sediments mapped. Excavation methods of strata in cultural features will follow that described above for undifferentiated terrain, as will the screening of soils from these strata. Cultural features such as will be mapped at a maximum scale of 1:50.

For all excavation methods, soil profiles, feature drawings and strata floor plans will be prepared, and soil, faunal, floral and possible other samples, will be collected where necessary. Adequately provenienced ¹⁴C samples (if available) will be collected & analyzed. Special attention will be made to intact waterlogged organic deposits to account for the possibility of fish bone and carbonized seeds. Should hearths or other features be encountered where floral remains are likely to be preserved, soil samples will be collected and analyzed. A photographic record of excavations will be maintained, and all excavated areas mapped. The assessment of prior possible impacts related to industrial activity, in relation to the above project and possible future disturbance, will also be determined in accordance with BC Archaeological Impact Assessment Guidelines Appendix 'F'.

Artifact Collection & Analysis: All artifacts recovered from the excavations and possibly surface exposures will be collected. Artifacts are collected for analysis, possible dating, and conservation. Analysis will include, at the minimum, the recording of physical attributes, a comparison to other relevant material assemblages from this and other adjacent, relevant sites, and, where possible, identification of age and function. Participants will also assist in the eventual cataloguing of artifacts recovered, and possibly help compile the report that is to be produced describing the results of the archaeological investigations. Report preparation will be made at ARCHER offices in Fort St. John, BC, and archived in the Fort St. John North Peace Museum.

Site Forms: If archaeological remains are identified, a site inventory form will be completed and submitted to the Archaeology Site Inventory Section concurrently to the completion of the final report. This form will include a map displaying the locations of all subsurface tests and excavation units completed, and contain an abbreviated artifact catalogue summarizing artifacts recovered, a summary of all temporal information obtained (radiocarbon dates, diagnostic artifacts, etc.) and a summary of faunal analyses, if available.

Completion of this assessment during the programme would not “abrogate or derogate from aboriginal treaty rights’ (*Heritage Conservation Act* Sec. 8). The assessment would be conducted without prejudice to First Nations Treaty Negotiations, aboriginal rights or aboriginal title.

1.6 FUNDING POSSIBILITIES

It is our intention to apply for a Social Science and Humanities Research Council (SSHRC) Community-University Research Alliances (CURA) grant. The purpose of this program is to support the creation of alliances between community organizations and post-secondary institutions that, through a process of ongoing collaboration and mutual learning, will foster innovative research, training, and the creation of new knowledge in areas of importance for the social, cultural, or economic development of Canadian communities. Additional information about the grant can be found at http://www.sshrc.ca/site/apply-demande/program_descriptions-descriptions_de_programmes/cura-aruc-eng.aspx. This has the possibility to fund up to \$200,000 annually, with an additional \$20,000 available in the initial start-up phase. A letter of intent must be submitted by October 26, 2009, which must be submitted jointly by all project partners. Once project partners have been identified, the letter of intent will be drafted and submitted to all partners for approval.

In-kind donations of equipment and services from the community, such as screens and trowels, may be accessed for this project.

1.7 PROJECT DELIVERABLES

The final results of the fieldwork component of Part Two will be presented in a report in accordance with a time schedule agreed to by Northern Lights College – Fort St. John Campus. The deliverables will include:

- A public presentation by an archaeologist & a participating First Nation member to the respective First Nation community outlining the results of the excavations and the Programme;
- A report detailing archaeological work that meets or exceeds Archaeology Branch Guidelines;
- Copies of the report, on DVD and/or paper to all community partners and First Nations.
- Recommendations for future work and archaeology-based training opportunities. This may include publication of findings authored by participating First Nation members, identification of other archaeological sites that would be conducive to additional future training, and/or the identification of career tracks for participants interested in pursuing Cultural Resource Management as a career.

The electronic version of the report may also contain the following information:

- ‘raw’ GPS data & GIS information in Arcview format
- ‘raw’ digital photographs
- ‘raw’ video footage

2 MANAGEMENT PROPOSAL

2.1 INTRODUCTION

This section briefly introduces ARCHER and the personnel who may be involved and responsible for successful completion of this Project. It is understood that not all individuals identified in this proposal may necessarily participate in the Project, and that all Confidentiality Agreements will be signed by a Director of ARCHER, binding the Partnership and its employees to the terms of the Agreement.

2.2 SUMMARY OF QUALIFICATIONS

ARCHER CRM Partnership possesses all of the necessary qualifications to ensure the provision of professional archaeological services and the ability to provide basic archaeological methods of inquiry training to First Nation participants. A brief summary of the qualifications of ARCHER include:

