

# APPENDIX

# H

GENERAL  
CORRESPONDENCE

## Landrie, Brianna

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**From:** McCartney, Erin <Erin.McCartney@gov.mb.ca>  
**Sent:** September 11, 2024 9:41 AM  
**To:** Landrie, Brianna  
**Subject:** RE: Environment Act Proposal - RM of Boissevain-Morton - Mineral Rights Information Request [WSP#CA0017817.1877]

Good Morning, please be advised that according to our records as of this date:

- SE 23-03-20 WPM (160.00 acres) was transferred by the Dominion of Canada in 1889 along with the Mines, Minerals, Sand and Gravel.
- NW 14-03-20 WPM (160.00 acres) was transferred by the Dominion of Canada in 1891 along with the Mines, Minerals, Sand and Gravel.

Please be advised that the under rights of the lands searched may have reverted back to the Crown by way of tax sale or have been severed from the surface title, which we would not be aware of. To determine current ownership of the under rights, current title searches should be done at Teranet (formerly The Property Registry).

If I can be of further assistance to you may I please hear from you.

### Erin McCartney

Crown Lands Registrar, Real Estate Services Branch  
Asset Management – Central Capital  
Manitoba Consumer Protection & Government Services  
308 - 25 Tupper Street North  
Portage la Prairie, MB, R1N 3K1  
**Direct Line: 204-239-3805**  
Manitoba Toll Free: 1-866-210-9589  
[RESInfo@gov.mb.ca](mailto:RESInfo@gov.mb.ca)

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We acknowledge that we are on the Treaty Territories and ancestral lands of the Anishinaabeg, Anishinewuk, Dakota Oyate, Denesuline and Nehethowuk Nations. We acknowledge northern Manitoba includes lands that were and are Inuit ancestral lands. We respect the spirit and intent of Treaties and Treaty Making and remain committed to working in partnership with First Nations, Inuit and Métis people in the spirit of truth, reconciliation and collaboration.

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**From:** Landrie, Brianna <Brianna.Landrie@wsp.com>  
**Sent:** Wednesday, September 11, 2024 8:50 AM  
**To:** McCartney, Erin <Erin.McCartney@gov.mb.ca>  
**Subject:** Environment Act Proposal - RM of Boissevain-Morton - Mineral Rights Information Request [WSP#CA0017817.1877]

You don't often get email from [brianna.landrie@wsp.com](mailto:brianna.landrie@wsp.com). [Learn why this is important](#)

Good morning,

We are working on an Environment Act Proposal for the RM of Boissevain-Morton for the expansion of the existing lagoon facility. The development will occur in:

- SE-23-3-20W (lagoon expansion)

- NW-14-3-20W (borrow area)

Please provide comments on the ownership of the mineral rights (Mines and Minerals & Sand and Gravel).

Thanks,



**Brianna Landrie, P.Eng.**

Project Engineer  
Water & Wastewater Infrastructure

D+ 1 204-259-1699

M+ 1 431-336-4486

WSP Canada Inc.  
1600 Buffalo Place  
Winnipeg, Manitoba  
R3T 6B8 Canada

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-LAEmHhHzdJzBITWfa4Hgs7pbKI

## Landrie, Brianna

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**From:** Murray, Colin <Colin.Murray@gov.mb.ca>  
**Sent:** September 18, 2024 12:06 PM  
**To:** Landrie, Brianna  
**Subject:** D B Landrie WSP 240911 EPA RM Boissevain-MortonWSP0017817.1877 2 sites  
**Attachments:** D B Landrie WSP 240911 EPA RM Boissevain-MortonWSP0017817.1877 2 sites.xlsx; qsects\_ab2\_5k.zip

Hi Brianna

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's (CDC) rare species database for your area of interest. This includes the primary locations: SE-23-003-20W1 (lagoon expansion) and NW-14-003-20W1 (borrow area); and 2km and 5km radius buffers from the footprint boundary.

I am attaching a Microsoft Excel spreadsheet summarizing these occurrences. The spreadsheet includes scientific and common names, the provincial (SRank) rank for each species as well as the Manitoba Endangered Species and Ecosystem Act, and the federal Committee on the Status of Endangered Wildlife in Canada (COSEWIC) and Species at Risk Act (SARA) designations. I'm also including the GIS files used to fulfill this request.

Further information on this ranking system can be found on our website at: <https://www.natureserve.org/conservation-status-assessment>.

These designations can be found at:

<http://web2.gov.mb.ca/laws/statutes/ccsm/e111e.php>,

[https://www.cosewic.ca/index.php/en-ca/\\_and](https://www.cosewic.ca/index.php/en-ca/_and)

<https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html>.

Manitoba's recommended setback distances can be found at:

<https://www.gov.mb.ca/nrnd/fish-wildlife/cdc/pubs/mbcdc-bird-setbacks-nov2021.pdf>

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre of the Wildlife Branch at the time of the request. These data are dependent on the research and observations of CDC staff and others who have shared their data, and reflect our current state of knowledge. An absence of data does not confirm the absence of any rare or endangered species. Many areas of the province have never been thoroughly surveyed, therefore, the absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present. The information should not be regarded as a final statement on the occurrence of any species of concern, nor should it substitute for on-site surveys for species or environmental assessments. Also, because our Biotics database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request.

Please contact the Manitoba CDC for an update on this natural heritage information if more than six months passes before it is utilized.

Third party requests for products wholly or partially derived from our Biotics database must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication using data from our database, as the Manitoba Conservation Data Centre; Wildlife Branch, Manitoba Natural Resources and Northern Development.

**This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity, nor does it negate the need for any permits or approvals required by the Province of Manitoba.**

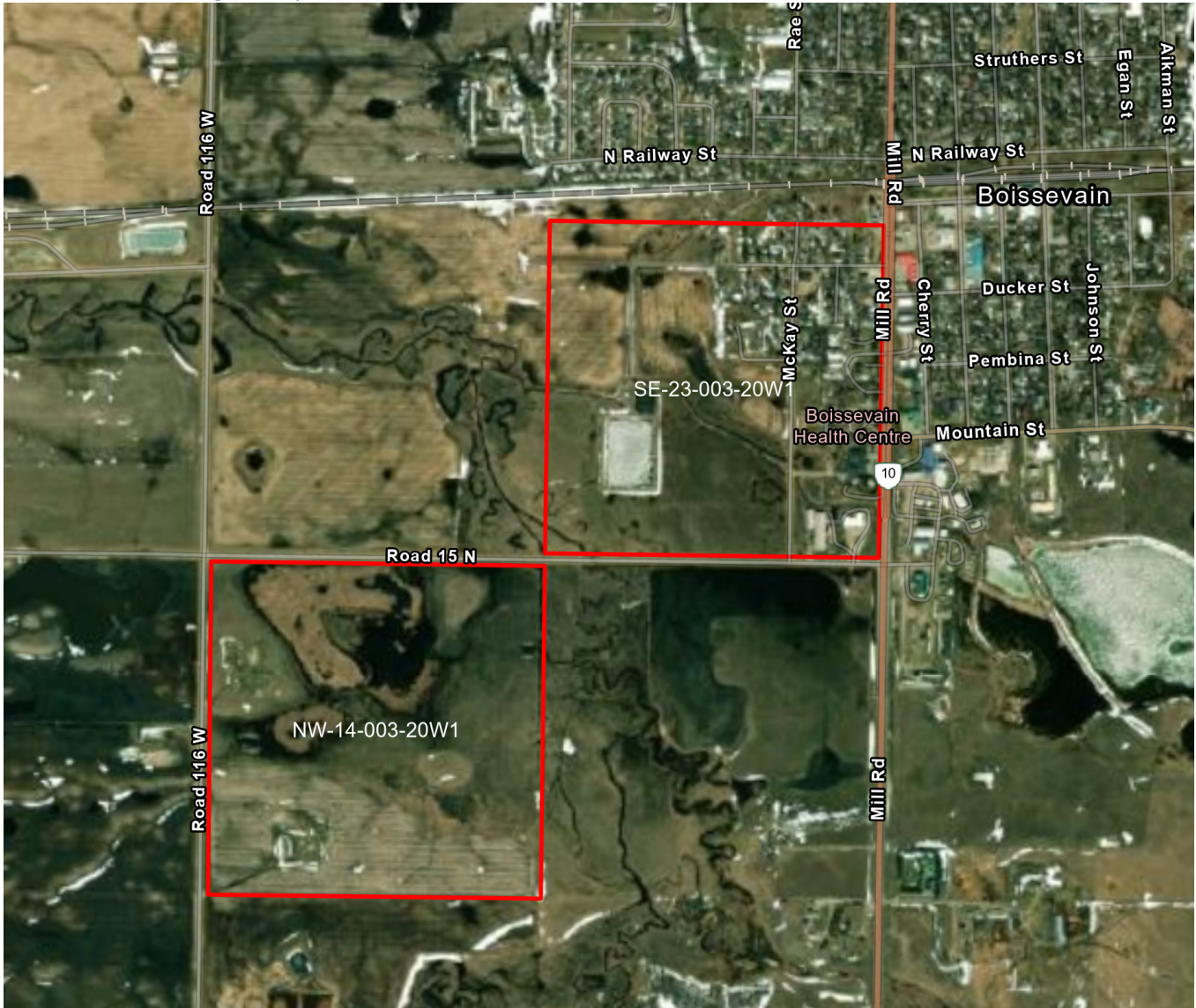
We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information contact me directly at [colin.murray@gov.mb.ca](mailto:colin.murray@gov.mb.ca) or 204-914-2849.

