



May 31, 2012

Permit File: 11200-30/2012-0161

David Hall
Arrowstone Archaeological Research and Consulting
51 Maple Dr
Port Moody BC V3H 5M8

AND Nick Ebrahim
3707 Dollarton Hwy
North Vancouver, BC V7G 1A1

fax: (604) 648-9476 [SD#259]

Dear David Hall and Nick Ebrahim:

Application for Permit (Application number 11200-30/12A0174): Alteration of archaeological site DhRr-0008 (the Cates Park Site) from construction of a dock at 3707 Dollarton Highway, on the north shore of Burrard Inlet, North Vancouver

Further to your April 12, 2012, Application for Permit under the *Heritage Conservation Act*, I am pleased to enclose Permit **2012-0161**. Please keep this copy for your records; the original will be retained in the Archaeology Branch permit file.

The results of your alterations are to be presented in the permit report, in accordance with Condition 2 as outlined on Page 2 of your permit. (Please note that a double-sided hard copy is preferred.) The permit report is due by March 1, 2013.

Please contact Jane Warner, Archaeologist, telephone (250) 953-3307, to answer any questions you may have with respect to this permit.

Sincerely,

Doug Glaum
Manager

DG/jt/ Encl.

pc via fax: Musqueam Indian Band, Attn: Leona Sparrow **(604) 263-4212 [SD#120]**
Sto:lo Nation, Attn: Cara Brendzy, Project Archaeologist,
Sto:lo Research & Resource Management Centre **(604) 824-5129 [SD#188]**
Tsleil-Waututh Nation **(604) 929-4158 [SD#217]**
Squamish Nation, Attn: Lisa Wilcox, Referrals & Consultation **[Regular Mail]**

**Ministry of Forests,
Lands and Natural
Resource Operations**

Archaeology Branch

Mailing Address:
PO Box 9816 Stn Prov Govt
Victoria BC V8W 9W3

Location:
1st floor – 1250 Quadra St.
Victoria, BC V8W 2K7

Phone: (250) 953-3334
Fax: (250) 953-3340

Permit No. 2012-0161

*HERITAGE CONSERVATION ACT***ALTERATION PERMIT**

THIS IS TO CERTIFY that **David Hall of Arrowstone Archaeological Research and Consulting, 51 Maple Dr, Port Moody, BC V3H 5M8 and Nick Ebrahim, 3707 Dollarton Hwy, North Vancouver, BC V7G 1A1** are hereby authorized to conduct alterations as described below, subject to the terms and conditions on the back hereof.

Type of alteration, archaeological site number(s) and location(s):

Alteration of archaeological site DhRr-0008 (the Cates Park Site) from construction of a dock at 3707 Dollarton Highway, on the north shore of Burrard Inlet, North Vancouver

All work is to conform with the "Application for Permit" dated April 12, 2012, attached hereto.

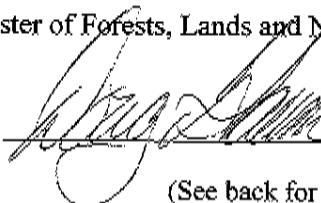
Disposition of materials collected: **Royal British Columbia Museum**

Issued **May 31, 2012**

Expires **March 1, 2013**

Minister of Forests, Lands and Natural Resource Operations

Per



(See back for *Conditions*)

GENERAL TERMS AND CONDITIONS OF PERMIT

1. Permits shall be valid for the term stipulated on the front of the permit unless otherwise suspended or cancelled. Extensions to the term of the permit, or other amendments, will be considered upon submission of a request to the Archaeology Branch at least 20 days prior to the expiry date of the permit.
2. The permit-holder shall provide the Archaeology Branch with one (1) bound copy, if longer than five (5) pages, and one (1) electronic copy in PDF format of a written report outlining the work carried out under the terms of the permit.
3. The title page of all reports must indicate the name(s) of the copyright owner(s) and, where agreed to, a Grant of License statement completed and signed by the copyright owner(s).
4. The permit-holder shall provide the Archaeology Branch with an updated British Columbia Archaeological Site Inventory Form for any site altered under authority of the permit.
5. A person designated by the Minister may at any time inspect any alteration being carried out under the terms of the permit.
6. Where a condition for archaeological monitoring of development is attached to the permit, the permit-holder shall arrange for a secure repository to curate any materials recovered under authority of the permit.
7. Heritage objects and associated materials recovered under authority of the permit may not be sold or exchanged for financial gain. Any other transfer of heritage objects, materials and records, or changes to the conditions identified under the "Disposition of materials collected..." section of the permit, may only be carried out with prior consent of the Minister.
8. A permit does not authorize the holder of the permit to enter property, or to make any alteration to property, without the permission of the owner or occupier.
9. In the event that human remains are encountered, all work must cease in the vicinity of the remains and the Archaeology Branch must be contacted for direction, unless otherwise provided for in the permit application.
10. Any other conditions that may be specified in the permit.