- **Key personnel** are registered professional consulting archaeologists (**RPCA**). ARCHER CRM Partnership is a member firm in good standing with **BCAPCA**. Key personnel to be involved in this project are identified below, and in Appendix A of this document.
- **Local comprehensive knowledge** of archaeological remains and sites. The Fort St. John-based Director of ARCHER has worked in the Peace region since 1997, and the company has recorded for protection in excess of 800 archaeological sites in NE BC in that period. Key personnel involved have also successfully recorded, evaluated, and excavated numerous sites in the region. In 2006/07, ARCHER successfully completed over 145 m² of detailed excavations at FIRq-013 near Prince George, a deeply-stratified site with evidence of the second-oldest accurately dated archaeological component in northern BC. Recently ARCHER has concluded its excavation of 175 m² at HbRf-083, a major archaeological site near Charlie Lake with evidence of human occupation dating back over 10,000 years.
- **A corporate dedication to education and community involvement.** ARCHER regularly conducts training seminars for industry, First Nation communities, and stakeholders. We believe that a better knowledge of archaeology and enhanced management practices are critical to ensuring the protection and understanding of archaeological remains and the history behind those remains. ARCHER has received its Certificate of Recognition from ENFORM with regards to safety, and we ensure that our comprehensive safety policies are encompassed in any training.

2.3 PERSONNEL

Listed below are key personnel that may be involved in this project and a description of their roles. Detailed biographies will be found in Appendix 'A' of this proposal.

<i>Personnel</i>	<i>Position</i>	<i>Responsibilities</i>	<i>Years experience</i>	<i>Notes</i>
Remi Farvacque	Director, Principal Archaeologist, Field Director, TUKS facilitator, Instructor	Instruction, Excavation Director	20	RPCA; Previously & actively conducting AIA assessments on behalf of communities in NE BC / NW AB.
Frank Craig	Director, Principal, Archaeologist, Field Director, Instructor	Instruction, Excavation Director	20	RPCA; Previously & actively conducting AIA assessments on behalf of communities throughout BC. Conducted numerous training workshops on heritage management
Aidan Burford	Project Director	Permit holding, Excavation Director	10	RPCA, Permit holder; has conducted numerous AIA within BC
Julie Cowie	Project Manager, Instructor	Project management, community liaison, Instructor	10	B.A.; Previously managed and conducted archaeological, vegetation and wildlife assessments throughout BC; Designed and conducted archaeological training workshops and materials.
Melanie Hill	Project Director	Artifact Cataloguing	11	RPCA; Previously & actively conducting AIA assessments on behalf of communities in NE BC / NW AB.
Sean Moffatt	Senior GIS Technician	Mapping, data management	10	B.A.; Previously and actively provided GIS deliverables on a multitude of projects throughout BC/AB/SASK.

APPENDIX 'A' – Biography of Key ARCHER Staff



Position	Director
Education	1998 M.Sc., Earth Sciences, University of Waterloo, Canada 1992 B.A. Hon., Archaeology, Simon Fraser University, Canada. 1990 Archaeological Field School, Bella Coola, BC
Summary of Experience	<p>Mr. Farvacque has been working in consulting & research archaeology in Canada since 1990, and active in projects in Europe, US, and Polynesia since 1987. As a consultant, he has been responsible for managing large scale oil & gas and forestry projects. In addition, he has been responsible for overseeing the day-to-day operations of Archer's offices. Mr. Farvacque has held in excess of 80 permits for consulting archaeological projects as well as research in BC and NW AB. Prior to Archer, Mr. Farvacque worked as an archaeologist for Parks Canada, various private & public archaeological consulting firms, and as a freelance consultant for other archaeological firms.</p>
Summary of Field and Technical Experience	<p>Implemented successful Research & Development programs aimed at increasing productivity & safety of archaeological field workers.</p> <p>Responsible for leading Archer CRM Partnership to its BC WCB safety Certificate of Recognition (C.O.R.)</p> <p>Proven ability to conduct forestry development archaeological survey, GPS use, and compass and hip chain mapping.</p> <p>Permit application, project management, and report production.</p> <p>Certifications:</p> <ul style="list-style-type: none"> • First Aid Level 1 and Transportation Endorsement • WCB-certified Instructor, ATV Driver Safety Certification. • WCB-certified Instructor, Snowmobile Certification • British Columbia Driver's License, Class 05 • SBFEP Environmental Management System, Level 3a • Resources Inventory Committee (RIC) Instructor • Bear Aware • PITS Light Duty Vehicle Training • H2S Alive • S100 Fire Suppression • WHMIS

Reports and Publications

Numerous consulting reports on file with the BC Archaeology Branch, BC Oil & Gas Commission, Alberta Community Development, and Parks Canada. The following are research-based publications & presentations.

- 2008 *An Early Cordilleran Assemblage from the Nechako-Fraser Basin.* (co-author)
- 2005 *Modeling Reality: A Case study of Overlapping Archaeological Potential Models in NE BC.* (lead author)
- 2005 *Archaeological Field Assessment Under Frozen Ground Conditions: Methods & Results.* (lead author)
- 2002 *Tuchodi-Gatho-Kluachesi Trail Archaeological Inventory Project, Muskwa-Kechika Management Area, NE BC.* (lead author)
- 2001 *Orthophotos and the AOA Process.* (co-author)
- 1998 *From Portage to Dam: The Healy Falls Site, Trent-Severn Waterway Historic Site.* (author)
- 1997 *The Effects of Landscape Change on Woodland Groups and Their Sites, Pukaskwa National Park, NE Lake Superior.* (author)
- 1995 *Faunal and Foral Remains from Two Blackduck Sites.* (author)
- 1994 *Lichenometric Dating of Cobble Beach Features, Pukaskwa National Park.* (author)