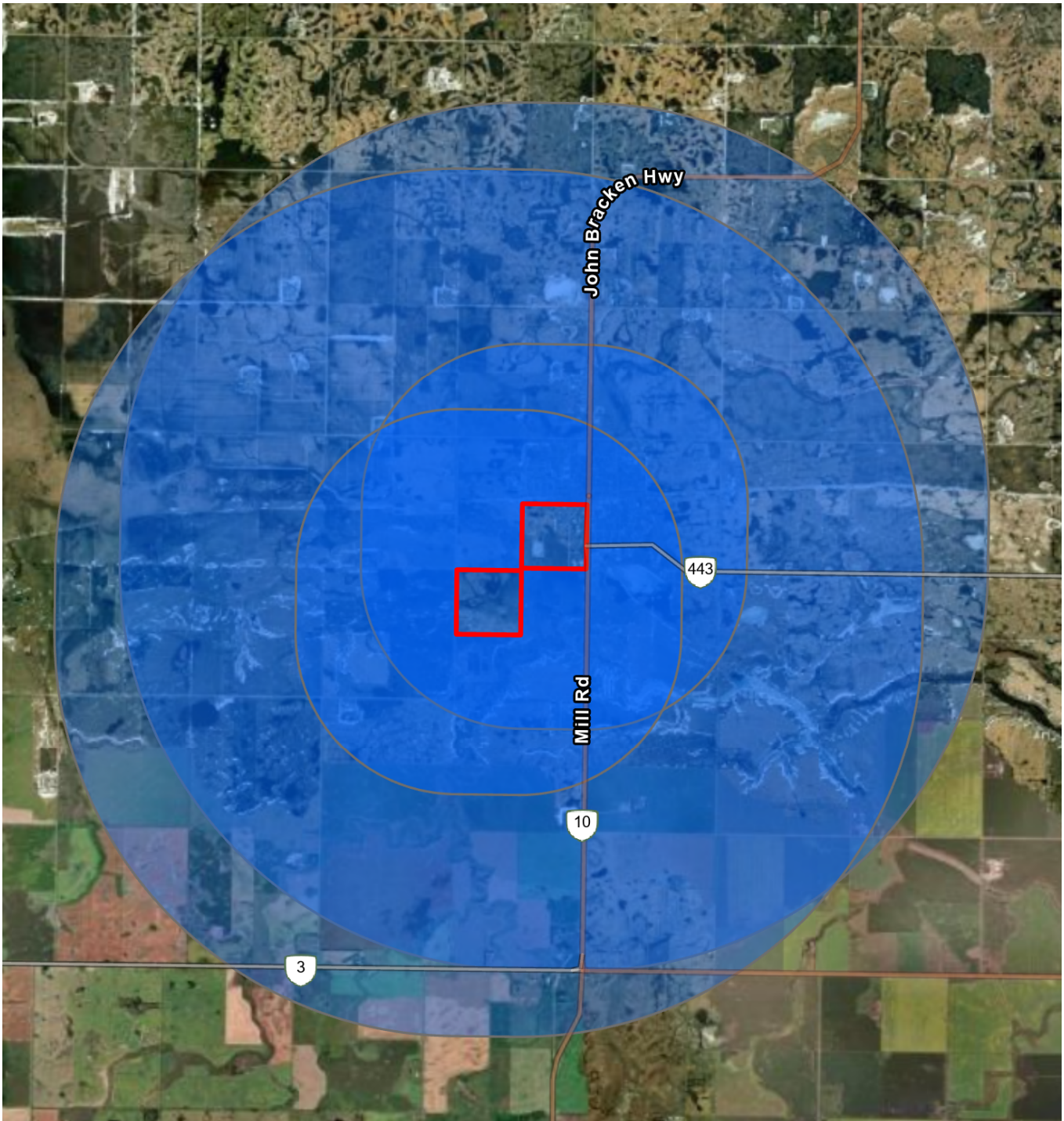
Colin

Reference screen clip:

SE-23-003-20W1 (lagoon expansion) and NW-14-003-20W1 (borrow area):



SE-23-003-20W1 (lagoon expansion), NW-14-003-20W1 (borrow area); and 2km and 5km radius buffers:



**Colin Murray**  
Information Manager- Manitoba Conservation Data Centre  
Wildlife Branch, Economic Development, Investment,  
Trade and Natural Resources  
14 Fultz Boulevard, Winnipeg, MB R3Y0L6  
E: [colin.murray@gov.mb.ca](mailto:colin.murray@gov.mb.ca) T: 204-914-2849

---

**From:** Landrie, Brianna <[Brianna.Landrie@wsp.com](mailto:Brianna.Landrie@wsp.com)>  
**Sent:** Wednesday, September 11, 2024 8:51 AM  
**To:** Murray, Colin <[Colin.Murray@gov.mb.ca](mailto:Colin.Murray@gov.mb.ca)>  
**Subject:** Environment Act Proposal - RM of Boissevain-Morton - Species Search Information Request  
[WSP#0017817.1877]

Good morning,

We are working on an Environment Act Proposal for the RM of Boissevain-Morton for the expansion of the existing lagoon facility. The development will occur in:

- SE-23-3-20W (lagoon expansion)
- NW-14-3-20W (borrow area)

Please provide a listing of rare species for the identified areas.

