

REPORT

Heritage Documentation Report

Bonis Property, 4397 Line 5, Township of Perth South, Perth County, Ontario

Submitted to:

Dr. David Hanratty, Director of Land & Resources

Votorantim Cimentos 55 Industrial Street Toronto, Ontario M4G 3W9

Submitted by: Reviewed by Brad Drouin, 20 December 2018

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January 3, 2019

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Acknowledgements

Votorantim Cimentos Jennifer Bernard

Executive Summary

This Executive Summary highlights only the report's key points; for a complete account of the results, as well as the limitations, the reader should consult the report in full.

In September 2017, St. Marys Cement Inc. (SMC), a division of Votorantim Cimentos North America (VCNA) retained Golder Associates Ltd. (Golder) to conduct a Heritage Impact Assessment (HIA) for 4397 Line 5, in the Township of Perth South, Perth County, Ontario. It is a 'property of interest', constructed in the late 1800s, but not listed or designated. After completion of the HIA, Golder confirmed that the property is of cultural heritage value or interest as a representative and unique example of a later 19th-century Georgian farmhouse, constructed from river stones. However, the results of a structural engineering investigation determined that it was not feasible to conserve or rehabilitate the building for a new use.

Based on these findings from the 2017 HIA, Golder recommended that the house and connected barns be preserved by record prior to the demolition of the property. In November 2018, SMC retained Golder to complete the Heritage Documentation Report (HDR), and based on Golder's advice, records of the property will be placed in publicly accessible archives.

This HDR serves as an addendum to Golder's HIA and provides

- A Statement of Cultural Heritage Value or Interest for the property at 4397 Line 5; and
- Additional detail on the built heritage assets of the Bonis Property.

Golder recommends that:

- This HDR be deposited in a permanent, publicly accessible archive in the Township of Perth South; and,
- The Main Block and West Wing, and Connected Barns can be demolished without further recording or analysis.

Study Limitations

Golder Associates Ltd. has prepared this report in a manner consistent with standards and guidelines developed by the Ontario Ministry of Tourism, Culture and Sport and Canada's Historic Places, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied, is made.

This report has been prepared for the specific site, design objective, developments and purpose described to Golder Associates Ltd. by St. Marys Cement Inc. (SMC), a division of Votorantim Cimentos North America (VCNA) (the Client). The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder Associates Ltd.'s express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the Client, Golder Associates Ltd. may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder Associates Ltd. The report, all plans, data, drawings and other documents as well as electronic media prepared by Golder Associates Ltd. who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report or any portion thereof to any other party without the express written permission of Golder Associates Ltd. The Client acknowledges the electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client cannot rely upon the electronic media versions of Golder Associates Ltd.'s report or other work products.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project.

Table of Contents

1.0	INTRO	DUCTION	1
2.0	STATI	EMENT OF CULTURAL HERITAGE VALUE OR INTEREST	3
	2.1	Description of Property – Bonis Property, Township of Perth south	3
	2.2	Statement of Cultural Heritage Value or Interest	3
	2.3	Description of Key Heritage Attributes	3
3.0	SCOP	E AND METHOD	4
4.0	MAIN	BLOCK AND WEST WING MAPPING	6
	4.1	Elevations	6
	4.2	Photographic Documentation	7
	4.2.1	Main Block & West Wing Exterior	7
	4.2.2	Main Block & West Wing Interior1	6
	4.2.2.1	Floorplans1	6
	4.2.2.2	Main Block1	7
	4.2.2.3	West Wing Interior2	4
	4.2.2.4	Basement2	7
	4.3	Connected Barns	0
	4.3.1	Barn Bents3	0
	4.3.2	Connected Barns Exterior	1
	4.3.3	Barn Interiors	9
	4.3.4	Floorplans3	9
	4.3.4.1	Interior4	0
	4.3.5	Barn 2 Interior4	3
	4.3.6	Barn 3 Interior4	5
	4.3.7	Dairy4	7
	4.3.8	Silos4	7
5.0	RECO	MMENDATIONS4	8
6.0	REFE	RENCES4	9

FIGURES

Figure 1: Location Map	.2
Figure 2: Schematic key plan for built elements in the south portion of the property	.5
Figure 3: South and east elevations, and east section of the Main House and West Wing	.6
Figure 4: South façade of Main Block and West Wing (Nov 2017).	.7
Figure 5: South façade of the Main Block	.7
Figure 6: South and east façades of the Main Block	.8
Figure 7: East façade of the Main Block	.8
Figure 8: East and North façade of the Main Block	.9
Figure 9: North façade	.9
Figure 10: North and West facades	10
Figure 11: North-east corner of the Main Block masonry (scale indicates 25 cm increments) (Nov 2017)	10
Figure 12: Main Block window on the east end wall with heavy stone lintel (scale in 25cm increments) (Nov 2017).	11
Figure 13: Varied sizes of rubble in the wall of the Main Block (Nov 2017).	11
Figure 14: Carved limestone block on the east end wall of the Main Block.	12
Figure 15: Typical window on the ground floor of the Main Block (Nov 2017)	12
Figure 16: South façade of the West Wing (Nov 2017)	13
Figure 17: West façade of the West Wing (Nov 2017)	13
Figure 18: East exterior entrance to West Wing in limestone wall.	14
Figure 19: Detail of wood lintel above east exterior door on west wing.	14
Figure 20: North and west facades of the West Wing (Nov 2017).	15
Figure 21: East end wall of Main Block with crack highlighted in yellow (Nov 2017)	15
Figure 22: Main Block and West Wing floorplans	16
Figure 23: 0.5 m thick wall between rooms on east side of the house (Dec 2017)	17
Figure 24: Northeast corner of the northeast room, ground floor (Dec 2017).	17
Figure 25: View from the living room east of the entry hall, facing north to the second room. Note rosette detail in the door architrave (Dec 2017)	18
Figure 26: Northwest corner of the west room, Main Block (Dec 2017)	18
Figure 27: West end wall fireplace (Dec 2017)	19
Figure 28: Detail of north end of the fireplace mantle (Dec 2017).	19
Figure 29: Water damage in ceiling of west room (Dec 2017).	20
Figure 30: Stairs to second level, with wall visibly bowing inwards (Dec 2017).	20