Archaeological Impact Assessment, Survey, and Other Relevant Experience

2007 - Present	Director, Archer CRM Partnership
1998 - Present	President, Big Pine Heritage Consulting & Research Ltd., Fort St. John, BC.
2004, 2005	Independent archaeologist. Recording of cave art, Les Eyzies, France.
1998	Independent archaeologist, sub-contract to Fedirchuk, McCullough & Associates, Calgary, AB.
1997	Archaeologist, Traces Archaeological Research & Consulting Ltd., Vanderhoof, BC.
1995 - 1997	Archaeologist, Environment Canada – Parks Canada (Ontario Unit), Cornwall, ON.
1994, 1995	Archaeological technician, Environment Canada – Parks Canada (Ontario Unit), Cornwall, ON.
1994 - 1995	Technician, Environmental Isotopes Laboratories, University of Waterloo, Waterloo, ON.
1993, 1994	Manager, Pukaskwa Paleoenvironmental Project, Pukaskwa National Park, ON. (Archaeological, geological & biological surveys)
1991, 1993	Archaeological technician, University of Delaware Center for Archaeological Research, Wilmington, DE.
1992	Archaeological technician, University of California – Berkley, Moorea, French Polynesia, ON.
1991 - 1992	Technician, Remote Sensing Laboratory, Simon Fraser University, Burnaby, BC.

Archaeological Field Experience by Region & Archaeological Time Period

British Columbia	All areas, except SE BC – Palaeoindian to ‘Historic’. Have worked directly with over 60 First Nation Communities conducting archaeological work.
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Alberta	NW AB - Palaeoindian to 'Historic'.
Yukon	Along BC border – Annie Lake Phase to 'Historic'
Ontario	All areas - Palaeoindian to 'Historic'
United States	Wyoming, Pennsylvania, Delaware, Maryland – Palaeoindian to 'Historic'
French Polynesia	Island of Moorea – Prehistoric
Europe	France (Caves of Bernifal, Combarelles, Rouffignac, and Villars – Paleolithic period), Germany (Augsberg / Wiesbaden – Roman Period)

Experience with Archaeological & Cultural Site Types and Remains

Western Canada	Has recorded numerous archaeological sites in British Columbia & Alberta. Has personal, hands-on field recording experience with cedar, hemlock, balsam spruce, white spruce, aspen/poplar, and lodgepole pine Culturally Modified Trees (CMTs), lodgepole pine message trees, stone tools & lithic scatters (numerous types of lithic materials), complex and deeply stratified sites (shell middens, village sites, seasonal hunting/fishing sites, Aboriginal structures (pit houses, cache pits, cabins), alpine sites & ice patches with cultural remains, pack trails & blazes, trapping features, the respectful treatment of human burials, and non-Aboriginal Historic remains & structures.
Eastern North America	Through various opportunities, he has personal, hands-on field recording experience with white cedar Culturally Modified Trees (CMTs) in Northern Ontario, stone tools & lithic scatters (numerous types of lithic materials), ceramics, complex & deeply stratified sites (shell middens, village sites), pictographs & petroglyphs, Aboriginal structures (longhouses, cache pits, cabins, petroforms, burial mounds), the respectful treatment of human burials, and non-Aboriginal Historic remains & structures.
Oceania / Australiasia	Field recording experience surveying, mapping & documenting complex agricultural systems, prehistoric houses & structures, stone tools, and ceramics. Field recording of shell middens & lithic scatters.
Europe	Field recording experience surveying & mapping complex dry masonry structures, excavating deeply stratified sites, and recording cave art.
Laboratory	Experience handling & cataloguing cultural remains, curating fragile artifacts, accurately counting CMT cores & cross-sections, and preparing human remains for re-burial. Also technical experience extracting C, N, O, and S isotopes for palaeo-environmental analyses. Conducted extensive pollen identification & counting, and identification & speciation of Coleoptera. Residue analysis & material sourcing.

Position	Director
Education	1996 B.A. Anthropology and Archaeology, Okanagan University College – University of British Columbia, Canada 1994 Archaeological Field School, Warwick, England, UBC. 1991 College of New Caledonia, Canada.
Summary of Experience	<p>Mr. Craig has been working in consulting archaeology in British Columbia, particularly the Central Interior since 1994. He has been primarily responsible for the completion of archaeological assessments on forestry and public projects in the region, including the management of large-scale archaeological inventories and excavations. In addition, he is also responsible for the day-to-day operations of Archer's offices. Mr. Craig has held over 30 permits for large scale consulting archaeological projects as well as research within the Northern BC. He has established an excellent rapport with regional stakeholders through his dedication to quality work & strong professional ethics. Mr. Craig frequently conducts cultural heritage awareness training sessions for public & private clients in the Northern Interior.</p> <p>Mr. Craig has had hands-on experience recording Culturally Modified Trees (CMTs), Aboriginal trails, cultural depressions, lithic sites, burials, historic remains (i.e. cabins, trap sets etc.). He actively participates in the training of new employees for our Vanderhoof & Prince George offices.</p>
Summary of Field and Technical Experience	<p>Proven ability to conduct thorough archaeological assessments of numerous development types, competent GPS use & compass and hip chain mapping.</p> <p>Archaeological site location and recording procedures specific to Northern BC.</p> <p>Permit application, project management & report production.</p> <p>Certifications:</p> <ul style="list-style-type: none">• First Aid Level 1 and Transportation Endorsement• WCB ATV Driver Certification• H2S Alive• British Columbia Driver's License, Class 05• SBFEP Environmental Management System, Level 3a• Bear Aware• S100 Fire Suppression• WHMIS & TDG• FAC Certification