Thanks,



**Brianna Landrie, P.Eng.**

Project Engineer  
Water & Wastewater Infrastructure

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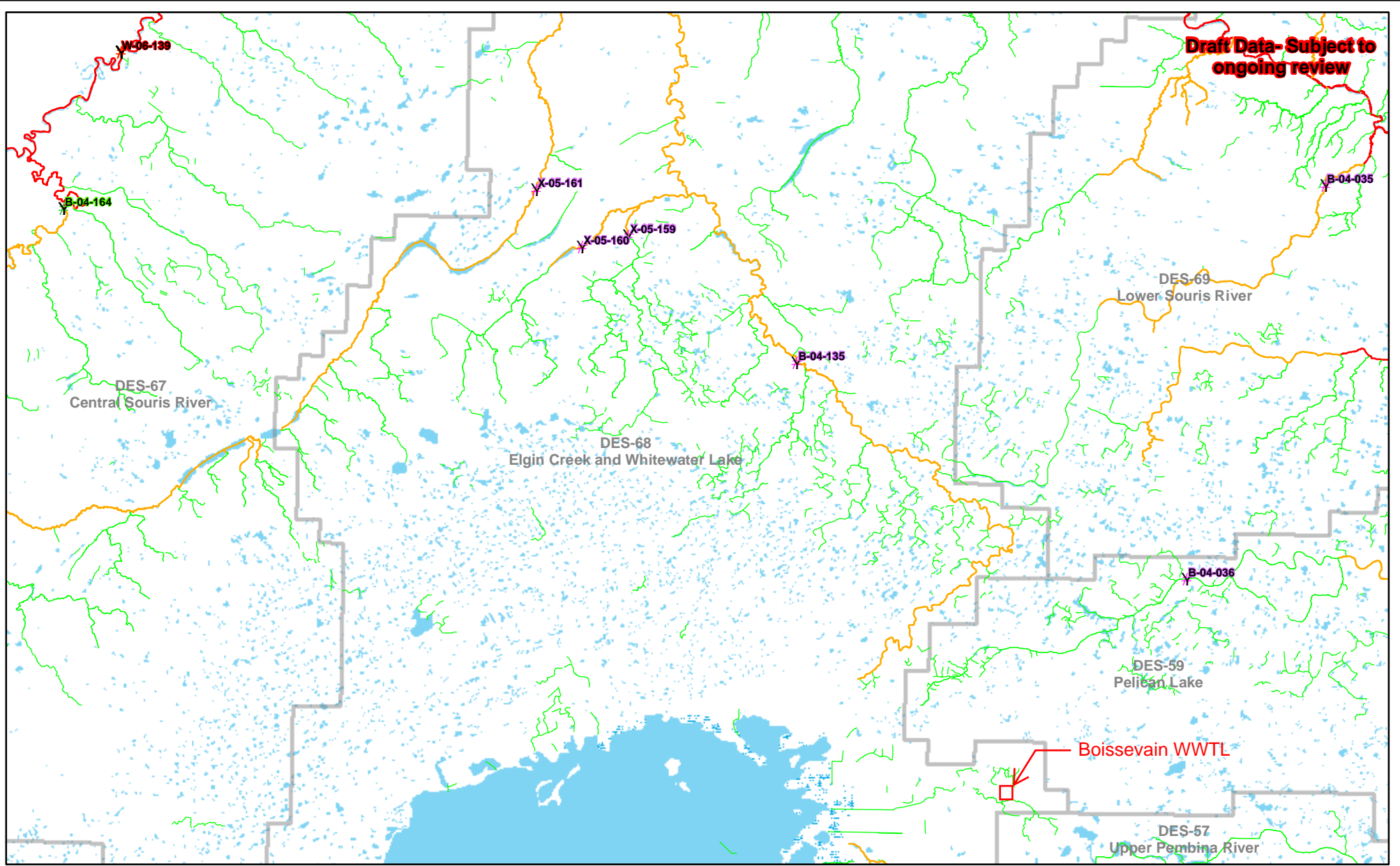
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Winnipeg, Manitoba  
R3T 6B8 Canada

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062F10	062F09	062G12
062F07	062F08	062G05
062F02	062F01	062G04

**Habitat Classification**

- A 
- B 
- C 
- D 
- E 

**Fishing Results**

- Indicator Species 
- Non-Indicator Species 
- No Catch 
- No Fishing Effort 

**Appendix 9**  
**Sampling sites, fish captures and habitat classification**  
**of streams and constructed drains throughout**  
**agricultural areas of Manitoba (2002 – 2006)**

**062F08**

Produced April 2012

**DATE:** 2024-07-03

**TO:** Brianna Landrie  
 Designer  
 Water & Wastewater Infrastructure  
 WSP Canada Inc

**FROM:** Archaeological Assessment Services Unit  
 Historic Resources Branch  
 Manitoba Sport, Culture, Heritage and Tourism  
 Main Floor – 213 Notre Dame Avenue  
 Winnipeg, MB  
 R3B 1N3

T: (204) 945-2118 F: (204) 948-2384  
 e: HRB.archaeology@gov.mb.ca

**SUBJECT:** WSP # 17817.1877, RM-Boissevain-Morton

AAS number	Legal	Component	HRB Comment
AAS-24-22073	SE-23-03-20-W	Lagoon expansion	Concerns
AAS-24-22074	NW-14-03-20-W	Potential borrow area	Concerns
AAS-24-22075	NW-13-03-20-W	Potential borrow area	Concerns

**Concerns**

Further to your e-mail regarding the above noted application, the Manitoba Historic Resources Branch (HRB) has examined the locations in conjunction with Branch records for areas of potential concern. Notably, the development footprints are located along water corridors Cherry Creek, tributaries, and wetlands, as well as near known archaeological sites that are located within the corridor. These factors, although not exclusive to the analysis, indicate a reason to believe that any future planned ground disturbance, activity, and/or development within the area has the potential to impact heritage resources, therefore, the Historic Resources Branch has concerns.

**Legislation**

Under Section 12(2) of [The Heritage Resources Act](#) (the Act), if there is reason to believe that heritage resources or human remains upon or within or beneath lands are likely to be damaged or destroyed by any work, activity, development or project, then the Minister may require a proponent to apply for a heritage permit and conduct at his/her own expense, a heritage resource impact assessment (HRIA) and mitigation, prior to the project’s start. As per sections 46 and 51 of the Act, there is an obligation to report any heritage resources and a prohibition on destruction, damage or alteration of said resources.

A Heritage Resource Impact Assessment (HRIA) is an assessment showing the impact that proposed work is likely to have upon heritage resources or human remains. HRIAs must be conducted by a qualified archaeological consultant under a heritage permit. Please find attached a flow chart outlining the general process of an HRIA.

**HRIA Expectations**

The Branch will work with the proponent/land owners and its consultant to draw up terms of reference for this project. Please allow for HRIA timelines in your planning as HRIAs are conducted in snow and frost-free conditions. Any exceptions require planning and consultation with the HRB.

Please find attached an archaeological consultants’ list for reference. Due diligence should be conducted in order to assess quotes, services, and timelines.

If you have any questions, please contact as above for proper assignment and queueing.

*Historic Resources Branch  
 Archaeological Assessment Services Unit*

*This Consultant List contains the names of consultants who have identified themselves to Archaeological Assessment Services, Historic Resources Branch as being available to conduct heritage resource impact assessment and management studies, as well as consultants with expertise in associated fields. The list is not intended to be exhaustive as there may be other consultants eligible to conduct such work that do not appear on the Consultant List. It is the responsibility of those wishing to appear on this list to update their working status every year.*

*The Consultant List is provided for information purposes only. The Historic Resources Branch makes no recommendation with respect to this listing. It is not intended as a statement of professional qualifications. All firms in this listing have staff qualified to apply for a Heritage Permit. The Province of Manitoba is not responsible for any errors or omissions on the Consultant List, and assumes no responsibility or liability for the acts or omissions of any person or firm on the Consultant List contained herein.*

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**AECOM Canada Ltd.**  
**99 Commerce Dr**  
**Winnipeg, Manitoba**  
**R3P 0Y7**  
**aecom.com**

<b>AECOM Canada Ltd.</b>	99 Commerce Dr Winnipeg, MB R3P 0Y7	
	300, 48 Quarry Park Boulevard SE Calgary AB T2C 5P2	Brent Murphy [Redacted]
	250 York St. London, ON N6A 6K2	Samantha Markham [Redacted]

AECOM is built to deliver a better world. We design, build, finance, maintain and operate infrastructure assets for governments, businesses and organizations in more than 150 countries. As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges. From high-performance buildings and infrastructure to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated and vital.