Figure 31: Curved wall beneath the stairs (Dec 2017).	21
Figure 32: Typical window on the second storey, northeast bedroom, north wall (Dec 2017)	21
Figure 33: Interior of hall closet, second storey. Note access to attic and damage to ceiling (Dec 2017)	22
Figure 34: Interior floor of the second storey closet (Dec 2017).	22
Figure 35: Second level door with white ceramic doorknob and lock (Dec 2017)	23
Figure 36: Typical window on the second storey, northwest bedroom, facing north (Dec 2017)	23
Figure 37: Floor and baseboards in second storey bedroom, Main Block (Dec 2017).	24
Figure 38: East room in west wing (Dec 2017)	24
Figure 39: Interior wall in west room with lath-and-plaster (Dec 2017).	25
Figure 40: Door-frame and stone wall abutting the cement wall (Dec 2017).	25
Figure 41: Joint between stone and CMU walls on south side of West Wing (Dec 2017).	26
Figure 42: Half-round common rafters in the West Wing roof (Dec 2017).	26
Figure 43: Northeast stairs to the basement (Dec 2017).	27
Figure 44: Floor beams under east half of West Wing (Dec 2017).	27
Figure 45: Closed stairs used as shelving (Dec 2017).	28
Figure 46: Plaster on the east wall of the basement, along with solid stone floor and iron staining (Dec 2017).	28
Figure 47: North wall of basement (Dec 2017)	29
Figure 48: Representative bents from each barn.	30
Figure 49: The connected barns with Barn 3 (far left), Barn 2 (centre), Dairy (centre right), Barn 1 (far right), and the silos (background) looking northeast (Nov 2017).	31
Figure 50: South façades of the connected barns (Nov 2017)	31
Figure 51: East façade wall of Barn 1, with Barn 2 at right (Nov 2017)	32
Figure 52: East and north façades of Barn 1 (left) and Barn 2 (centre) (Nov 2017).	32
Figure 53: North façades of Barn 1 (far left), Barn 2 (centre), and Barn 3 (right) (Nov 2017)	33
Figure 54: North and west façades of Barn 3 (right) and Barn 2 (left) (Nov 2017)	33
Figure 55: West façades of Barn 3 (centre), Barn 2 (left), and the Dairy (far left) (Nov 2017)	34
Figure 56: South façade of Barn 3 (left), Barn 2 and the Dairy (centre), and Barn 1 (right) (Nov 2017).	34
Figure 57: Barn 3 door, detailing state of decay	35
Figure 58: Barn 3 second level floor, detailing the exposed beams and ground floor CMU wall	35
Figure 59: Damage to north wall of Barn 2, behind the silos	36
Figure 60: Detail of the Dairy, south wall	36
Figure 61: Detail of south wall, Barn 1	37

Figure 62: South-west connection between Barn 2 (right) and Barn 3 (left). Note the difference in foundation construction (Nov 2017)	37
Figure 63: The east foundation wall of Barn 1, showing a section of concrete repair (Nov 2017)	38
Figure 65: Interior east foundation of Barn 1, showing bowing wall (Nov 2017).	40
Figure 66: Basement pens in Barn 1, showing interior sleeper beams in ceiling and CMU division walls (Nov 2017).	40
Figure 67: Facing east inside the basement of Barn 1, towards collapsing foundation wall.	41
Figure 68: Interior of Barn 1, facing the east end (Dec 2017).	41
Figure 69: Interior beams of Barn 1 with visible damage	42
Figure 70: Facing west towards junction with Barn 2.	42
Figure 71: Interior of Barn 2 with its Y-bracing and heavy purlins (Dec 2017)	43
Figure 72: Sleeper rafters in Barn 2	43
Figure 73: North end of Barn 2, with several divisions (Dec 2017).	44
Figure 74: South west corner of Barn 2, showing the join between the barn and its extension	44
Figure 75: Interior of Barn 3, facing the west end. Note the dimensional lumber rafters (Nov 2017)	45
Figure 76: Interior of Barn 2, facing east end, at the join between Barn 2 and 3.	45
Figure 77: Interior south wall of Barn 3	46
Figure 78: North-west corner of Barn 3 basement, showing foundation degradation and partial collapse (Nov 2017)	46
Figure 79: Exterior of the Dairy (Nov 2017)	47
Figure 80: The silos north of the connected barns, looking south (Nov 2017)	47
Figure 81: View southwest of the silos and connected barns.	48

APPENDICES

APPENDIX A Resumés

1.0 INTRODUCTION

In September 2017, St. Marys Cement Inc. (SMC), a division of Votorantim Cimentos North America (VCNA) retained Golder Associates Ltd. (Golder) to conduct a Heritage Impact Assessment (HIA) for 4397 Line 5, in the Township of Perth South, Perth County, Ontario. It is a 'property of interest', constructed in the late 1800s, but not listed or designated. After completion of the HIA, Golder confirmed that the property is of cultural heritage value or interest as a representative and unique example of a later 19th-century Georgian farmhouse, constructed from river stones. However, the results of a structural engineering investigation determined that it was not feasible to conserve or rehabilitate the building for a new use.

Based on these findings from the 2017 HIA, Golder recommended that the house and connected barns be preserved by record prior to the demolition of the property. In November 2018, SMC retained Golder to complete the Heritage Documentation Report (HDR), and based on Golder's advice, records of the property will be placed in publicly accessible archives.