OTHER CONDITIONS:



**BRITISH
COLUMBIA**

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HERITAGE CONSERVATION ACT

APPLICATION FOR ALTERATION PERMIT

The undersigned, **Nick Ebrahim of 3707 Dollarton Hwy., North Vancouver, British Columbia, V7G 1A1** and **Dave Hall of 51 Maple Drive, Port Moody, British Columbia, V3H 5M8**, hereby jointly apply for a Permit pursuant to Section 12 of the *Heritage Conservation Act* to carry out a site alteration in accordance with the information provided below.

GENERAL TERMS AND CONDITIONS OF PERMIT

1. Permits shall be valid for the term stipulated on the front of the permit unless otherwise suspended or cancelled. Extensions to the term of the permit, or other amendments, will be considered upon submission of a request to the Archaeology Branch at least 20 days prior to the expiry date of the permit.
 2. The permit-holder shall provide the Archaeology Branch with one (1) bound copy, if longer than five (5) pages, and one (1) electronic copy in PDF format of a written report outlining the work carried out under the terms of the permit.
 3. The title page of all reports must indicate the name(s) of the copyright owner(s) and, where agreed to, a Grant of License statement completed and signed by the copyright owner(s).
 4. The permit-holder shall provide the Archaeology Branch with an updated British Columbia Archaeological Site Inventory Form for any site altered under authority of the permit.
 5. A person appointed by the branch may at any time inspect any aspect of a project conducted under the terms of this permit. To further their inspection, the appointee may conduct excavations within the study area. Notwithstanding the expiration or earlier termination of the term of the permit this provision will remain and continue in full force and effect."
 6. Where a condition for archaeological monitoring of development is attached to the permit, the permit-holder shall arrange for a secure repository to curate any materials recovered under authority of the permit.
 7. Heritage objects and associated materials recovered under authority of the permit may not be sold or exchanged for financial gain. Any other transfer of heritage objects, materials and records, or changes to the conditions identified under the "Disposition of materials collected..." section of the permit, may only be carried out with prior consent of the Minister.
 8. A permit does not authorize the holder of the permit to enter property, or to make any alteration to property, without the permission of the owner or occupier.
 9. In the event that human remains are encountered, all work must cease in the vicinity of the remains and the Archaeology Branch must be contacted for direction, unless otherwise provided for in the permit application.
 10. Any other conditions that may be specified in the permit
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APPLICATION FOR PERMIT

Type of Site Alteration

The current permit is being sought allow for the construction of a dock (including pilings in the intertidal area) and a shoreline abutment within the recorded boundaries of site **DhRr-008** (Maps 1 and 2). Pilings will be installed by floating barge from the seaward side within the intertidal zone. The shoreline abutment will be constructed by hand along the shoreline and will include a concrete footing.

Background

Site **DhRr-008** (aka the Cates Park Site/Whey-ah-Wicken) consists of a large site that contains shell midden deposits, faunal remains, burials, lithics, and firebroken rock that extends along the northern shoreline of Burrard Inlet. The site was originally recorded in the 1960s and has been the subject of a great deal of excavations, inventory work, and impact assessment work since then including: (1) Carleton's 1972 Vancouver Community College excavations (Charleton 1974), (2) post-impact assessments of the Cates Park developments in 1999 (see Alexander 1999; Alexander and Grier 1999), (3) Monitoring of developments within Cates Park (Alexander 2002, 2003), and (4) intertidal surveys which included the site (see Howe 2007)

