



01 02-2017

MEMO TO : Burrard Civic Marina Upgrade (c/o Andrew Norrie, Real Estate & Facilities
Mgmt, CoV)

FROM : Geordie Howe Park Board Archaeologist

SUBJECT : Archaeological Assessment Procedures

Development Project:

Burrard Civic Marina Upgrade

Review Criteria & Rationale:

- Based on recommendations in Millennia Research Ltd.'s *Burrard Civic Marina Upgrade Archaeological Overview Assessment* (September 27, 2016):
 - Archaeological monitoring of excavation of trenches for water and electrical that show as at or above the original shoreline, using the most conservative lien where early shoreline mapped shorelines diverge (page 20 & page 12 Figure 6);
 - Chance Finds Procedure for remainder of development (page 20)
- Musqueam, Squamish, and Tsleil-Waututh First Nations' sensitivity to any land altering activities within the Project area and footprint will have to be considered in the Level of Effort.

Recommended course of action for the Burrard Civic Marina Project to be undertaken by qualified archaeologists and/or archaeological consultancies:



Archaeological Overview Assessment (AOA) - COMPLETED

- Desktop review (with optional preliminary field reconnaissance) includes:
 - Background research of ethnographic, archaeological and historical documents pertinent to the Burrard Civic Marina Project development footprint;
 - Statement of archaeological resource potential and archaeological site distribution pertinent to the study area;
 - A preliminary assessment of anticipated impacts in light of proposed development plans;
 - Recommendations concerning the need for further archaeological studies (if any) and the type of further archaeological studies
- AOAs within CoV lands are usually conducted under permits from First Nations. These include:
 - Musqueam Indian Band Permit

- Squamish Nation Archaeological Investigation Permit
- Stó:lō Heritage Investigation Permit
- Tsleil-Waututh Nation Cultural Heritage Investigation Permit

Squamish, Stó:lō, and Tsleil-Waututh charge for their permits; currently Musqueam does not. Issuance of permits can take several weeks to months.

Archaeological Impact Assessment (AIA) – TO BE COMPLETED

The primary objectives of the AIA are to:

- a. identify and evaluate archaeological resources within the project area;
- b. identify and assess all impacts on archaeological resources which might result from the project; and
- c. recommend viable alternatives for managing unavoidable adverse impacts including a preliminary program for;
 - i. implementing and scheduling impact management actions and, where necessary,
 - ii. conducting surveillance and/or monitoring

https://www.for.gov.bc.ca/archaeology/docs/impact_assessment_guidelines/assessment_and_review_process_part3.htm#3.5_impact_assessment

An AIA will:

- Require a Heritage Inspection Permit (HIP) issued under the *Heritage Conservation Act* by the Archaeology Branch. Federal lands (i.e. Stanley Park) are except but intertidal lands are included.
- Within CoV lands are conducted under permits from First Nations. These include:
 - Musqueam Indian Band Permit
 - Squamish Nation Archaeological Investigation Permit
 - Stó:lō Heritage Investigation Permit
 - Tsleil-Waututh Nation Cultural Heritage Investigation Permit

Squamish, Stó:lō, and Tsleil-Waututh charge for their permits; currently Musqueam does not. Issuance of permits can take several weeks to months.

Heritage Inspection Permit (HIP)

Application Time Line

The selected archaeological consultant shall prepared and submit the HIP after it has been reviewed and signed off by the Proponent's representative (see below).



- a. The archaeological consultant may take 2 to 5 days to prepare the Heritage Inspection Permit. This includes the text of the application, necessary figures and project shapefiles for the application;
- b. The archaeological consultant submits the HIP to the Proponent for review. Review can take several hours to a few days depending upon the complexity of the HIP. If Proponent in agreement then "Consent To The Use Of Personal Information" (not applicable for corporate proponents) and "Client's Certification" is completed and returned to the archaeological consultant for submission to the Archaeology Branch;
- c. Archaeological consultant submits HIP application via Archaeological Permit Tracking System (APTS);
- d. Archaeology Branch receives HIP via APTS and acknowledges receipt via email to Archaeological consultant;
- e. Archaeology Branch reviews HIP application in 1 to 3 weeks (see https://www.for.gov.bc.ca/archaeology/archaeology_professionals/permits.htm).
- f. Process for Archaeology Review can take longer than 3 weeks depending upon Archaeology Branch Project Officer's work load and issues with the HIP application itself that need to be address;
- g. Upon acceptance of the HIP application (barring any edits to HIP that need to be addressed), the Archaeology Branch sends out HIP application to affected First Nations;
- h. Affected First Nations determined via First Nations Consultative Areas Database query.
- i. HIP application sent out to all affected First Nations;
- j. First Nations have 15 - 30 days for their review. Affected First Nations can request an extension to the review period.
- k. If no further information or clarification is needed with the application, the Archaeology Branch issues the HIP upon close of the review period. Issuance can take from several hours to days depending upon Archaeology Branch staff workload.