This HDR serves as an addendum to Golder's HIA and provides:

- A Statement of Cultural Heritage Value or Interest for the property at 4397 Line 5,
- An overview of the scope and methods used to document the structures at 4397 Line 5;
- 'As-built' floor plan drawings;
- Photo documentation of the property;
- Elevation photo documentation and drawings of the exterior of the housel; and,
- Interior views of all rooms and features.







LEGEND



APPROXIMATE STUDY AREA PERTH COUNTY BOUNDARY TOWNSHIP/MUNICIPALITY BOUNDARY PERTH COUNTY TOWNSHIP/MUNICIPALITY

REFERENCE

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NOTES

THIS DRAWING IS SCHEMATIC ONLY AND IS TO BE READ IN CONJUNCTION WITH ACCOMPANYING TEXT.

BING IMAGERY USED FOR ILLUSTRATION PURPOSES ONLY AND NOT TO BE USED FOR MEASUREMENTS. ALL LOCATIONS ARE APPROXIMATE.

PROJEC HERITAGE DOCUMENTATION REPORT BONIS PROPERTY, 4397 LINE 5 TOWNSHIP OF SOUTH PERTH, PERTH COUNTY, ONTARIO

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LOCATION MAP

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2.0 STATEMENT OF CULTURAL HERITAGE VALUE OR INTEREST

2.1 Description of Property – Bonis Property, Township of Perth south

The 'Bonis Property' is located on the north side of the Thames River at civic address 4397 Line 5, in the Township of Perth South in Perth County. The rural agricultural property includes a two-storey stone house, several connected barns, silos, and a drive shed.

2.2 Statement of Cultural Heritage Value or Interest

The Bonis Property is of cultural heritage value or interest for its design value or physical value, and for its contextual value. Constructed after 1873, the two-storey and three-bay main block of the house was constructed in a vernacular Georgian style using irregular field or river stones. It was later extended to the west with a single storey west wing. The house is associated with a complex of connected barns that are heavy timber framed with a Y-shaped bracing. Both the house and barns are relatively unique since their building material contrasts with the limestone block construction seen in the nearby community of St. Marys.

The property's contextual value lies in its physical and visual connections with the Thames Canadian Heritage River, which runs east-west immediately to the south.

2.3 Description of Key Heritage Attributes

Key attributes that reflect the design value or physical value of the property include its:

- Three-bay, two-storey Main Block with:
 - local field or river stone construction;
 - Side gable roof, end wall chimneys and symmetrical fenestration characteristic of the Georgian style;
 - Windows with rough cut voussoirs and bush hammered with chiselled margin lug sills; and,
 - 1857 date stone possibly salvaged from an earlier structure.
- Connected barns with:
 - Stone foundations;
 - Off-angle connections to each other;
 - Timber-framing construction with Y-bracing roof trusses.

Key attributes reflect the property's contextual value are its:

- Stones used in construction of built elements that may have been taken from the nearby Thames River bed; and,
- Clear views of the Thames Canadian Heritage River.

3.0 SCOPE AND METHOD

Measured drawings and photographic documentation of the property was initially carried out for the HIA on November 17 and December 13, 2017 by Cultural Heritage Specialists Henry Cary and Robyn Lacy, who used a Bosch laser distance measurer, and Olympus E-volt E500 digital single lens reflex camera, and a Samsung Galaxy S8. Subsequent documentation was conducted by Cultural Heritage Specialist Robyn Lacy on November 12, 2018, who used a Nikon Coolpix P90 digital single lens reflex camera and a Bosch laser distance measurer. Due to the structural integrity of the house, interior photos were only taken on December 13, 2017, while tenants were still residing in the residence. Access to the residence was not available in 2018.

This report is primarily a graphic record, with a full descriptive account of existing conditions provided in the HIA. This report also includes images collected from both site visits, but images are from November 2018 unless otherwise indicated.





Figure 2: Schematic key plan for built elements in the south portion of the property.

4.0 MAIN BLOCK AND WEST WING MAPPING

4.1 Elevations



EAST SECTION



Figure 3: South and east elevations, and east section of the Main House and West Wing

4.2

4.2.1

Figure 4: South façade of Main Block and West Wing (Nov 2017).



Figure 5: South façade of the Main Block.



Figure 6: South and east façades of the Main Block.



Figure 7: East façade of the Main Block.



Figure 8: East and North façade of the Main Block.



Figure 9: North façade.



Figure 10: North and West facades.



Figure 11: North-east corner of the Main Block masonry (scale indicates 25 cm increments) (Nov 2017).



Figure 12: Main Block window on the east end wall with heavy stone lintel (scale in 25cm increments) (Nov 2017).



Figure 13: Varied sizes of rubble in the wall of the Main Block (Nov 2017).



Figure 14: Carved limestone block on the east end wall of the Main Block.



Figure 15: Typical window on the ground floor of the Main Block (Nov 2017).



Figure 16: South façade of the West Wing (Nov 2017).



Figure 17: West façade of the West Wing (Nov 2017).



Figure 18: East exterior entrance to West Wing in limestone wall.



Figure 19: Detail of wood lintel above east exterior door on west wing.



Figure 20: North and west facades of the West Wing (Nov 2017).



Figure 21: East end wall of Main Block with crack highlighted in yellow (Nov 2017).

Bedroom

4.2.2 Main Block & West Wing Interior

4.2.2.1 Floorplans

BONIS PROPERTY, 4397 LINE 5

Township of Perth South, Perth County,

Ontario



Second Level

Bathroom

Figure 22: Main Block and West Wing floorplans.

4.2.2.2 Main Block



Figure 23: 0.5 m thick wall between rooms on east side of the house (Dec 2017).



Figure 24: Northeast corner of the northeast room, ground floor (Dec 2017).



Figure 25: View from the living room east of the entry hall, facing north to the second room. Note rosette detail in the door architrave (Dec 2017).



Figure 26: Northwest corner of the west room, Main Block (Dec 2017).



Figure 27: West end wall fireplace (Dec 2017).



Figure 28: Detail of north end of the fireplace mantle (Dec 2017).