The AECOM Cultural Resources Department, formed in 2007, provides archaeological, built heritage and cultural heritage landscape services to a wide variety of public and private sector clients across Canada. We have a multidisciplinary Cultural Heritage team of dedicated researchers, archaeologists, cultural heritage specialists, and heritage planners that offer a range of services. AECOM’s Cultural Heritage team has the right mix of skill sets, experience, relationships, and understanding of cultural resource management and working with multiple stakeholders (notably Indigenous communities). AECOM provides a full range of cultural resource management services including:

- Heritage Resource Impact Assessment
- Desktop Heritage Resource Overview
- Heritage Resource Protection Plans
- Modelling and Constraints Mapping
- Historical and Archival Research
- Built Heritage
- Traditional Land and Resource Studies
- Indigenous Engagement

**Agassiz-CRS**  
**#3305-197 Victor Lewis Drive**  
**Winnipeg, Manitoba**  
**R3P 2A4**

**Contact:**

**Mark Paxton-MacRae**

**Owner**

**Phone : (204) 509-4757**

**Email : [Paxton-macrae@agassiz-crs.ca](mailto:Paxton-macrae@agassiz-crs.ca)**

**Website : <http://agassiz-crs.ca/>**

**Agassiz C.R.S. is a Manitoba based cultural heritage service company formed in 2015 to provide projects, developers, individuals, and First Nations of Manitoba with comprehensive and professional archaeological, anthropological and historic resource services. We have experience working on sites throughout Canada including Manitoba, Saskatchewan, and Ontario, as well as international experience. We can provide engagement with the public through professionally led public archaeological excavations and programming.**

**We offer First Nations consultation and engagement. We are interested in providing consultation to First Nations on archeology and heritage concerns relating to land development. Agassiz is currently working with Peguis First Nation on several projects.**

**Our services include:**

**Heritage assessments:**

**Project and regional mapping via GIS software and drone software,  
HRIA (historic resource impact assessment),  
HRO (historic resource overview),  
Archaeological mitigation, monitoring and post impact assessment,**

**Research:**

**Archival research,  
Historical research,  
Site and region specific research,**

**Consultation:**

**First Nations engagement,  
TLU (traditional land use),  
ATK (Aboriginal traditional knowledge),  
Public consultation.**

**We have experience in managing projects that range from one-day, two-person site surveys up to large regional studies and multi-year archaeological excavations employing a large work force. We also have considerable experience in coordinating archaeological research with industry requirements.**

**Atlheritage Services Corp.**  
**Unit 10 – 3810 Burron Avenue**  
**Saskatoon, SK**  
**S7P 0E4**

**Contact: Mike Markowski**  
**Title: Director, Heritage Division Manager**  
**Phone : c. [REDACTED]**  
**Email : [REDACTED]**  
**Website : [www.atlheritage.ca](http://www.atlheritage.ca)**

Atlheritage Services Corp. (Atlheritage) believes in protecting and preserving our heritage for future generations. We understand and appreciate developments, which is why we work closely with our clients to ensure regulatory heritage requirements (i.e., Heritage Resources Impact Assessments) are professionally and efficiently completed to ensure Heritage Clearance is achieved well in advance of construction schedules.

Atlheritage consists of a group of respected archaeologists with extensive heritage assessment experience across the Prairies. Our team is managed by Mike Markowski (Principal Archaeologist) and supported by Brad Schiele (Senior Archaeologist), Paul Thomson (Archaeologist), field staff, and our GIS and office staff. Our areas of expertise include:

- Heritage Resources Impact Assessments (HRIAs)
- Heritage Resources Impact Assessment-Mitigation (HRIA-M)
- Archaeological Monitoring and Post-Impact Assessments
- Heritage Desktop Studies
- Heritage Resource Reviews/Heritage Resource Review Referral Forms
- Traditional Land Use Studies (TLU)
- Traditional Knowledge Studies (TEK)
- Cemetery Management (mapping marked and unmarked graves)
- Ground Penetrating Radar (GPR)

Atlheritage works closely with several environmental consulting companies, engineering firms, Crown Corporations, Municipalities and private developers to manage and complete their HRIA requirements. Atlheritage has developed a comprehensive safety program and is a SECOR (Small Employer Certificate of Recognition) certified company and maintains A ratings on ISNetwork, CompyWorks and Avetta.

**Canada North Environmental Services**  
**211 Wheeler Street**  
**Saskatoon, Saskatchewan**  
**S7P 0A4**

**Contact:**

**Karmen VanderZwan**

Heritage Division Manager / Senior Archaeologist

**Phone :** [REDACTED]

**Website :** <https://cannorth.com/>

Canada North Environmental Services (CanNorth) is a multidisciplinary and comprehensive heritage, engagement, and environmental consulting company. We are 100% First Nations owned. We offer specialized and expert services that are geared towards helping clients achieve regulatory compliance under heritage and environmental legislation. We have the capacity to handle both large and small projects.

Since 1997, CanNorth has provided high quality environmental and heritage services to a diversity of clients for a wide range of project types. Our experienced, interdisciplinary team offers the technical skills and knowledge to protect the environment, satisfy regulatory requirements, benefits our clients, and support local communities.

Heritage services are provided through CanNorth's Heritage Division. We provide to our clients a wide range of services, including:

- Heritage Resource Impact Assessment and Mitigation (HRIA, HRIA-M),
- Archaeological monitoring and post-impact assessments,
- Project referrals,
- Archaeological consulting,
- Traditional Land Use studies (TLU),
- Archival and historical research, and
- Indigenous engagement.

Our heritage programs are delivered with the same high-quality commitment to service and excellence that have made CanNorth a proven leader in environmental programs and consulting services.

**Circle CRM Group Inc.**  
**4807 32 St, SE**  
**Calgary Alberta**  
**T2B 2X3**  
**Tel: (403) 984 8189**  
**Website: <http://www.circleconsulting.ca>**

**Contacts:**

<b>Margarita de Guzman</b>	<b>Kristin McKay</b>
Managing Director	Senior Manager
c: [REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

**Circle CRM Group** is a heritage resource consulting company with offices in Calgary and Edmonton, Alberta, as well as a seasonal office in Williams Lake, BC. We are professional archaeologists who share a common mission: to protect and promote understanding of heritage resources. We believe in a balance of practical growth and development while preserving our cultural resources for future generations. Through great teamwork and collaboration, we deliver consistent, quality heritage resource services that exceed our client’s expectations.

In its 25-year span, Circle CRM Group has completed archaeological assessments in BC, Alberta, Saskatchewan, Manitoba, the Yukon, and the Northwest Territories. Circle’s managers and senior permit holders have extensive experience in all matters relating to heritage resources; each have over 20 years of archaeological experience, the majority of which are as a permit-holding archaeologists in western Canada.

Circle CRM Group has extensive experience in providing the following list of services across western Canada.