Reports and Publications

Numerous (30+) consulting reports on file with the BC Archaeology Branch. Editor for all reports produced by our Vanderhoof, Prince George & Terrace offices. A sample of reports is presented below:

- 2008 *An Early Cordilleran Assemblage from the Nechako-Fraser Basin (co-author SFU University Press)*
- 2008 *Archaeological Investigations at Site FIRq-013 on the Fraser River in Prince George, BC. Permit 2006-416 (co-author, MoT)*
- 2008 *Archaeological Impact Assessments of development activities proposed by the Ministry of Transportation in the Lakes (24) Bulkley Nass (25) and Stikine (28) maintenance Contract Areas, NW BC.*
- 2007 *Archaeological Impact Assessments of Forestry Developments in the Province George BCTS business area, operating in portions of the Headwaters, Prince George and Mackenzie Forest Districts.*
- 2006 *An Archaeological Inventory Study in the Vicinity of Amazay (Duncan) Lake on behalf of the Tse Keh Nay, North-Central BC.*
- 2005 *Recovery of Archaeological Materials Disturbed from Site GgSt-2, Moricetown, BC. (on behalf of the Moricetown Band)*
- 2005 *Evaluative Excavations of Eight Impacted Archaeological Sites in the Vanderhoof Forest District, archaeological sites FhSd-52, FhSd-53, FhSd-54, FhSe-62, FhSe-64, FkSe-44, FkSe-45 & FkSe-47.*
- 2005 *Post-Wildfire Archaeological Evaluation of Two BC Parks Protected Areas in the Vanderhoof Forest District. (co-author, BC Parks)*
- 2004 *Archaeological Inventory Study in the Vicinity of Stern, Justin, Tatin & Hanson Lakes (on behalf of Stellat'en First Nation)*

Archaeological Impact Assessment, Survey & Other Relevant Experience

2007 - Present	Director, Archer CRM Partnership.
2001 - Present	President, Traces Archaeological Research & Consulting Ltd., Vanderhoof, BC.
1999 - 2001	Senior Archaeologist, Arcas Consulting Archaeologists Ltd., Vanderhoof, BC.
1997 - 1999	Archaeologist - Field Director, Traces Archaeological Research & Consulting Ltd., Vanderhoof, BC.
1997	Archaeologist - Field Director, Norcan Consulting Ltd., Prince George, BC.
1994 - 1996	Archaeologist - Technician, Traces Archaeological Research & Consulting Ltd., Vanderhoof, BC.
Summer- 1995	Archaeological Field School teaching assistant - University of British Columbia Field School located at Cheslatta Lake & Hallett Lake, B.C.
Summer-1994	Archaeological Field School teaching assistant - University of British Columbia Field School located at O'Keefe Ranch, Vernon B.C.

Archaeological Field Experience by Region & Archaeological Time Period

British Columbia	Central & North Coastal B.C. - All periods. Has worked directly with numerous First Nation Communities conducting all types of archaeological work along the Highway 16 corridor.
Europe	Central England excavations of a 60 AD Roman Fort & the survey of various medieval ruins.

Experience with Archaeological & Cultural Site Types and Remains

British Columbia	Has recorded in excess of 1000 protected archaeological sites in British Columbia. Has hands-on experience field recording Culturally Modified Trees (CMTs), stone tools & lithic scatters (numerous types of lithic materials), complex and deeply stratified sites (village sites), Aboriginal structures (pit houses, cache pits, cabins), pack trails & blazes, trapping features, the respectful treatment of human burials & human remains, and non-Aboriginal
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	<p>historic remains & structures. Mr. Craig has extensive experience correctly identifying cultural remains. He also has comprehensive experience cataloguing & curating fragile artifacts & accurately counting CMT cores & cross-sections.</p> <p>Has been training new staff at Traces Archaeological Research & Consulting (now Archer CRM Partnership) since 1997.</p>
Europe	Excavation of complex stratified sites, mapping & laboratory analysis of animal remains & cultural artifacts from Neolithic through the Iron Age.