More recently, and of specific relevance to the current project, an AIA of proposed residential developments at 3707, 3715, and 3749 Dollarton Highway was conducted in 2008 (Alexander 2008). No archaeological sites were identified within the boundaries of the proposed development area and a recommendation was made that no further archaeological work was warranted for the development prior to the start of proposed residential development activities. However, during the AIA, a single basalt flake was identified in the intertidal zone in front of the proposed development area. The flake was added to the inventory of site **DhRr-008** and the boundary of the site was accordingly extended to include the single flake. As part of the recommendations put forth for in the AIA report for the proposed development, a recommendation was made that "if the foreshore (intertidal zone) of the subject property is developed, the single flake should be collected and additional archaeological studies of the intertidal zone are warranted". Accordingly, as the current dock development plans (specifically the location of the proposed pilings) include the intertidal area, Arrowstone was retained in order to conduct the studies recommended.

Location

- Site **DhRr-008** is located along the northern shoreline of Burrard Inlet.

Concurrent Archaeological Studies

Beach Front and Foreshore Surface Examination

A systematic surface examination of the beach front and foreshore areas in front of the subject properties will be conducted with crew members spaced at 2-3 m intervals. Surfaces will be examined for artifacts and other evidence of past human settlement and land use. Any boulders present will be inspected for petroglyphs as well as for the possible presence of seams of flakable lithic raw materials. Any artifacts identified on the surface during the pedestrian survey will be collected (as per the recommendations of the original AIA report for the proposed residential development).

Subsurface Testing

Shovel tests will be conducted within the location of the proposed shoreline abutment and within the location of the proposed pilings within the intertidal zone.

Shoreline Abutment Location

In the case of the shoreline abutment location, auger tests and/or shovel tests will penetrate both "A" and "B" soil horizons depending on the nature of the sediment accumulation and will continue until unweathered "C" horizon sediments are encountered. Auger tests will extend a minimum of 1 m below the surface. Shovel tests will extend to a minimum of 30 x 30 cm. Backdirt from all tests will be screened through 6 mm mesh and/or hand sorted. The topographical features, previous disturbances, development boundaries that define each subsurface test location will

be identified. Both positive and negative auger tests and/or shovel tests will be sequentially numbered and recorded with the location of each auger test and/or shovel test being plotted on a development plan map. Descriptions of the matrices in positive and negative subsurface tests will be recorded in fieldnotes. Should archaeological deposits be encountered, then subsurface testing will be conducted in 5-m intervals (or less) emanating from the initial positive find until two negative tests are completed in a 5 m grid along at least four radial axes until the edge of the property has been reached. Additional subsurface tests will be conducted in order to ensure complete coverage of subject property in relation to the identified archaeological deposits. All artifacts and other archaeological materials encountered in subsurface tests will be collected.

In the unlikely event that intact or significant deposits are identified within the subsurface tests, all work will stop and a program of salvage data recovery will be initiated. If no archaeological materials or deposits are identified or disturbed deposits and/or sparse archaeological deposits are identified during the initial testing, then monitoring of development activities will take place or inspections as warranted.

Intertidal Pilings Locations

In the case of the intertidal pilings locations, auger tests and/or shovel tests will be conducted within the locations of the proposed pilings within the intertidal zone. Auger tests will extend a minimum of 1 m below the surface. Shovel tests will extend to a minimum of 30 x 30 cm. Backdirt from all tests will be screened through 6 mm mesh and/or hand sorted. Both positive and negative auger tests and/or shovel tests will be sequentially numbered and recorded with the location of each auger test and/or shovel test being plotted on a development plan map. Descriptions of the matrices in positive and negative subsurface tests will be recorded in fieldnotes. Should archaeological deposits be encountered, then subsurface testing will be conducted in 5-m intervals (or less) emanating from the initial positive find until two negative tests are completed in a 5 m grid along at least four radial axes. All artifacts and other archaeological materials encountered in subsurface tests will be collected.

In the unlikely event that intact or significant deposits are identified in the subsurface tests, all work will stop and a program of salvage data recovery will be initiated should the proponent wish to continue with the project. If no archaeological materials or deposits are identified or disturbed deposits and/or sparse archaeological deposits are identified during the initial testing, then monitoring of development activities will take place or inspections as warranted.