- Heritage Resources Impact Assessments (HRIAs)
- Heritage Resources Impact Mitigations (HRIMs)
- Heritage Resource Overviews (Desktop Assessments)
- Construction Monitoring and Post-Impact Assessments
- GIS Services
- Palaeontological services
- Traditional Land Use
- Traditional Ecological Knowledge

Circle CRM Group is also committed to an Indigenous Inclusion Strategy and Work Plan that strives to support the rising presence of Indigenous Peoples in the field of archaeology and cultural resource management in western Canada. Our vision is to create and nurture an inclusive space for open dialogue and collaboration with Indigenous Peoples and communities throughout all phases of archaeological services provided to our clients, wherever possible.

## **Ember Archaeology – a Division of Tree Time Services Inc.**

**Unit 260, 2121 Premier Way  
Sherwood Park, Alberta  
T8H 0B8**

**Tel: (780) 472-8878**

Website: [www.emberarchaeology.ca](http://www.emberarchaeology.ca)

General: [contact@emberarchaeology.ca](mailto:contact@emberarchaeology.ca)

**Contact:**

**Madeline Coleman, MA**

Senior Archaeologist, Accounts Manager

**Email :** [REDACTED]

Ember Archaeology, a division of Tree Time Services Inc (TTSI), is an Alberta based cultural heritage service company. Started in 2008 (re-branded as Ember Archaeology in April 2021), we provide historic resource management planning and impact assessment services to help our clients manage their impact on heritage resources. We also provide advice, assessments, surveys, reclamation and other consulting services to all sectors: Forestry, Oil and Gas, Aggregate Companies, Urban and Rural Municipalities, Education and Recreation based Non-Profit Organizations, Infrastructure, Transportation, and Utility Companies.

We have developed a strong reputation in our field based on using scientifically demonstrable methodology. Our archaeology team has grown to include eight permanent staff, all of whom are eligible to hold archaeological research permits in multiple provinces. Our principal business is annual historical resource management programs for the forest industry. We currently serve clients with operations from Sundre to Fort McMurray. This specialization has led Ember Archaeology to invest in the identification and development of best practices for archaeological survey. In addition to forestry we conduct Impact Assessments and Impact Mitigations for gravel pits, recreational developments, transmission lines, and highway projects. Ember is also capable of completing Ground Penetrating Radar projects (GPR).

Our services include:

- Historical Resources Overview (background research, including traditional land use)
- Development screening
- Heritage Resources Impact Assessments
- Archaeological Mitigation, Monitoring, and Post-Impact Assessments
- Applications of Geographic Information Systems (GIS)
- pXRF sourcing
- Community engagement (information sessions, written materials, public excavations)
- Ground Penetrating Radar (GPR)

Public outreach is highly valued at Ember Archaeology. We work to engage all ages and communities through public education, social media, non-technical reports, and First Nations engagement. We have also undertaken a range of community archaeology projects and services including:

- Site / Excavation Tours – a chance for the community to see archaeology in action
- Archaeology Roadshows – allows hands-on experience with the type of artifact reproductions and activities; communication of archaeological assessments completed near the community.
- School visits – students become an archaeologist for a day by participating in an interactive presentation and then try to classify, date, and interpret an archaeological using what they learned.

**Graham Environment Ltd.**

**84 Abingdon Crescent NE  
Calgary, AB  
T2A 6S3**

**Contact: James Graham, M.N.R.M., President**

**Phone** [REDACTED]

**Email :** [REDACTED]

**Website :** [www.grahamenvironment.com](http://www.grahamenvironment.com)

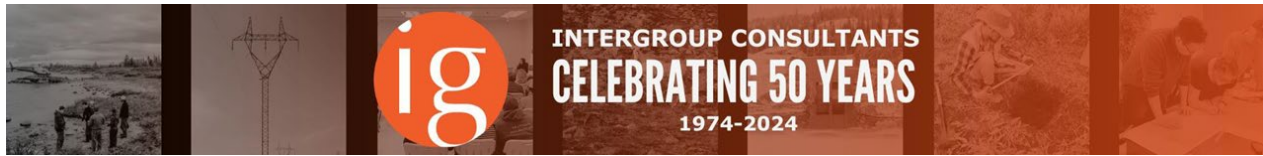
Graham Environment Ltd. is a boutique environmental consulting company founded in 2018, specializing in western Canadian cultural resource management, community-centric Indigenous Consultation and Engagement, and environmental regulatory planning and project leadership.

We have nearly 40 years of professional consulting experience working in Alberta, Saskatchewan, Manitoba and Ontario, and in Canada's National Parks. Our environmental planning experience includes leading multi-disciplinary environmental assessments for power transmission projects, large scale oil and gas pipelines across Canada, and municipal development permitting for industrial activities. We have recent experience conducting Traditional Knowledge/Traditional Land Use (TK/TLU) Studies and Traditional Land and Resource Use (TLRU) assessments for projects under the Canada Energy Regulator (CER) and have experience leading cumulative effects assessments for several regulators.

As professional archaeological consultants, Graham Environment Ltd. have completed more than 45 archaeological assessment and mitigative permits in Manitoba, Saskatchewan and Alberta, as well as western Canada's National Parks. We have direct experience working in the oil and gas sector, power transmission, and municipal and provincial infrastructure and property development.

Graham Environment Ltd. is proud to offer the following services:

- Heritage Resources Impact Assessment and Mitigation
- Traditional Land Use and Traditional Knowledge Studies
- Traditional Land and Resource Use assessments
- Regulatory permitting for industrial activities
- Municipal and Provincial Infrastructure permitting
- Project and Task Leadership



**InterGroup Consultants Ltd.**

**300-259 Portage Avenue**

**Winnipeg, MB, R3B 2A9**

**Tel: (204) 942-0654**

Website: <http://www.intergroup.ca>

**Contacts:**

**Amber Flett, M.A., RPA** Principal

& Senior Archaeologist

**Daniel Szot, M.A.**

Archaeologist, GIS & Drone Technician e:

InterGroup is an independent, multi-disciplinary firm based in Winnipeg, Manitoba. We have 50 years of experience providing cultural, archaeological, socio-economic, public engagement and regulatory consulting services to clients across Canada.

Our Heritage Team has experience in managing all phases of project development from planning stages through implementation and mitigation. We are knowledgeable in governmental requirements and guidelines related to the management of heritage resources and successfully assisted in licensing numerous large-scale development projects. InterGroup's heritage professionals provide all levels of archaeological assessments, engagement, and consultation services, working closely with Indigenous communities and local stakeholders. We pride ourselves on providing high quality services that meet the client's need, on time and on budget with expertise in the following areas:

**Heritage Assessments**

- Heritage Resource Impact Assessment (HRIA)
- Heritage and Cultural Mitigation and Monitoring Programs
- Archival and Historical Research

**Community Engagement**

- Indigenous Engagement and Consultations
- Archaeological Education, Outreach, Public Excavation Programs

**Museum and Curation**

- Collections Management
- Exhibit Design and Curation
- Decolonizing Museums and Cultural Exhibits
- Repatriation

**GIS and UAV/Drone Services**

- GIS Mapping and Predictive Modeling
- Traditional Land Use and Occupancy (TLUO) Studies and Mapping Services
- Cemetery Mapping and Documentation

**Jacobs**

**Address: 411 1<sup>st</sup> St. SE Suite 2700**

**City, Province: Calgary, AB**

**Postal Code: T2G 4Y5**

**Contact:**

**Name: Tobi Krahulic**

**Title: Lead Archaeologist**

**Phone :** [REDACTED]

**Website :** [Jacobs.com](http://Jacobs.com)

Jacobs provides comprehensive services regarding the management of archaeological, palaeontological, and historical resources. Jacobs effectively fulfills time-critical heritage requirements while promoting and preserving the past for future generations. Municipal, provincial and territorial legislation regulates the protection of cultural properties and resources. Our team of experienced professionals is intimately familiar with the legislation and provides the knowledge and skills necessary to comply with regulations. Services Provided: Heritage Resource Overviews; Heritage Resource Impact Assessments (HRIA); Archaeological excavations and Mitigations; Site Delineation and Inventory; Heritage Resource Protection Plans, and Construction Monitoring.