Client References

<i>Mr. Bruce Middleton</i>	RPF Stuart-Nechako BCTS Vanderhoof, B.C.	(250) 567-6363	Bruce.Middleton@gov.bc.ca
<i>Mr. Daryl Nolan</i>	Ministry of Transportation and Infrastructure, Northern Region, Prince George, B.C.	(250) 565-6484	Daryl.Nolan@gov.bc.ca
<i>Beverly Ketlo</i>	Nadleh Whut'en Treaty, Fort Fraser, B.C.	(250) 690-7211	bketlo@xplornet.com



Position	Branch Manager
Education	1999 PG.Dip., Forensic Anthropology, University of Bradford, UK. 1997 B.Sc, Archaeological Sciences, University of Bradford, UK.
Summary of Experience	<p>Mr. Burford has been working since 1997 in consulting archaeology, heritage resource management and forensic archaeology in the UK, Canada and the former Yugoslavia. Mr. Burford has assessed various development types including oil & gas, forestry, subdivisions, and private land concerns in BC & Alberta, and has extensive site excavation experience. Mr. Burford is well versed in all aspects of consulting archaeology and heritage resource management, and is a proven field team leader.</p> <p>Mr. Burford has extensive experience dealing with human remains and burials. In addition, he is well experienced in recording CMTs, aboriginal trails, trap sets, cultural depressions, lithic sites, historic remains (i.e. cabins) and rock art sites, and participates in the training of new employees.</p>
Summary of Field and Technical Experience	<p>Recognized Field Director for Interior & northern regions of BC, NW Alberta. Permit holder for NE BC.</p> <p>Proven ability to conduct forestry development archaeological survey, GPS use, and compass and hip chain mapping.</p> <p>Archaeological site location and recording procedures specific to northern & interior BC.</p> <p>Permit application, project management, and report production.</p> <p>Direction of large-scale excavations (200+ m²)</p> <p>Certifications:</p> <ul style="list-style-type: none"> • First Aid Level 1 and Transportation Endorsement • WCB ATV Driver and Snowmobile Certification • Alberta Driver's License, Class 05 • SBFEP Environmental Management System, Level 3a • Resources Inventory Committee (RIC) Instructor • Bear Aware • PITS Light Duty Vehicle Training • H2S Alive • S100 Fire Suppression • WHMIS

Reports and Publications

Numerous consulting reports on file with the BC Archaeology Branch and Oil & Gas Commission. Editor for all reports produced by Archer Edmonton office.

2008 *An Early Cordilleran Assemblage from the Nechako-Fraser Basin, In Projectile Point Sequences in Northwestern North American. Ed R Carlson & M Magne. Archaeology Press, SFU*

2008 *Archaeological Investigations at Site FIRq-013 on the Fraser River in Prince George, BC. Permit 2006-416*

2009 *Archaeological Excavation at Site HbRf-083, Alaska Highway 97 4-Laning, BC. HCA Permit 2008-0085*

2008 *Archaeological Investigations at Site HbRf-002, Alaska Highway 97 4-Laning, BC. HCA Permit 2008-002*

Archaeological Employment Record

2007 - Present	Branch Manager, Archer CRM Partnership, Edmonton, AB.
2005 - 2006	Branch Manager, Big Pine Heritage Consulting & Research Ltd., Edmonton, AB.
2005	Archaeologist, Altamira Consulting, Edmonton, AB
2003 - 2005	Branch Manager, Big Pine Heritage Consulting & Research Ltd., Fort Nelson, BC.
2003	Senior Forensic Archaeologist for the International Commission for Missing People, Bosnia & Herzegovina
2002	Archaeologist, Alberta Western Heritage, St Albert, AB
2001	Consultant in Forensic Archaeology. United Nations International Criminal Tribunal for the Former Yugoslavia. Bosnia & Herzegovina and Croatia
2000-2001	Assistant Supervisor in Archaeology, Museum of London Archaeological Services, UK
2000	Intern in Forensic Archaeology, United Nations, International Criminal Tribunal for the Former Yugoslavia. Kosovo
2000	Archaeologist, Museum of London Archaeological Services, UK
1998	Archaeologist, Network Archaeology Ltd. UK, West Yorkshire Archaeological Services, UK, Archaeological Project Services, UK
1997	Advanced Wetland Field School, Cardiff University and Flag Fen Archaeological Trust, UK.
1995	Yorkshire Dales Hunter Gatherer Research Project Field School, University of Bradford, UK

Archaeological Field Experience by Region & Archaeological Time Period

British Columbia	NE and Central Interior BC – Palaeoindian to ‘Historic’. Have worked directly with numerous First Nation Communities while conducting archaeological work including providing archaeological excavation training to participants.
Alberta	Northern Alberta - Palaeoindian to ‘Historic’.
UK	All areas, Bronze Age, Iron Age, Roman, Saxon, Medieval, Tudor and 17 th to 19 th Century

Experience with Archaeological & Cultural Site Types and Remains

Western Canada	<p>Has recorded numerous archaeological sites in British Columbia and NW Alberta. Has personal, hands-on field recording experience with white spruce, aspen/poplar, and lodgepole pine Culturally Modified Trees (CMTs), stone tools & lithic scatters (numerous types of lithic materials), complex and deeply stratified sites, Aboriginal structures (pit houses, cache pits, cabins), pack trails & blazes, trapping features, the respectful treatment of human burials & human remains, and non-Aboriginal Historic remains & structures. In the laboratory, has extensive experience handling & cataloguing cultural remains, curating fragile artifacts, and accurately counting CMT cores & cross-sections.</p> <p>Aidan has been training new staff at Big Pine Heritage Consulting & Research Ltd. (now Archer CRM Partnership) since his first year with the company in 2003.</p>
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Archaeological Project Management