HIP Components:

The following provides information on the various components of the HIP application. The HIP application is completed by the archaeological consultant, reviewed and signed off by the Proponent and submitted online via APTS by the archaeological consultant.

1. Type of Project

Resource Management

2. Location of Project

The description of the project area (footprint). The HIP application must include the physical parameters of the proposed development area accompanied by a figure/map and GIS shapefiles for the study area. Flexibility for the study area boundary should be addressed for any project design changes, and/or associated project lands outside the project footprint. This can be addressed by adding a study area buffer and/or

listed in Location of Project a statement that allows the proponent and archaeological consultant to address additional unanticipated development locations by providing notice (30 days as dictated by the Archaeology Branch) to the Archaeology Branch and affected First Nation communities.

3. Resource Management

i. Development type, facilities, and schedule

Information on all types of proposed development and facilities should be list where known. In addition, provide a statement for managing for unanticipated developments and facilities that may potentially be developed. Provide information on project schedule - if project schedule to occur over several years the permit (Section 6 Schedule of fieldwork and analysis) should allow the flexibility to manage for this time line.

ii. Type of program and methodology

The inventory and assessment program will need to be addressed in this section by the archaeological consultant. However, several key factors of the project will influence the archaeological program. The primary concern is the long period of historical development for the project area. Typically archaeological assessments take place in "greenfield" or undeveloped conditions; however, the project area is a "brownfield" and such conditions must be addressed in the HIP application.

The methodology needs to address undertaken archaeological assessments in a heavily industrialized and/or built up location. The permit will provide information on how the archaeologist will approach those lands that are applicable to the standard AIA approach, in other words conducting an AIA prior to the start-up of construction activities. This approach may work for those lands which are currently accessible such as parkland, empty lots, abandoned lots etc. However, for those lands currently inaccessible due to their built-up condition may require the AIA take place concurrently with the redevelopment of the subject property (i.e. monitoring any ground disturbance below existing road beds, buildings etc.). Such an approach may involve monitoring during deconstruction activities.

4. Disposition of materials collected

All archaeological materials collected must be submitted to a repository acceptable to the Archaeology Branch and to all affected First Nations for the study area. Institutions such as the Museum of Anthropology or the Museum of Archaeology and Ethnology at Simon Fraser University are applicable for this project. If the affected First Nations cannot reach agreement on the repository then the Royal British Columbia Museum in Victoria acts as repository for any impasses. Please note that repositories or institutions have started implementing a fee or fees for curating material. This fee may be either a flat rate or per volume (i.e. number of Bankers Boxes). The costs and conditions of repository should be established and an estimate provided to the Proponent prior to signing off on the HIP.

5. Financial support



Section of the HIP application where the proponent or proponent's representative is listed along with their contact information. The individual named will also need to sign the "Consent To The Use Of Person Information" (not applicable to Crown or corporations) and "Client's Certification" sections certifying that the Proponent's representative has read and concurs with the content of the HIP application. The Proponent will also need to determine who will hold the "Copyright" to the report.

Refer to:

https://www.for.gov.bc.ca/archaeology/bulletins/bulletin20_permit_report_copyright.htm

6. Schedule of fieldwork and analysis

This section outlines the schedule of the fieldwork and analysis of the results of the fieldwork when known. As the construction duration of the Burrard Civic Marina Project should not take over a year (estimate several days to a few weeks), the HIP application should not be a multi-year AIA. The Archaeology Branch can be reticent to issue multi-year permits and therefore places conditions on the issuance of a multi-year permit. Bulletin 24 provides terms for the reporting of multi-year archaeological studies including interim reports, timely submission of BC Archaeological site inventory forms, shapefiles, a summary report submitted by the anniversary date of the permit, and Copyright release. Additional details at Bulletin 24:

https://www.for.gov.bc.ca/archaeology/bulletins/Bulletin24_Annual_Reporting_for_Multiyear_Heritage_Inspection_Studies.htm

7. Field personnel

List of the HIP holder and all archaeologists qualified to be field directors for the project for the length of the project. Specialist studies should be named and who will undertake such specialist studies.