**KGS Group Inc.**

3<sup>rd</sup> Floor – 865 Waverley Street  
Winnipeg, Manitoba  
R3T 5P4  
Phone : 204-896-1209  
Fax : 204-896-0754

<https://ksgsgroup.com/services/environmental/archaeology-and-heritage-resources>

Kristian Sullivan, M.A., R.P.A.  
Senior Archaeologist



Laura McRae, M.A. APA  
Senior Archaeologist



KGS Group offers the complete line of archaeological and heritage resource assessment services. Our services encompass all aspects of heritage assessment with a focus on identifying and managing heritage resources. Our experienced team of experts provide clients with tangible, workable solutions to heritage management issues by offering a vast array of investigation, avoidance, and mitigation strategies. Our archaeologists are experienced working with regulatory agencies, proponents, construction teams, stakeholders, and Rightsholders to support project objectives. KGS archaeologists work to stay true to project timelines and objectives while still meeting regulatory requirements concerning heritage resources.

Our areas of expertise include:

- Regulatory engagement
- Desktop heritage sensitivities review and analysis
- Heritage resource inventories and overviews
- Heritage Impact Resource Assessments (HRIAs)
  - Pedestrian Surveys
  - Shovel Testing Programs
  - Deep Testing Activities
  - Mitigative and salvage excavations
  - Artifact cataloguing and analysis
- Heritage construction monitoring
- Heritage resource protection plans
- Post-construction heritage impact surveys
- Public engagement
- First Nation and Métis Consultation

## **Lifeways of Canada Limited**

**105, 809 Manning Road N.E.  
Calgary, AB T2E 7M9  
[www.lifewaysofcanada.com](http://www.lifewaysofcanada.com)  
P. 403-730-9461  
F. 403-730-5192**



### **Contact:**

**Claire Bourges M.A. – Managing Partner and Senior Project Archaeologist**

[REDACTED]

**Miriam Reichel-Bodner – Senior Project Palaeontologist**

[REDACTED]

Lifeways of Canada Limited (Lifeways) is a private company specializing in archaeological, palaeontological, and heritage consulting. Incorporated in 1972, having celebrated our 50th anniversary, we are proud to stand as one of the longest operating heritage resources consulting and contracting companies in western Canada, providing services to government, private industries, and Indigenous communities in western and northern Canada.

We provide a complete spectrum of heritage resources work to ensure that all *Heritage Resources Act* clearances are granted and in place for our clients in a timely manner. These include:

- Heritage Resources Overviews (HRO) – submissions to the Historic Resources Branch (HRB) for project guidance, approvals, and/or requirements;
- Liaison to acquire Terms of Reference from HRB;
- Heritage Resources Impact Assessments (HRIA)- field studies meant to assess in detail a development area;
- Heritage Resources Impact Mitigations (HRIM) – the excavation and mitigation of all sites needing clearance that cannot be avoided by the developer;
- Construction monitoring – archaeological and palaeontological monitoring of construction activities to mitigate impact to Heritage Resources;
- Palaeontological Overviews, HRIAs, and Monitoring;
- Development of Heritage Resources Protection Plans;
- Archival Research;
- First Nations Consultation, Indigenous Engagement, and Traditional Use Studies;
- Expert Testimony at hearings; and
- Public archaeology programs, tours, and lectures.

### **Lifeways' Experienced Staff**

We are a private company with a sizeable, full-time, permanent team who work efficiently together and are able to adapt quickly to Project-specific needs. Lifeways provides field supervision and labour and all required follow-up lab, mapping, and reporting tasks for projects of all levels. We are proud of our large and full-time permanent staff with a very low rate of turnover, who have the experience and clear understanding of Provincial Regulations to execute all of our projects efficiently. Four of our Senior Project Archaeologists are partners in the company and have a vested interest in providing the highest level of service to our clients. Currently we have six Project Archaeologists and one Project Palaeontologist (with M.A.s or Ph.Ds.) who are permitted to conduct fieldwork in Manitoba, Alberta, British Columbia, Saskatchewan, Northwest Territories, and Yukon. Eight Senior and Junior Archaeologists (with B.A.s, B.Sc.s., or M.A.s) work as field assistants, lab technicians, draftspersons, GIS specialists, and researchers for the company. Collectively we have over 230 years of experience in heritage resources. We provide expertise in lithic and faunal analysis, Precontact and Historic Period sites, fossil processing, archaeological and palaeontological potential modeling, GIS applications and archival research.

**NORTH ROOTS RESEARCH**  
**15080 31W**  
**Stanley, Manitoba**  
**R6T 0B4**

**Contact:**

**Lisa C. Bobbie, M.A.**

**Senior Archaeologist/Historical Researcher**

**Phone :** [REDACTED]

**Email** [REDACTED]

**Website :** [www.northrootsresearch.ca](http://www.northrootsresearch.ca)

North Roots Research is an independently owned, Manitoba-based company that provides high-quality, practical and cost-effective heritage solutions for your development needs. Our professional archaeologists offer a full range of services involving archaeological, historical and Indigenous research across Manitoba, Saskatchewan and northern Ontario.

Our considerable experience has involved all scales of projects for a variety of clients including: private landowners, large and small-scale developers, governmental agencies and Indigenous communities and organizations. We collaborate with our clients to tailor services that preserve and manage heritage and cultural resources while facilitating sustainable and progressive development. North Roots Research delivers timely, focused products, ensuring our clients are in compliance with regulatory heritage requirements and legislation while managing project needs and timelines. These services may be integrated with other environmental, economic and social impact studies, or as stand-alone investigations.

**Our Services Include:**

- Heritage Resource Impact Assessment (HRIA) – Stage 1 through 4
- Heritage Resource Impact Monitoring (HRIM)
- Historical Resource Overviews (Desktop studies)
- Cultural and Heritage Protection Planning
- Traditional Knowledge & Land Use Studies
- Geographic Information System (GIS) Mapping Technology
- Archaeological Educational Programming & Training
- Modelling & Constraints Mapping

## **PEMBINA PALEONTOLOGY**

**Box 47**

**Pilot Mound, Manitoba**

**R0G 1P0**

### **Contact:**

**Name – Joseph & Anita-Maria Hatcher**

**Title – Vertebrate Paleontologists**

**Phone : (431) 773-8881**

**Email : [pembinapaleo@gmail.com](mailto:pembinapaleo@gmail.com)**

**Website : [www.pembinapaleo.com](http://www.pembinapaleo.com)**

**Facebook: [www.facebook.com/PembinaPaleo](https://www.facebook.com/PembinaPaleo)**

Pembina Paleontology was established in 2021 by Manitoba's most published vertebrate paleontologists, Joseph and Anita-Maria Hatcher to ensure Manitoba's paleontological record is preserved for future generations through research, conservation and education. In addition to public fossil digs and virtual educational programming, some of the consulting services that we offer include:

### **Paleontological Impact Assessments**

Through the Manitoba Heritage Act of 1987, most earthworks that are planned in Manitoba near established vertebrate fossil bearing horizons will require a paleontological impact assessment. With over 30 years of combined professional paleontology experience, our team is uniquely suited to acquire the proper heritage permits, provide fossil resource management plans, impact evaluations and mitigation plans, construction monitoring and data capture, stratigraphy, and fossil preparation.