Monitoring of Development Activities

Should disturbed or sparse archaeological deposits be identified during the initial testing of the shoreline abutment location or within the pilings locations, and should the proponent choose to proceed with the proposed development, then monitoring of proposed development activities by a professional qualified archaeologist and a field assistant will take place. Mechanical excavation of the pilings will take place in vertical increments not greater than 20 cm. Horizontal provenience control will be maintained to within +/- 10 cm. Backdirt will be selectively screened through 6 mm mesh and/or raked and/or hand sorted. All isolated finds and non-significant archaeological materials encountered during monitoring will be collected. Radiocarbon samples for dating will be collected from any intact datable materials and submitted for laboratory analysis.

Should significant intact cultural deposits be encountered during monitoring, then development activities will cease and an emergency systematic data recovery program will be implemented by a qualified professional archaeologist from Arrowstone (see below). Should human remains be identified, the Archaeology Branch's Found Human Remains Policy will be followed.

Emergency Systematic Data Recovery Program

Should significant intact cultural deposits be identified during the monitoring of proposed development activities, then all development activities will cease and a permanent site datum will be established. The permanent primary site datum established will be used as a control point for: (a) the contour mapping of the excavated site area, (b) establishing a grid system for excavation units, (c) mapping of level floor plans, and (d) determining the three-dimensional provenience of excavated artifacts and features. Following the establishment of the site datum, a linear N-S and E-W baseline will be established with both of these baselines emanating in the cardinal directions from the site datum. Stakes will be placed every 5 m along these baselines. An arbitrary point on the grid will be established with the coordinates "0 m, 0 m". All subsequent unit co-ordinates will be made in reference to this hypothetical point in space with the grid being laid out in such a manner that every excavation unit would be situated within the same quadrant (i.e., all having North and West co-ordinates only). One m by one m excavation units will be established extending off of the two baselines with the unit boundaries being laid out using chains and direct transit/Total Station

sightings from the site datum. The locations of excavation units to be excavated will be judgmentally selected based on their ability to encompass the intact deposits encountered. Wooden posts or long nails will be driven into each of the corners of the excavation units to be established with the unit outlines to be subsequently strung out using common garden twine. All units will be referred to by their grid co-ordinates which will consist of one m measures (distance along grid) and two different directional values (direction along grid) i.e., 1-2N, 1-3W. Unit Depths Below Datum (DBD's) will be established at the same time the grid co-ordinates are assigned.

A vertical datum at the site to which all subsequent vertical measures will be related will be identified. Using this vertical point as a "0" point datum reference, all subsequent vertical measures will be expressed in relation to this point and expressed as DBD's. Within each of the units, the height of the highest corner will be measured and related back to the site datum. The highest stake within each unit will be designated the unit datum or the "datum stake". The datum stake of each unit will then be used to identify the vertical provenience of cultural material within each unit in relation to the datum stake. This will allow for all within-unit vertical measurements to be related back to the overall vertical datum for the site. Unit vertical measurements that can not be directly sighted using a transit/Total Station and stadia rod will be achieved using line levels, garden twine, and nails.