Figure 29: Water damage in ceiling of west room (Dec 2017).



Figure 30: Stairs to second level, with wall visibly bowing inwards (Dec 2017).



Figure 31: Curved wall beneath the stairs (Dec 2017).



Figure 32: Typical window on the second storey, northeast bedroom, north wall (Dec 2017).



Figure 33: Interior of hall closet, second storey. Note access to attic and damage to ceiling (Dec 2017).



Figure 34: Interior floor of the second storey closet (Dec 2017).



Figure 35: Second level door with white ceramic doorknob and lock (Dec 2017).



Figure 36: Typical window on the second storey, northwest bedroom, facing north (Dec 2017).

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Figure 37: Floor and baseboards in second storey bedroom, Main Block (Dec 2017).

4.2.2.3 West Wing Interior



Figure 38: East room in west wing (Dec 2017).



Figure 39: Interior wall in west room with lath-and-plaster (Dec 2017).



Figure 40: Door-frame and stone wall abutting the cement wall (Dec 2017).



Figure 41: Joint between stone and CMU walls on south side of West Wing (Dec 2017).



Figure 42: Half-round common rafters in the West Wing roof (Dec 2017).



Figure 43: Northeast stairs to the basement (Dec 2017).

4.2.2.4 Basement



Figure 44: Floor beams under east half of West Wing (Dec 2017).



Figure 45: Closed stairs used as shelving (Dec 2017).



Figure 46: Plaster on the east wall of the basement, along with solid stone floor and iron staining (Dec 2017).



Figure 47: North wall of basement (Dec 2017).

4.3 Connected Barns

4.3.1 Barn Bents

BONIS PROPERTY, 4397 LINE 5 Township of Perth South, Perth County, Ontario Representative Bents NOTE: Scale is approximate







4.3.2 Connected Barns Exterior



Figure 49: The connected barns with Barn 3 (far left), Barn 2 (centre), Dairy (centre right), Barn 1 (far right), and the silos (background) looking northeast (Nov 2017).



Figure 50: South façades of the connected barns (Nov 2017).



Figure 51: East façade wall of Barn 1, with Barn 2 at right (Nov 2017).



Figure 52: East and north façades of Barn 1 (left) and Barn 2 (centre) (Nov 2017).



Figure 53: North façades of Barn 1 (far left), Barn 2 (centre), and Barn 3 (right) (Nov 2017).



Figure 54: North and west façades of Barn 3 (right) and Barn 2 (left) (Nov 2017).



Figure 55: West façades of Barn 3 (centre), Barn 2 (left), and the Dairy (far left) (Nov 2017).



Figure 56: South façade of Barn 3 (left), Barn 2 and the Dairy (centre), and Barn 1 (right) (Nov 2017).



Figure 57: Barn 3 door, detailing state of decay.



Figure 58: Barn 3 second level floor, detailing the exposed beams and ground floor CMU wall.



Figure 59: Damage to north wall of Barn 2, behind the silos.



Figure 60: Detail of the Dairy, south wall.



Figure 61: Detail of south wall, Barn 1.



Figure 62: South-west connection between Barn 2 (right) and Barn 3 (left). Note the difference in foundation construction (Nov 2017)



Figure 63: The east foundation wall of Barn 1, showing a section of concrete repair (Nov 2017).

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4.3.3 Barn Interiors

4.3.4 Floorplans

BONIS PROPTERTY, 4397 LINE 5

Township of Perth South, Perth County, Ontario



Figure 64: Connected barns floorplan.

4.3.4.1 Interior



Figure 65: Interior east foundation of Barn 1, showing bowing wall (Nov 2017).



Figure 66: Basement pens in Barn 1, showing interior sleeper beams in ceiling and CMU division walls (Nov 2017).



Figure 67: Facing east inside the basement of Barn 1, towards collapsing foundation wall.



Figure 68: Interior of Barn 1, facing the east end (Dec 2017).



Figure 69: Interior beams of Barn 1 with visible damage.



Figure 70: Facing west towards junction with Barn 2.

4.3.5 Barn 2 Interior



Figure 71: Interior of Barn 2 with its Y-bracing and heavy purlins (Dec 2017).



Figure 72: Sleeper rafters in Barn 2



Figure 73: North end of Barn 2, with several divisions (Dec 2017).



Figure 74: South west corner of Barn 2, showing the join between the barn and its extension.

4.3.6 Barn 3 Interior



Figure 75: Interior of Barn 3, facing the west end. Note the dimensional lumber rafters (Nov 2017).



Figure 76: Interior of Barn 2, facing east end, at the join between Barn 2 and 3.



Figure 77: Interior south wall of Barn 3.



Figure 78: North-west corner of Barn 3 basement, showing foundation degradation and partial collapse (Nov 2017).

4.3.7 Dairy



Figure 79: Exterior of the Dairy (Nov 2017).

4.3.8 Silos



Figure 80: The silos north of the connected barns, looking south (Nov 2017).



Figure 81: View southwest of the silos and connected barns.

5.0 RECOMMENDATIONS

This Heritage Documentation Report for the Bonis Property, 4397 Line 5, Township of Perth South, Perth County, Ontario, provides a photographic and descriptive record of the Main Block and West Wing of the residence, the connected barns and dairy, and the driveshed. Investigations for this documentation report did not reveal any new information on the construction or history of the built heritage assets of the Bonis Property, nor did it identify artifacts or architectural features which should be salvaged for re-use or curation.

Golder, therefore, recommends that:

- This HDR be deposited in a permanent, publicly accessible archive in the Township of Perth South; and,
- The Main Block and West Wing, and Connected Barns can be demolished without further recording or analysis.

6.0 **REFERENCES**

Canada's Historic Places

2010 Standards and Guidelines for the Conservation of Historic Places in Canada. Second Edition. Canada's Historic Places, Ottawa.

Golder Associates Ltd.