2005-2009	Responsible for managing all forestry contracts within the Peace-Liard forestry district. Clients include Fort Nelson BCTS, Canfor and Fort St John BC. Tasks include creating budgets and proposal, fieldwork schedules, primary field-director, reporting and report managing and final permit report production and submission. Currently holds HCA permit 2007-107 for Forestry AIA in the Peace Liard Forest District.
2006-2007	Responsible for managing large-scale excavation at FIRq-013, MoT Simon Fraser Bridge expansion. HCA Permit 2006-416. Tasks included, management of human resources and budget tracking, First Nations liaison, management of excavation fieldwork, report writing and final permit report submission
2008-2009	Responsible for managing large scale MoT contracts within the north east of BC. Task included managing large-scale excavation at HbRf-002 and HbRf-083, HCA Permit 2008-0043 and 2008-0085 (Permit Holder), management of human resources and budget tracking, First Nations liaison, management of excavation fieldwork, report writing and final permit report submission, application for section 12 site alteration permits, monitoring of site alterations, S12 permit report writing, public relations and presentation of results using powerpoint to association of PENG and concerned First Nations.
2008	Responsible for managing large-scale excavation at HeRc-009 carried out in conjunction with Doig River First Nation. HCA Permit 2008-0297 (Permit Holder). Tasks included, management of human resources, First Nations liaison, management of excavation fieldwork, report writing and final permit report submission

Client References

Reid Drummond

Regional Project Manager
Ministry of Transportation and Infrastructure
Kamloops, BC
250-828-4976

Andrew Tyrrell

Planning Forester
Peace-Liard Woodlands
Canfor, Fort St. John
250-787-3665

Jane Calvert

Lands Office Manager
Doig River First Nation
Box 56
Rose Prairie, BC
250-827-3776

Position	Manager, Cultural Heritage Remains
Education	2003 The Banff Centre - Leading Teams for High Performance 1999 B.A. Hon., Anthropology and Archaeology, University of Saskatchewan, Canada 1998 Archaeological Field School, University of Saskatchewan. 1997 B.A., English, University of Saskatchewan, Canada.
Summary of Experience	<p>Ms. Hill has been working in consulting archaeology in western Canada since 1999. She has been primarily responsible for managing large scale oil & gas and forestry projects. Ms. Hill has held numerous permits for consulting archaeological projects as well as research within northeastern BC. Prior to working in BC, her primary focus was on Plains archaeology, participating in large scale archaeological consulting projects in Alberta and Saskatchewan. Currently she manages Archer's contract with the BC Integrated Land Management Bureau, identifying the archaeological requirements of all proposed third party projects and tenure grants on Crown land within BC.</p> <p>Ms. Hill has had hands-on experience recording CMTs, aboriginal trails, trap sets, cultural depressions, lithic sites, burials, historic remains (i.e. cabins) and rock art sites, and participates in the training of new employees.</p>
Summary of Field and Technical Experience	<p>Recognized Field Director for Interior & Northern regions of BC, NW Alberta. Permit holder for NE & Interior BC.</p> <p>Proven ability to conduct forestry development archaeological survey, GPS use, and compass and hip chain mapping.</p> <p>Permitting, project management, report production, & analysis.</p> <p>Certifications:</p> <ul style="list-style-type: none">• WCB ATV Driver and Snowmobile Certification• Driver's License, Class 05• SBFEP Environmental Management System, Level 3a• Resources Inventory Committee (RIC) Instructor• Bear Aware• PITS Light Duty Vehicle Training• H2S Alive• WHMIS• Professional member of the BC Association of Professional Archaeologists
Reports and Publications	<p>Numerous reports on file with the BC Archaeology Branch and Oil & Gas Commission. Editor for all reports produced by Archer offices in Fort St John, Fort Nelson, Edmonton, and Terrace.</p> <p>2002 <i>Tuchodi-Gatho-Kluachesi Trail Archaeological Inventory Project, Muskwa-Kechika Management Area, NE BC.</i></p>

Archaeological Impact Assessment, Survey, and Other Relevant Experience

- 2008 - Present** Manager, Cultural Heritage Remains, Archer CRM Partnership
- 2007 - 2008** Regional Manager, Archer CRM Partnership
- 2004 - 2007** Branch Manager, Big Pine Heritage Consulting & Research Ltd.
- 2000 - 2004** Principal Archaeologist, Big Pine Heritage Consulting & Research Ltd. Responsible for field surveys, excavations, artifact analysis & report writing.
- 1999 - 2000** Archaeologist, Fedirchuk, McCullough & Associates, Calgary, AB. Responsible for field surveys, excavations, artifact analysis & report writing.
- 1998** Student, Archaeological Field School, University of Saskatchewan, Saskatoon, Saskatchewan. Conducted field surveys & excavations at Wanuskewin Heritage Park, Saskatchewan.