Excavation units will be excavated by trowel and/or by shovel shaving in arbitrary 10 cm levels until sterile ("C" horizon) deposits are encountered. The material immediately on the surface or incorporated within the littermat will be designated Level 0. Excavations will proceed from Level 0 in arbitrary 10 cm levels using the datum stake as the vertical point from which subsequent excavation will proceed. Vertical provenience will be recorded in the following manner: Level 0 will represent the material immediately on the surface or incorporated within the littermat, Level 1 will consist of the cultural material and non-cultural matrix 0-10 cm below the unit datum, Level 2 will consist of the material 10-20 cm below the unit datum, etc. Depths will be measured below an arbitrarily assigned vertical datum that will consist of the highest corner of an excavation unit. All material will be screened through ¼" mesh and whenever possible, nested ¼" and 1/8" screens. All recognizable tools and artifacts will be recorded in 3D provenience using the datum stake as the vertical reference point and unit corners and co-ordinates as horizontal reference points. In those cases when the recording of 3D provenience is not possible (i.e., when artifacts were found during screening), artifacts will be recorded by unit and level. All cultural materials recovered in the excavation will be collected with the exception of fire-cracked rock. Fire cracked rock will not be collected, but will be weighed by level, or by layer if applicable. Recognizable artifacts and formed tools will be assigned individual artifact numbers in the field. Recovered cultural materials will be bagged by level, and all features will be mapped. Formed artifacts will be tagged and bagged individually (bone and wood artifacts will be bagged in paper) and catalogued. Lithic debitage and faunal material will be bagged by level, or by layer if applicable (faunal remains will be bagged in paper bags). Constant Volume Samples (CVS) of unscreened sediments will be collected for micro screening and flotation analysis in the laboratory, with one litre sediment samples being collected for each level, unit, and feature as appropriate or possible. Radiocarbon samples for dating will be collected from any intact datable materials and submitted for laboratory analysis. Appropriate organic samples will be collected for 14C radiocarbon dating from a variety of levels. To prevent contamination, 14C samples will be collected using rubber gloves and wrapped in aluminum foil. Should human remains be identified, the Archaeology Branch's Found Human Remains Policy will be followed.

Excavation will continue until two sterile 10 cm levels are completed. Following the completion of each level, plan level drawings and photographs will be done with natural stratigraphy and matrix descriptions being noted and recorded. Beginning and ending depths of all four corners of each unit will be taken for each level. Following the completion of an excavation unit, plan photographs will be taken and unit profiles and unit descriptions will be completed. Matrix samples will be taken for pedological analysis in all units with samples for flotation analysis being taken in selected units. Features encountered within units will be profiled and pedestaled, as appropriate.

A level record and floor plan will be prepared at the base of each completed level, indicating the location of significant artifacts, cultural materials, staining, charcoal, and features as well as including corner and spot elevations. Stratigraphic profiles of at least two unit walls will also be prepared. Once the excavation units are completed, all of the units will be backfilled and development activities will be allowed to proceed.

Column samples will be taken from intact deposits that are the subject of systematic data recovery. Within each excavation unit, the column sample will be approximately 10 cm by 10 cm by 10 cm and will start from the surface [even if disturbed] and continue to the bottom of the unit in 10 cm increments. The samples will be oven dried as soon as practical to prevent mold formation. They will then be dry screened through ½ inch, ¼ inch, 1/8 inch, 1/16 inch and 1/32 inch screens. The ½, ¼, and 1/8 inch screens will be identified by species, with carbon weighed and stored in tin foil in a similar manner as a C14 sample. The weight of the 1/16, 1/32 inch screenings and the weight of the bypass screenings to 0.1 of a gram will be taken. The dry colour of the bypass screenings will be recorded by Munsell scale. The column samples will also be analyzed for faunal content (including invertebrate fauna and fish remains.) and will be stored at the RBCM.

Systematic Data Recovery Program

Should significant intact cultural deposits be identified during initial testing, systematic data recovery will take place utilizing the procedures described in the "Emergency Systematic Data Recovery Program" section.

Disposition of Materials and Samples Collected

All artifacts collected will be curated by the Royal British Columbia Museum (RBCM) in Victoria. Mr. Grant Keddie is the contact person at the RBCM and can be reached at (250) 387-2416. All collected artifacts will be catalogued after the appropriate accession numbers have been obtained from the Royal British Columbia Museum and described and compared to existing regional typologies. Any formed tools encountered will be described as to shape, raw material, and manufacturing attributes. Appropriate metric attributes of artifacts will also be recorded when warranted. All lithic debitage will be quantified and classified according to raw material, stage of manufacture, and technological attributes. All faunal remains including invertebrate will be collected and analysed. Qualified professionals with access to appropriate facilities and/or reference materials will be asked to conduct specific analyses (such as absolute dating, faunal analyses, botanical analyses, wet site conservation, etc.) as required. All sites will receive descriptive and functional interpretations based on a typological and comparative analysis of observed artifacts and features. Analysis will focus on a culture-historical framework and the functional and seasonal use of a site. Radiocarbon or other samples may be sent out of Province or out of the country for analysis. Only charcoal samples and/or other non-human datable materials will be submitted for radiocarbon dating. No human remains (if recovered) will be subjected to destructive testing nor will any human remains be sent out of the Province or Country. Any returned samples will be curated at the RBCM prior to expiration of the permit.