2017 Bonis Property, 4397 Line 5, Township of Perth South, Perth County, Ontario. *Heritage Impact* Assessment, Nov 16, 2018.

Signature Page

Golder Associates Ltd.

Henry Cary, Ph.D., CAHP, RPA *Cultural Heritage Specialist*

HC/RL/BD/ly

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Bradley Drouin, M.A. Associate, Senior Archaeologist

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APPENDIX A





Golder Associates Ltd. – Ottawa

Education

M.A. Mortuary Archaeology, University of Alberta, Edmonton, Alberta, 2004

B.A. Anthropology and Archaeology, Memorial University of Newfoundland, St. John's, Newfoundland, 2001

Certifications

Professionally Licensed Archaeologist, Ontario (P311), 2008

Permit Holder in Alberta, 2006 - 2008

Career Summary

Bradley Drouin is a Senior Archaeologist working out of Golder Associates Ottawa Office and has been with the company for over 7 years. Since his tenure at Golder, Brad has also worked out of the Edmonton, Alberta; London, Ontario; and Melbourne, Australia Offices. During this time, Mr. Drouin has acted as Permit holding and Professionally Licensed Archaeologist in Alberta and Ontario as well as Project Archaeologist in Australia. In addition to his time at Golder, his experience spans an additional six years of working in the field of archaeology undertaking assessments in both Newfoundland and Russia. While in Russia Bradley completed four field seasons and worked in collaboration with Russian colleagues during the excavation and exhumation of Pre-Contact Indigenous burials from three separate burial sites. The work was completed through the University of Alberta in Edmonton and in collaboration with Irkutsk State University.

More recently, Mr. Drouin has been the Project Manager for one of Golder's largest archaeological projects in advance of a Wind and Solar Farm project in Southwestern Ontario. This worked has involved the collaboration of project personnel from 10 different Canadian offices and the coordination of up to 120 field personnel.

Employment History

Golder Associates Ltd. – Various Archaeologist (2006 to Present)

Golder Associates Ltd. – Ottawa, Ontario Archaeologist (2010 to Present)

Professionally licensed archaeologist carrying out Stage 1, 2, 3 and 4 archaeological assessments in Ontario.

Golder Associates – Melbourne, Australia Archaeologist (2009 to 2010)

Project archaeologist and Cultural Heritage Advisor carrying out Desk Top, Standard and Complex Assessments as well as Cultural Heritage Management Plans within the State of Victoria. Consulted with Registered Aboriginal Parties and Traditional Owner Groups around Melbourne with respect to project goals and outcomes.

Golder Associates Ltd – Edmonton, Alberta then Ottawa, Ontario Archaeologist (2007 to 2009)

Professionally licensed archaeologist carrying out Stage 1, 2 and 3 archaeological assessments in Ontario. Permit holding archaeologist in Alberta, with extensive work experience in the Northwest Territories and Nunavut.

Conche Archaeology Project – St. John's, Newfoundland Project Coordinator (2004 to 2006)

Project head of an archaeological survey of the east coast of Newfoundland's Northern Peninsula. Hired field staff and organized field activities.

Baikal Archaeology Project – Edmonton, Alberta

Laboratory Supervisor (2003 to 2004)

Organized and curated osteological, sediment and faunal samples associated with the project. Updated and maintained numerous project electronic modules for use by researchers and students.

Baikal Archaeology Project Field School – Siberia, Russia Teaching Assistant in Mortuary Archaeology (2003)

Taught field school participants proper procedures for the excavation, documentation and curation of human remains, as well as instructed field school participants survey techniques, artifact documentation and sediment sampling techniques.

Baikal Archaeology Project – Edmonton, Alberta and Siberia, Russia Research Assistant in Mortuary Archaeology (2001 to 2003)

Taught field school participants proper procedures for the excavation, documentation and curation of human remains, as well as instructed field school participants survey techniques, artifact documentation and sediment sampling techniques.

Past Recovery Archaeology – Ottawa, Ontario

Archaeological Technician (2001 to 2003)

Impact assessments for a number of developments around Ottawa which included heavy equipment monitoring and cataloguing artifacts.

Heritage Quest Inc. – Ottawa, Ontario

Archaeological Technician (2000 to 2001)

Impact assessments for a number of developments around Ottawa which included heavy equipment monitoring, site mitigation and artifact cataloguing.

Ken Swayze Consulting - Ottawa, Ontario

Archaeological Technician (2000)

Impact assessments for a number of commercial and residential developments along Ottawa Valley.



PROJECT EXPERIENCE – GREEN ENERGY PROJECTS

Stage 4 Archaeological Assessment, Wind Farm Haldimand County, Ontario

Stage 4 Archaeological Assessment, Solar Farm Haldimand County, Ontario

> Stage 1 – 3 Archaeological Assessment Haldimand County, Ontario

Stage 4 Archaeological Assessment, Solar farm Frontenac County, Ontario

Stage 3 Archaeological Assessment, Wind and Solar farm Haldimand County, Ontario

Archaeological **Monitoring Technical** Support Eastern Ontario

Project Manager and Licensed Archaeologist for a 150MW 67 Turbine Wind Farm Project in South Western Ontario. The Project involved the Stage 4 excavation of 44 Pre-Contact Aboriginal sites and was completed between August 2012 and the Summer of 2014. The project required the coordination of over 120 office and field staff from nine separate Golder Offices across Ontario. It represents the single largest Archaeology project completed by Golder to date.

Project Manager and Licensed Archaeologist for a solar farm Project in South Western Ontario. The Project involved the Stage 4 excavation of six Pre-Contact Aboriginal sites and was completed between November 2012 and August 2013. The project involved close engagement with three interested First Nations groups and ongoing collaboration with the Ministry of Tourism Culture and Sport.