Archaeological Field Experience by Region & Archaeological Time Period

- British Columbia** NE and Central Interior BC – Palaeoindian to ‘Historic’. Has worked directly with numerous First Nation Communities conducting archaeological work.
- Alberta** All areas - Palaeoindian to ‘Historic’.
- Saskatchewan** Southern Prairies - Palaeoindian to ‘Historic’.

Experience with Archaeological & Cultural Site Types and Remains

Western Canada Has recorded numerous archaeological sites in British Columbia, Alberta, and Saskatchewan. Has personal, hands-on field recording experience with white spruce, aspen/poplar, and lodgepole pine Culturally Modified Trees (CMTs), stone tools & lithic scatters (numerous types of lithic materials), complex and deeply stratified sites (bison processing and kill sites, village sites), Aboriginal structures (pit houses, cache pits, tipi rings, cabins), pack trails & blazes, trapping features, the respectful treatment of human burials & human remains, and non-Aboriginal Historic remains & structures. In the laboratory, has extensive experience handling & cataloguing cultural remains, curating fragile artifacts, and accurately counting CMT cores & cross-sections.

Melanie has been training new staff at Archer CRM Partnership since her first year with the company in 2000 (then Big Pine Heritage Consulting & Research Ltd.).

Client References

Ross Douglas, A/Section Head, Crown Land Adjudication	Integrated Land Management Bureau	604-586-4429	Ross.Douglas@gov.bc.ca
Paul Albu, Practices Forester	BC Timber Sales	205-262-3339	Paul.Albu@gov.bc.ca



Professional Resume
Sean Moffatt

Position	Geomatics Manager
Education	2003 The Banff Centre - Leading Teams for High Performance 1996 B.A. ERM. Hon., Environment & Resource Management, University of Western Ontario, Canada
Summary of Experience	Mr. Moffatt has been working in the GIS / geomatics field since 1999. He has been primarily responsible for building and maintaining the company's electronic databases, and modeling and mapping client projects. His experience with Geographic Information Systems is extensive, which makes him a key team player on large projects. Mr. Moffatt has worked on major modeling projects involving Canadian Forest Products Ltd., Ministry of Forests, Ministry of Transportation and Infrastructure, BC Hydro and the Muskwa Kechika Management Area of Northeastern BC. He has also completed numerous cartography assignments for Archer clients in many industrial and regulatory sectors, and managed the collection and digitization of TUS information for a large scale Traditional Use Study in NE BC.
Summary of Field and Technical Experience	Mr. Moffatt has participated in numerous forestry and O&G development archaeological surveys in Northeastern BC. He has the proven ability to conduct all associated fieldwork activities including GPS navigation and use, compass and hip chain navigation, archaeological site mapping and safe 4x4 truck, quad and snowmobile operation. Assistant to archaeologists in the field, and acting as liaison to clients & stakeholders. Project management, and report production. Certifications: <ul style="list-style-type: none"> • First Aid Level 1 and Transportation Endorsement • WCB ATV Driver and Snowmobile Certification • British Columbia Driver's License, Class 05 • Bear Aware • PITS Light Duty Vehicle Training • H2S Alive • WHMIS
Reports and Publications	Numerous consulting reports (Interim Letter Reports) on file with the BC Archaeology Branch and Oil & Gas Commission. 2005 <i>Modeling Reality: A Case study of Overlapping Archaeological Potential Models in NE BC.</i> 2001 <i>Sidenius Creek Archaeological Inventory Project: Potential Model</i> 2001 <i>Tommy Lakes Archaeological Inventory Survey: Phase II</i> 2000 <i>Tommy Lakes Archaeological Inventory Survey: Phase I</i>

Archaeological Impact Assessment, Survey, and Other Relevant Experience

2007 - Present	Geomatics Manager, Archer CRM Partnership, Victoria, BC.
2003 - 2006	Geomatics Manager, Big Pine Heritage Consulting & Research Ltd., Fort St. John & Victoria, BC.
2000 - 2003	GIS technician, Big Pine Heritage Consulting & Research Ltd., Fort St. John, BC.
1999-2000	GIS technician, Treaty 8 Tribal Association, Fort St. John, BC.
1998	Survey technician, Water Survey of Canada, Fort St. John, BC

Archaeological Field Experience by Region & Archaeological Time Period

Western Canada	NE BC – Palaeoindian to ‘Historic’. Have worked directly with numerous First Nation Communities conducting archaeological work & Traditional Use Studies.
Alberta	NW AB - Palaeoindian to ‘Historic’.