### **Film Advisory Consultation**

We offer a variety of paleontology services for the film and gaming industry. From our expertise in dinosaur and marine reptile paleontology, your creative team will flourish with authenticity in their designs! From pre-production concepts to on-set guidance and post-production follow through, your next dinosaur film will roar to the front of the line! Whether you're writing the script or in charge of art, design or animal animation in gaming entertainment, our vertebrate paleontologists are available for hire as science consultants. Let our expertise lend to your vision a unique sense of authenticity. Our scientists work *with* you to blend scientific accuracy with in-game or movie magic so that your work shines like a Hollywood star! Contact us about your customized project.

### **Museums, Zoos & Aquariums**

Is your institution planning a new dinosaur exhibit, or that truly unique aquarium theme that represents the Cretaceous Seas of Manitoba? Consult with the professionals and bring scientific accuracy to your concepts and elevate them to world-class innovations!



**Respect Heritage Consulting  
202 29<sup>th</sup> Street West  
Saskatoon, Saskatchewan  
S7L 0L9**

**Contact:**

**Alan Korejbo, M.A., RPA**

**Senior Archaeologist**

**Phone:** [REDACTED]

**Website: [www.RespectHeritage.ca](http://www.RespectHeritage.ca)**

Respect forms the basis of all great relationships. Using this as a primary guiding principle, at RESPECT HERITAGE CONSULTING we build respect into everything we do. Respect for the history of the land and its people; Respect between team members; and Respect for you, the client. When you choose our firm, you can be confident we will invest in a mutually beneficial, long-term relationship with you and your company or community.

Alan Korejbo is RESPECT HERITAGE CONSULTING's founding archaeologist. He has nearly 20 years of experience as an archaeologist and has been employed as a consulting archaeologist by some of the largest environmental companies in Western Canada. Alan has gained considerable knowledge of heritage legislation and regulatory process and understands how to ensure regulatory compliance for your project that is on time, and on budget.

RESPECT HERITAGE CONSULTING provides reputable experience and cost-effective professional consulting services.

Heritage, Archaeology, Community:

- Heritage Resource Impact Assessments (HRIA)
  - Including pre-impact, post-impact, monitoring, and mitigation
- Heritage Resource Overview (desktop heritage Screening)
- Project referrals and submissions
- Traditional Land Use Studies (TLU)
- Indigenous collaboration
- Community engagement
- Public outreach and education

**Stantec Consulting Ltd.**

**Contact:**

**Butch Amundson**

Principal

100 - 75 24th Street E

Saskatoon Saskatchewan S7K 0K3



Stantec Consulting Ltd. provides a full range of heritage resource impact assessment and cultural management services. Through our experienced staff, we are able to integrate archaeological, historical and oral history investigations into comprehensive environmental assessment studies, heritage resource impact assessments, heritage resource management strategies, assistance with land claim entitlements and heritage resource surveys to record land use activities on private, public and traditional lands from the recent to the ancient past.

Our staff has the background skills in archaeological site survey, site excavation, interpretation and reporting, geophysical studies, GIS mapping, extant building recording, heritage displays and cultural resource management strategies. Stantec also offers laser imaging, high resolution historical air photo analysis (to map now extinct sites), cemetery rehabilitation, mapping and unmarked grave location and artefact conservation.

Stantec has developed a Traditional Land Use and Traditional Ecological Knowledge group who have completed a number of studies across Canada for various environmental assessment projects. These projects have involved Stantec staff completing the studies through assistance with the First Nation communities or facilitating independent community studies.

SYNERGY LAND AND ENVIRONMENTAL SERVICES LTD.  
124, 885 – 42 Avenue SE  
Calgary, Alberta  
T2G 5N9

Scott Rogerson  
Vice President, Environmental Services

Cell: [REDACTED]

Website: <https://synergyland.ca>

Synergy Land and Environmental Services Ltd. offers a full range of heritage consulting services. With over 15 years of archaeological experience our staff aim for the most reliable and economical solutions to satisfy all client and regulatory requirements. Using our live data capture methods, we can supply clients with real time data, allowing them to make decisions while crews are still in the field, saving both time and cost. Our archaeological consulting services include archaeological modelling, Heritage Resource Impact Assessments, artifact analysis, and artifact cataloguing.

**Western Heritage: Winnipeg**

**30-360 Main Street Unit 13B - PMB#326**

**Winnipeg, MB R3C3Z8**

Website: [www.westernheritage.ca](http://www.westernheritage.ca)

**General Contact**

**T:** (204) 944-8325

**e:** [projects@westernheritage.ca](mailto:projects@westernheritage.ca)

<b>Western Heritage</b>	30-360 Main Street Unit 13B - PMB#326 Winnipeg, MB R3C3Z8	Phone: (204) 944-8325 Toll Free: 1-877-669-0784 <a href="http://www.westernheritage.ca">www.westernheritage.ca</a>	▪ General Contact <a href="mailto:projects@westernheritage.ca">projects@westernheritage.ca</a>
	322 Duchess St. Saskatoon SK S7K 0R1	Phone: (306) 975-3860 Toll Free: 1-877-699-0784 <a href="http://www.westernheritage.ca">www.westernheritage.ca</a>	• Jim Finnigan [REDACTED]@ • Peggy McKeand [REDACTED]

Western Heritage is a multi-provincial firm that has been providing archaeological and other heritage services since 1990. Our Winnipeg office, formerly Quaternary Consultants, has extensive experience in working throughout Manitoba. The scale of projects has ranged from small survey projects to large scale excavation projects.

Archaeological services include heritage overviews, compliance-based heritage overviews, archaeological assessment and excavation projects. We have worked across the province from the US border, to as far north as Churchill. We regularly work with First Nations' and Métis communities and community monitors. We have provided training for indigenous archaeology teams.

Our technical services include satellite-based remote sensing, digital landscape mapping (GIS) and specialized archaeological and land management software development. Our specialized services include heritage potential modeling, archaeological magnetic, radar, and resistivity surveys, detailed soil studies and POSL dating. Western Heritage has nearly 20 years of experience in mapping cemeteries with GPR.

In addition to archaeology, we provide services in the area of indigenous consultation and engagement, traditional land use and traditional environmental knowledge studies and archival research.

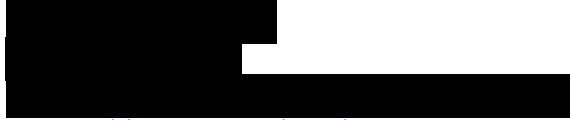
All Manitoba employees are covered by comprehensive professional liability and WCB insurance. Western Heritage has an Energy Safety Canada COR.

**White Spruce Archaeology Inc. (WSA)**

22 Victor Pleshko Place.  
Winnipeg, Manitoba  
R3V 0A4

Contacts:

Dr. Linda Larcombe



[www.whitesprucearchaeology.com](http://www.whitesprucearchaeology.com)

Matthew Singer  
Project Archaeologist



[www.whitesprucearchaeology.com](http://www.whitesprucearchaeology.com)

[Information for Landowners](#)  
[Information for Resource Developers](#)

[Information for Engineering Firms](#)  
[Information for First Nation Communities](#)

White Spruce Archaeology Inc. (WSA) is the oldest heritage firm in Manitoba and will provide expert support for the project’s archaeological assessments. WSA archaeologists are qualified and licensed to conduct heritage work in Manitoba and Ontario.