Project Manager and Licensed Archaeologist for a Stage 1 - 3 Point of Interconnect for a combined Wind and Solar farm in Haldimand County Ontario. The project involved the completion of field work and associated reporting under a condensed timeline due to construction schedules and required permitting. The project met the schedule timeline and was successfully cleared by the MTCS.

Project Manager and Licensed Archaeologist for a solar farm project situated in Frontenac County, Ontario. The Project involved the Stage 4 excavation of 3 historic Euro-Canadian archaeological sites over a period of two months. The project required the timely production of the preliminary archaeological assessment reports in order to meet construction and permitting timelines. The project was completed successfully.

Project Manager for a Stage 3 archaeological assessment project in advance of a wind and solar farm project in Haldimand County Ontario. The project involved the excavation and analysis of 54 Stage 3 archaeological sites on the wind lands and 28 archaeological sites on the solar lands. The results of the work and regulatory consultation completed for the Stage 3 assessments was a re-writing of Ministry of Tourism, Culture and Sports guidelines as they specifically relate to wind and solar farm projects.

Provided technical support for the production of project deliverables including an unanticipated discovery plan to the proponent and subcontract for a wind farm project in eastern Ontario. The deliverables provided guidance to construction teams on the responsibilities for those that discover archaeological resources during construction.



PROJECT EXPERIENCE – LAND DEVELOPMENT AND MANAGEMENT

Stage 1 and 2 Archaeological Assessments Residential Developments Ottawa, Ontario

Historical Resources Impact Assessment Edgeworth Properties Hinton, Alberta

Axe Point Military Base Site Remediation Project Northwest Territories

CAM-D Dew-line Site Remediation Project Simpson Lake, Nunavut

Murphy Complex Emergency Stabilization Project Twin Falls, Idaho, USA

Various Cultural Heritage Management Plans Melbourne, Australia Licensee and Project Archaeologists for a number of Stage 1 and Stage 2 archaeological assessments for residential and commercial developments in Eastern Ontario.

Permit holder and Project Manager for a Historical Resources Impact Assessment conducted on behalf of Edgeworth Properties for a residential housing development in the foothills of Alberta's Rocky Mountains.

Historical Resource Impact Assessment for the former Axe Point Military Base (CANOL) on behalf of Public Works and Government Services Canada.

Historical Resource Impact Assessment for the former CAM-D Dew-line site on behalf of Public Works and INAC.

Crew member for survey of 60 000 acres of burned land scheduled to be reseeded. Assessed and recorded historical resource sites found during project.

Lead field archaeologist for various standard and complex archaeological assessments around Melbourne. Work consisted of residential development, shared natural trail assessments, contaminated land sites and extensive consultation with Registered Aboriginal Parties and Indigenous Traditional Owner groups.

PROJECT EXPERIENCE – OIL & GAS AND MINING

Grande Prairie Area Permit holder and report author for Historical Resource Impact Assessment for Northern Alberta Aztec Engineering pipeline right-of-way. Enbridge Waupisoo Lead archaeologist for pipeline construction monitoring of the Christina River as East-central Alberta well as a field assistant for a Historical Resources Impact Assessment of the proposed pipeline right-of-way through both Alberta's Green and White zones. **McKenzie Pipeline** Field assistant for a Historical Resources Impact Assessment for a large pipeline **Environmental Group** right-of-way extending from North of Inuvik to the Alberta NWT border. Northwest Territories Suncor Energy Inc. Field Assistant for a Historical Resources Impact Assessment for a proposed Northern Alberta mine site.

Shell Canada Ltd.
Northern AlbertaField Assistant for a Historical Resources Impact Assessment for a proposed
mine and dam site.

Fort McKay Developments Northern Alberta

Mancal Energy Inc. Central Alberta

Newmont Mining Corporation Melvin Sound, Nunavut Field Assistant for a Historical Resources Impact Assessment for a number of smaller development projects.

Permit holder and report author for a Historic Resources Impact Assessment for a well site, pipeline and associated tie-ins.

Project archaeologists for an archaeological impact assessment in Melvin Sound, Nunavut. Conducted aerial reconnaissance and pedestrian surveys for potential quarry sites, winter roads and an all weather road.

Licensee and Project Archaeologists for two the Victoria Lookout rehabilitation

projects. The project involved archaeological monitoring during demolition of the

PROJECT EXPERIENCE – FEDERAL LAND AND PARLIAMENTARY PRECINCT

Archaeological Monitoring Parliament Hill Ottawa, Ontario

retaining wall for the lookout. The investigation resulted in the identification of an early component of the lookout previously thought to have been demolished. Licensee and Project Manager for the Perimeter wall rehabilitation project on Parliament Hill. Monitored the excavation of trenches along the eastern

the removal of material from the West Block Courtyard.

Archaeological Monitoring Parliament Hill Ottawa, Ontario

perimeter between piers 1 and 27.

Archaeological Monitoring Parliament Hill Ottawa, Ontario

Archaeological Monitoring Parliament Hill Ottawa, Ontario

Archaeological Monitoring Parliament Hill Ottawa, Ontario Licensee and Project Manager during re-paving of the RCMP check point location to the west of the West Block. The project involved archaeological monitoring during removal of deposits in the location of the old Supreme Court.

rehabilitation project. Both projects involved monitoring heavy equipment during

Archaeologist during a Stage 3 investigation in advance of construction and maintenance on the tunnel system between the Confederation and Justice Building. The work involved monitoring of heavy equipment and focused excavations.

PROJECT EXPERIENCE – CEMETERIES AND HUMAN BURIALS

Historic Fort Dunvegan Northwest Company Grave Exhumation Project Dunvegan, Alberta

Edmonton, Alberta

Dunvegan, Alberta
Leger Neighbourhood
Multiplex complex
Permit holder and report author fo
project for the City of Edmonton, F

Permit holder and report author for a Historical Resources Impact Mitigation project for the City of Edmonton, Parks Design and Construction. Proposed development had potential to impact the unregistered historic Henderson Cemetery. Conducted extensive archival research followed by construction monitoring.