Experience with Archaeological & Cultural Site Types and Remains

Western Canada	<p>Has assisted in the recording of numerous archaeological sites in British Columbia and Alberta. Has personal, hands-on field recording experience with white spruce, aspen/poplar, and lodgepole pine Culturally Modified Trees (CMTs), stone tools & lithic scatters, Aboriginal structures (cabins), pack trails & blazes, trapping features, human burials, and non-Aboriginal Historic remains & structures.</p> <p>Sean has been responsible for overseeing the development of all GIS staff at Big Pine Heritage Consulting & Research Ltd. (now Archer CRM Partnership) since 2003, and conducting research & development projects towards creating more effective & efficient reporting processes for archaeological assessments.</p>
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Client References

Andrew Tyrrell RFP	Canfor Fort St. John, B.C.	250-787-3665	andrew.tyrrell@canfor.com
Daryl Nolan Manager, Environmental Services	Ministry of Transportation and Infrastructure Northern Region	250-565-6484	Daryl.Nolan@gov.bc.ca

Position	Archaeologist
Education	2002 Field School, Fort Calgary, University of Calgary Field School 1994 Bachelor of Arts (Archaeology Major), University of Calgary
Summary of Experience	<p>Ms. Cowie has a wide range of professional experience in the fields of environmental & archaeological assessment. She has first class analytical, organizational and problem solving skills and is dedicated to maintaining high quality standards.</p> <p>Ms. Cowie has knowledge of lithic and faunal assemblages for British Columbia and Alberta. Additionally, she has in-depth knowledge of traditional use studies, procedures and guidelines, including First Nations' use of flora & fauna for reconstructing past habitats.</p> <p>Ms. Cowie has developed and implemented useful and adaptable database procedures. She has also facilitated digital delivery of both spatial and non-spatial data to RIC Standards.</p> <p>Ms. Cowie has application knowledge of GIS technology, including Arcview 3.2, Microstation, Maps3D, and ArcInfo. She also has working knowledge of ArcMap. She has designed numerous thematic maps using Arcview for use in public and client-based presentations, as well as working-maps for archaeological inventory, wildlife, bioterrain, terrain stability and ecosystem mapping.</p> <p>Ms. Cowie has the knowledge to design and implement relational datasets using Microsoft Access and Excel. She is skilled in the usage of HTML, MS Office (Word, Access, Excel) and Adobe Illustrator.</p>
Summary of Field and Technical Experience	<p>Preliminary field reconnaissance and impact assessments in British Columbia and Alberta, including large-scale excavation projects.</p> <p>Analyses of both lithic and faunal material and subsequent database entry.</p> <p>Organization of lithic and faunal material for submission in to the Alberta Provincial Museum.</p> <p>Input survey data into the proper format for entry in the BC Provincial Heritage Database.</p> <p>Development of datasets for various terrain, wildlife and ecosystem projects.</p> <p>Created and managed digital databases and GIS data for Ecosystem, Level E Terrain, and Wildlife projects.</p> <p>Conducted habitat assessments for deer, elk, black bear and marbled murrelets.</p> <p>Organized and conducted a Culturally Modified Tree survey for Colliery Dam Park, Nanaimo, BC.</p> <p>Developed the 'Discover Archaeology' Interactive Public Education</p>

Program (2002-2009) & has developed a school-based program used to teach children about archaeology.

Certifications:

- RIC Certified: Describing Ecosystems in the Field

Archaeological Impact Assessment, Survey, and Other Relevant Experience

2008-2009	Graphics Specialist and GIS Technician, Dunsmuir Island (DfRw-021), Ladysmith, British Columbia.
2007-2008	VENUS field data entry and polygon database quality assurance, Madrone Environmental Services Ltd., Duncan, British Columbia
2006	Boat Harbour Project, Archaeological Field Assistant, Madrone Environmental Services Ltd., Duncan, British Columbia
2005	Dodds Narrows Project, Volunteer Archaeological Field Assistant, Madrone Environmental Services Ltd., Duncan British Columbia
2004	Transfer Beach Midden Salvage Project, Archaeology Field Assistant, Archaeo Research Limited, Victoria, British Columbia
2004 – Present	Volunteer GIS Technician, Archaeological Field Personnel and GIS Workshop Instructor, Hands On Heritage! Public Archaeology Program, Archaeological Society of BC, Nanaimo Branch
2000 – Present	Executive Board Member (President 2003-2007 & 2008 – 2009), Archaeological Society of BC, Nanaimo Branch
2002	Synthesis of BC Red and Blue Listed Vegetation Species Accounts, Conservative Data Centre, Victoria, British Columbia
1996-2001	GIS and Database Technician / Junior Biologist, Ecologist, Madrone Consultants Ltd., Duncan, British Columbia
1999	Archaeological Field Assistant, Big Pine Heritage Consultants and Research Ltd., Fort St. John, British Columbia
1996	First Nations GAP Analysis, Canadian Cancer Society, Cowichan Branch, Duncan, British Columbia
1994	Lithic Analysis Contract, Head-Smashed-In-Buffalo Jump Project, University of Calgary, Alberta
1992-1994	Archaeological Field and Laboratory Assistant, Head-Smashed-In-Buffalo Jump Project, University of Calgary, Alberta
1993-1994	Archaeological Field Assistant, Exshaw Project, University of Calgary, Alberta

Client References

Kate Miller Environmental Manager	Cowichan Valley Regional District	250.746.2500	kmiller@cvrld.bc.ca
Tania Tripp Wildlife and Ecosystem Manager	Madrone Environmental Services Ltd.	250.746.5545	Tania.tripp@madrone.ca
Chris Sholberg Community and Heritage Planner	City of Nanaimo	250.755.4472	Chris.Sholberg@nanaimo.ca