The work conducted by WSA includes Heritage Resource Impact Assessments (HRIA), Traditional Land Use (TLU) and occupancy studies, archaeological survey and assessments related to sustainable development. WSA has undertaken archaeological and heritage studies for a variety of local government agencies, engineering firms, resource extraction developments and homeowners. We take pride in our commitment to working with local First Nations communities and maintain a policy of training and employing First Nations people within whose traditional territory we work for positions as field assistants.

Archaeological assessments, including HRIA typically include background research (archaeological inventory, review of historical literature, review of geology and the natural environment), TLU data collection and analysis, field research, and reporting according to provincial guidelines and regulations. When initiating an archaeological assessment, WSA will first apply for a heritage permit and begin discussions with First Nation communities, if needed. Once the heritage permit is received, WSA acquires archaeological site information for the study area and begins to review the geographic, land use, and historical information. Current literature about the area is reviewed and existing conditions in the study area are examined to assist in the identification of areas heritage potential and devise an informed strategy about which surface and subsurface survey methods would be used. WSA has experience, expertise and technology to manage, analyze and store the land and archaeological databases using geographic information systems platform.

Based on preliminary information gathering and fieldwork, when required, WSA reviews and summarizes what is known about the archaeology, history and prehistory of the study area and proposes recommendations to either clear the area of archaeological concern, or if this is not possible, WSA will work with the proponent to develop a strategy for long-term protection of impacted archaeological sites. If protection of archaeological resources is not a viable option due to project design, WSA would conduct an archaeological excavation to document and recover artifacts prior to construction. WSA adheres to provincial guidelines regarding the excavation and processing of artifacts.

**WSP Canada Inc.**

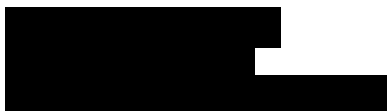
1600 Buffalo Place  
Winnipeg, Manitoba  
R3T 6B8  
204-805-6841

WSP: [www.wsp.com](http://www.wsp.com)

WSP Heritage: <https://www.wsp.com/en-CA/services/archaeology-and-heritage>

Ed Fread, M.A., RPA  
Senior Project Archaeologist

Darren Keam, M.Sc., P.Ag  
Regional Manager, Environment



WSP offers a complete range of archaeological assessment and heritage conservation services to clients across both public and private sectors and for all levels of local, provincial, and federal governments. Our services encompass all aspects of heritage assessment with a focus on identification and management of heritage resources, including protection plans that outline both avoidance and mitigative strategies. In Canada, our experienced team of experts help clients work to minimize their project's impact on heritage resources in a way that is the least detrimental to their project's timeline and objective while still meeting regulatory requirements.

No project is too small or too complex. Our team has conducted hundreds of heritage programs and archaeological assessments to date, for clients in the following sectors: commercial, communication & technology, energy and natural resources, government, industrial, rail, residential, retail, roads and bridges, urban regeneration and water and waste.

**Our areas of expertise include:**

- Desktop heritage sensitivities review and analysis
- Heritage baseline inventories
- Pre-construction heritage surveys
- Heritage construction monitoring
- Post-construction heritage impact studies
- Public engagement
- First Nations and Métis consultation
- Community engagement
- Indigenous relations

**Our Core Services:**

- Heritage Resource Impact Assessments (HRIA)
- Heritage resource overview studies
- Heritage resource desktop screening analysis
- Heritage resource mitigation studies
- Monitoring of heritage resources during project implementation
- Post-impact heritage studies
- Heritage resource protection plan development
- Heritage conservation studies and planning
- Geomatics and Geospatial Analysis
- Built heritage assessments
- Cultural heritage landscape analysis, evaluation, design, and restoration

## Landrie, Brianna

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**From:** +WPG574 - HRB Archaeology <HRB.archaeology@gov.mb.ca>  
**Sent:** July 3, 2024 1:52 PM  
**To:** Landrie, Brianna  
**Subject:** RE: EAP - RM of Boissevain-Morton - Heritage Resources Information Request [WSP# 17817.1877]  
**Attachments:** AAS-24-22073\_22074\_22075\_WSP Canada Inc\_Request [WSP#17817-1877].pdf; HRIA Process Flowchart.pdf; HRB Heritage Consultants List updated June 2024.pdf

Good Afternoon,

Please see attached our memo of concerns for all three areas of development.

AAS number	Legal	Component	HRB Comment
AAS-24-22073	SE-23-03-20-W	Lagoon expansion	Concerns
AAS-24-22074	NW-14-03-20-W	Potential borrow area	Concerns
AAS-24-22075	NW-13-03-20-W	Potential borrow area	Concerns

### Concerns

Further to your e-mail regarding the above noted application, the Manitoba Historic Resources Branch (HRB) has examined the locations in conjunction with Branch records for areas of potential concern. Notably, the development footprints are located along water corridors Cherry Creek, tributaries, and wetlands, as well as near known archaeological sites that are located within the corridor. These factors, although not exclusive to the analysis, indicate a reason to believe that any future planned ground disturbance, activity, and/or development within the area has the potential to impact heritage resources, therefore, the Historic Resources Branch has concerns.

### Legislation

Under Section 12(2) of [The Heritage Resources Act](#) (the Act), if there is reason to believe that heritage resources or human remains upon or within or beneath lands are likely to be damaged or destroyed by any work, activity, development or project, then the Minister may require a proponent to apply for a heritage permit and conduct at his/her own expense, a heritage resource impact assessment (HRIA) and mitigation, prior to the project's start. As per sections 46 and 51 of the Act, there is an obligation to report any heritage resources and a prohibition on destruction, damage or alteration of said resources.

A Heritage Resource Impact Assessment (HRIA) is an assessment showing the impact that proposed work is likely to have upon heritage resources or human remains. HRIAs must be conducted by a qualified archaeological consultant under a heritage permit. Please find attached a flow chart outlining the general process of an HRIA.

### HRIA Expectations

The Branch will work with the proponent/land owners and its consultant to draw up terms of reference for this project. Please allow for HRIA timelines in your planning as HRIAs are conducted in snow and frost-free conditions. Any exceptions require planning and consultation with the HRB.

Please find attached an archaeological consultants' list for reference. Due diligence should be conducted in order to assess quotes, services, and timelines.

### Archaeological Assessment Services Unit

Historic Resources Branch  
Manitoba Sport, Culture, Heritage & Tourism  
Main Floor, 213 Notre Dame Ave.  
Winnipeg, MB R3B 1N3

---

**From:** Landrie, Brianna <Brianna.Landrie@wsp.com>  
**Sent:** Tuesday, June 18, 2024 1:30 PM  
**To:** +WPG574 - HRB Archaeology <HRB.archaeology@gov.mb.ca>  
**Subject:** EAP - RM of Boissevain-Morton - Heritage Resources Information Request [WSP#17817.1877]

You don't often get email from [brianna.landrie@wsp.com](mailto:brianna.landrie@wsp.com). [Learn why this is important](#)

Good afternoon,

We are working on an Environment Act Proposal for the RM of Boissevain-Morton for the expansion of the existing lagoon facility. The development will occur in:

- SE-23-3-20W (lagoon expansion)
- NW-14-3-20W (potential borrow area, pending geotechnical investigation)
- NW-13-3-20W (potential borrow area, pending geotechnical investigation)

Please indicate if there are any concerns regarding Heritage Resources.

Thanks,



**Brianna Landrie, EIT**

Designer  
Water & Wastewater Infrastructure

D+ 1 204-259-1699  
M+ 1 431-336-4486

WSP Canada Inc.  
1600 Buffalo Place  
Winnipeg, Manitoba  
R3T 6B8 Canada

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# Heritage Resource Impact Assessment (HRIA) Process