Project Manager for the excavation of three at risk fur trade era graves in Historic

Fort Dunvegan, AB. The project integrated the archaeological component with

strong First Nations consultation and teaching component.



Traditional Burial Ground and Old Fort Edmonton Cemetery Edmonton, Alberta

South LRT expansion Project Edmonton, Alberta

Baikal Archaeology Project Siberia, Russia

Permit holder and crew lead for a Historical Resources Impact Mitigation project for the City of Edmonton. Primarily involved in background archival research and subsequent heavy equipment monitoring.

Field member for a construction monitoring project which involved the collection of human skeletal material and associated artifacts from a Historic burial disturbed during the expansion of the LRT.

Archaeologist and research assistant for four field seasons excavating and curating approximately 50 pre-contact human burials from three separate cemeteries in southern Siberia.

PROJECT EXPERIENCE – LABORATORY

Conche Archaeology Project St. John's, Newfoundland

Organized, curated and analyzed prehistoric and historic cultural material from approximately 20 sites along the east coast of Newfoundland's Northern Peninsula.

Baikal Archaeology Project – Lab **Supervisor** Edmonton, Alberta

Organized and curated all human bone samples, faunal samples and sediment samples. Prepared samples for processing, shipping and analysis as well as entered data into project module databases. Updated and maintained project databases in addition to aiding in the development of an image database.



TRAINING

H2S Alive EnForm

ATV Training Course Canadian Safety Council

Wilderness First Aid for Field Services Training **Boreal River**

OSSA Regional Orientation Program Golder Institute

Construction Safety Training System Alberta Construction Safety Association

WHMIS Golder Institute

Helicopter Safety Golder Institute

Bear Awareness Golder Institute

Canadian Firearms Safety Course Alberta Hunter Education Instructors' Association

Transportation of Dangerous Goods

PROFESSIONAL AFFILIATIONS

Ontario Archaeological Society

Ottawa Archaeological Society

Canadian Archaeological Association

Professionally Licensed Archaeologist (P311)



Education

Ph.D., War Studies Programme (Military History & Architecture), Royal Military College of Canada, Kingston, Ontario, 2013

M.A., Historical Archaeology, Department of Anthropology, Memorial University, St. John's, Newfoundland, 2004

Combined Honours B.A. (with distinction), Department of Sociology & Anthropology/ and Department of Archaeology & Classics, Wilfrid Laurier University, Waterloo, Ontario, 2000

Certifications

Canadian Association of Heritage Professionals (CAHP)

Ministry of Transport Ontario RAQs-approved for Archaeology/Heritage

Province of Ontario Licence to Conduct Archaeological Fieldwork, Professional Class, No. P327.

ICOMOS Canada Professional Member

ICOFORT Associate Member

Parks Canada Research Permits, 2002-2012, 2015-2016

Certificate in Project Management, Department of Continuing Studies, Dalhousie University, 2014

Henry C. Cary, Ph.D., CAHP

Cultural Heritage Specialist / Archaeologist

PROFESSIONAL SUMMARY GOLDER ASSOCIATES LTD

Dr. Henry Cary has over 15 years of public and private-sector experience directing cultural heritage and archaeological projects in Canadian urban, rural, Arctic and Sub-Arctic environments. He specialises in the historic architecture and cultural landscapes of North America, including industrial and military heritage. In addition to providing heritage evaluations, impact assessments, documentation reports, and conservation and management plans for a wide range of clients and resources, Dr. Cary is skilled in the analysis, digital survey and mapping, and other documentation of complex, multi-component properties, structures, and landscapes. Prior to joining Golder, Dr. Cary was an archaeologist and cultural resource management specialist for Parks Canada, notably for the Fort Henry National Historic Site Conservation Program and Western Arctic Field Unit. He has also served as Heritage Manager for the Town of Lunenburg UNESCO World Heritage Site and consultant for privatesector and research projects in Newfoundland and Labrador, Nova Scotia, Ontario, Alberta, British Columbia, the Republic of South Africa, Italy, and France. Henry is a member of the Canadian Association of Heritage Professionals (CAHP) and ICOMOS Canada, Adjunct Professor in the Department of Anthropology at Saint Mary's University, and Lecturer in the Department of Anthropology at Mount Allison University.

EMPLOYMENT HISTORY

Golder Associates Ltd. Cultural Heritage Specialist / Archaeologist (2015–present)

Saint Mary's University – Halifax, Nova Scotia Adjunct Professor, Department of Anthropology (2014–present)

Mount Allison University – Sackville, New Brunswick Lecturer, Department of Anthropology (2016-present)

CH2M HILL – Calgary, Alberta Archaeology Field Manager (2014–2015)

Town of Lunenburg – Lunenburg, Nova Scotia Heritage Manager, Corporate Services (2012–2014)

Parks Canada Agency – Inuvik, Northwest Territories Field Unit Archaeologist/Historian, Western Arctic Field Unit (2009–2012)

Parks Canada Agency – Cornwall, Ontario Project Archaeologist, Ontario Service Centre (2002–2009)

Professional Memberships

Association for Industrial Archaeology

Chartered Institute for Archaeologists (Affiliate)

Construction History Society

Council for British Archaeology

Council for Northeast Historical Archaeology

Fortress Study Group

Landscape Survey Group

Society for Post-Medieval Archaeology

Society for the Study of Architecture in Canada

Vernacular Architecture Forum

Vernacular Architecture Group

Ground Truth Archaeology/ Past Recovery Archaeological Services/ Cataraqui Archaeological Research Foundation – Kingston, Ontario Archaeological survey and mapping services (part-time) (2005–2009)

Memorial University – St. John's, Newfoundland Project Director, Hoffnungsthal Archaeology Project (2000–2004)

Parks Canada Agency – Cornwall, Ontario Assistant Archaeologist, Ontario Service Centre (1998, 1999)

RELEVANT EXPERIENCE

Heritage Impact Assessment – Former Brantford Public Utilities Commission Water Treatment Complex City of Brantford, ON

Principal investigator, task manager, and author of a heritage impact assessment for the large and sophisticated Brantford water treatment complex, constructed in phases between 1889 and the late 20th century. Reporting included photogrammetric recording, determining the structural sequence, application of Ontario heritage evaluation criteria to a multi-component industrial site, and coordinating archival research and reporting with junior staff.