Alteration Schedule and Permit Expiry Date

It is anticipated that the initial testing will be initiated in June 2012 with any monitoring and/or systematic data recovery taking place shortly thereafter. By March 1, 2013, the permit holders will submit a permit report to Archaeological Planning and Assessment, indicating the status of the site for which the Section 12 permit was obtained. An updated site inventory form will be submitted to Archaeological Planning and Assessment at the same time and will reflect any changes to the site resulting from the permitted activities.

Archaeological Field Personnel

A qualified field director from Arrowstone Archaeological Research and Consulting Limited (either Dave Hall, M.A., RPCA, or Bill Angelbeck, Ph.D., or Ian Cameron, M.Sc., RPCA, or Fraser Bonner, B.A.) will be present on site to oversee the archaeological investigations. Additional field directors acceptable to the Archaeology Branch may be added to this permit without a revision to the permit being required.

I certify that I will abide by the terms and conditions listed on the front of the application or any other conditions the Minister may impose, as empowered by said Act.

Applicant's Contact Information

Nick Ebrahim
3707 Dollarton Hwy.
North Vancouver, B.C.
V7G 1A1
Tel: 604-987-8313
nebrahim2001@yahoo.ca

Previous Permits Help by the Applicant

N/A

CONSENT TO THE USE OF PERSONAL INFORMATION

Permit applicants and their clients must consent to the use of personal information such as names, addresses, and telephone numbers that is included in permit applications, site inventory forms or permit reports. However, consent is not required from representatives of corporate clients. Property owners must also consent to the use of this information if the application applies to private property. This consent is necessary as the Archaeology Branch collects and distributes personal information that is subject to the *Freedom of Information and Protection of Privacy Act*.

I consent to the use of personal information contained in this application, as well as the personal information contained in the resulting site inventory form and permit report, for contact and verification purposes. I understand this information will be retained in the provincial archaeological site database and permit report. I also understand this information may be disclosed to researchers, consulting archaeologists and other users of the database and permit report. Database users must identify themselves and the purpose of their information request, and are precluded from further distribution of the information they obtain. The permit report will be publicly available once it has been accepted as meeting permit terms and conditions.

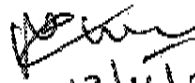
Date 12 April 2012

Place N. Vancouver

(Permit Applicant Signature) 

Date 12/4/2012

Place 3707 Deltacourt Hwy
N. Van. BC V7G 1A1

(Client Signature) 

Date 12/4/2012

Place N. VAN. BC V7G 1A1

(Property Owner Signature) 

I certify that I am familiar with the provisions of the *Heritage Conservation Act* of British Columbia, and that I will abide by the terms and conditions listed on the front hereof, or any other conditions the Minister may impose, as empowered by said Act.

Date 12 April 2012

Place N. VANCOUVER, BC V7G 1A1

(Permit Applicant Signature) 

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Date

Place

.....(Permit Applicant Signature)

Date

Place

.....(Client Signature)

Date

Place

.....(Property Owner Signature)

I certify that I am familiar with the provisions of the *Heritage Conservation Act* of British Columbia, and that I will abide by the terms and conditions listed on the front hereof, or any other conditions the Minister may impose, as empowered by said Act.

Date April 13th, 2012

Place P. F. Mandy



.....(Permit Applicant Signature)

NOTICE REGARDING COPYRIGHT

At the time of report production, the owner(s) of the report copyright will be asked to grant a non-exclusive license to the Province of British Columbia for the purpose of copying and distributing the report. The granting of this license will facilitate access to the archaeological data contained within the report and will therefore contribute to the protection of heritage resources throughout the Province. Copyright owners who refuse to grant a license to the Province, and anyone carrying out research on behalf of those copyright owners, will not be granted access to the Archaeology Branch's online library and will not be permitted to photocopy reports within the Branch office.

NOTICE REGARDING OTHER PERMITS

No permits or approvals, other than a *Heritage Conservation Act* permit, are required to carry out the site alterations described in the permit application. However, licensees and property owners or developers may also require other approvals such as forestry cutting permits and municipal development permits.