8. Previous permits held by applicant

List of previous permits held by applicant. Applicant must be familiar with the HIP application, the Project, and archaeological methodology applicable to such a project.



9. Applicant's resume

Should already be on file with the Archaeology Branch. A HIP application for a Project of this scope should not be the applicant's first HIP.

Archaeology Branch Contact

In case the Burrard Civic Marina Project team wishes to contact the Archaeology Branch, Ministry of Forests, Lands and Natural Resource Operations, in Victoria, for further clarification. I would recommend talking directly to Paula Thorogood, Manager (Paula.Thorogood@gov.bc.ca, 250-953-3300).

Archaeological Consultancies

A recent CoV RFA for archaeological assessments undertaken in Vancouver (on CoV lands) established four archaeological service providers. Archaeological services are available from four archaeological consultancies. The four archaeological firms/service providers are:

- a. Golder Associates Ltd. Contact Shauna_Huculak@golder.com, or Ryan_Sagarbarria@golder.com, 604-296-7349; www.golder.com;
- b. Inlailawatash Limited Partnership at <http://inlailawatash.ca/>. This consultancy is the Tsleil-Waututh Nation's own company. Please contact Morgan Ritchie for further information (mritchie@twnation.ca; 604-924-4169);
- c. Kleanza Consulting Limited at <http://kleanza.com/>. This firm is favored by the Musqueam Indian Band. Please contact Aviva Finkelstein for further information (aviva@kleanza.com or (778) 892-7760).
- d. Sources Archaeological & Heritage Research Inc. Contact Hartley Odwak, Hartley@sourcesarch.com; 604-809-1515, <http://www.sourcesarch.com/>.

For the Park Board and based upon First Nations input (Musqueam, Squamish, Tsleil-Waututh), archaeological assessments undertaken in Vancouver Parks (including Stanley Park) are currently provided between two archaeological consultancies. These two firms are acceptable to the local First Nations (these communities are the Musqueam Indian Band, Squamish Nation and Tsleil-Waututh Nation). The two archaeological firms/service providers are:

- a. Inlailawatash Limited Partnership at <http://inlailawatash.ca/>. This consultancy is the Tsleil-Waututh Nation's own company. Please contact Morgan Ritchie for further information (mritchie@twnation.ca; 604-924-4169);

and

- b. Kleanza Consulting Limited at <http://kleanza.com/>. This firm is favored by the Musqueam Indian Band. Please contact Aviva Finkelstein for further information (aviva@kleanza.com or (778) 892-7760).

Additional firms with experience working in Vancouver include:

Amec Foster Wheeler

contact Diana.Alexander@afw.com; 604-295-6124, <http://www.amecfw.com/>;



Antiquus Archaeological Consultants Ltd.
contact Mike Rousseau antiquus@shaw.ca; 604-467-3497, <http://antiquus.ca/>;

Archer CRM Partnership
contact Alice Storey, a.storey@archercrm.ca, 604-336-6016,
www.archercrm.ca;

Arrowstone Archaeological Research and Consulting Ltd.
contact Dave Hall at arrowstone@telus.net; 604-931-1997,
<https://arrowstonearchaeology.wordpress.com/>;

ERM Vancouver
contact Lisa Seip at Lisa.Seip@erm.com, 604-689-9460, www.erm.com;

Millennia Research Limited
contact D'Ann Owens at dann@millennia-research.com, <http://millennia-research.com/>; 250-360-0919

Stantec Consulting Limited
Contact: Rob Commisso at rob.commisso@stantec.com,
<http://www.stantec.com/content/stantec/en.html>

Ursus Heritage Consulting Ltd.
contact Ian Cameron at ian@ursus-heritage.ca; 250-938-4662, <http://ursus-heritage.ca/>.

Additional archaeological consultants can be found on the British Columbia Association of Consulting Archaeologists (BCAPA) webpage at <http://www.bcapa.ca/members/consulting-firms/>.