Highways 7A & 26 Cultural Heritage Screening, Regional Municipality of Durham, ON

Principal investigator, task manager, and author of a technical memorandum to identify potential heritage properties and cultural heritage landscapes in the study areas surrounding highway culverts. Reporting application of Ministry of Tourism, Culture and Sport cultural heritage screening checklist, consultation with local municipal planners, and developing a new screening report template. As a result of this deliverable, the memorandum format is now being implemented as the appropriate scope and deliverable for all future MTO culvert replacement projects.

Structural Walls Policy Development for the Corporation of the City of Cambridge, City of Cambridge, ON

Principal investigator, task manager, and author of a technical memorandum assessing the heritage potential of structural walls in the City of Cambridge inventory and recommending conservation measures to support the City of Cambridge Asset Management Plan. Complete this assignment required background historical and heritage policy research, imagery-based evaluation, GIS analysis and mapping, and producing a detailed report with practical and cost-effective suggestions to manage the City's historic structural walls.

Heritage Impact Assessment – 64 Main Street West, Downtown Heritage Character Zone, City of Hamilton, ON

Principal investigator, task manager, and author of a heritage impact assessment for a high rise development in the City of Hamilton Downtown Heritage Character Zone. Reporting included field investigations, determining the impact of the development on adjacent listed and designated properties, providing extensive design guidance to ensure the proposed development was compatible with the heritage character zone design guidelines, and coordinating archival research and reporting with junior staff.

Heritage Impact Assessment – 10489 Islington Avenue, Nashville-Kleinburg Heritage Conservation District, City of Vaughan, ON

Principal investigator, task manager, and author of a heritage impact assessment for proposed alterations to an early 20th century residence and store and construction of a new residential and commercial building in the Nashville-Kleinburg Heritage Conservation District. Reporting included field investigations, research on historic views and vistas, determining the impact of the proposed development on the integrity of the existing structures and objectives of the HCD, providing extensive design guidance to ensure the alterations and new development conformed to the HCD plan and guidelines, and coordinating archival research and reporting with junior staff.

Heritage Impact Assessment – Victoria Square Boulevard, City of Markham, ON

Principal investigator and task manager for a heritage impact assessment of a 2.74-km long road improvement project within residential development and a historic hamlet. Reporting included application of Ontario heritage evaluation criteria, determining the impact of the proposed development on 30 known and designated heritage properties and the cultural heritage landscape of the hamlet, and coordinating archival research, mapping, and field investigations with junior staff.

Heritage Impact Assessment – 7714 Yonge Street, Thornhill Heritage Conservation District, City of Vaughan, ON

Principal investigator, task manager, and author of a heritage impact assessment for proposed alterations to a mid-19th century Gothic Revival house in the Thornhill Heritage Conservation District. Reporting included field investigations, determining the structural sequence, application of Ontario heritage evaluation criteria, determining the impact of the proposed alterations on the integrity of the structure and objectives of the HCD, and coordinating archival research and reporting with junior staff.

Heritage Impact Assessment – The Anglican Church of St. Thomas Parsonage, City of Hamilton, ON

Principal investigator, task manager, and author of a heritage impact assessment for a circa 1870 Anglican Parsonage at 18 West Avenue South. Reporting included photogrammetry, floor plan and interior documentation, staff training on field recording methods, coordinating archival research and reporting with junior staff, and assessment of potential impact on the adjacent municipally designated Church of St. Thomas.

Heritage Impact Assessment – TransCanada Pipelines Vaughan Mainline Extension, City of Vaughan, ON

Principal investigator and task manager for a heritage impact assessment of the 12-km long pipeline project west of Kleinburg. Reporting included field investigations of 13 heritage properties, application of Ontario heritage evaluation criteria, coordinating archival research and reporting with junior staff, and securing approvals from the Ministry of Tourism, Culture and Sport.

Heritage Documentation Report – 347 Charlton Avenue West, City of Hamilton, ON

Principal investigator, task manager, and author of a heritage documentation report for an early 20th century dwelling in downtown Hamilton. Reporting included producing measured drawings of the property and exterior and interior of the house, staff training on digital and analogue field recording methods, coordinating archival research and reporting with junior staff, and drafting recommendations for artifact curation and re-use.

Heritage Impact Assessment – Residential Development Adjacent to the Power Glen Heritage Conservation District, City of St. Catharines, ON

Principal investigator, task manager, and author of a heritage impact assessment for residential development of a large lot adjacent to the Power Glen Heritage Conservation District, a historic community associated with early industry in St. Catharines. The heritage impact assessment required evaluation of 20th century structures on the property and an assessment of potential impact on the properties within the heritage conservation district.

Heritage Conservation Plan – 41 Dundas Street East, Town of Oakville, ON

Author and task manager of a heritage conservation plan to guide rehabilitation of a mid-19th century brick farmhouse now surrounded by residential development. The conservation plan made a series of actionable recommendations supported by historic and conservation best practice research, measured drawings, and an implementation schedule.

Heritage Impact Assessment & Documentation Report – The Sawdon Building, Town of Whitby, ON

Principal investigator, task manager, and author of a heritage impact assessment and subsequent documentation report prior to commercial development of 244 Brock Street South in downtown Whitby. The heritage impact assessment required evaluation of a former early 20th century coal shed and an assessment of potential impact on two proposed heritage conservation districts. The documentation report included producing measured drawings of the property and exterior and interior of the structure, and drafting text and images for a commemorative panel.



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